

### Research Roadmap

Members of the AAOS Evidence-Based Medicine have created a set of tools to facilitate and encourage the conduct of high-quality research with the goal of establishing a stronger and more comprehensive evidence base for clinical practice guideline (CPG) recommendation and performance measure (PM) development. Drawing on methodology and resources utilized in guideline development, the Research Roadmap seeks to give researchers insight to improve or self-assess their work, regardless of level of experience. The Roadmap is available for free on the AAOS website ([www.aaos.org/ResearchRoadmap](http://www.aaos.org/ResearchRoadmap)) and includes resources related to: IRB approval, grant funding, study planning, study calculations, manuscript preparation, quality appraisal, and journal submission criteria.



### More Quality Links

- [AAOS Quality](#)
- [Appropriate Use Criteria](#)
- [Clinical Practice Guidelines](#)
- [Performance Measures](#)
- [Web-Based AUC App](#)
- [OrthoGuidelines](#)
- [AUC Participation Form](#)
- [CPG Participation Form](#)
- [CPG & SR Topic Nomination](#)
- [PM Topic Nomination](#)
- [Research Roadmap](#)

### Open Vacancy

The **Performance Measures Committee** currently has one member-at-large position open beginning in 2017. Members of the PMC oversee and participate in the development, validation, dissemination, implantation and education of Performance Measures. To learn more about this position and submit your application, [click here](#).

*Questions?* Should you have any questions or for further information, contact Ryan Pezold at 847.384.4311. If you would like to be added to the mailing list, [click here](#). You can also unsubscribe from this list by [clicking here](#).

## Appropriate Use Criteria in Progress

### Surgical Management of Osteoarthritis of the Knee- SMOAK

The Voting Panel is currently working.

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Association of Hip and Knee Surgeons
- Arthroscopy Association of North America
- J. Robert Gladden Society
- The Knee Society
- Ruth Jackson Orthopaedic
- Society of Military Orthopaedic Surgeons

# Appropriate Use Criteria in Progress

## Management of Carpal Tunnel Syndrome—CTS

The Voting Panel is currently working.

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Academy of Physical Medicine and Rehabilitation
- American Association for Hand Surgery
- American Academy of Neurology
- American Association of Neurological Surgeons
- American College of Occupational and Environmental Medicine
- American College of Surgeons
- American Society of Hand Therapists
- American Society for Surgery of the Hand

## Prevention of Orthopaedic Implant Infections in Patients Undergoing Dental Procedures—PUDP

In the AAOS Approval Process

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Dental Association
- American Association of Hip and Knee Surgeons
- The Knee Society

# Clinical Practice Guidelines in Progress

## Osteoarthritis of the Hip- OA Hip

Work group is creating recommendations.

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Association of Hip and Knee Surgeons
- American College of Radiology
- American Physical Therapy Association
- The Hip Society
- Limb Lengthening and Reconstruction Society
- Pediatric Orthopaedic Society of North America

# Systematic Review in Progress

## Management of Post-Operative Surgical Site Infections- SSI

AAOS Staff is currently reviewing the literature for this Systematic Review.

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American College of Radiology
- American Orthopaedic Society of Sports Medicine
- American Physical Therapy Association
- Infectious Diseases Society of America
- Musculoskeletal Infection Society
- Orthopaedic Trauma Association
- Pediatric Orthopaedic Society of North America
- The Hip Society
- The Knee Society

# Performance Measures in Progress

## **Osteoarthritis: Function and Pain Assessment - OAFP**

Measure #109: Measure Validation is complete

PRO-PM: Finalizing measure specifications

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Academy of Family Physicians
- American Academy of Physical Medicine and Rehabilitation
- American College of Rheumatology
- American Medical Society for Sports Medicine
- American Orthopaedic Foot and Ankle Society
- American Orthopaedic Society for Sports Medicine
- American Osteopathic Academy of Orthopaedics
- American Physical Therapy Association
- Arthritis Foundation
- Osteoarthritis Research Society International
- U.S. Bone and Joint Initiative

## **Management of Hip Fractures in the Elderly - MHFE**

Finalizing measure specifications and the measure testing protocol.

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Academy of Physical Medicine and Rehabilitation
- American Academy of Emergency Physicians
- American Geriatrics Society
- American Orthopaedic Association
- American Physical Therapy Association
- National Association of Orthopaedic Nurses
- National Bone Health Alliance
- Orthopaedic Trauma Association
- U.S. Bone and Joint Initiative

## **Management of Anterior Cruciate Ligament Injuries – ACL**

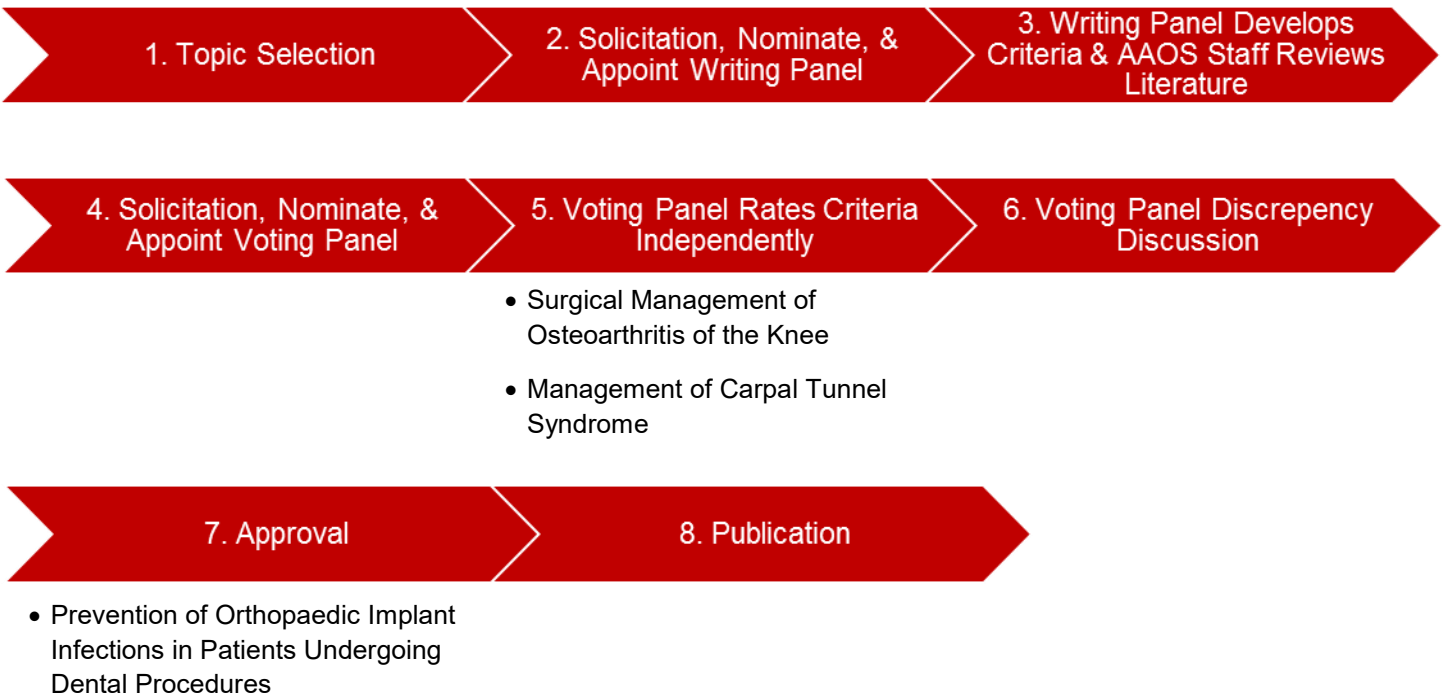
Drafting measure concepts and potential measure specifications

Participating Societies:

- American Academy of Orthopaedic Surgeons
- American Academy of Physical Medicine and Rehabilitation
- American Academy of Emergency Physicians
- American Medical Society of Sports Medicine
- American Orthopaedic Society for Sports Medicine
- American Osteopathic Academy of Orthopaedics
- American Physical Therapy Association
- American Society of Anesthesiologists
- Arthroscopy Association of North America
- National Association of Orthopaedic Nurses
- National Athletic Trainers Association
- Pediatric Orthopaedic Society of North America
- Ruth Jackson Orthopaedic Society
- Society of Military Orthopaedic Surgeons
- Society of Skeletal Radiology
- U.S. Bone and Joint Initiative

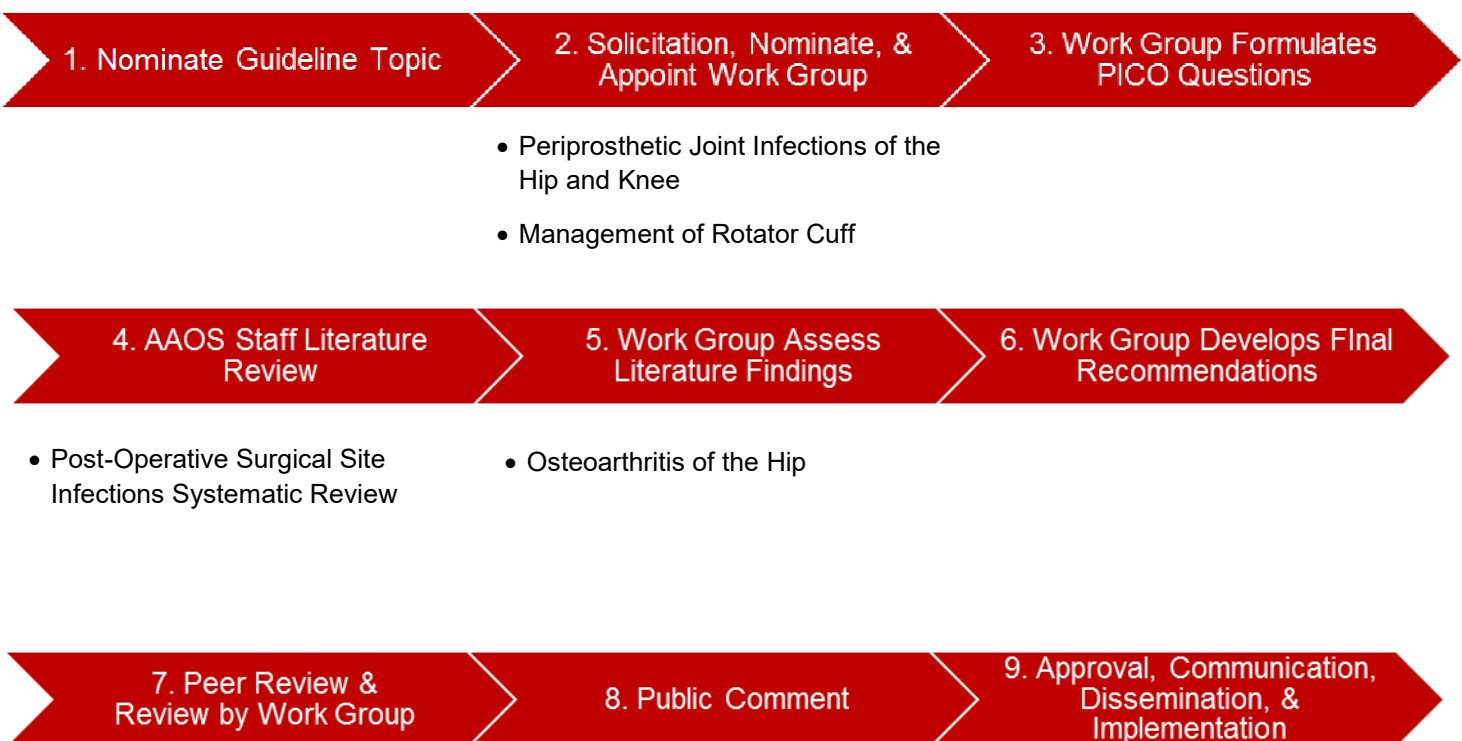
# Status of Current Projects

## Appropriate Use Criteria



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## Clinical Practice Guidelines & Systematic Reviews



# Status of Current Projects

## Performance Measures

### 1. Measure Topic Selection

- Treatment of Glenohumeral Osteoarthritis (Fall 2016)
- Surgical Management of Osteoarthritis of the Knee (2017)
- Osteoarthritis of the Hip (2017)

### 2. Solicitation

### 3. Measure Conceptualization

### 4. Measure Specification

- Management of Anterior Cruciate Ligament Injuries
- Management of Hip Fractures in the Elderly
- Osteoarthritis: Function & Pain (PRO-PM)

### 5. Measure Testing

- Osteoarthritis: Function & Pain Assessment (PQRS #109)

### 6. Public Comment

### 7. Measure Approval/Communication/Dissemination/Implementation

# Published Projects

## Appropriate Use Criteria

### [Diagnosis and Treatment of Osteochondritis Dissecans](#)

Approved December 4, 2015

### [Hip Fractures in Elderly Patients: Acute Treatment](#) and [Hip Fractures in Elderly Patients: Postoperative/Rehab](#)

Approved December 4, 2015

### [Prevention of Anterior Cruciate Ligament Injuries](#) and [Treatment of Anterior Cruciate Ligament Injuries](#)

Approved October 2, 2015

### [Pediatric Supracondylar Humerus Fractures with Vascular Injury](#)

Approved June 12, 2015

### [Pediatric Supracondylar Humerus Fractures](#)

Approved September 5, 2014

### [Non-Arthroplasty Treatment of Osteoarthritis of the Knee](#)

Approved December 6, 2013

### [Optimizing the Management of Full-Thickness Rotator Cuff Tears](#)

Approved September 20, 2013

### [Treatment of Distal Radius Fractures](#)

Approved March 18, 2013

# Published Projects

## Clinical Practice Guidelines

### [Diagnosis and Treatment of Carpal Tunnel Syndrome](#)

Approved February 29, 2016

Endorsed By:

- American College of Radiology
- American Society for Surgery of the Hand
- American Society of Plastic Surgeons

### [Surgical Management of Osteoarthritis of the Knee](#)

Approved December 4, 2015

Supported By:

- American Society of Anesthesiologists

Endorsed By:

- American Association of Hip and Knee Surgeons
- American College of Radiology
- American Geriatric Society
- Arthroscopy Association of North America
- The Knee Society
- The Society of Military Orthopaedic Surgeons

### [Management of Hip Fractures in the Elderly](#)

Approved September 5, 2014

Endorsed By:

- American Academy of Physical Medicine and Rehabilitation
- American Association of Clinical Endocrinologists
- The American Geriatrics Society
- The Hip Society
- Orthopaedic Rehabilitation Association
- Orthopaedic Trauma Association
- United States Bone and Joint Initiative

### [Management of Anterior Cruciate Ligament Injuries](#)

Approved September 5, 2014

Endorsed By:

- American Academy of Physical Medicine and Rehabilitation
- The American Orthopaedic Society for Sports and Medicine
- National Academy of Sports Medicine
- National Athletic Trainers Association

### [Detection and Nonoperative Management of Pediatric Developmental Dysplasia of the Hip in Infants up to Six Months of Age](#)

Approved September 5, 2014

Endorsed By:

- American Academy of Pediatrics
- The Pediatric Orthopaedic Society of North America
- The Society of Diagnostic Medical Sonography
- The Society of Pediatric Radiology

### [Treatment of Osteoarthritis of the Knee](#)

Approved May 18, 2013

# Published Projects

## Clinical Practice Guidelines

### [Prevention of Orthopaedic Implant Infection in Patients Undergoing Dental Procedures](#)

Approved December 7, 2012

### [Preventing Venous Thromboembolic Disease in Patients Undergoing Elective Hip and Knee Arthroplasty](#)

Approved September 24, 2011

### [The Treatment of Pediatric Supracondylar Humerus Fractures](#)

Approved September 24, 2011

### [Diagnosis and Treatment of Osteochondritis Dissecans](#)

Approved December 4, 2010

### [Optimizing the Management of Rotator Cuff Problems](#)

Approved December 4, 2010

### [Treatment of Symptomatic Osteoporotic Spinal Compression Fractures](#)

Approved September 24, 2010

### [Diagnosis of Periprosthetic Joint Infections of the Hip and Knee](#)

Approved June 18, 2010

### [Treatment of Distal Radius Fractures](#)

Approved December 5, 2009

### [Diagnosis and Treatment of Acute Achilles Tendon Rupture](#)

Approved December 4, 2009

### [Treatment of Glenohumeral Joint Osteoarthritis](#)

Approved December 5, 2009

### [Treatment of Pediatric Diaphyseal Femur Fractures](#)

Approved June 19, 2009

Endorsed By:

- Pediatric Orthopaedic Society of North America

### [Treatment of Carpal Tunnel Syndrome](#)

Approved September 12, 2008

Endorsed By:

- American Academy of Physical Medicine and Rehabilitation
- American Association of Neuromuscular & Electrodiagnostic Medicine
- American Association of Neurological Surgeons
- American Society of Plastic Surgeons
- Congress of Neurological Surgeons

### [Diagnosis of Carpal Tunnel Syndrome](#)

Approved May 18, 2007

Endorsed By:

- American Academy of Physical Medicine and Rehabilitation
- American Association of Neuromuscular & Electrodiagnostic Medicine
- American Society of Plastic Surgeons

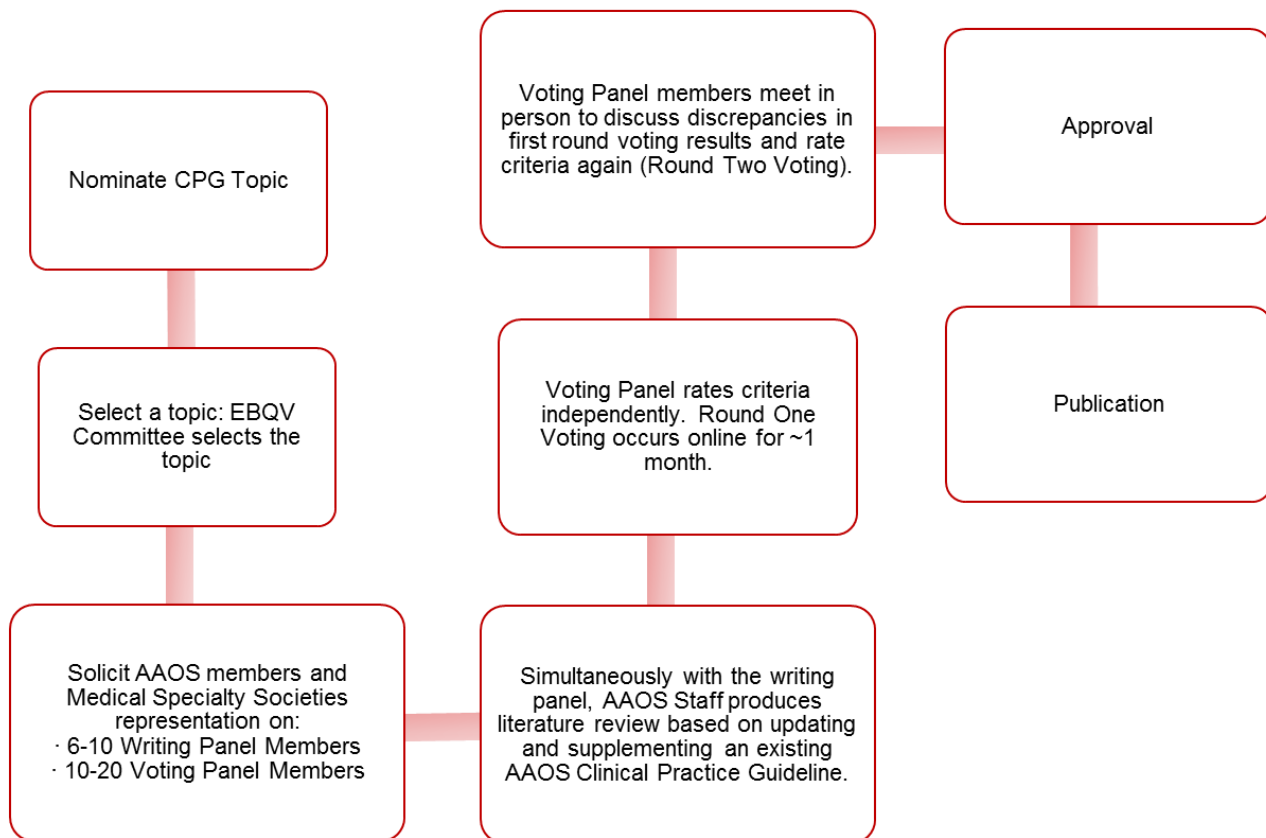
# Published Projects

## Performance Measures

[PQRS Measure #109: Osteoarthritis \(OA\): Function and Pain Assessment](#)

# Processes

## Appropriate Use Criteria



AUCs are based on CPGs and take about 1 year to complete

Approximate time for AUC completion from beginning to end, not including approval period, is 8-9 months

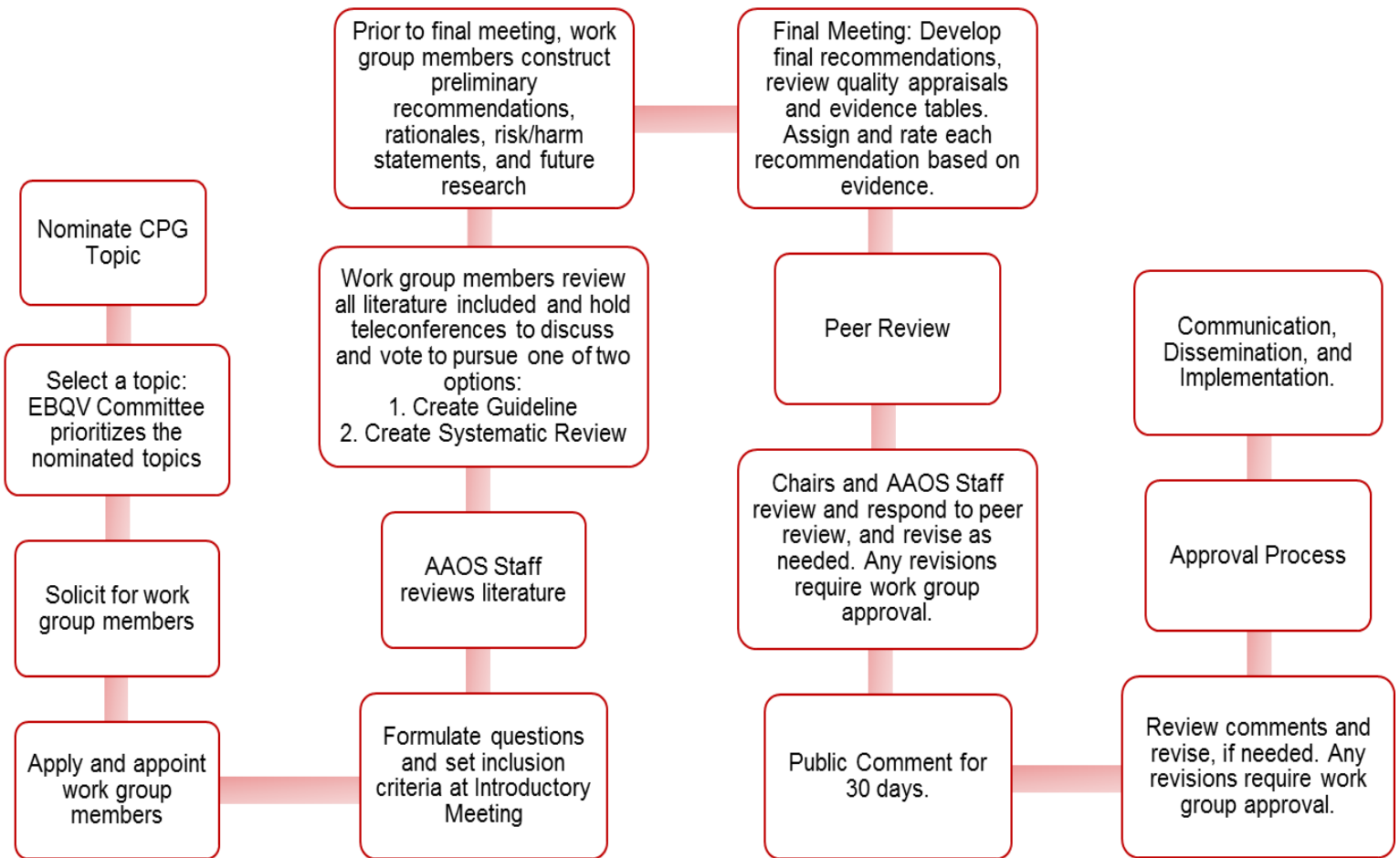
The final AUC is reviewed and approved by:

- Evidence-Based Quality and Value (EBQV) Committee
- Council on Research and Quality
- AAOS Board of Directors



# Processes

## Clinical Practice Guidelines

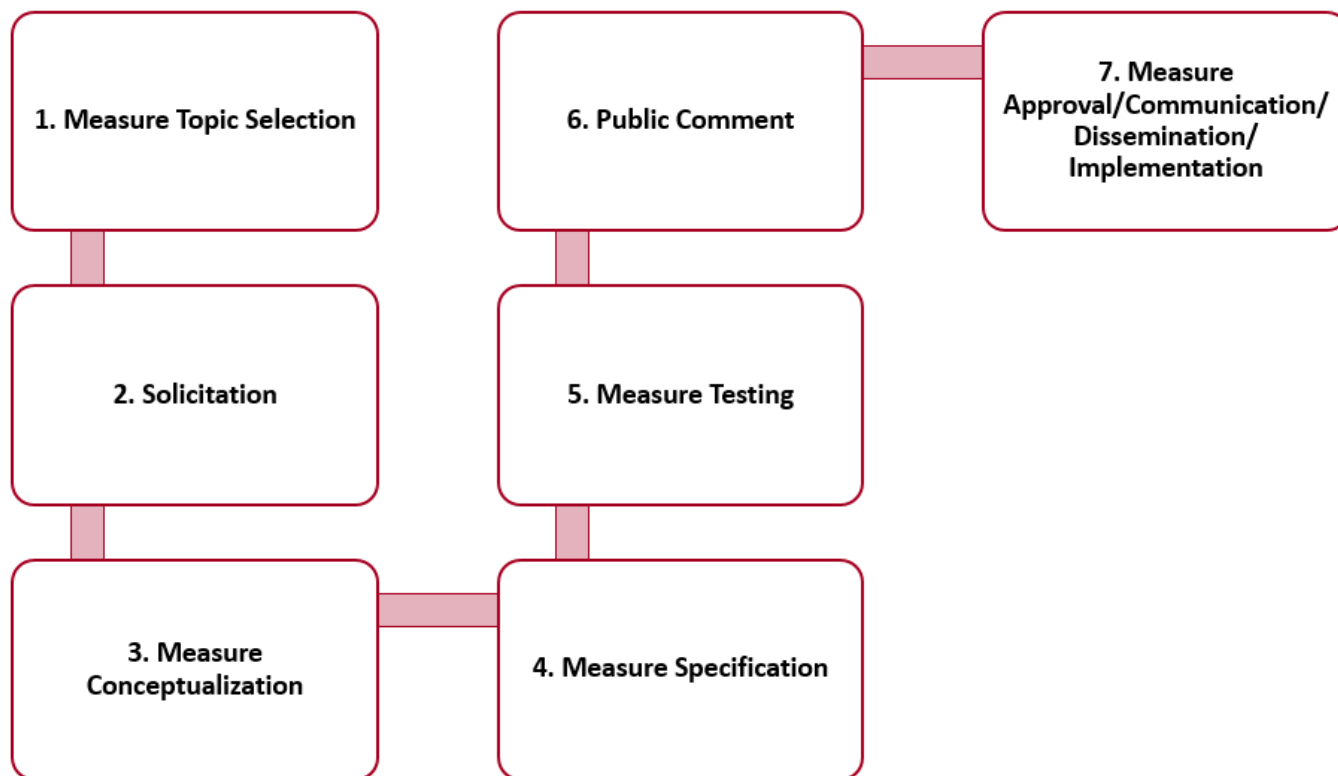


The Final Clinical Practice Guideline is Reviewed and Approved by:

- Work Group
- Evidence-Based Quality and Value (EBQV) Committee
- Council on Research and Quality (CORQ)
- AAOS Board of Directors

# Processes

## Performance Measures



Performance Measure development takes approximately 18 months to complete

The final Performance Measure set is reviewed and approved by:

- Work Group
- Performance Measures Committee
- Council on Research and Quality
- AAOS Board of Directors

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*Should you have any questions or for further assistance, please contact Erica Linskey at 847.384.4339 or [Linskey@aaos.org](mailto:Linskey@aaos.org).*

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