

Supplement to the Clinical Practice Guideline for Management of Hip Fractures in Older Adults

e-Appendix 1

- Search Strategy
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Literature Search Strategy

Database: MEDLINE via Ovid
 Ovid MEDLINE® and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and
Interface: Versions ® 1946 to March 4, 2020
Date: 3/5/2020
Search Management of Hip Fractures in the Elderly

| Line | Search Strategy |
|------|--|
| 1 | exp Hip Fractures/ OR (exp Hip Joint/ OR exp Hip Injuries/ OR exp Hip/ AND fracture*.ti,ab.) OR ((hip OR hips) AND fracture*).ti,ab. OR (Joint Capsule/in AND (hip OR hips).ti,ab.) |
| 2 | (fracture* AND (femoral neck OR neck of femur OR proximal femoral OR proximal femur OR low energy OR basicervical OR midcervical OR subcapital OR trochanter* OR subtrochanter* OR peritrochanter* OR pertrochanter* OR intertrochanter* OR intracapsular OR extracapsular)).ti,ab. |
| 3 | exp Aged/ OR (elderly OR geriatric? OR (older adj (adult? OR people OR person? OR women OR men OR patient?))).ti,ab. OR (age? adj5 (6# or 7# or 8# or 9#)).ti,ab. OR ((6# or 7# or 8# or 9#) adj years).ti,ab. |
| 4 | *Fractures, Spontaneous/ OR *Periprosthetic Fractures/ OR ((*Spinal Fractures/ or (vertebra* or spine or spinal).ti.) not (exp *Hip Fractures/ or exp *Hip Joint/ or exp *Hip Injuries/ or exp *Hip/ or *Femur Neck/ or (hip or femur or femoral).ti.)) OR exp *Femur Head Necrosis/ OR (necrosis OR osteonecrosis).ti. |
| 5 | (exp "Animals"/ NOT Humans/) OR exp "Cadaver"/ OR (animal? OR dog OR dogs OR canine OR horse OR horses OR equine OR mouse OR mice OR rat OR rats OR rabbit OR rabbits OR sheep OR p?ediatric? OR porcine OR pig OR pigs OR rodent? OR monkey?).ti. OR (cadaver* OR in vitro).ti,ab. OR ((comment OR editorial OR letter OR historical article) NOT clinical trial).pt. OR address.pt. OR news.pt. OR newspaper article.pt. OR pmcbook.af. OR case reports.pt. OR (case report? OR abstracts OR editorial OR reply OR commentary OR letter).ti. |
| 6 | (1 OR 2) AND 3 |
| 7 | 6 NOT (4 OR 5) |
| 8 | 7 and English.lg. |
| 9 | Delivery of Health Care, Integrated/ or Health Services for the Aged/ or exp Patient Care Team/ or (comanag* or co manag* or interdisciplinary or multidisciplinary or multi disciplinary or ((care or clinical or treatment or rehabilitation) adj pathway?) or coordinat* or orthogeriatric* or ortho geriatric* or (comprehensive adj3 (assessment? or care or treatment))).ti,ab. |
| 10 | Venous Thrombosis/ OR Venous Thromboembolism/ OR (dvt OR vte OR thrombos* OR thrombotic OR thromboembol*).ti,ab. OR exp Pulmonary embolism/ OR ((pulmonary OR lung?) AND (infarct* OR embol* OR clot*)).ti,ab. |

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| 11 | exp Anticoagulants/ OR (anticoagul* OR anti coagul*).ti,ab. OR exp Fibrinolytic Agents/ OR exp Thrombolytic Therapy/ OR exp Chemoprevention/ OR (antithromb* OR thrombolytic* OR thromboprophyla* OR chemoprophyla*).ti,ab. OR exp Platelet Aggregation Inhibitors/ OR (antiplatelet* OR anti platelet*).ti,ab. OR exp Heparin/ OR (heparin* OR dalteparin OR Fragmin OR tinzaparin OR Innohep OR enoxaparin OR Lovenox).ti,ab. OR Clopidogrel/ OR (Plavix OR clopidogrel).ti,ab. OR Warfarin/ OR (Coumadin OR Jantoven OR warfarin*).ti,ab. OR exp Antithrombins/ OR Fondaparinux/ OR Dabigatran/ OR (Arixtra OR factor Xa inhibitor* OR rivaroxaban OR Xarelto OR apixaban OR Eliquis OR edoxaban OR Savaysa OR betrixaban OR Bevyxxa OR bivalirudin OR Angiomax OR lepirudin OR Refludan OR dabigatran OR Pradaxa OR desirudin OR Iprivask).ti,ab. OR exp Aspirin/ OR aspirin.ti,ab. |
| 12 | Stockings, Compression/ OR (compression adj (stocking? OR device?)).ti,ab. OR Intermittent Pneumatic Compression Devices/ OR (foot AND pump?).ti,ab. OR ((pneumatic OR leg OR calf) adj compression).ti,ab. OR (mechanical adj3 prophyla*).ti,ab. |
| 13 | 10 OR 11 OR 12 |
| 14 | Anesthesia/ OR exp Anesthesia, Conduction/ OR exp Anesthesia, General/ OR exp Anesthetics/ OR (an?esthesia OR an?esthetic? OR analgesi*).ti,ab. OR ((nerve OR spinal OR neuraxial OR subarachnoid OR plexus OR quadratus lumborum OR compartment OR fascia iliaca) adj block*).ti,ab. OR ((nerve OR perineural OR spinal) adj4 catheter?).ti,ab. OR (lidocaine OR ropivacaine OR bupivacaine).ti,ab. |
| 15 | Pain Management/ OR ((multimodal OR multi modal) and pain).ti,ab. |
| 16 | Acetaminophen/ OR (acetaminophen OR paracetamol OR Tylenol OR propacetamol).ti,ab. |
| 17 | exp Narcotics/ OR Tramadol/ OR (narcotic* OR opioid* OR opiate* OR papaver* OR oxycodone OR Oxycontin OR Oxy-ER OR Oxy-CRF OR OxyIR OR Oxy-IR OR Percodan OR Percocet OR Roxicet OR hydrocodone OR dihydrocodeinone OR Vicodin OR Vicoprofen OR Norco OR Lortab OR Lorcet OR oxymorphone OR Opana OR morphine OR Kadian OR Avinza OR MS Contin OR Duramorph OR Roxanol OR codeine OR fentanyl OR Duragesic OR Actiq OR Sublimaze OR hydromorphone OR Dilaudid OR meperidine OR Demerol OR tramadol OR Ultram OR buprenorphine OR propoxyphene OR Darvocet OR Omnopon OR methadone OR Dolophine OR Methadose OR suboxone OR nalbuphine OR propoxyphene OR pentazocine).ti,ab. |
| 18 | Pregabalin/ OR Gabapentin/ OR (gabapentin OR gabapentinoid* OR Neurontin OR Gralise OR Horizant OR pregabalin OR Lyrica).ti,ab. |
| 19 | exp Anti-Inflammatory Agents, Non-Steroidal/ OR (non-steroidal anti-inflammatory agent? OR nonsteroidal anti-inflammatory agent? OR meloxicam OR Mobic OR naproxen OR Aleve OR ibuprofen OR Advil OR flurbiprofen OR ketorolac OR Toradol OR COX-2 inhibitor? OR COX2 inhibitor? OR celecoxib OR Celebrex OR diclofenac OR misoprostol OR sulindac OR ketoprofen OR tolmetin OR etodolac OR fenoprofen OR piroxicam OR indomethacin OR nabumetone OR aspirin).ti,ab. |
| 20 | exp Adrenal Cortex Hormones/ OR (adrenal cortex hormones OR corticosteroid* OR cortico steroid OR corticoid* OR cortisone OR prednisone OR prednisolone OR methylprednisolone OR triamcinolone OR dexamethasone OR glucocorticoid* OR cortisone OR hydrocortisone OR betamethasone OR budesonide OR mineralocorticoid*).ti,ab. |
| 21 | 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 |

| | |
|----|--|
| 22 | exp Orthopedic Procedures/ OR exp Internal Fixators/ OR (arthroplast* OR hemiarthroplast* OR fixat* OR ((hip? OR joint) adj3 replacement?) OR surgery OR surgical* OR nail* OR screw* OR cephalomedullary OR THA).ti,ab. |
| 23 | 9 OR 13 OR 21 OR 22 |
| 24 | exp Time Factors/ OR exp Time-to-Treatment/ OR (timing-death OR wait* time? OR ((time OR timing or delay* OR early OR same day) adj5 (surgery OR surgical))).ti,ab. |
| 25 | exp Hemoglobins/ OR (h?emoglobin OR hgb OR hb OR hba1c).ti,ab. OR exp Anemia/ OR an?emia.ti,ab. |
| 26 | Traction/ OR traction.ti,ab. |
| 27 | 24 OR 25 OR 26 |
| 28 | Antifibrinolytic Agents/ OR anti?fibrinoly*.ti,ab. OR Tranexamic Acid/ OR (tranexamic OR TXA OR Cyklokapron OR Lysteda).ti,ab. OR Aminocaproic Acid/ OR (aminocaproic OR Amicar).ti,ab. |
| 29 | Early Ambulation/ OR ((early OR accelerated OR immediate) adj4 (ambulat* OR walking OR mobilization OR mobilisation OR motion OR weightbearing OR weight bearing OR rehabilitation)).ti,ab. |
| 30 | 28 OR 29 |
| 31 | randomized controlled trial.pt. OR exp Randomized Controlled Trials as Topic/ OR random allocation/ OR random*.ti,ab. |
| 32 | (MEDLINE OR (systematic* AND review*) OR meta analys*).ti,ab. OR (meta analysis OR systematic review).pt. |
| 33 | 8 and 23 |
| 34 | (8 and 27) and (31 or 32) |
| 35 | 8 and 30 |
| 36 | limit 33 to yr="2013-Current" |
| 37 | limit 34 to yr="2013-Current" |
| 38 | limit 35 to yr="1995-Current" |
| 39 | 36 OR 37 OR 38 |
| 40 | limit 39 to ez=20200305-20210108 |
| 41 | |
| 42 | limit 39 to ez=20210108-20210228 |
| 43 | |

Database: Embase
Interface: Elsevier (<https://embase.com>)
Date: 5/20/2020
Search Management of Hip Fractures in the Elderly

| Line | Search Strategy |
|------|--|
| 1 | hip fracture'/exp OR (('hip injury'/exp OR hip/exp) AND fracture*:ti,ab) OR ((hip OR hips) AND fracture*):ti,ab |
| 2 | femoral neck fracture'/de OR (fracture*:ti,ab AND ('femoral neck'/de OR ('femoral neck' OR 'neck of femur' OR 'proximal femoral' OR 'proximal femur' OR 'low energy' OR basicervical OR midcervical OR subcapital OR trochanter* OR subtrochanter* OR peritrochanter* OR petrochanter* OR intertrochanter* OR intracapsular OR extracapsular):ti,ab)) |
| 3 | aged/exp OR (elderly OR geriatric\$ OR (older NEXT/1 (adult\$ OR people OR person\$ OR women OR men OR patient\$))):ti,ab OR (age\$ NEXT/5 (6? or 7? or 8? or 9?):ti,ab OR ((6? or 7? or 8? or 9?) NEXT/1 years):ti,ab |
| 4 | pathologic fracture'/mj OR 'periprosthetic fracture'/mj OR (('spine fracture'/exp/mj OR (vertebra* OR spine OR spinal):ti) NOT ('hip fracture'/exp/mj OR 'hip Injury'/exp/mj OR hip/exp/mj OR 'femoral neck'/mj OR 'femoral neck fracture'/mj OR (hip or femur or femoral):ti)) OR 'femur head necrosis'/mj OR (necrosis OR osteonecrosis):ti |
| 5 | abstract report'/de OR abstracts:ti OR 'book'/de OR 'editorial'/de OR 'editorial':it OR editorial:ti OR 'note'/de OR 'note':it OR 'letter'/de OR reply:ti OR commentary:ti OR 'letter':it OR letter:ti OR 'case study'/de OR 'case report'/de OR 'chapter':it OR 'conference paper'/exp OR 'conference paper':it OR 'conference abstract':it OR 'conference review':it OR 'cadaver'/de OR 'in vitro study'/exp OR (cadaver* OR 'in vitro'):ti,ab OR 'animal experiment'/exp OR (animal\$ OR dog OR dogs OR canine OR horse OR horses OR equine OR mouse OR mice OR rat OR rats OR rabbit OR rabbits OR sheep OR p\$ediatric\$ OR porcine OR pig OR pigs OR rodent\$ OR monkey\$):ti |
| 6 | (#1 OR #2) AND #3 |
| 7 | #6 NOT (#4 OR #5) |
| 8 | #7 AND [english]/lim |
| 9 | geriatric care'/exp OR (comanag* OR 'co manag*' OR interdisciplinary OR multidisciplinary OR 'multi disciplinary' OR ((care OR clinical OR treatment OR rehabilitation) NEXT/1 pathway\$) OR coordinat* OR orthogeriatric* OR 'ortho geriatric*' OR (comprehensive NEXT/3 (assessment\$ or care or treatment))):ti,ab |
| 10 | vein thrombosis'/de OR thrombophlebitis/de OR 'venous thromboembolism'/exp OR (dvt OR vte OR thrombos* OR thrombotic OR thromboembol*):ti,ab OR ((pulmonary OR lung\$) AND (infarct* OR embol* OR clot*)):ti,ab |
| 11 | anticoagulant agent'/exp OR (anticoagul* OR 'anti coagul*'):ti,ab OR 'fibrinolytic agent'/exp OR 'fibrinolytic therapy'/exp OR chemoprophylaxis/de OR 'blood clotting inhibitor'/exp OR 'antithrombotic agent'/exp OR 'thrombocyte aggregation inhibition'/de OR (antithromb* OR thrombolytic* OR thromboprophyla* OR chemoprophyla*):ti,ab OR (antiplatelet* OR anti platelet*):ti,ab OR heparin/exp OR 'heparin derivative'/exp OR (heparin* OR dalteparin OR Fragmin OR tinzaparin OR Innohep OR enoxaparin OR Lovenox):ti,ab OR clopidogrel/exp OR (Plavix OR clopidogrel):ti,ab OR warfarin/exp OR (Coumadin OR Jantoven OR warfarin*):ti,ab OR 'dabigatran etexilate'/exp OR (Arixtra OR fondaparinux OR factor Xa inhibitor* OR rivaroxaban OR Xarelto OR apixaban OR Eliquis OR edoxaban OR Savaysa OR betrixaban OR Bevyxxa OR bivalirudin OR Angiomax OR lepirudin OR Refludan OR dabigatran OR Pradaxa OR desirudin OR desulfatohirudin OR Iprivask OR argatroban OR aspirin):ti,ab |

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| 12 | compression garment'/exp OR (compression NEXT/1 (stocking\$ OR device\$)):ti,ab OR 'intermittent pneumatic compression device'/de OR (foot AND pump\$):ti,ab OR ((pneumatic OR leg OR calf NEXT/1 compression):ti,ab OR (mechanical NEXT/3 prophyla*):ti,ab |
| 13 | #10 OR #11 OR #12 |
| 14 | anesthesia/de OR 'general anesthesia'/exp OR 'spinal anesthesia'/de OR 'epidural anesthesia'/exp OR 'regional anesthesia'/exp OR 'intravenous anesthesia'/exp OR 'local anesthesia'/exp OR 'anesthetic agent'/exp OR (anesthesia OR anesthetic\$):ti,ab OR ((nerve OR spinal OR neuraxial OR subarachnoid OR plexus OR 'quadratus lumborum' OR compartment OR 'fascia iliaca') NEXT/1 block*):ti,ab OR 'anesthetic catheter'/exp OR ((nerve OR perineural OR spinal) NEAR/4 catheter\$):ti,ab OR 'local anesthetic agent'/exp OR (lidocaine OR ropivacaine OR bupivacaine):ti,ab |
| 15 | analgesia/exp OR analgesi*:ti,ab OR (multimodal AND pain):ti,ab |
| 16 | paracetamol'/exp OR 'propacetamol'/exp OR acetaminophen:ti,ab OR paracetamol:ti,ab OR propacetamol:ti,ab OR tylenol:ti,ab |
| 17 | narcotic agent'/exp OR 'narcotic analgesic agent'/exp OR narcotic*:ti,ab OR opioid*:ti,ab OR opiate*:ti,ab OR papaver*:ti,ab OR oxycodone:ti,ab OR Oxycontin:ti,ab OR 'Oxy-ER':ti,ab OR 'Oxy-CRF':ti,ab OR 'OxyLR':ti,ab OR 'Oxy-IR':ti,ab OR Percodan:ti,ab OR Percocet:ti,ab OR Roxicet:ti,ab OR hydrocodone:ti,ab OR dihydrocodeinone:ti,ab OR Vicodin:ti,ab OR Vicoprofen:ti,ab OR Norco:ti,ab OR Lortab:ti,ab OR Lorcet:ti,ab OR oxymorphone:ti,ab OR Opana:ti,ab OR morphine:ti,ab OR Kadian:ti,ab OR Avinza:ti,ab OR 'MS Contin':ti,ab OR Duramorph:ti,ab OR Roxanol:ti,ab OR codeine:ti,ab OR fentanyl:ti,ab OR Duragesic:ti,ab OR Actiq:ti,ab OR Sublimaze:ti,ab OR hydromorphone:ti,ab OR Dilaudid:ti,ab OR meperidine:ti,ab OR Demerol:ti,ab OR tramadol:ti,ab OR Ultram:ti,ab OR buprenorphine:ti,ab OR propoxyphene:ti,ab OR Darvocet:ti,ab OR Omnopon:ti,ab OR methadone:ti,ab OR Dolophine:ti,ab OR Methadose:ti,ab OR suboxone:ti,ab OR nalbuphine:ti,ab OR propoxyphene:ti,ab OR pentazocine:ti,ab |
| 18 | pregabalin'/exp OR 'gabapentinoid'/exp OR 'gabapentin'/exp OR pregabalin:ti,ab OR gabapentinoid*:ti,ab OR gabapentin:ti,ab OR Lyrica:ti,ab OR Neurontin:ti,ab OR Gralise:ti,ab OR Horizant:ti,ab |
| 19 | nonsteroid antiinflammatory agent'/exp OR 'cyclooxygenase 2 inhibitor'/exp OR 'non-steroidal anti-inflammatory agent':ti,ab OR 'nonsteroidal anti-inflammatory agents':ti,ab OR meloxicam:ti,ab OR mobic:ti,ab OR naproxen:ti,ab OR aleve:ti,ab OR ibuprofen:ti,ab OR advil:ti,ab OR flurbiprofen:ti,ab OR ketorolac:ti,ab OR toradol:ti,ab OR 'cox-2 inhibitor\$':ti,ab OR 'cox2 inhibitor\$':ti,ab OR celecoxib:ti,ab OR celebrex:ti,ab OR diclofenac:ti,ab OR misoprostol:ti,ab OR sulindac:ti,ab OR ketoprofen:ti,ab OR tolmetin:ti,ab OR fenoprofen:ti,ab OR piroxicam:ti,ab OR etodolac:ti,ab OR indomethacin:ti,ab OR nabumetone:ti,ab OR aspirin:ti,ab |
| 20 | corticosteroid'/exp OR corticosteroid*:ti,ab OR corticoid*:ti,ab OR 'adrenal cortex hormone\$':ti,ab OR prednisone:ti,ab OR methylprednisolone:ti,ab OR triamcinolone:ti,ab OR glucocorticoid*:ti,ab OR cortisone:ti,ab OR hydrocortisone:ti,ab OR dexamethasone:ti,ab OR prednisolone:ti,ab OR betamethasone:ti,ab OR budesonide:ti,ab OR mineralocorticoid*:ti,ab |
| 21 | #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 |
| 22 | orthopedic surgery'/exp OR 'orthopedic fixation device'/exp OR (arthroplast* OR hemiarthroplast* OR 'hemi arthroplast*' OR fixat* OR ((hip OR joint) NEAR/3 replacement\$) OR surgery OR surgical* OR nail* OR screw* OR cephalomedullary OR THA):ti,ab |
| 23 | #9 OR #13 OR #21 OR #22 |

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| 24 | time factor'/exp OR 'time to treatment'/exp OR ('timing death' OR 'wait* time\$' OR ((time OR timing or delay* OR early OR 'same day') NEAR/5 (surgery OR surgical))):ti,ab |
| 25 | hemoglobin/exp OR (h?emoglobin OR hgb OR hb OR hba1c):ti,ab OR anemia/exp OR an?emia:ti,ab |
| 26 | traction therapy'/exp OR traction:ti,ab |
| 27 | #24 OR #25 OR #26 |
| 28 | antifibrinolytic agent'/exp OR anti\$fibrinoly*:ti,ab OR (tranexamic OR TXA OR Cyklokapron OR Lysteda OR aminocaproic OR Amicar):ti,ab |
| 29 | mobilization/de OR ((early OR accelerated OR immediate) NEAR/4 (ambulat* OR walking OR mobilization OR mobilisation OR motion OR weightbearing OR 'weight bearing' OR rehabilitation)):ti,ab |
| 30 | #28 OR #29 |
| 31 | randomized controlled trial'/exp OR 'randomized controlled trial (topic)'/exp OR 'randomization'/de OR random*:ti,ab,kw |
| 32 | systematic review'/exp OR 'meta analysis'/exp OR ((systematic* NEAR/2 review*):ti,ab,kw) OR 'meta analys*':ti,ab,kw |
| 33 | #8 and #23 |
| 34 | (#8 and #27) and (#31 or #32) |
| 35 | #8 and #30 |
| 36 | (#33 OR #34) AND [2013-3000]/py |
| 37 | #35 AND [1995-3000]/py |
| 38 | #36 OR #37 |
| 39 | (#36 OR #37) AND [20-5-2020]/sd NOT [9-1-2021]/sd |
| 40 | (#36 OR #37) AND [8-1-2021]/sd NOT [1-3-2021]/sd |

Database: Cochrane Central Register of Controlled Trials (CENTRAL)

Interface: Wiley (<https://www.cochranelibrary.com/central>)

Date: 5/20/2020

Search Management of Hip Fractures in the Elderly

| Line | Search Strategy |
|------|---|
| 1 | ((hip OR hips) AND fracture*):ti,ab |
| 2 | fracture*:ti,ab AND ("femoral neck" OR "neck of femur" OR "proximal femoral" OR "proximal femur" OR "low energy" OR basicervical OR midcervical OR subcapital OR trochanter* OR subtrochanter* OR peritrochanter* OR pertrochanter* OR intertrochanter* OR intracapsular OR extracapsular):ti,ab |
| 3 | (elderly OR geriatric? OR (older NEXT/1 (adult? OR people OR person? OR women OR men OR patient?))):ti,ab OR (age? NEXT/5 (6? or 7? or 8? or 9?)):ti,ab OR ((6? or 7? or 8? or 9?) NEXT/1 years):ti,ab |
| 4 | [mh ^"Fractures, Spontaneous"] OR [mh ^"Periprosthetic fractures"] OR (([mh ^"Spinal Fractures"] OR (vertebra* OR spine OR spinal):ti) NOT ([mh ^"Hip Fractures"] OR [mh ^"Hip Joint"] OR [mh ^"Hip Injuries"] OR [mh ^Hip] OR [mh ^"Femure Neck"] OR (hip or femur or femoral):ti)) OR [mh ^"Femur Head Necrosis"] OR (necrosis OR osteonecrosis):ti |
| 5 | "conference abstract":pt OR abstracts:ti OR editorial:ti OR reply:ti OR commentary:ti OR letter:ti OR cadaver*:ti,ab OR "in vitro":ti,ab OR animal*:ti OR dog:ti OR dogs:ti OR canine:ti OR horse:ti OR horses:ti OR equine:ti OR mouse:ti OR mice:ti OR rat:ti OR rats:ti OR rabbit:ti OR rabbits:ti OR sheep:ti OR porcine:ti OR pig:ti OR pigs:ti OR rodent?:ti OR monkey?:ti |
| 6 | (#1 OR #2) AND #3 |
| 7 | #6 NOT (#4 OR #5) |
| 8 | (comanag* OR (co NEXT/1 manag*) OR interdisciplinary OR multidisciplinary OR "multi disciplinary" OR ((care OR clinical OR treatment OR rehabilitation) NEXT/1 pathway?) OR coordinat* OR orthogeriatric* OR (ortho NEXT/1 geriatric*) OR (comprehensive NEXT/3 (assessment? or care or treatment))):ti,ab |
| 9 | (dvt OR vte OR thrombos* OR thrombotic OR thromboembol*):ti,ab OR ((pulmonary OR lung?) AND (infarct* OR embol* OR clot*)):ti,ab |
| 10 | (anticoagul* OR "anti coagul*"):ti,ab OR (antithromb* OR thrombolytic* OR thromboprophyla* OR chemoprophyla*):ti,ab OR (antiplatelet* OR (anti NEXT/1 platelet*)):ti,ab OR (heparin* OR dalteparin OR Fragmin OR tinzaparin OR Innohep OR enoxaparin OR Lovenox):ti,ab OR (Plavix OR clopidogrel):ti,ab OR (Coumadin OR Jantoven OR warfarin*):ti,ab OR (Arixtra OR fondaparinux OR (factor NEXT/1 Xa NEXT/1 inhibitor*) OR rivaroxaban OR Xarelto OR apixaban OR Eliquis OR edoxaban OR Savaysa OR betrixaban OR Bevyxxa OR bivalirudin OR Angiomax OR lepirudin OR Refludan OR dabigatran OR Pradaxa OR desirudin OR desulfatohirudin OR lprivask OR argatroban OR aspirin):ti,ab |
| 11 | (compression NEXT/1 (stocking? OR device?)):ti,ab OR (foot AND pump?):ti,ab OR ((pneumatic OR leg OR calf) NEXT/1 compression):ti,ab OR (mechanical NEXT/3 prophyla*):ti,ab |
| 12 | #9 OR #10 OR #11 |

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| 13 | (anesthesia OR anesthetic):ti,ab OR ((nerve OR spinal OR neuraxial OR subarachnoid OR plexus OR "quadratus lumborum" OR compartment OR "fascia iliaca") NEXT/1 block):ti,ab OR ((nerve OR perineural OR spinal) NEAR/4 catheter):ti,ab OR (lidocaine OR ropivacaine OR bupivacaine):ti,ab |
| 14 | analgesia:ti,ab OR (multimodal AND pain):ti,ab |
| 15 | acetaminophen:ti,ab OR paracetamol:ti,ab OR propacetamol:ti,ab OR tylenol:ti,ab |
| 16 | (narcotic* OR opioid* OR opiate* OR papaver* OR oxycodone OR Oxycontin OR "Oxy-ER" OR "Oxy-CRF" OR "OxyIR" OR "Oxy-IR" OR Percodan OR Percocet OR Roxicet OR hydrocodone OR dihydrocodeinone OR Vicodin OR Vicoprofen OR Norco OR Lortab OR Lorcet OR oxymorphone OR Opana OR morphine OR Kadian OR Avinza OR "MS Contin" OR Duramorph OR Roxanol OR codeine OR fentanyl OR Duragesic OR Actiq OR Sublimaze OR hydromorphone OR Dilaudid OR meperidine OR Demerol OR tramadol OR Ultram OR buprenorphine OR propoxyphene OR Darvocet OR Omnipon OR methadone OR Dolophine OR Methadose OR suboxone OR nalbuphine OR propoxyphene OR pentazocine):ti,ab |
| 17 | (pregabalin OR gabapentinoid* OR gabapentin OR Lyrica OR Neurontin OR Gralise OR Horizant):ti,ab |
| 18 | ("non-steroidal anti-inflammatory agents" OR "nonsteroidal anti-inflammatory agents" OR meloxicam OR Mobic OR naproxen OR Aleve OR ibuprofen OR Advil OR flurbiprofen OR ketorolac OR Toradol OR "COX-2 inhibitor" OR "COX-2 inhibitors" OR "COX2 inhibitor" OR "COX2 inhibitors" OR celecoxib OR Celebrex OR diclofenac OR misoprostol OR sulindac OR ketoprofen OR tolmetin OR etodolac OR fenoprofen OR piroxicam OR indomethacin OR nabumetone OR aspirin):ti,ab |
| 19 | ("adrenal cortex hormones" OR corticosteroid* OR corticoid* OR prednisone OR methylprednisolone OR triamcinolone OR dexamethasone OR glucocorticoid* OR cortisone OR hydrocortisone OR prednisolone OR betamethasone OR budesonide OR mineralocorticoid*):ti,ab |
| 20 | #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 |
| 21 | (arthroplast* OR hemiarthroplast* OR "hemi arthroplast*" OR fixat* OR ((hip OR joint) NEAR/3 replacement?) OR surgery OR surgical* OR nail* OR screw* OR cephalomedullary OR THA):ti,ab |
| 22 | #8 OR #12 OR #20 OR #21 |
| 23 | ("timing death" OR (wait* NEXT/1 time?) OR ((time OR timing or delay* OR early OR "same day") NEAR/5 (surgery OR surgical))):ti,ab |
| 24 | (hemoglobin OR hgb OR hb OR hba1c):ti,ab OR anemia:ti,ab |
| 25 | traction:ti,ab |
| 26 | #23 OR #24 OR #25 |
| 27 | antifibrinolytic:ti,ab OR (tranexamic OR TXA OR Cyklokapron OR Lysteda OR aminocaproic OR Amicar):ti,ab |

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|-----------|---|
| 28 | ((early OR accelerated OR immediate) NEAR/4 (ambulat* OR walking OR mobilization OR mobilisation OR motion OR weightbearing OR "weight bearing" OR rehabilitation)):ti,ab |
| 29 | #27 OR #28 |
| 30 | #7 and #22 |
| 31 | (#7 and #26) |
| 32 | #7 and #29 with Publication Year from 1995 to 2020, in Trials |
| 33 | (#30 OR #31) with Publication Year from 2013 to 2020, in Trials |
| 35 | #32 OR #33 |
| 36 | (#32 OR #33) with Cochrane Library publication date from May 2020 to Jan 2021 |
| 37 | |
| 38 | (#32 OR #33) with Cochrane Library publication date from Jan 2021 to Feb 2021 |
| 39 | |

AAOS Approval Bodies

Committee on Evidence Based Quality and Value

The committee on Evidence Based Quality and Value (EBQV) consists of twenty-three AAOS members who implement evidence-based quality initiatives such as clinical practice guidelines (CPGs), systematic literature reviews (SRs) and appropriate use criteria (AUCs). They also oversee the dissemination of related educational materials and promote the utilization of orthopaedic value products by the Academy's leadership and its members.

Council on Research and Quality

The Council on Research and Quality promotes ethically and scientifically sound clinical and translational research to sustain patient care in musculoskeletal disorders. The Council also serves as the primary resource for educating its members, the public, and public policy makers regarding evidenced-based medical practice, orthopaedic devices and biologics, regulatory pathways and standards development, patient safety, and other related important research and quality areas. The Council is comprised of the chairs of the committees on Devices, Biologics, and Technology, Patient Safety, Research Development, U.S. and chair and section leaders of the Evidence Based Quality and Value committee. Also, on the Council are the second vice-president, three members at large, and representatives of the Diversity Advisory Board, Women's Health Issues Advisory Board, Board of Specialty Societies (BOS), Board of Councilors (BOC), Communications Cabinet, Orthopaedic Research Society (ORS), Orthopedic Research and Education Foundation (OREF).

Board of Directors

The 17-member Board of Directors manage the affairs of the AAOS, set policy, and oversee the Strategic Plan

Review Organizations

Review of the clinical practice guideline is completed by interested external organizations. The AAOS solicits reviewers for each clinical practice guideline. They consist of experts in the topic area and represent professional societies other than AAOS. Review organizations are nominated by the clinical practice guideline development group at the introductory meeting. Review responses are available on www.aaos.org/quality.

Participation in the AAOS systematic literature review peer review process does not constitute an endorsement, nor does it imply that the reviewer supports this document.

Letters of Endorsement from External Organizations

January 3, 2022

Kaitlyn S. Sevarino
Director, Department of Clinical Quality and Value
sevarino@aaos.org

RE: AAHKS Endorsement of the AAOS Clinical Practice Guideline for the Management of Hip Fractures in Older Adults

Dear Ms. Sevarino:

The American Association of Hip and Knee Surgeons (AAHKS) has voted to endorse the AAOS Clinical Practice Guideline for the Management of Hip Fractures in Older Adults. This endorsement implies permission for the AAOS to officially list our organization as an endorser of this clinical practice guideline and reprint our logo in the introductory section of the clinical practice guideline review document.

Please note that while AAHKS representative participated in the guideline review at the AAOS, AAHKS feels that it would be able to provide the most value to the AAOS if allowed to share feedback during the open comment period.

Sincerely,



Richard Iorio, MD

AAHKS President

CC: Matthew S. Austin, MD, Evidence Based Medicine Committee Chair
Michael J. Zarski, JD, Executive Director
Josh Kerr, Deputy Executive Director



Orthopaedic Trauma Association

Education ■ Research ■ Advocacy

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March 14, 2022

Kaitlyn S. Sevarino, MBA, CAE
Director
Department of Clinical Quality and Value

Dear Ms. Sevarino,

The OTA Board of Directors has voted to endorse the AAOS Clinical Practice Guideline for the Management of Hip Fractures in Older Adults. This endorsement implies permission for the AAOS to officially list our organization as an endorser of this clinical practice guideline and reprint our logo in the introductory section of the clinical practice Guideline review document.

Sincerely,

Michael Archdeacon, MD
OTA President



March 17, 2022

Dear Ms. Sevarino,

The APTA Executive Committee of the Board of Directors has voted to endorse the AAOS Clinical Practice Guideline for the Management of Osteoarthritis of the Knee (Non-Arthroplasty) 3rd Edition and the AAOS Clinical Practice Guideline for the Management of Hip Fractures in Older Adults. This endorsement implies permission for the AAOS to officially list our organization as an endorser of this clinical practice guideline and reprint our logo in the introductory section of the clinical practice guideline review document.

Sincerely,

A handwritten signature in black ink that reads "Roger Herr". The signature is fluid and cursive, with a long horizontal line extending to the right.

Roger Herr, PT
President, APTA