

Surgical Management of Osteoarthritis of the Knee

Appropriate Use Criteria

Adapted by:

The American Academy of Orthopaedic Surgeons Board of Directors
December 9, 2016

Disclaimer

Volunteer physicians from multiple medical specialties created and categorized these Appropriate Use Criteria. These Appropriate Use Criteria are not intended to be comprehensive or a fixed protocol, as some patients may require more or less treatment or different means of diagnosis. These Appropriate Use Criteria represent patients and situations that clinicians treating or diagnosing musculoskeletal conditions are most likely to encounter. The clinician's independent medical judgment, given the individual patient's clinical circumstances, should always determine patient care and treatment.

Disclosure Requirement

In accordance with American Academy of Orthopaedic Surgeons policy, all individuals whose names appear as authors or contributors to this document filed a disclosure statement as part of the submission process. All authors provided full disclosure of potential conflicts of interest prior to participation in the development of these Appropriate Use Criteria. Disclosure information for all panel members can be found in Appendix B.

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FDA Clearance

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For a more user-friendly version of this AUC, or to view additional AUCs, please visit the AAOS AUC web-based app at:

www.OrthoGuidelines.org/auc

To view the clinical practice guideline for this topic, please visit www.orthoguidelines.org/smoakguideline

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I. INTRODUCTION

OVERVIEW

The American Academy of Orthopaedic Surgeons (AAOS) has developed this Appropriate Use Criteria (AUC) to determine appropriateness of various health care services for the Surgical Management of Osteoarthritis of the Knee. The scope of these appropriate use criteria includes nonpharmacologic and pharmacologic interventions for symptomatic osteoarthritis of the knee as well as operative procedures. It does not provide recommendations for patients diagnosed with rheumatoid arthritis, osteoarthritis of other joints, or other inflammatory arthropathies.

An “appropriate” healthcare service is one for which the expected health benefits exceed the expected negative consequences by a sufficiently wide margin.² Evidence-based information, in conjunction with the clinical expertise of physicians from multiple medical specialties, was used to develop the criteria in order to improve patient care and obtain the best outcomes while considering the subtleties and distinctions necessary in making clinical decisions. To provide the evidence foundation for this AUC, the AAOS Evidence-Based Medicine Unit provided the writing panel and voting panel with the 2015 AAOS Clinical Practice Guideline on the Surgical Management of Osteoarthritis of the Knee, which can be accessed via the following link: www.orthoguidelines.org/smoakguideline.

The purpose of this AUC is to help determine the appropriateness of clinical practice guideline recommendations for the heterogeneous patient population routinely seen in practice. The best available scientific evidence is synthesized with collective expert opinion on topics where gold standard randomized clinical trials are not available or are inadequately detailed for identifying distinct patient types. When there is evidence corroborated by consensus that expected benefits substantially outweigh potential risks, exclusive of cost, a procedure is determined to be appropriate. The AAOS uses the RAND/UCLA Appropriateness Method (RAM).² Our process includes these steps: reviewing the results of the evidence analysis, compiling a list of clinical vignettes, and having an expert panel comprised of representatives from multiple medical specialties to determine the appropriateness of each of the clinical indications for treatment as “Appropriate,” “May be Appropriate,” or “Rarely Appropriate.” To access an intuitive and more user-friendly version of the appropriate use criteria for this topic online, please visit our AUC web-based application at www.orthoguidelines.org/auc or download the OrthoGuidelines app from Google Play or Apple Store.

These criteria should not be construed as including all indications or excluding indications reasonably directed to obtaining the same results. The criteria intend to address the most common clinical scenarios facing all appropriately trained surgeons and all qualified physicians managing patients under consideration for surgically treating osteoarthritis of the knee. The ultimate judgment regarding any specific criteria should address all circumstances presented by the patient and the needs and resources particular to the locality or institution. It is also important to state that these criteria were developed as guidelines and are not meant to supersede clinician expertise and experience or patient preference.

INTERPRETING THE APPROPRIATENESS RATINGS

To prevent misuse of these criteria, it is extremely important that the user of this document understands how to interpret the appropriateness ratings. The appropriateness rating scale ranges from one to nine and there are three main range categories that determine how the median rating is defined (i.e. 1-3 = “Rarely Appropriate”, 4-6 = “May Be Appropriate”, and 7-9 = “Appropriate”). Before these appropriate use criteria are consulted, the user should read through and understand all contents of this document.

ASSUMPTIONS OF THE WRITING PANEL/VOTING PANEL

Before these appropriate use criteria are consulted, it is assumed that:

1. The clinician knows the contraindication to the utilization of certain medications and the anesthetic or important surgical contraindications to operative interventions.
2. The patient has a diagnosis of osteoarthritis of the knee. This AUC does not address inflammatory arthritis.
3. The patient is symptomatic including pain, instability, stiffness, and/or deformity that leads to loss of function.
4. The patient’s symptoms are consistent with the history, physical exam, and imaging findings.
5. The imaging findings are consistent with osteoarthritis which may include: joint space narrowing, sclerosis, presence of cysts, and/or osteophytes.
6. Patient has failed other relevant appropriate treatments.
7. AP and/or PA-flexion weight-bearing, lateral, and patellar view radiographs are recommended when possible.
8. The physical examination, history, and imaging studies have excluded the following as the main cause of knee pain:
 - Referred pain from the spine
 - Ipsilateral hip arthritis
 - Ankle/foot deformity
 - Vascular disease (arterial or venous)
 - Non-articular causes of knee pain including soft-tissue disorders
 - Neoplasm
 - Neuropathy
 - Stress fractures, insufficiency fracture, osteonecrosis, or symptomatic metabolic bone disease
9. Shared decision making is encouraged between the patient and surgeon with an emphasis on realistic expectations.
10. There will be patients not considered in this AUC (e.g. inflammatory arthritis) for whom arthroplasty may be the most appropriate treatment, but the appropriateness of arthroplasty for these patients was not considered in these appropriate use criteria.

PATIENT POPULATION

This AUC is intended for use with adults who have been diagnosed by a physician with osteoarthritis of the knee and are undergoing treatment.

BURDEN OF DISEASE

The burden of osteoarthritis (OA) of the knee is largely attributable to the effects of disability, comorbid disease, and the expense of treatment. OA is the most frequent cause of disability among adults in the United States (US), and the burden is increasing both as the prevalence of OA increases and also as patient expectations for treatment rise. Twenty seven million adults (more than 10 percent) of the US adult population had clinical osteoarthritis (OA) in 2005, and in 2009 OA was the fourth most common cause of hospitalization (Murphy & Helmick, 2012).

OA is the leading indication for joint replacement surgery; 905,000 knee and hip replacements were performed in 2009 at a cost of 42.3 billion dollars (Murphy & Helmick, 2012).

Costs to be considered include:

1. Direct Medical Cost
2. Long-term Medical Cost
3. Home Modification Costs
4. Nursing Home Costs

ETIOLOGY

Patients who require surgical treatment for osteoarthritis of the knee have developed the condition naturally over time due to a variety of risk factors or in an accelerated fashion due to prior trauma about the knee. Osteoarthritis is the imbalance of breakdown and repair of tissues within a synovial joint. The etiology of osteoarthritis is varied and includes genetic factors, trauma, prior meniscectomy, overuse, and infection.

INCIDENCE AND PREVALENCE

Twenty seven million adults (more than 10 percent) of the US adult population had clinical osteoarthritis (OA) in 2005, and in 2009 OA was the fourth most common cause of hospitalization (Murphy & Helmick, 2012). The incidence of knee osteoarthritis is estimated to affect 240 persons per 100,000/year. It is estimated that 9.9 million adults had symptomatic osteoarthritis of the knee in 2010.

With rising life expectancy, it is estimated that the prevalence of knee osteoarthritis will continue to increase. The number of people older than age 65 years is expected to increase from 37.1 million to 77.2 million by the year 2040.

POTENTIAL BENEFITS, HARMS, AND CONTRAINDICATIONS

The benefits of surgical treatment of osteoarthritis of the knee include relief of pain and improved function. Most invasive operative treatments, primarily arthroplasty, are associated with known risks.

Early postoperative complications include prosthetic infection, venous thromboembolic disease, arthrofibrosis, and pain. Late postoperative complications include infection, prosthetic aseptic loosening, and pain. All can lead to a need for revision arthroplasty.

Contraindications are relative and require an in depth discussion with the patient and physician (surgeon, anesthesiologist) about their individual risk factors. Additional factors, such as the

individual's co-morbidities, and/or specific patient characteristics may affect the physician's choice of treatment. Clinician input based on experience increases the probability of identifying patients who will benefit from specific treatment options. The individual patient and/or their decision surrogate dynamic will also influence treatment decisions, therefore, discussion of available treatments and procedures applicable to the individual patient rely on mutual communication between the patient and/or decision surrogate and physician, weighing the potential risks and benefits for that patient. Once the patient and/or their decision surrogate have been informed of available therapies and have discussed these options with the patient's physician, an informed decision can be made.

II. METHODS

This AUC for the Surgical Management of Osteoarthritis of the Knee, hereafter referred to as SMOAK AUC, is based on a review of the available literature and a list of clinical scenarios (i.e. criteria) constructed and voted on by experts in orthopaedic surgery and other relevant medical fields. This section describes the methods adapted from the RAND/UCLA Appropriateness Method (RAM)². This section also includes the activities and compositions of the various panels that developed, defined, reviewed, and voted on the criteria.

Two panels participated in the development of the SMOAK AUC (see list on page ii). Members of the writing panel developed a list of 864 patient scenarios, for which three treatments were evaluated for appropriateness. The voting panel participated in three rounds of voting. During the first round of voting, the voting panel was given approximately two months to independently rate the appropriateness of each the provided treatments for each of the relevant patient scenarios as 'Appropriate', 'May Be Appropriate', or 'Rarely Appropriate' via an electronic ballot. After the first round of appropriateness ratings were submitted, AAOS staff calculated the median ratings for each patient scenario and specific treatment. An in-person voting panel meeting was held in Rosemont, IL on Friday, August 5th of 2016. During this meeting voting panel members addressed the scenarios/treatments which resulted in disagreement (definition of disagreement can be found in Table 3). The voting panel members discussed the list of assumptions, patient indications, and treatments to identify areas that needed to be clarified/edited. After the discussion and subsequent changes, the group was asked to rerate their first round ratings during the voting panel meeting, only if they were persuaded to do so by the discussion and available evidence. After completion of the second round of voting, the voting panel opted to look again at scenarios which still contained disagreement and open the ballot for a third round of voting. The voting panel determined appropriateness by rating treatments for the various patient scenarios (i.e. criteria) as 'Appropriate', 'May Be Appropriate', or 'Rarely Appropriate'. There was no attempt to obtain consensus about appropriateness.

AAOS Appropriate Use Criteria Section, the AAOS Council on Research and Quality, and the AAOS Board of Directors sequentially approved the SMOAK AUC. AAOS submits this AUC to the National Guidelines Clearinghouse and, in accordance with the National Guidelines Clearinghouse criteria, will update or retire this AUC within five years of the publication date.

DEVELOPING CRITERIA

Panel members of the SMOAK AUC, who are orthopaedic specialists in treating knee-related injuries/diseases, developed clinical scenarios using the following guiding principles:

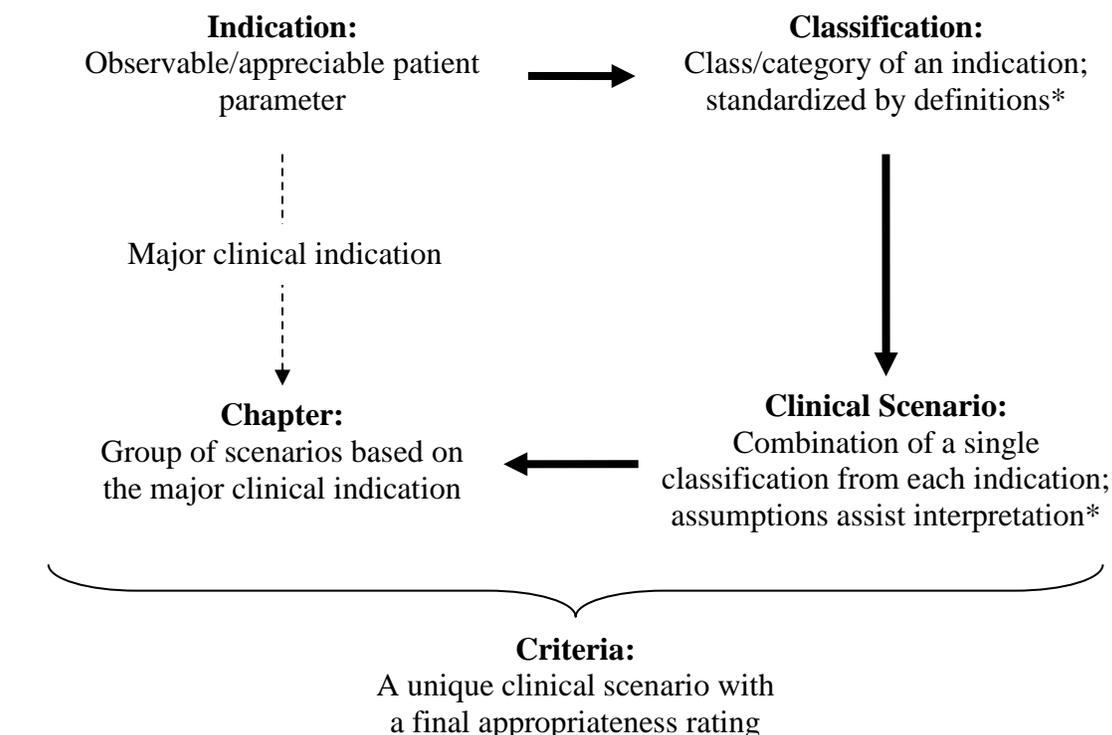
- Patient scenarios must include a broad spectrum of patients that may be eligible for treatment of osteoarthritis of the knee [*comprehensive*]
- Patient indications must classify patients into a unique scenario [*mutually exclusive*]
- Patient indications must consistently classify similar patients into the same scenario [*reliable, valid indicators*]

The writing panel developed the scenarios by categorizing patients in terms of indications evident during the clinical decision making process (Figure 1). These scenarios relied upon definitions and general assumptions, mutually agreed upon by the writing panel during the development of the scenarios. These definitions and assumptions were necessary to provide consistency in the interpretation of the clinical scenarios among experts voting on the scenarios and readers using the final criteria.

FORMULATING INDICATIONS AND SCENARIOS

The AUC writing panel began the development of the scenarios by identifying clinical indications typical of patients commonly presenting with osteoarthritis of the knee in clinical practice. Indications are most often parameters observable by the clinician, including symptoms or results of diagnostic tests. Additionally, “human factor” (e.g. activity level) or demographic variables can be considered.

Figure 1. Developing Criteria



Indications identified in clinical trials (derived from patient selection criteria) included in AAOS Clinical Practice Guidelines (www.orthoguidelines.org/smoakguideline) served as a starting point for the writing panel and ensured that these Appropriate Use Criteria referred to the evidence base for the Surgical Management of Osteoarthritis of the Knee CPG. The writing panel considered this initial list and other indications based on their clinical expertise and selected the most clinically relevant indications ([Table 4](#)). The writing panel then defined distinct classes for each indication in order to stratify/categorize the indication ([Table 4](#)).

The writing panel organized these indications into a matrix of clinical scenarios that addressed all combinations of the classifications. The writing panel was given the opportunity to remove any scenarios that rarely occur in clinical practice, but agreed that all scenarios were clinically relevant. The major clinical decision making indications chosen by the writing panel divided the matrix of clinical scenarios into chapters, as follows: function-limiting pain, range of motion extension/flexion, functional instability, pattern of arthritic involvement (medial tibiofemoral, lateral tibiofemoral or patellofemoral), imaging (joint space in most involved compartment), limb alignment, mechanical symptoms (compatible with meniscal tear or loose body), and age.

CREATING DEFINITIONS AND ASSUMPTIONS

The SMOAK AUC writing panel constructed concise and explicit definitions for the indications and classifications. This standardization helped ensure the way that the writing panel defined the patient indications was consistent among those reading the clinical scenario matrix or the final criteria. Definitions drew explicit boundaries when possible and were based on standard medical practice or existing literature.

Additionally, the writing panel formulated a list of general assumptions in order to provide more consistent interpretations of a scenario (see [Assumptions of the Writing Panel](#)). These assumptions differed from definitions in that they identified circumstances that exist outside of the control of the clinical decision making process.

Assumptions also addressed the use of existing published literature regarding the effectiveness of treatment and/or the procedural skill level of physicians. Additionally, assumptions highlighted intrinsic methods described in this document such as the role of cost considerations in rating appropriateness or the validity of the definition of appropriateness. The main goal of assumptions was to focus scenarios so that they apply to the average patient presenting to an average physician at an average facility.¹

The definitions and assumptions should provide all readers with a common starting point in interpreting the clinical scenarios. This list of definitions and assumptions accompanied the matrix of clinical scenarios in all stages of the development of this AUC and appears in the Assumptions of the Writing Panel section of this document.

VOTING PANEL MODIFICATIONS TO WRITING PANEL MATERIALS

At the start of the in-person voting panel meeting, the voting panel was reminded that they have the ability to amend the original writing panel materials if the amendments resulted in more

clinically relevant and practical criteria. In order to amend the original materials, the voting panel members were instructed that a member must make a motion to amend and another member must “second” that motion, after which a vote is conducted. If a majority of voting panel members voted “yes” to amend the original materials, the amendments were accepted.

The voting panel opted to make the following amendment/addition to the original AUC materials:

1. Change “Unicompartmental knee arthroplasty” to Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)
1. Change “Realignment Osteotomy (distal femoral and/or tibial osteotomy)” to “Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)”
2. Add the following language to the Assumptions list: “Patient has failed other relevant appropriate treatments.”
3. Modify “Imaging” patient category to remove “without complete loss of joint space” from “Mild to Moderate” patient subcategory and remove “complete loss of joint space” from “Severe” patient subcategory.
4. Change “Ligamentous Instability” patient indication to “Functional instability”

LITERATURE REVIEW

The 2015 Clinical Practice Guideline on the Surgical Management of Osteoarthritis of the Knee was used as the evidence base for this AUC (www.orthoguidelines.org/smoakguideline). This guideline helped to inform the decisions of the writing panel and voting panel where available and necessary.

Direct links to the evidence for the treatments discussed in this AUC can be found below:

- Total knee arthroplasty
 - [Peripheral Nerve Blockade \(PNB\)](#)
 - [Preoperative Physical Therapy](#)
 - [Peri-Articular Local Anesthetic Infiltration](#)
 - [Tourniquet: Blood Loss Reduction](#)
 - [Tourniquet: Postoperative Pain Reduction](#)
 - [Neuraxial Anesthesia](#)
 - [Tourniquet: Postoperative Function](#)
 - [Tranexamic Acid](#)
 - [Antibiotic Bone Cement](#)
 - [Polyethylene Tibial Components](#)
 - [Patellar Resurfacing: Pain and Function](#)
 - [Surgical Navigation](#)
 - [Patient Specific Instrumentation: Pain and Function](#)
 - [Patient Specific Instrumentation: Transfusions and Complications](#)
 - [Drains](#)

- [Postoperative Mobilization: Length of Stay](#)
- [Postoperative Mobilization: Pain and Function](#)
- [Bone Cement: Cemented Tibial Components VERSUS Cementless Tibial Components](#)
- [Bone Cement: Cemented Femoral & Tibial Components Versus Cementless Femoral & Tibial Components](#)
- [Bone Cement: All Cemented Components versus Hybrid Fixation \(Cementless Femoral Component\)](#)
- [Bone Cement: All Cementless Components versus Hybrid Fixation \(Cementless Femoral Component\)](#)
- Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)
 - [UKA: DVT & Manipulation Under Anesthesia](#)
 - [UKA Versus Osteotomy](#)
- Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)
 - [UKA Versus Osteotomy](#)

DETERMINING APPROPRIATENESS VOTING PANEL

A multidisciplinary panel of clinicians was assembled to determine the appropriateness of treatments for the SMOAK AUC. A non-voting moderator, who is an orthopaedic surgeon, but is not a specialist in the treatment of osteoarthritis of the knee, moderated the voting panel. The moderator was familiar with the methods and procedures of AAOS Appropriate Use Criteria and led the panel (as a non-voter) in discussions. Additionally, no member of the voting panel was involved in the development (writing panel) of the scenarios.

The voting panel used a modified Delphi procedure to determine appropriateness ratings. The voting panel participated in three rounds of voting while considering evidence-based information provided in the literature review. While cost is often a relevant consideration, panelists focused their appropriateness ratings on the effectiveness of surgical treatment for osteoarthritis of the knee.

RATING APPROPRIATENESS

When rating the appropriateness of a scenario, the voting panel considered the following definition:

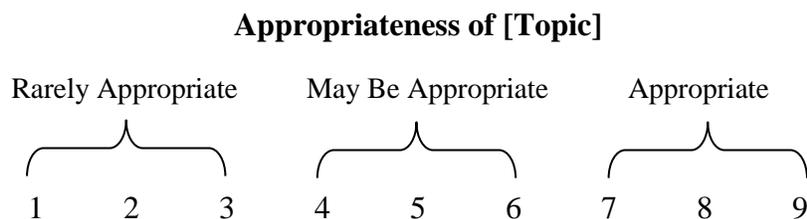
“An appropriate surgical treatment for osteoarthritis of the knee is one for which the treatment **is** generally acceptable, **is** a reasonable approach for the indication, and **is** likely to improve the patient’s health outcomes or survival.”

They then rated each scenario using their best clinical judgment, taking into consideration the available evidence, for an average patient presenting to an average physician at an average facility as follows:

Table 1 Interpreting the 9-Point Appropriateness Scale

Rating	Explanation
7-9	Appropriate: Appropriate for the indication provided, meaning treatment is generally acceptable and is a reasonable approach for the indication and is likely to improve the patient’s health outcomes or survival.
4-6	May Be Appropriate: Uncertain for the indication provided, meaning treatment may be acceptable and may be a reasonable approach for the indication, but with uncertainty implying that more research and/or patient information is needed to further classify the indication.
1-3	Rarely Appropriate: Rarely an appropriate option for management of patients in this population due to the lack of a clear benefit/risk advantage; rarely an effective option for individual care plans; exceptions should have documentation of the clinical reasons for proceeding with this care option (i.e. procedure is not generally acceptable and is not generally reasonable for the indication).

Each panelist uses the scale below to record their response for each scenario:



ROUND ONE VOTING

The first round of voting occurred after completion of the independent review of the scenarios by the review panel and approval of the final indications, scenarios, and assumptions by the writing panel. The voting panel rated the scenarios electronically using a personalized ballot created by AAOS staff using the AAOS AUC Electronic Ballot Tool. There was no interaction between panel members while completing the first round of voting. Panelists considered the following materials:

- The instructions for rating appropriateness

- The completed literature review, that is appropriately referenced when evidence is available for a scenario
- The list of indications, definitions, and assumptions, to ensure consistency in the interpretation of the clinical scenarios

ROUNDS TWO AND THREE VOTING

The second round of voting occurred during the in-person voting panel meeting on August 5th, 2016. Before the in-person meeting started, each panelist received a personalized document that included their first round ratings along with summarized results of the first-round ratings that resulted in disagreement. These results indicated the frequency of ratings for a scenario for all panelists. The document contained no identifying information for other panelists' ratings. The moderator also used a document that summarized the results of the panelists' first round voting. These personalized documents served as the basis for discussions of scenarios which resulted in disagreement.

During the discussion, the voting panel members were allowed to add or edit the assumptions list, patient indications, and/or treatments if clarification was needed. They were also asked to record a new rating for any scenarios/treatments, only if they were persuaded to do so by the discussion and/or the evidence. There was no attempt to obtain consensus among the panel members.

Upon completion of the second round of voting, AAOS staff and moderators used the AAOS AUC Electronic Ballot Tool to again identify any statistical disagreements. After discussing these again, and at the request of the voting panel, the ballots were opened for a third round of voting. No voter was forced to participate in this round of voting and there was no attempt to obtain consensus among the panel members. After the final ratings were submitted, AAOS staff used the AAOS AUC Electronic Ballot Tool to export the median values and level of agreement for all voting items.

FINAL RATINGS

Using the median value of the third round ratings, AAOS staff determined the final levels of appropriateness. Disagreement among raters can affect the final rating. Agreement and disagreement were determined using the BIOMED definitions of Agreement and Disagreement, as reported in the RAND/UCLA Appropriate Method User's Manual ², for a panel of 11-13 voting members (see Table 2 below). The 11-13 panel member disagreement cutoff was used for this voting panel. For this panel size, disagreement is defined as when ≥ 4 members' appropriateness ratings fell within the appropriate (7-9) and rarely appropriate (1-3) ranges for any scenario (i.e. ≥ 4 members' ratings fell between 1-3 and ≥ 4 members' ratings fell between 7-9 on any given scenario and its treatment). If there is still disagreement in the voting panel ratings after the last round of voting, that voting item is labeled as "5" regardless of median score. Agreement is defined as ≤ 3 panelists rated outside of the 3-point range containing the median.

Table 2 Defining Agreement and Disagreement for Appropriateness Ratings

Disagreement

Agreement

Panel Size	Number of panelists rating in each extreme (1-3 and 7-9)	Number of panelists rating outside the 3-point region containing the median (1-3, 4-6, 7-9)
8,9,10	≥ 3	≤ 2
11,12,13	≥ 4	≤ 3
14,15,16	≥ 5	≤ 4

Adapted from RAM¹

The classifications in the table below determined final levels of appropriateness.

Table 3 Interpreting Final Ratings of Criteria

Level of Appropriateness	Description
Appropriate	<ul style="list-style-type: none"> • Median panel rating between 7-9 and no disagreement
May Be Appropriate	<ul style="list-style-type: none"> • Median panel rating between 4-6 or • Median panel rating 1-9 with disagreement
Rarely Appropriate	<ul style="list-style-type: none"> • Median panel rating between 1-3 and no disagreement

REVISION PLANS

These criteria represent a cross-sectional view of current use of treatments for osteoarthritis of the knee and may become outdated as new evidence becomes available or clinical decision making indicators are improved. In accordance with the standards of the National Guideline Clearinghouse, AAOS will update or withdraw these criteria in five years. AAOS will issue updates in accordance with new evidence, changing practice, rapidly emerging treatment options, and new technology.

DISSEMINATING APPROPRIATE USE CRITERIA



All AAOS AUCs can be accessed via a user-friendly app that is available via the OrthoGuidelines website (www.orthoguidelines.org/auc) or as a native app via the Apple and Google Play stores.

Publication of the Appropriate Use Criteria (AUC) document is on the AAOS website at [<http://www.aaos.org/auc>]. This document provides interested readers with full documentation about the development of Appropriate Use Criteria and further details of the criteria ratings.

AUCs are first announced by an Academy press release and then published on the AAOS website. AUC summaries are published in the *AAOS Now* and the *Journal of the American Academy of Orthopaedic Surgeons (JAAOS)*. In addition, the Academy's Annual Meeting showcases the AUCs on Academy Row and at Scientific Exhibits.

The dissemination efforts of AUC include web-based mobile applications, webinars, and online modules for the Orthopaedic Knowledge Online website, radio media tours, and media briefings. In addition AUCs are also promoted in relevant Continuing Medical Education (CME) courses and distributed at the AAOS Resource Center.

Other dissemination efforts outside of the AAOS include submitting AUCs to the National Guideline Clearinghouse and to other medical specialty societies' meetings.

III. PATIENT INDICATIONS AND TREATMENTS

INDICATIONS

Table 4 Patient Indications and Classifications

Indication	Classification(s)
Function-Limiting Pain	<ul style="list-style-type: none"> a. Function-limiting pain at moderate to long distances (walking moderate to long distances greater than ¼ mile) b. Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall) c. Pain at rest or night
Range of Motion Extension/Flexion	<ul style="list-style-type: none"> a. Full range of extension/flexion b. Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees c. Lack of full extension (>10 degree flexion contracture) and/or flexion <90 degrees
Functional Instability (not to include analgic giving way)	<ul style="list-style-type: none"> a. No functional instability b. Functional instability
Pattern of arthritic involvement (medial tibiofemoral, lateral tibiofemoral or patellofemoral)	<ul style="list-style-type: none"> a. Predominantly one compartment b. More than one compartment
Imaging (joint space in most involved compartment)	<ul style="list-style-type: none"> a. Mild to moderate b. Severe
Limb Alignment	<ul style="list-style-type: none"> a. Normal Alignment b. Varus/ valgus
Mechanical Symptoms (compatible with Meniscal Tear or Loose Body)	<ul style="list-style-type: none"> a. Yes b. No
Age	<ul style="list-style-type: none"> a. Young b. Middle-aged c. Elderly

TREATMENTS

Treatments Addressed Within This AUC

1. Total knee arthroplasty
2. Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)
3. Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)

IV. RESULTS OF APPROPRIATENESS RATINGS

For a user-friendly version of these appropriate use criteria, please access our AUC web-based application at www.orthoguidelines.org/auc. The OrthoGuidelines native app can also be downloaded via the Apple or Google Play stores.

Web-Based AUC Application Screenshot

The screenshot displays two main sections: 'Indication Profile' and 'Procedure Recommendations'.

Indication Profile

- Function-Limiting Pain** (Information icon):
 - Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile)
 - Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall)
 - Pain at rest or night
- Range of Motion Extension/Flexion**:
 - Full range of extension/flexion
 - Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees
 - Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees
- Functional Instability**:
 - No functional instability
 - Functional instability
- Pattern of arthritic involvement (medial tibiofemoral, lateral tibiofemoral or patellofemoral)**:
 - Predominantly one compartment
 - More than one compartment
- Imaging (joint space in most involved compartment)**:
 - Mild to moderate – Joint space narrowing as visible on imaging
 - Severe
- Limb Alignment**:
 - Normal Alignment
 - Varus/ valgus
- Mechanical Symptoms (compatible with Meniscal Tear or Loose Body)**:
 - Mechanical Symptoms
 - No Mechanical Symptoms
- Age**:
 - Young
 - Middle-aged
 - Elderly

Submit →

Procedure Recommendations

<input checked="" type="checkbox"/>	Total knee arthroplasty	7
<input type="checkbox"/>	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	5
<input checked="" type="checkbox"/>	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	+
		2

E-mail Results Print →

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Results

The following Appropriate Use Criteria tables contain the final appropriateness ratings assigned by the eight members of the voting panel. Patient characteristics are found under the column titled “Scenario”. The Appropriate Use Criteria for each patient scenario can be found within each of the 6 treatment rows. These criteria are formatted by appropriateness labels (i.e. “R”=Rarely Appropriate, “M”=May Be Appropriate, and “A”=Appropriate), median rating, and + or - indicating agreement or disagreement amongst the voting panel, respectively.

Out of 2592 total voting items (i.e. 864 patient scenarios x 3 treatments), 537 (21%) voting items were rated as “Appropriate”, 645 (25%) voting items were rated as “May Be Appropriate”, and 1410 (54%) voting items were rated as “Rarely Appropriate” (Figure 1). Additionally, the voting panel members were in statistical agreement on 1413 (55%) voting items and were in statistical disagreement on 0 voting items (Figure 2).

Figure 1. Breakdown of Appropriateness Ratings

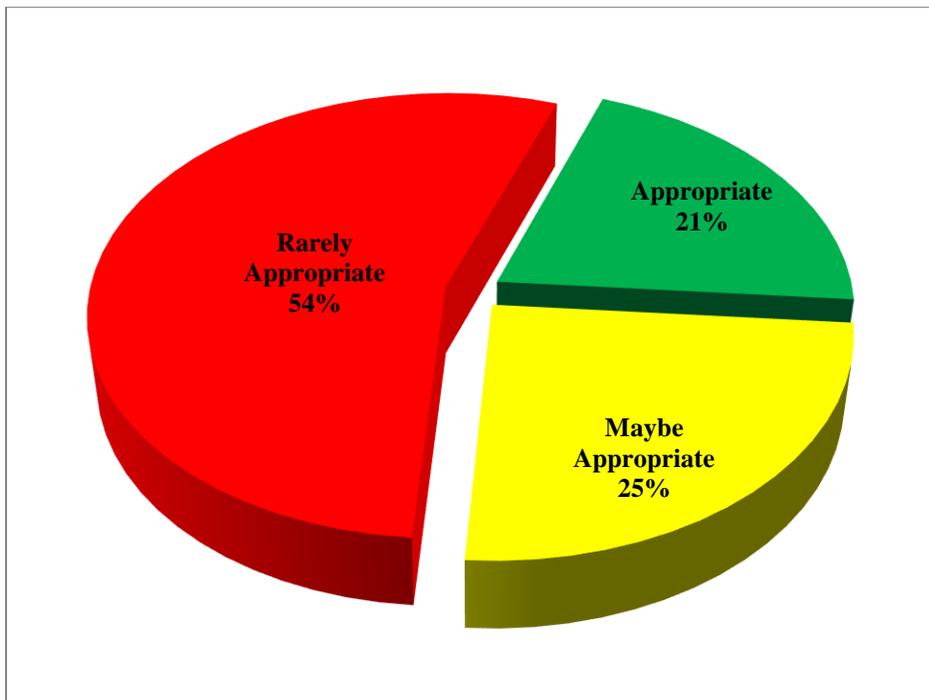


Figure 2. Breakdown of Agreement amongst Voting Panel

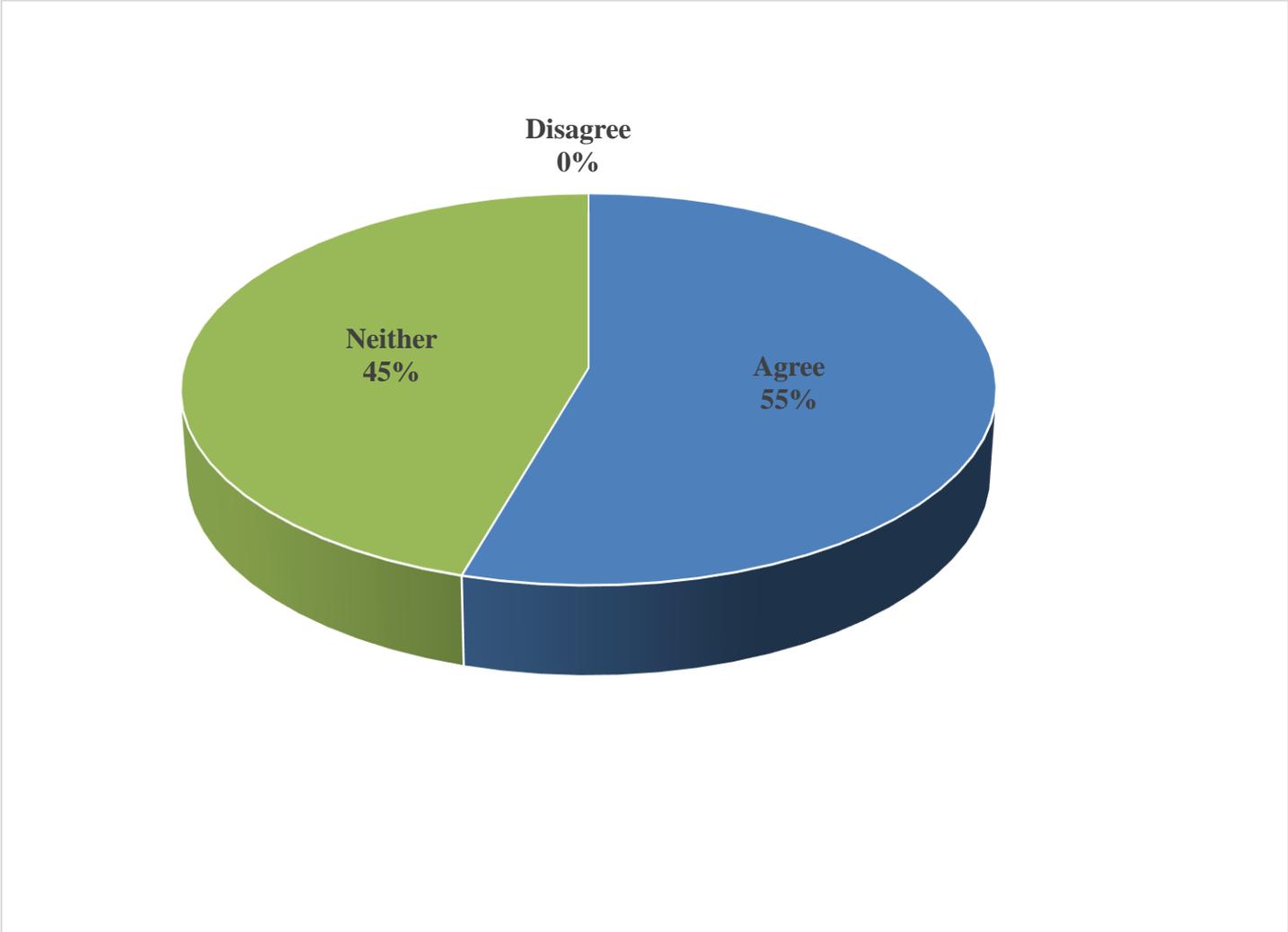


Figure 3. Distribution of Appropriateness Ratings on 9-Point Rating Scale

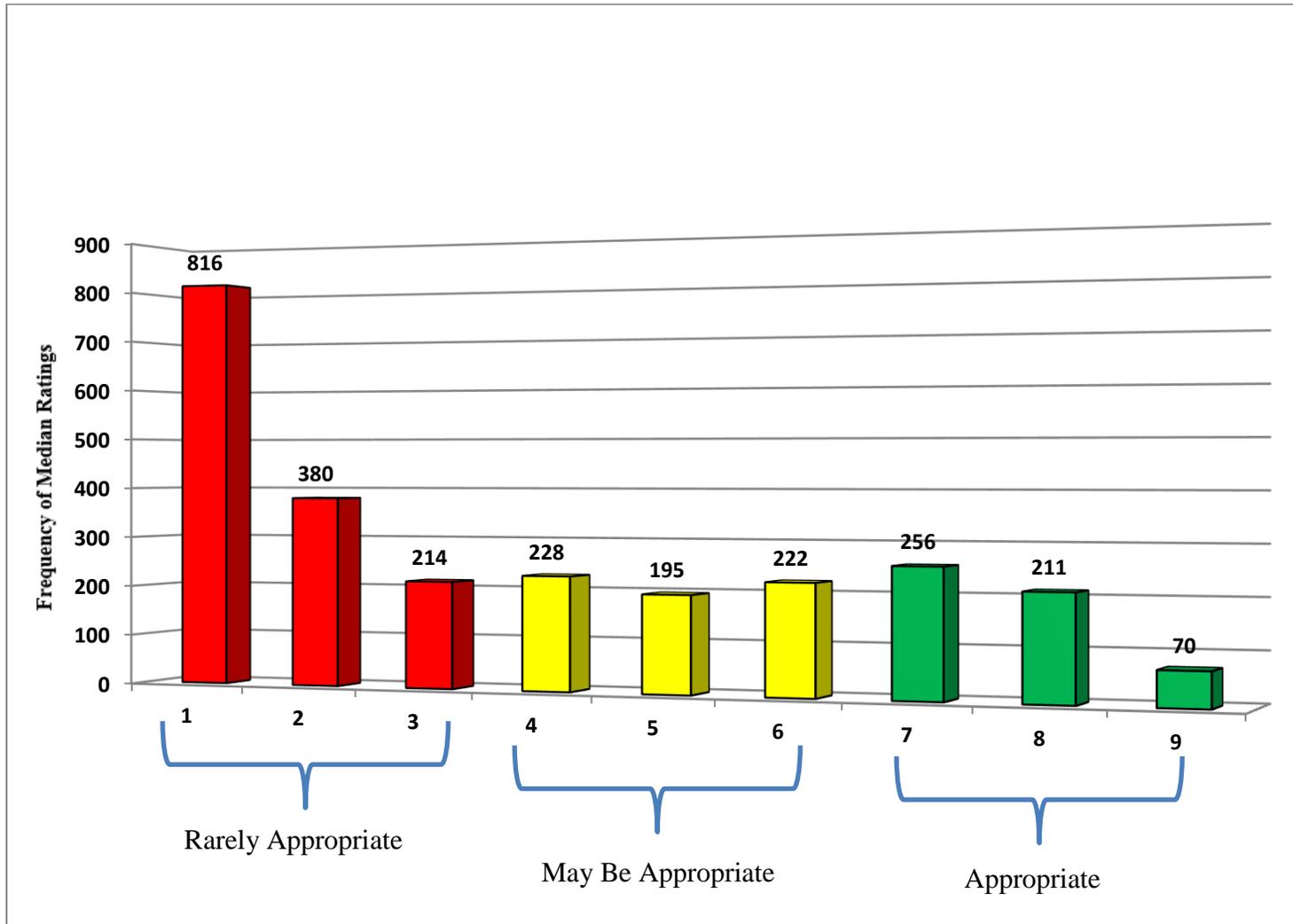
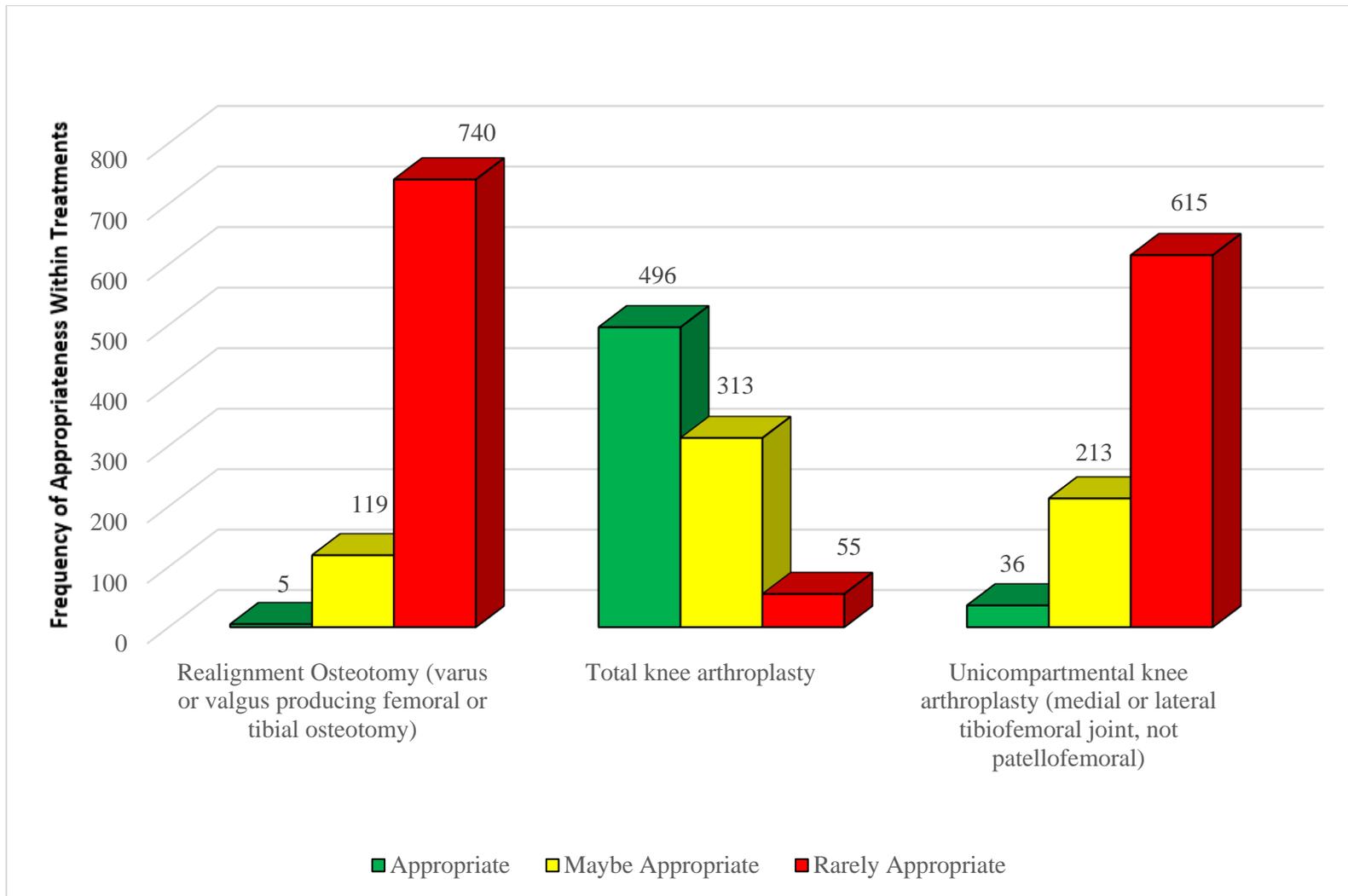


Figure 4. Within Treatment Appropriateness Ratings



APPROPRIATE USE CRITERIA FOR THE SURGICAL MANAGEMENT OF OSTEOARTHRITIS OF THE KNEE

Interpreting the AUC tables:

- R = Rarely Appropriate, M = May Be Appropriate, A = Appropriate
- Numbers under “M” column indicate the median rating of voting panel
- A plus symbol (+) indicates agreement between voting panel members and a minus symbol (-) indicates disagreement between voting panel members

Scenario 1:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 2:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 3:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 4:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 5:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 6:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 7:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 8:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 9:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 10:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 11:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 12:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 13:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 14:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 15:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 16:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 17:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 18:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 19:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 20:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 21:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+
Scenario 22:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 23:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 24:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 25:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 26:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 27:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 28:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 29:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 30:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 31:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 32:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 33:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 34:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 35:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 36:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 37:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 38:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 39:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 40:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 41:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 42:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 43:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 44:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 45:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 46:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 47:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 48:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 49:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 50:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 51:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 52:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 53:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 54:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 55:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	+
Scenario 56:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 57:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 58:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 59:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 60:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 61:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 62:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 63:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 64:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 65:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 66:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 67:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 68:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 69:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 70:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 71:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 72:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 73:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 74:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 75:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 76:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 77:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 78:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 79:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 80:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 81:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 82:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 83:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 84:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 85:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 86:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 87:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 88:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 89:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 90:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 91:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 92:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 93:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 94:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 95:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 96:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 97:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 98:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 99:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 100:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 101:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 102:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 103:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 104:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 105:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 106:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 107:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 108:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 109:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 110:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 111:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 112:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 113:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 114:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 115:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 116:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 117:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 118:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 119:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 120:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 121:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 122:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 123:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 124:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 125:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 126:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 127:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 128:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 129:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 130:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 131:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 132:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 133:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 134:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 135:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 136:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 137:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 138:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 139:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 140:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 141:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 142:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 143:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 144:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 145:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 146:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 147:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 148:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 149:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 150:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 151:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 152:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 153:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 154:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 155:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 156:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 157:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 158:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 159:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 160:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 161:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 162:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 163:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 164:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 165:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 166:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 167:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 168:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 169:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 170:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 171:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 172:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 173:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 174:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 175:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 176:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 177:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 178:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 179:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 180:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 181:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 182:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 183:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 184:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 185:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 186:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 187:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 188:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 189:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 190:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 191:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 192:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 193:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 194:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 195:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 196:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 197:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 198:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 199:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 200:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 201:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 202:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 203:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 204:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 205:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 206:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 207:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 208:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 209:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 210:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 211:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 212:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 213:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 214:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 215:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 216:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 217:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 218:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 219:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 220:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 221:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 222:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 223:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 224:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 225:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 226:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 227:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 228:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 229:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 230:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 231:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 232:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 233:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 234:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 235:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 236:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 237:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 238:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 239:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 240:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 241:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 242:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	

Scenario 243:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 244:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 245:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	

Scenario 246:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 247:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 248:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 249:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 250:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 251:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 252:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 253:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 254:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 255:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 256:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 257:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 258:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 259:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 260:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 261:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 262:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 263:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 264:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 265:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 266:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 267:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 268:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 269:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 270:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 271:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 272:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 273:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 274:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 275:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 276:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 277:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 278:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 279:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 280:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 281:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 282:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 283:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 284:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 285:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 286:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 287:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 288:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at moderate to long distances (walking moderate to long distances greater than one fourth mile), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 289:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 290:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 291:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 292:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 293:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 294:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 295:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	2	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Appropriate	7	
Scenario 296:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 297:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 298:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Appropriate	7	
Scenario 299:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 300:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 301:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 302:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 303:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 304:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 305:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 306:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 307:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 308:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 309:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 310:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Appropriate	8	
Scenario 311:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	

Scenario 312:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 313:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 314:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 315:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 316:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 317:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 318:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 319:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 320:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 321:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 322:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 323:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 324:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 325:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 326:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 327:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 328:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 329:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 330:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 331:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 332:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 333:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 334:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 335:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 336:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 337:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 338:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 339:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 340:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 341:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 342:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 343:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 344:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 345:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 346:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 347:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 348:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 349:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 350:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 351:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 352:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 353:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 354:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 355:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 356:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 357:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 358:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 359:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 360:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 361:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 362:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 363:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 364:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 365:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 366:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 367:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 368:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 369:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 370:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 371:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 372:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 373:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 374:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 375:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 376:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 377:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 378:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 379:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 380:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 381:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 382:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 383:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 384:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 385:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 386:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 387:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 388:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 389:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 390:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 391:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 392:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 393:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 394:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 395:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 396:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 397:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 398:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	8	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 399:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 400:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 401:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 402:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 403:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	+
Scenario 404:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 405:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 406:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 407:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 408:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 409:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 410:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 411:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 412:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 413:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 414:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 415:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 416:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 417:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 418:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 419:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 420:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 421:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 422:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 423:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 424:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 425:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 426:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 427:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 428:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 429:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 430:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 431:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 432:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 433:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 434:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	

Scenario 435:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 436:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	
Scenario 437:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 438:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 439:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 440:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 441:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 442:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 443:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 444:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 445:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 446:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 447:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 448:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 449:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 450:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 451:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 452:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 453:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 454:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 455:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 456:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 457:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 458:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 459:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 460:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 461:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 462:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 463:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 464:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 465:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 466:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 467:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 468:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 469:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 470:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 471:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 472:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 473:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 474:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 475:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 476:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 477:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 478:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 479:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 480:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 481:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 482:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 483:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 484:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 485:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 486:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 487:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 488:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 489:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 490:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 491:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 492:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 493:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 494:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 495:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 496:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 497:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 498:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 499:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 500:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 501:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 502:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 503:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 504:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 505:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 506:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 507:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 508:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 509:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 510:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 511:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 512:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 513:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 514:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 515:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 516:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 517:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 518:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 519:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 520:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 521:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 522:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 523:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 524:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 525:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 526:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 527:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 528:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 529:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+
Scenario 530:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	

Scenario 531:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 532:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 533:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 534:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 535:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 536:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 537:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 538:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 539:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 540:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 541:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 542:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 543:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 544:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 545:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 546:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 547:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 548:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 549:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 550:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 551:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 552:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 553:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 554:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 555:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 556:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 557:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 558:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 559:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 560:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 561:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 562:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 563:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 564:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 565:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 566:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 567:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 568:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 569:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 570:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 571:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 572:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 573:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 574:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 575:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 576:	Treatment	Appropriateness	Median Rating	Agreement
Function-limiting pain at short distances (limiting activity to two city blocks, the equivalent to walking the length of a shopping mall), Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 577:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 578:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 579:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 580:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 581:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 582:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 583:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 584:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 585:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 586:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 587:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 588:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 589:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 590:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 591:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 592:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 593:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 594:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 595:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 596:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 597:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 598:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 599:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 600:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 601:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 602:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 603:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 604:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 605:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 606:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 607:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 608:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 609:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 610:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 611:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 612:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 613:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 614:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 615:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 616:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 617:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 618:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 619:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 620:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 621:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 622:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 623:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 624:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 625:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 626:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 627:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 628:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 629:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 630:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 631:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 632:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 633:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 634:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	
Scenario 635:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 636:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 637:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 638:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 639:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 640:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 641:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 642:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 643:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 644:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 645:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 646:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 647:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 648:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 649:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 650:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 651:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 652:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 653:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 654:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 655:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 656:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 657:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 658:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 659:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 660:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 661:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 662:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 663:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 664:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 665:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 666:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 667:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 668:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 669:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 670:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 671:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 672:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Full range of extension/flexion, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 673:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 674:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 675:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 676:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 677:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 678:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 679:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 680:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 681:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 682:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	6	
Scenario 683:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 684:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 685:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 686:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 687:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 688:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 689:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 690:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 691:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Appropriate	7	
Scenario 692:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Appropriate	7	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	

Scenario 693:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 694:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Appropriate	7	
Scenario 695:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	6	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	5	

Scenario 696:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 697:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 698:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 699:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 700:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 701:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 702:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 703:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 704:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 705:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 706:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 707:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 708:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 709:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 710:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 711:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 712:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 713:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 714:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 715:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 716:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 717:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 718:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 719:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 720:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 721:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+
Scenario 722:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 723:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 724:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 725:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 726:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 727:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 728:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 729:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 730:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 731:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	

Scenario 732:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 733:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 734:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 735:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 736:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 737:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 738:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 739:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 740:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 741:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 742:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 743:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 744:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 745:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 746:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 747:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 748:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 749:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 750:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 751:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 752:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 753:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 754:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 755:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 756:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 757:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 758:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 759:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 760:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 761:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 762:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 763:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 764:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 765:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 766:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 767:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 768:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 5 degree flexion contracture) and/or flexion < 110 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 769:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 770:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 771:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 772:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 773:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	

Scenario 774:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 775:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 776:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 777:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 778:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	May Be Appropriate	4	
Scenario 779:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	+

Scenario 780:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 781:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 782:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 783:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 784:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 785:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 786:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 787:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 788:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	5	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 789:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 790:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 791:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 792:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 793:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 794:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 795:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 796:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 797:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 798:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 799:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 800:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 801:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 802:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 803:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 804:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 805:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 806:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 807:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 808:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 809:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 810:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 811:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 812:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 813:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 814:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 815:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 816:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, No functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 817:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 818:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 819:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 820:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 821:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 822:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 823:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Rarely Appropriate	3	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	3	
Scenario 824:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 825:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 826:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	
Scenario 827:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 828:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 829:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 830:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 831:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 832:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 833:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 834:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 835:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 836:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 837:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 838:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	May Be Appropriate	4	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 839:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	3	
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+

Scenario 840:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, Predominantly one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 841:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	4	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 842:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 843:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 844:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 845:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 846:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 847:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	2	+
Scenario 848:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 849:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 850:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	5	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 851:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate , Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	2	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 852:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Mild to moderate, Joint space narrowing as visible on imaging, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 853:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 854:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 855:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 856:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Young	Total knee arthroplasty	Appropriate	7	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 857:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 858:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Normal Alignment, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 859:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 860:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 861:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 862:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Young	Total knee arthroplasty	May Be Appropriate	6	
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+
Scenario 863:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Middle-aged	Total knee arthroplasty	Appropriate	8	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

Scenario 864:	Treatment	Appropriateness	Median Rating	Agreement
Pain at rest or night, Lack of full extension (> 10 degree flexion contracture) and/or flexion < 90 degrees, Functional instability, More than one compartment, Severe, Varus/ valgus, No Mechanical Symptoms, Elderly	Total knee arthroplasty	Appropriate	9	+
	Unicompartmental knee arthroplasty (medial or lateral tibiofemoral joint, not patellofemoral)	Rarely Appropriate	1	+
	Realignment Osteotomy (varus or valgus producing femoral or tibial osteotomy)	Rarely Appropriate	1	+

V. APPENDICES

APPENDIX A. DOCUMENTATION OF APPROVAL

AAOS BODIES THAT APPROVED THIS APPROPRIATE USE CRITERIA

Evidence-Based Quality and Value Committee: Approved on 9/10/2016

The AAOS Committee on Evidence Based Quality and Value consists of 22 AAOS members. The overall purpose of this committee is to plan, organize, direct, and evaluate initiatives related to Clinical Practice Guidelines and Appropriate Use Criteria.

Council on Research and Quality: Approved on 10/14/2016

To enhance the mission of the AAOS, the Council on Research and Quality promotes the most ethically and scientifically sound basic, clinical, and translational research possible to ensure the future care for patients with musculoskeletal disorders. The Council also serves as the primary resource to educate its members, the public, and public policy makers regarding evidenced-based medical practice, orthopaedic devices and biologics regulatory pathways and standards development, patient safety, occupational health, technology assessment, and other related areas of importance.

Board of Directors: Approved on 12/09/2016

The 16 member AAOS Board of Directors manages the affairs of the AAOS, sets policy, and determines and continually reassesses the Strategic Plan.

APPENDIX B. DISCLOSURE INFORMATION

SMOAK AUC WRITING PANEL

Paul A Manner, MD Submitted on: 06/02/2015

Clinical Orthopaedics and Related Research: Editorial or governing board (\$60,000) Senior Editor(Self); JointMetrix Medical: Employee (\$0) Chief Medical Officer(Self)

Bryan Bomberg, MD Submitted on: 07/08/2015

DJ Orthopaedics: Paid consultant (\$0); DJ Orthopaedics: Other financial or material support (\$0); Medtronic: Paid consultant (\$0)

Samuel Mc Comas Hawken, MD Submitted on: 08/14/2015

Biomet: Stock or stock Options Number of Shares: 0

Tamara Nicole Huff, MD (This individual reported nothing to disclose); Submitted on: 07/18/2015

Charles L Nelson, MD Submitted on: 08/13/2015

American Association of Hip and Knee Surgeons: Board or committee member (\$0) Committee Member(Self); J. Robert Gladden Society: Board or committee member (\$0) (Self); Zimmer: Paid consultant (\$35,875) Consultant(Self)

David T Neuman, MD (This individual reported nothing to disclose); Submitted on: 08/06/2015

Frederick Buechel, Jr MD Submitted on: 11/26/2014

Stryker: Paid presenter or speaker (\$0) Number of Presentations: 0; Stryker: Paid consultant (\$0)

Brett Russell Levine, MD Submitted on: 08/15/2015

American Association of Hip and Knee Surgeons: Board or committee member (\$0) Patient Education Committee(Self); Biomet: Research support (\$10,000) Receive research money for cemented and cementless THA research projects; COD: Board or committee member (\$0) Education Committee Member (COD Report Liaison)(Self); Human kinetics: Editorial or governing board (\$500) Author of book (Self); Link Orthopaedics: Paid consultant (\$10,000) Surgeon Consultant(Self); McGraw-Hill: Paid consultant (\$3,500) Question Editor(Self); Orthoview: Paid consultant (\$2,500) Product develop and training(Self); SLACK Incorporated: Editorial or governing board (\$0) Publishing a board review book. not yet completed.; Zimmer: Paid consultant (\$35,000) Consultant--Surgeon and Resident Education(Self); Zimmer: Research support (\$0) Institutional research money is received. Nothing is directly given to me or myresearch funds.(Self)

Adolph J Yates Jr, MD Submitted on: 08/08/2015

American Association of Hip and Knee Surgeons: Board or committee member (\$0) committee chair, EBM Report

Louis F McIntyre, MD Submitted on: 04/09/2015

AAOS: Board or committee member (\$0); Advocacy for Improvement in Mobility: Board or committee member (\$0); Arthroscopy Association of North America: Board or committee member (\$0); Delegate Medical Society of the State of New York: Board or committee member (\$0); DePuy, A Johnson & Johnson Company: Research support (\$0); Orthopedic Practice Management, Inc.: Board or committee member (\$0); Orthopedics Today: Editorial or governing board (\$0);

Quintiles Medical: Paid presenter or speaker (\$) Number of Presentations: 0;
Tornier: Stock or stock Options Number of Shares: 0

SMOAK AUC VOTING PANEL

Brandon Dubose Bushnell, MBA, MD: AAOS: Board or committee member; Arthroscopy Association of North America: Board or committee member; Georgia Orthopedic Society: Board or committee member; Mitek: Paid consultant; Rotation Medical: Paid consultant; Research support; Submitted on: 05/02/2016

Kim J Chillag, MD: Clinical Orthopaedics and Related Research: Editorial or governing board; Journal of Arthroplasty: Editorial or governing board; Submitted on: 05/30/2016

Dennis C Chin, MD: Smith & Nephew: Employee; Submitted 04/06/2016

Marc M DeHart, MD: Board Member, Texas Orthopaedic Association: Board or committee member; Journal of Arthroplasty: Editorial or governing board; Speaker honorarium for Orthopaedic Review Courses: Publishing royalties, financial or material support; Submitted on: 04/04/2016

Morgan H Jones, MD: American Orthopaedic Society for Sports Medicine: Board or committee member; Orthopaedic Journal of Sports Medicine: Editorial or governing board; Submitted on: 06/03/2016

Claudette Lajam, MD: AAOS: Board or committee member; International Orthopaedics: Editorial or governing board; Journal of Arthroplasty: Editorial or governing board; My home hospital journal: Editorial or governing board; Pfizer: Employee; Stock or stock Options; Ruth Jackson Orthopaedic Society: Board or committee member; Stryker: Paid consultant; Submitted on: 04/21/2016

Gwo-Chin Lee, MD: AAOS: Board or committee member; CD Diagnostics: Research support
Ceramtec: Paid presenter or speaker; Clinical Orthopaedics and Related Research: Editorial or governing board; DePuy, A Johnson & Johnson Company: Paid consultant; Paid presenter or speaker; Journal of Arthroplasty: Editorial or governing board; Journal of Bone and Joint Surgery: Editorial or governing board; Orthopedics: Editorial or governing board; Pacira: Paid consultant; SLACK Incorporated: Editorial or governing board; Smith and Nephew: Research support; Stryker: Paid consultant; Zimmer: Research support; Submitted on: 05/31/2015

John R Martell Jr, MD: (This individual reported nothing to disclose); Submitted on: 04/04/2016

Neil Segal, MD: American Academy of Physical Medicine & Rehabilitation: Board or committee member; Association of Academic Physiatrists: Board or committee member; Myoscience: Research support; Orthotrophix: Research support; Springer: Publishing royalties, financial or material support; Submitted on: 04/01/2016

Steven Alan Silver, MD: (This individual reported nothing to disclose); Submitted on: 05/12/2016

Creighton Collins Tubb, MD: AAOS: Board or committee member; American Association of Hip and Knee Surgeons: Board or committee member; Submitted on: 06/11/2016

Moderators

Robert H Quinn, MD: AAOS: Board or committee member; American Orthopaedic Association: Board or committee member; Journal of Wilderness & Environmental Medicine: Editorial or governing board; Musculoskeletal Transplant Foundation: Research support; Musculoskeletal Tumor Society: Board or committee member; Wilderness Medical Society: Board or committee member; Submitted on: 05/24/2016

APPENDIX C. REFERENCES

- (1) American Academy of Orthopaedic Surgeons. The Burden of Musculoskeletal Diseases in the United States. American Academy of Orthopaedic Surgeons; 2008.
- (2) Fitch K, Bernstein SJ, Aguilar MD et al. *The RAND/UCLA Appropriateness Method User's Manual*. Santa Monica, CA: RAND Corporation; 2001.
- (3) American Academy of Orthopaedic Surgeons. Surgical Management of Osteoarthritis of the Knee Clinical Practice Guideline. <http://www.orthoguidelines.org/smoakguideline>. Published December 4, 2015.

Surgical Management of Osteoarthritis of the Knee

Appropriate Use Criteria

Adopted by:

The American Academy of Orthopaedic Surgeons Board of Directors
December 9, 2016

http://www.orthoguidelines.org/go/auc/default.cfm?auc_id=224986&actionxm=Terms

Please cite this appropriate use criteria as: American Academy of Orthopaedic Surgeons Surgical Management of Osteoarthritis of the Knee Appropriate Use Criteria.

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