Clinical Policy Title: Knee Braces

Clinical Policy Number: CCP.1392

Effective Date:	**August 1, 2018**
Initial Review Date:	June 5, 2018
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Next Review Date:	July 2019

Policy contains:

- Knee brace.
- Knee orthotics.
- Osteoarthritis.

Related policies:

None.

ABOUT THIS POLICY: *AmeriHealth Caritas has developed clinical policies to assist with making coverage determinations. AmeriHealth Caritas' clinical policies are based on guidelines from established industry sources, such as the Centers for Medicare & Medicaid Services (CMS), state regulatory agencies, the American Medical Association (AMA), medical specialty professional societies, and peer-reviewed professional literature. These clinical policies along with other sources, such as plan benefits and state and federal laws and regulatory requirements, including any state- or plan-specific definition of "medically necessary," and the specific facts of the particular situation are considered by AmeriHealth Caritas when making coverage determinations. In the event of conflict between this clinical policy and plan benefits and/or state or federal laws and/or regulatory requirements, the plan benefits and/or state and federal laws and/or regulatory requirements shall control. AmeriHealth Caritas' clinical policies are for informational purposes only and not intended as medical advice or to direct treatment. Physicians and other health care providers are solely responsible for the treatment decisions for their patients. AmeriHealth Caritas' clinical policies are reflective of evidence-based medicine at the time of review. As medical science evolves, AmeriHealth Caritas will update its clinical policies as necessary. AmeriHealth Caritas' clinical policies are not guarantees of payment.*

Coverage policy

AmeriHealth Caritas considers the use of knee braces (orthoses) to be clinically proven, and therefore, medically necessary, for any of the following conditions:

1. Prefabricated braces.
   a. A flexion contracture (shortening of the muscles and/or tendons that limits knee extension to zero degrees extension) after injury, surgery, casting, or other immobilization.
   b. An extension contracture (shortening of the muscles and/or tendons that limits knee flexion to 80 degrees by passive range of motion) after injury, surgery, casting, or other immobilization.
   c. Weakness or deformity of the knee that requires stabilization.
   d. Flexion or extension contractures with movement on passive range of motion testing of at least 10 degrees (brace has locking knee joint).
   e. A recent injury or knee surgery (brace has a knee immobilizer without joints or with an adjustable flexion and extension joint that provides medial-lateral and rotation control).

f. A congenital or acquired hyperextended knee causing instability in ambulatory members.
g. Painful arthritis in the medial compartment of the knee (unloader braces).

2. Custom fabricated braces.
   a. A documented physical characteristic requiring use of a custom fabricated orthosis. These include, but are not limited to, deformity of the leg or knee, size of thigh and calf, and minimal muscle mass upon which to suspend an orthosis. An adjustable flexion and extension joint may be required in some cases.
   b. Instability due to internal ligamentous disruption of the knee (derotation knee orthosis).
   c. Knee instability due to genu recurvatum/hyperextended knee for ambulatory members (custom fabricated knee orthosis with a modified supracondylar prosthetic socket) (CMS, L33018, 2015).

Limitations:

AmeriHealth Caritas considers the use of knee braces (orthoses) to be investigational/experimental, and therefore not medically necessary, for:

1. Prefabricated braces for members with no documented criteria in (1) above.
2. Custom fabricated braces for members with no documented criteria in (2) above.
3. Molded-to-patient model braces.
4. Prophylactic knee braces.

Alternative covered services:

None.

Background

Knee braces are a type of durable medical equipment that are also known as orthotics. They are devices that range from a simple strap worn below the kneecap to an elaborate device that stretches from the thigh to the shin, with a hinge at the joint. Knee braces consist of a hinge centered around the knee's axis of motion, superstructure (shell that extends around the hinge), and strap system that secures the brace to the limb.

The purpose of a knee brace is to support a weak or deformed body part or restrict motion in a damaged body part. Braces can reduce pain or other impairment and prevent further injury and/or improve range of motion without causing further harm or damage.

Several types of knee braces are used for various reasons.

1. A prefabricated model is purchased over the counter and fitted to individual body contours.
2. A custom-made model is made for a specific individual by bending, cutting, sewing, or molding.

3. A molded-to-patient model is manufactured by first creating a plaster cast impression, and molding the brace on to the model (Personal Health Insurance, 2013).

Knee braces are used for various purposes, including:

1. A functional brace stabilizes an unstable joint, often during elective activities, such as sports, and sometimes when osteoarthritis is present.
2. An unloader brace shifts some weight in an osteoarthritic knee, reducing pain; osteoarthritis affects 9.3 Americans older than age 45 in the United States (Gohal, 2018).
3. A rehabilitative brace moderates motion in a knee just after injury or surgery.
4. A prophylactic brace is used to prevent or reduce injury severity, such as ligament tears (Paluska, 2000).

For years, guidelines have been developed for knee brace use. An early set of recommendations by the American Academy of Family Physicians found no conclusive evidence that prophylactic knee braces were effective to prevent knee damage; that patellofemoral braces offer moderate improvement to anterior knee disorders; and functional braces have demonstrated ability to stabilize knees during rotational and anteroposterior forces (Paluska, 2000).

Many guidelines in the last decade address only single purposes of knee braces; osteoarthritis is a common topic. A guideline from the French Physical Medicine and Rehabilitation Society found that while braces are not often prescribed for osteoarthritis of the knee, responses to valgus knee bracing remain inconsistent with considerable side effects (Beaudreuil, 2009). Unloading knee braces have been recommended to reduce knee pain, based on professional evidence (Rannou, 2010).

The Osteoarthritis Research Society International guideline recommended bracing for persons with knee osteoarthritis and mild-to-moderate varus/valgus instability, based on findings that knee braces can reduce pain and increase stability of the joint (Zhang, 2008).

The American College of Rheumatology did not make recommendations on wearing knee braces for osteoarthritis (Hochberg, 2012). The American Academy of Orthopaedic Surgeons (2013) could not recommend for or against the use of valgus directing force knee braces for persons with osteoarthritis. The Academy did state that a hinged knee brace and/or unloading brace may be appropriate for reducing pain and increasing range of motion in knee osteoarthritis (Yates, 2014).

Searches

AmeriHealth Caritas searched PubMed and the databases of:

- UK National Health Services Centre for Reviews and Dissemination.
- Agency for Healthcare Research and Quality's National Guideline Clearinghouse and other evidence-based practice centers.
- The Centers for Medicare & Medicaid Services.

We conducted searches on April 28, 2018. Search terms were: “knee braces” and “orthotics.”

We included:

- **Systematic reviews**, which pool results from multiple studies to achieve larger sample sizes and greater precision of effect estimation than in smaller primary studies. Systematic reviews use predetermined transparent methods to minimize bias, effectively treating the review as a scientific endeavor, and are thus rated highest in evidence-grading hierarchies.
- **Guidelines based on systematic reviews.**
- **Economic analyses**, such as cost-effectiveness, and benefit or utility studies (but not simple cost studies), reporting both costs and outcomes — sometimes referred to as efficiency studies — which also rank near the top of evidence hierarchies.

Findings

Numerous systematic reviews and meta-analyses have been conducted on effectiveness of knee braces. Articles mentioned below are all systematic reviews, unless meta-analysis is indicated.

Comparing types of braces

1. Studies (n = 24) of knee complications documented that static progressive stretch bracing (one to three sessions a day, seven to nine weeks) had a significantly greater increase in range of motion (31 degrees) than did dynamic braces (six to eight weeks). Patients who had static progressive stretch bracing also had a superior increase in mean flexion (22 degrees) compared with that of patients who had dynamic knee bracing (seven degrees), leading authors to recommend it as a first-line recommendation for persons with knee pathology (Sodhi, 2017).

Sports injuries – anterior cruciate ligament

1. Early studies showed no benefit of wearing knee braces to the anterior cruciate ligament. A review (seven studies) on effects of prophylactic use of knee braces among college football players found injury risk declined in three and increased in four studies (Pietrosimone, 2008).

2. A review of 70 randomized controlled trials determined that use of a knee brace, after reconstruction of the anterior cruciate ligament, does not affect the clinical outcome (Andersson, 2009).

3. A review of six studies of rehabilitation after anterior cruciate ligament surgery concluded bracing was ineffective and no recommendation was made for its use. However, the review did find that accelerated and home-based rehabilitation, neuromuscular training programs, hyaluronic acid injection, and single (uninjured) leg cycling may be beneficial (Grant, 2013).

4. A review of six analyses of prophylactic use of knee braces among U.S. football players showed a significant reduction in medial collateral ligament injuries in only one study, and thus authors did not recommend routine prophylactic use of braces (Salata, 2010).

5. A systematic review of biomechanical and clinical evidence suggests functional bracing does not sufficiently restore normal biomechanics to the anterior cruciate ligament-deficient knee, protect the reconstructed ligament, and improve long-term patient outcomes, and that further improvements are needed in bracing technology (Smith, 2014).

6. A review of 15 studies (only three randomized) of persons followed from three to 48 months after anterior cruciate ligament repair showed bracing significantly improved kinematics of the knee joint and improved gait kinetics, while decreasing quadriceps activation. Authors termed the effectiveness of this type of surgery to be "elusive" (Lowe, 2017), while another expert (after a review of 28 articles) declared that the literature does not support the use of braces after anterior cruciate ligament surgery (Rodriguez-Merchan, 2016).

Osteoarthritis

1. In 25 studies of patients with varus and valgus knee osteoarthritis, Generation II knee braces, valgus knee braces, and functional off-loading knee braces were found to be effective in decreasing pain, joint stiffness, and drug dosage (Raja, 2011).

2. A Cochrane review of 13 studies (n = 1,356) of knee braces and other conservative methods of treating medial compartment knee osteoarthritis revealed inconclusive benefits of bracing for pain, stiffness, function, and quality of life (Duivenvoorden, 2015).

3. A meta-analysis of six studies documented persons with osteoarthritis using valgus braces to have a significant pain improvement ($P = 0.001$) and function ($P = 0.03$). Compared with a control group that did not use an orthosis, the valgus group had a significantly greater reduction in pain ($P = 0.04$) and function ($P = 0.04$) and a significant improvement ($P = 0.01$) in pain compared with patients using a control orthosis (Moyer, 2015a).

4. The same research team performed a meta-analysis of 17 studies, linking braces with a significant decrease in external knee adduction moment during walking, with a near-significant link to effect size and duration of brace use only, and with longer durations of brace use associated with smaller treatment effects (Moyer, 2015b).

5. A review of 12 studies of persons with knee osteoarthritis determined knee braces decreased pain, but improved function, improved range of motion, and increased speed of walking and step length, along with a reduction in the adduction moment applied to the knee (Mileki, 2016).

6. A review found 20 of 24 articles addressing medial osteoarthritis revealed that valgus unloader braces significantly decrease the knee adduction moment (Petersen, 2016).

7. A review of 31 studies (n = 619) typically found improved pain outcomes using valgus offloader braces, but variable results in functional outcomes and stiffness. Offloader bracing was more effective at reducing pain versus neutral braces or neoprene sleeves (Gohal, 2018).

8. A review of 11 studies (n = 284), six randomized, documented significant improvement in pain (*P* = 0.007) for persons with osteoarthritis wearing versus not wearing a soft brace. Those wearing a soft brace versus standard care showed significant improvements in pain reduction (*P* < 0.001) and self-reported physical function (*P* = 0.006) (Cudejko, 2018).

9. A review of 30 studies (four of which addressed bracing) compared several treatments for pain in knee osteoarthritis. Bracing had a significant reduction standardized mean difference in pain of 1.34 – more effective than insoles (0.992) but less effective than transcutaneous electrical nerve stimulation (1.796) and neuromuscular electrical stimulation (1.924) (Cherian, 2016).

10. A review of seven Japanese-language randomized trials found no conclusive evidence on effectiveness of any braces for patients with medial knee osteoarthritis (Mine, 2017).

Patellofemoral syndrome.

1. A Cochrane review of five trials (n = 368) failed to produce helpful evidence on effectiveness of knee orthoses for treating patellofemoral syndrome. Very-low-quality evidence suggested that knee braces did not reduce knee pain or improve knee function in under three months in adults who were also undergoing an exercise program for treating the disorder (Smith, 2015).

2. A meta-analysis of 37 trials on adults with patellofemoral pain found 80 percent did not show a clinically significant benefit. In the remaining seven studies, significant reductions in pain were documented for pulsed electromagnetic fields plus home exercise (-33.0), hip muscle strengthening (-65.0 and -32.0), weight-bearing exercise (-40.0), neuromuscular facilitation plus aerobic exercise and stretching (-60.1), postural stabilization (-24.4), and patellar bracing (-31.6) (Saltychev, 2018).

Policy updates:

None.

Summary of clinical evidence:

Citation	Content, Methods, Recommendations
Saltychev (2018)	**Key points:** • Systematic review and meta-analysis of adults with patellofemoral pain.

Citation	Content, Methods, Recommendations
Treatment of patellofemoral pain syndrome	• Various conservative treatments compared with placebo, sham, no treatment, or other conservative treatments. • More than 80% of the 37 trials did not show a clinically significant benefit. • Of the remaining seven trials, positive effects were documented (large change in pain severity). - Pulsed electromagnetic fields combined with home exercise, -33.0. - Hip muscle strengthening, -65.0 and -32.0. - Weight-bearing exercise, -40.0. - Neuromuscular facilitation with aerobic exercise/stretching, -60.1. - Postural stabilization, -24.4. - Patellar bracing, -31.6.
Cudejko (2018) Soft braces in knees with osteoarthritis	**Key points:** • Systematic review and meta-analysis of 11 studies (n = 284), six randomized trials of persons with osteoarthritis. • Significant reduction in pain (P = 0.007) for persons wearing versus not wearing a soft brace. • Persons wearing a soft brace versus standard care showed significant improvements in pain reduction (P < 0.001) and self-reported physical function (P = 0.006).
Cherian (2016) Comparing effectiveness of non-operative treatments for osteoarthritis of the knee	**Key points:** • Systematic review of 30 studies (four of which addressed bracing). • Four treatments compared for ability to control pain in knee osteoarthritis. • Bracing had a significant reduction standardized mean difference in pain of 1.34, more effective than insoles (0.992) but less effective than transcutaneous electrical nerve stimulation (1.796) and neuromuscular electrical stimulation (1.924). • All four results are statistically significant.
Moyer (2015a) Valgus bracing for knee osteoarthritis	**Key points:** • Meta-analysis of six studies of persons with osteoarthritis using valgus braces. • Patients had significant pain improvement (P = 0.001) and function (P = 0.03). • Valgus group had significantly greater pain reduction (P = 0.004) and function (P = 0.004) versus a control group that did not use an orthosis. • Valgus group had significant improvement (P = 0.01) in pain compared with patients using a control orthosis.
Pietrosimone (2008) Prophylactic braces in preventing knee ligament injuries	**Key points:** • Systematic review of the benefit to the anterior cruciate ligament of wearing prophylactic knee braces. • Seven studies in the review, among college football players. • Injury risk declined in three studies. • Injury risk increased in four studies.

References

Professional society guidelines/other:

American Academy of Orthopaedic Surgeons (AAOS). Guideline on the treatment of osteoarthritis of the knee (non-arthroplasty). Rosemont IL: AAOS, 2013. Available at: http://www.aaos.org/Research/guidelines/GuidelineOAKnee.asp. Accessed April 26, 2018.

Beaudreuil J, Bendaya S, Faucher, et al. Clinical practice guidelines for rest orthosis, knee sleeves, and unloading knee braces in knee osteoarthritis. *Joint Bone Spine*. 2009;76(6):629 – 36.

Hochberg MC, Altman RD, April KT, et al. American College of Rheumatology 2012 recommendations for the use of nonpharmacologic and pharmacologic therapies in osteoarthritis of the hand, hip, and knee. *Arthritis Care Res (Hoboken)*. 2012;64(4):465 – 74.

Paluska S, McKeag D. Knee braces: Current evidence and clinical recommendations for their use. *Am Fam Physician*. 2000;61(2):411 – 18.

Personal Health Insurance (PHI). Does health insurance cover knee braces? PHI, 2013. http://www.personalhealthinsurance.com/does-health-insurance-cover-knee-braces/. Accessed April 26, 2018.

Rannou F, Poiraudeau S, Beaudreuil J. Role of bracing in the management of knee osteoarthritis. *Curr Opin Rheumatol*. 2010;22(2):218 – 22.

Yates AJ Jr, McGrory BJ, Starz TW, Vincent KR, McCardel B, Golightly YM. AAOS appropriate use criteria: optimizing the non-arthroplasty management of osteoarthritis of the knee. *J Am Acad Orthop Surg*. 2014;22(4):261 – 67.

Zhang W, Moskowitz RW, Nuki G, et al. OARSI recommendations for the management of hip and knee osteoarthritis, Part II: OARSI evidence-based, expert consensus guidelines. *Osteoarthritis Cartilage*. 2008;16(2):137 – 62.

Peer-reviewed references:

Andersson D, Samuelsson K, Karlsson J. Treatment of anterior cruciate ligament injuries with special reference to surgical technique and rehabilitation: an assessment of randomized controlled trials. *Arthroscopy*. 2009;25(6):653 – 85.

Cherian JJ, Jauregui JJ, Leichliter AK, Elmallah RK, Bhave A, Mont MA. The effects of various physical non-operative modalities on the pain in osteoarthritis of the knee. *Bone Joint J*. 2016;98-B(1 Suppl A):89 – 94.

Cudejko T, van der Esch M, van der Leeden M, et al. Effect of soft braces on pain and physical function in patients with knee osteoarthritis: Systematic review with meta-analyses. *Arch Phys Med Rehabil*. 2018;99(1):153 – 63.

Duivenvoorden T, Brouwer RW, van Raaji TM, Verhagen AP, Verhaar JA, Bierma-Zeinstra SM. Braces and orthoses for treating osteoarthritis of the knee. *Cochrane Database Syst Rev*. 2015;(3):CD004020. Doi: 10.1002/14651858.CD004020.pub3.

Gohal C, Shanmugarai A, Tate P, et al. Effectiveness of valgus offloading knee braces in the treatment of medial compartment knee osteoarthritis: A systematic review. *Sports Health*. 2018:1941738118763913. Doi: 10.1177/1941738118763913.

Grant JA. Updating recommendations for rehabilitation after ACL reconstruction: a review. *Clin J Sport Med*. 2013;23(6):501 – 02.

Lowe WR, Warth RJ, Davis EP, Bailey L. Functional bracing after anterior cruciate ligament reconstruction: A systematic review. *J Am Acad Orthop Surg*. 2017;25(3):239 – 49.

Maleki M, Arazpour M, Joghtaei M, Hutchins SW, Aboutorabi A, Pouyan A. The effect of knee orthoses on gait parameters in medial knee compartment osteoarthritis: A literature review. *Prosthet Orthot Int*. 2016;40(20:193 – 201.

Mine K, Nakayama T, Milanese S, Grimmer K. The effectiveness of braces and orthoses for patients with knee osteoarthritis: A systematic review of Japanese-language randomised controlled trials. *Prosthet Orthot Int*. 2017;41(2):115 – 26.

Moyer RF, Birmingham TB, Bryant DM, Giffin JR, Marriott KA, Leitch KM. Valgus bracing for knee osteoarthritis: a meta-analysis of randomized trials. *Arthritis Care Res (Hoboken)*. 2015a;67(4):493 – 501.

Moyer RF, Birmingham TB, Bryant DM, Giffin JR, Marriott KA, Leitch KM. Biomechanical effects of valgus knee bracing: a systematic review and meta-analysis. *Osteoarthritis Cartilage*. 2015b;23(2):178 – 88. Doi: 10.1016/j.joca.2014.11.018

Petersen W, Ellermann A, Zantop T, et al. Biomechanical effect of unloader braces for medial osteoarthritis of the knee: a systematic review (CRD 42015026136). *Arch Orthop Trauma Surg*. 2016;136(5):649 – 56.

Pietrosimone BG, Grindstaff TL, Linens SW, Uczekai E, Hertel J. A systematic review of prophylactic braces in the prevention of knee ligament injuries in collegiate football players. *J Athl Train*. 2008;43(4):409 – 15.

Raja K, Dewan N. Efficacy of knee braces and foot orthoses in conservative management of knee osteoarthritis: a systematic review. *Am J Phys Med Rehabil*. 2011;90(3):247 – 62.

Rodriguez-Merchan EC. Knee Bracing after anterior cruciate ligament reconstruction. *Orthopedics*. 2016 Jul 1;39(4):e602 – 09. Doi: 10.3928/01477447-20160513-04.

Salata MJ, Gibbs AE, Sekiya JK. The effectiveness of prophylactic knee bracing in American football: a systematic review. *Sports Health*. 2010;2(5):375 – 79.

Saltychev M, Dutton RA, Laimi K, Beaupre GS, Virolainen P, Fredericson M. Effectiveness of conservative treatment for patellofemoral pain syndrome: A systematic review and meta-analysis. *J Rehabil Med*. 2018 Jan 25. doi: 10.2340/16501977-2295.

Smith SD, Laprade RF, Jansson KS, Aroen A, Wijdicks CA. Functional bracing of ACL injuries: current state and future directions. *Knee Surg Sports Traumatol Arthrosc*. 2014;22(5):1131 – 41.

Smith TO, Drew BT, Meek TH, Clark AB. Knee orthoses for treating patellofemoral pain syndrome. *Cochrane Database Syst Rev*. 2015 Dec 8;(12):CD010513. Doi: 10.1002/14651858.CD010513.pub2.

Sodhi N, Yao B, Khlopas A, et al. A case for the brace: A critical, comprehensive, and up-to-date review of static progressive stretch, dynamic, and turnbuckle braces for the management of elbow, knee, and shoulder pathology. *Surg Technol Int*. 2017;31:303 – 18.

CMS National Coverage Determinations (NCDs):

No NCDs identified as of the writing of this policy.

Local Coverage Determinations (LCDs):

L33318 Knee orthoses. Effective date October 1, 2015. https://www.cms.gov/medicare-coverage-database/details/lcd-details.aspx?LCDId=33318&ver=36&CoverageSelection=Both&ArticleType=All&PolicyType=Final&s=All&KeyWord=knee&KeyWordLookUp=Title&KeyWordSearchType=And&bc=gAAAACAAAAAA&. Accessed April 26, 2018.

L33686 Ankle-Foot/Knee-Ankle-Foot Orthoses. Effective date October 1, 2015. https://www.cms.gov/medicare-coverage-database/details/lcd-details.aspx?LCDId=33686&ver=15&Date=&DocID=L33686&bc=iAAAABAAAAAA&. Accessed July 6, 2018.

Commonly submitted codes

Below are the most commonly submitted codes for the service(s)/item(s) subject to this policy. This is not an exhaustive list of codes. Providers are expected to consult the appropriate coding manuals and bill accordingly.

CPT Code	Description	Comments
N/A	Not Applicable	

HCPCS Level II Code	Description	Comments
A4467	Belt, strap, sleeve, garment, or covering, any type	
A9270	Non-covered item or service	
K0670	Addition to lower extremity orthosis, removable soft interface, all components, replacement only, each	
L1810	Knee orthosis, elastic with joints, prefabricated item that has been trimmed, bent, molded, assembled, or otherwise customized to fit a specific patient by an individual with expertise	
L1812	Knee orthosis, elastic with joints, prefabricated, off-the-shelf	
L1820	Knee orthotic, elastic with condylar pads and joints, with or without patellar control, prefabricated, includes fitting and adjustment	
L1830	Knee orthosis, immobilizer, canvas longitudinal, prefabricated, off-the-shelf	
L1831	Knee orthotic, locking knee joint(s), positional orthotic, prefabricated, includes fitting and adjustment	
L1832	Knee orthosis, adjustable knee joints (unicentric or polycentric), positional orthosis, rigid support, prefabricated item that has been trimmed, bent, molded, assembled, or otherwise customized to fit a specific patient by an individual with expertise	
L1833	Knee orthosis, adjustable knee joints (unicentric or polycentric), positional orthosis, rigid support, prefabricated, off-the shelf	
L1834	Knee orthotic (KO), without knee joint, rigid, custom fabricated	
L1836	Knee orthosis, rigid, without joint(s), includes soft interface material, prefabricated, off-the-shelf	
L1840	Knee orthotic (KO), derotation, medial-lateral, anterior cruciate ligament, custom fabricated	
L1843	Knee orthosis, single upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, prefabricated item that has been trimmed, bent, molded, assembled, or otherwise customized to fit a specific patient by an individual with expertise	
L1844	Knee orthotic (KO), single upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, custom fabricated	
L1845	Knee orthosis, double upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, prefabricated item that has been trimmed, bent, molded, assembled, or otherwise customized to fit a specific patient by an individual with expertise	
L1846	Knee orthotic, double upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, custom fabricated	
L1847	Knee orthosis, double upright with adjustable joint, with inflatable air support chamber(s), prefabricated item that has been trimmed, bent, molded, assembled, or otherwise customized to fit a specific patient by an individual with expertise	
L1848	Knee orthosis, double upright with adjustable joint, with inflatable air support chamber(s), prefabricated, off-the-shelf	
L1850	Knee orthosis, swedish type, prefabricated, off-the-shelf	

HCPCS Level II Code	Description	Comments
L1851	Knee orthosis (KO), single upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, prefabricated, off-the-shelf	
L1852	Knee orthosis (KO), double upright, thigh and calf, with adjustable flexion and extension joint (unicentric or polycentric), medial-lateral and rotation control, with or without varus/valgus adjustment, prefabricated, off-the-shelf	
L1860	Knee orthotic (KO), modification of supracondylar prosthetic socket, custom fabricated (SK)	
L2000	Knee ankle foot orthosis, single upright, free knee, free ankle, solid stirrup, thigh and calf bands/cuffs (single bar 'ak' orthosis), custom fabricated	
L2005	Knee ankle foot orthosis, any material, single or double upright, stance control, automatic lock and swing phase release, any type activation, includes ankle joint, any type, custom fabricated	
L2010	Knee ankle foot orthosis, single upright, free ankle, solid stirrup, thigh and calf bands/cuffs (single bar 'ak' orthosis), without knee joint, custom fabricated	
L2020	Knee ankle foot orthosis, double upright, free ankle, solid stirrup, thigh and calf bands/cuffs (double bar 'ak' orthosis), custom fabricated	
L2030	Knee ankle foot orthosis, double upright, free ankle, solid stirrup, thigh and calf bands/cuffs, (double bar 'ak' orthosis), without knee joint, custom fabricated	
L2034	Knee ankle foot orthosis, full plastic, single upright, with or without free motion knee, medial lateral rotation control, with or without free motion ankle, custom fabricated	
L2035	Knee ankle foot orthosis, full plastic, static (pediatric size), without free motion ankle, prefabricated, includes fitting and adjustment	
L2036	Knee ankle foot orthosis, full plastic, double upright, with or without free motion knee, with or without free motion ankle, custom fabricated	
L2037	Knee ankle foot orthosis, full plastic, single upright, with or without free motion knee, with or without free motion ankle, custom fabricated	
L2038	Knee ankle foot orthosis, full plastic, with or without free motion knee, multi-axis ankle, custom fabricated	
L2126	Knee ankle foot orthosis, fracture orthosis, femoral fracture cast orthosis, thermoplastic type casting material, custom fabricated	
L2128	Knee ankle foot orthosis, fracture orthosis, femoral fracture cast orthosis, custom fabricated	
L2132	Kafo, fracture orthosis, femoral fracture cast orthosis, soft, prefabricated, includes fitting and adjustment	
L2134	Kafo, fracture orthosis, femoral fracture cast orthosis, semi-rigid, prefabricated, includes fitting and adjustment	
L2136	Kafo, fracture orthosis, femoral fracture cast orthosis, rigid, prefabricated, includes fitting and adjustment	
L2182	Addition to lower extremity fracture orthosis, drop lock knee joint	
L2184	Addition to lower extremity fracture orthosis, limited motion knee joint	
L2186	Addition to lower extremity fracture orthosis, adjustable motion knee joint, lerman type	
L2320	Addition to lower extremity, non-molded lacer, for custom fabricated orthosis only	
L2330	Addition to lower extremity, lacer molded to patient model, for custom fabricated orthosis only	
L2380	Addition to lower extremity, torsion control, straight knee joint, each joint	

HCPCS Level II Code	Description	Comments
L2385	Addition to lower extremity, straight knee joint, heavy duty, each joint	
L2387	Addition to lower extremity, polycentric knee joint, for custom fabricated knee ankle foot orthosis, each joint	
L2390	Addition to lower extremity, offset knee joint, each joint	
L2395	Addition to lower extremity, offset knee joint, heavy duty, each joint	
L2397	Addition to lower extremity orthotic, suspension sleeve	
L2405	Addition to knee joint, drop lock, each	
L2415	Addition to knee lock with integrated release mechanism (bail, cable, or equal), any material, each joint	
L2425	Addition to knee joint, disc or dial lock for adjustable knee flexion, each joint	
L2430	Addition to knee joint, ratchet lock for active and progressive knee extension, each joint	
L2492	Addition to knee joint, lift loop for drop lock ring	
L2750	Addition to lower extremity orthosis, plating chrome or nickel, per bar	
L2755	Addition to lower extremity orthotic, high strength, lightweight material, all hybrid lamination/prepreg composite, per segment, for custom fabricated orthotic only	
L2780	Addition to lower extremity orthosis, non-corrosive finish, per bar	
L2785	Addition to lower extremity orthotic, drop lock retainer, each	
L2795	Addition to lower extremity orthotic, knee control, full kneecap	
L2999	Lower extremity orthoses, not otherwise specified	
L2800	Addition to lower extremity orthotic, knee control, knee cap, medial or lateral pull, for use with custom fabricated orthotic only	
L2810	Addition to lower extremity orthotic, knee control, condylar pad	
L2820	Addition to lower extremity orthosis, soft interface for molded plastic, below knee section	
L2830	Addition to lower extremity orthosis, soft interface for molded plastic, above knee section	
L4002	Replacement strap, any orthosis, includes all components, any length, any type	
L4070	Replace proximal and distal upright for kafo	
L4080	Replace metal bands kafo, proximal thigh	
L4090	Replace metal bands kafo-afo, calf or distal thigh	
L4100	Replace leather cuff kafo, proximal thigh	
L4110	Replace leather cuff kafo-afo, calf or distal thigh	
L4205	Repair of orthotic device, labor component, per 15 minutes	
L4210	Repair of orthotic device, repair or replace minor parts	
L9999	Orthotic and prosthetic supply, accessory, and/or service component of another HCPCS "l" code	

ICD-10 Code	Description	Comments
M05.061	Felty's syndrome, right knee	
M05.062	Felty's syndrome, left knee	
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	

ICD-10 Code	Description	Comments
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	
M06.1	Adult-onset Still's disease	
M06.261	Rheumatoid bursitis, right knee	
M06.262	Rheumatoid bursitis, left knee	
M06.361	Rheumatoid nodule, right knee	
M06.362	Rheumatoid nodule, left knee	
M06.861	Other specified rheumatoid arthritis, right knee	
M06.862	Other specified rheumatoid arthritis, left knee	
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	
M08.861	Other juvenile arthritis, right knee	
M08.862	Other juvenile arthritis, left knee	
M08.961	Juvenile arthritis, unspecified, right knee	
M08.962	Juvenile arthritis, unspecified, left knee	
M12.061	Chronic postrheumatic arthropathy [Jaccoud], right knee	
M12.062	Chronic postrheumatic arthropathy [Jaccoud], left knee	
M17.0	Bilateral primary osteoarthritis of knee	
M17.11	Unilateral primary osteoarthritis, right knee	
M17.12	Unilateral primary osteoarthritis, left knee	
M17.2	Bilateral post-traumatic osteoarthritis of knee	
M17.31	Unilateral post-traumatic osteoarthritis, right knee	
M17.32	Unilateral post-traumatic osteoarthritis, left knee	
M17.4	Other bilateral secondary osteoarthritis of knee	
M17.5	Other unilateral secondary osteoarthritis of knee	
M17.9	Osteoarthritis of knee, unspecified	
M22.2X1	Patellofemoral disorders, right knee	
M22.2X2	Patellofemoral disorders, left knee	
M22.3X1	Other derangements of patella, right knee	
M22.3X2	Other derangements of patella, left knee	

ICD-10 Code	Description	Comments
M22.41	Chondromalacia patellae, right knee	
M22.42	Chondromalacia patellae, left knee	
M22.8X1	Other disorders of patella, right knee	
M22.8X2	Other disorders of patella, left knee	
M22.91	Unspecified disorder of patella, right knee	
M22.92	Unspecified disorder of patella, left knee	
M23.000	Cystic meniscus, unspecified lateral meniscus, right knee	
M23.001	Cystic meniscus, unspecified lateral meniscus, left knee	
M23.003	Cystic meniscus, unspecified medial meniscus, right knee	
M23.004	Cystic meniscus, unspecified medial meniscus, left knee	
M23.006	Cystic meniscus, unspecified meniscus, right knee	
M23.007	Cystic meniscus, unspecified meniscus, left knee	
M23.011	Cystic meniscus, anterior horn of medial meniscus, right knee	
M23.012	Cystic meniscus, anterior horn of medial meniscus, left knee	
M23.021	Cystic meniscus, posterior horn of medial meniscus, right knee	
M23.022	Cystic meniscus, posterior horn of medial meniscus, left knee	
M23.031	Cystic meniscus, other medial meniscus, right knee	
M23.032	Cystic meniscus, other medial meniscus, left knee	
M23.041	Cystic meniscus, anterior horn of lateral meniscus, right knee	
M23.042	Cystic meniscus, anterior horn of lateral meniscus, left knee	
M23.051	Cystic meniscus, posterior horn of lateral meniscus, right knee	
M23.052	Cystic meniscus, posterior horn of lateral meniscus, left knee	
M23.061	Cystic meniscus, other lateral meniscus, right knee	
M23.062	Cystic meniscus, other lateral meniscus, left knee	
M23.200	Derangement of unspecified lateral meniscus due to old tear or injury, right knee	
M23.201	Derangement of unspecified lateral meniscus due to old tear or injury, left knee	
M23.203	Derangement of unspecified medial meniscus due to old tear or injury, right knee	
M23.204	Derangement of unspecified medial meniscus due to old tear or injury, left knee	
M23.206	Derangement of unspecified meniscus due to old tear or injury, right knee	
M23.207	Derangement of unspecified meniscus due to old tear or injury, left knee	
M23.211	Derangement of anterior horn of medial meniscus due to old tear or injury, right knee	
M23.212	Derangement of anterior horn of medial meniscus due to old tear or injury, left knee	
M23.221	Derangement of posterior horn of medial meniscus due to old tear or injury, right knee	
M23.222	Derangement of posterior horn of medial meniscus due to old tear or injury, left knee	
M23.231	Derangement of other medial meniscus due to old tear or injury, right knee	
M23.232	Derangement of other medial meniscus due to old tear or injury, left knee	
M23.241	Derangement of anterior horn of lateral meniscus due to old tear or injury, right knee	
M23.242	Derangement of anterior horn of lateral meniscus due to old tear or injury, left knee	
M23.251	Derangement of posterior horn of lateral meniscus due to old tear or injury, right knee	
M23.252	Derangement of posterior horn of lateral meniscus due to old tear or injury, left knee	
M23.261	Derangement of other lateral meniscus due to old tear or injury, right knee	
M23.262	Derangement of other lateral meniscus due to old tear or injury, left knee	
M23.300	Other meniscus derangements, unspecified lateral meniscus, right knee	
M23.301	Other meniscus derangements, unspecified lateral meniscus, left knee	
M23.303	Other meniscus derangements, unspecified medial meniscus, right knee	
M23.304	Other meniscus derangements, unspecified medial meniscus, left knee	

ICD-10 Code	Description	Comments
M23.306	Other meniscus derangements, unspecified meniscus, right knee	
M23.307	Other meniscus derangements, unspecified meniscus, left knee	
M23.311	Other meniscus derangements, anterior horn of medial meniscus, right knee	
M23.312	Other meniscus derangements, anterior horn of medial meniscus, left knee	
M23.321	Other meniscus derangements, posterior horn of medial meniscus, right knee	
M23.322	Other meniscus derangements, posterior horn of medial meniscus, left knee	
M23.331	Other meniscus derangements, other medial meniscus, right knee	
M23.332	Other meniscus derangements, other medial meniscus, left knee	
M23.341	Other meniscus derangements, anterior horn of lateral meniscus, right knee	
M23.342	Other meniscus derangements, anterior horn of lateral meniscus, left knee	
M23.351	Other meniscus derangements, posterior horn of lateral meniscus, right knee	
M23.352	Other meniscus derangements, posterior horn of lateral meniscus, left knee	
M23.361	Other meniscus derangements, other lateral meniscus, right knee	
M23.362	Other meniscus derangements, other lateral meniscus, left knee	
M23.51	Chronic instability of knee, right knee	
M23.52	Chronic instability of knee, left knee	
M23.601	Other spontaneous disruption of unspecified ligament of right knee	
M23.602	Other spontaneous disruption of unspecified ligament of left knee	
M23.611	Other spontaneous disruption of anterior cruciate ligament of right knee	
M23.612	Other spontaneous disruption of anterior cruciate ligament of left knee	
M23.621	Other spontaneous disruption of posterior cruciate ligament of right knee	
M23.622	Other spontaneous disruption of posterior cruciate ligament of left knee	
M23.631	Other spontaneous disruption of medial collateral ligament of right knee	
M23.632	Other spontaneous disruption of medial collateral ligament of left knee	
M23.641	Other spontaneous disruption of lateral collateral ligament of right knee	
M23.642	Other spontaneous disruption of lateral collateral ligament of left knee	
M23.671	Other spontaneous disruption of capsular ligament of right knee	
M23.672	Other spontaneous disruption of capsular ligament of left knee	
M23.8X1	Other internal derangements of right knee	
M23.8X2	Other internal derangements of left knee	
M23.91	Unspecified internal derangement of right knee	
M23.92	Unspecified internal derangement of left knee	
M66.251	Spontaneous rupture of extensor tendons, right thigh	
M66.252	Spontaneous rupture of extensor tendons, left thigh	
M66.261	Spontaneous rupture of extensor tendons, right lower leg	
M66.262	Spontaneous rupture of extensor tendons, left lower leg	
M80.051A - M80.052S	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture - Age-related osteoporosis with current pathological fracture, left femur, sequela	
M80.061A - M80.062S	Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture - Age-related osteoporosis with current pathological fracture, left lower leg, sequela	
M80.851A - M80.852S	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture - Other osteoporosis with current pathological fracture, left femur, sequela	

ICD-10 Code	Description	Comments
M80.851A - M80.852S	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture - Other osteoporosis with current pathological fracture, left lower leg, sequela	
M80.861A - M80.862S	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture - Other osteoporosis with current pathological fracture, left lower leg, sequel	
M84.351A - M84.352S	Stress fracture, right femur, initial encounter for fracture - Stress fracture, left femur, sequela	
M84.361A - M84.364S -	Stress fracture, right tibia, initial encounter for fracture - Stress fracture, left fibula, sequela	
M84.451A - M84.452S	Pathological fracture, right femur, initial encounter for fracture - Pathological fracture, left femur, sequela	
M84.461A - M84.464S	Pathological fracture, right tibia, initial encounter for fracture - Pathological fracture, left fibula, sequela	
M84.551A - M84.552S	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture - Pathological fracture in neoplastic disease, left femur, sequela	
M84.561A - M84.564S	Pathological fracture in neoplastic disease, right tibia, initial encounter for fracture - Pathological fracture in neoplastic disease, left fibula, sequela	
M84.651A - M84.652S	Pathological fracture in other disease, right femur, initial encounter for fracture - Pathological fracture in other disease, left femur, sequela	
M84.661A - M84.664S	Pathological fracture in other disease, right tibia, initial encounter for fracture - Pathological fracture in other disease, left fibula, sequela	
M87.061	Idiopathic aseptic necrosis of right tibia	
M87.062	Idiopathic aseptic necrosis of left tibia	
M87.064	Idiopathic aseptic necrosis of right fibula	
M87.065	Idiopathic aseptic necrosis of left fibula	
M87.161	Osteonecrosis due to drugs, right tibia	
M87.162	Osteonecrosis due to drugs, left tibia	
M87.164	Osteonecrosis due to drugs, right fibula	
M87.165	Osteonecrosis due to drugs, left fibula	
M87.261	Osteonecrosis due to previous trauma, right tibia	
M87.262	Osteonecrosis due to previous trauma, left tibia	
M87.264	Osteonecrosis due to previous trauma, right fibula	
M87.265	Osteonecrosis due to previous trauma, left fibula	
M87.361	Other secondary osteonecrosis, right tibia	
M87.362	Other secondary osteonecrosis, left tibia	
M87.364	Other secondary osteonecrosis, right fibula	
M87.365	Other secondary osteonecrosis, left fibula	
M87.861	Other osteonecrosis, right tibia	
M87.862	Other osteonecrosis, left tibia	
M87.864	Other osteonecrosis, right fibula	
M87.865	Other osteonecrosis, left fibula	
M90.561	Osteonecrosis in diseases classified elsewhere, right lower leg	
M90.562	Osteonecrosis in diseases classified elsewhere, left lower leg	
M96.661	Fracture of femur following insertion of orthopedic implant, joint prosthesis, or bone plate, right leg	

ICD-10 Code	Description	Comments
M96.662	Fracture of femur following insertion of orthopedic implant, joint prosthesis, or bone plate, left leg	
M96.671	Fracture of tibia or fibula following insertion of orthopedic implant, joint prosthesis, or bone plate, right leg	
M96.672	Fracture of tibia or fibula following insertion of orthopedic implant, joint prosthesis, or bone plate, left leg	
Q68.2	Congenital deformity of knee	
Q68.6	Discoid meniscus	
Q74.1	Congenital malformation of knee	
S72.001A - S72.002S	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture - Fracture of unspecified part of neck of left femur, sequela	
S72.011A - S72.012S	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture - Unspecified intracapsular fracture of left femur, sequela	
S72.021A - S72.022S	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture - Displaced fracture of epiphysis (separation) (upper) of left femur, sequela	
S72.024A - S72.025S	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture - Nondisplaced fracture of epiphysis (separation) (upper) of left femur, sequela	
S72.031A - S72.032S	Displaced midcervical fracture of right femur, initial encounter for closed fracture - Displaced midcervical fracture of left femur, sequela	
S72.034A - S72.035S	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture - Nondisplaced midcervical fracture of left femur, sequela	
S72.041A - S72.042S	Displaced fracture of base of neck of right femur, initial encounter for closed fracture - Displaced fracture of base of neck of left femur, sequela	
S72.044A - S72.045S	Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture - Nondisplaced fracture of base of neck of left femur, sequela	
S72.051A - S72.052S	Unspecified fracture of head of right femur, initial encounter for closed fracture - Unspecified fracture of head of left femur, sequela	
S72.061A - S72.062S	Displaced articular fracture of head of right femur, initial encounter for closed fracture - Displaced articular fracture of head of left femur, sequela	
S72.064A - S72.065S	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture - Nondisplaced articular fracture of head of left femur, sequela	
S72.091A - S72.092S	Other fracture of head and neck of right femur, initial encounter for closed fracture - Other fracture of head and neck of left femur, sequela	
S72.101A - S72.102S	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture - Unspecified trochanteric fracture of left femur, sequela	
S72.111A - S72.112S	Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture - Displaced fracture of greater trochanter of left femur, sequela	
S72.114A - S72.115S	Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed fracture - Nondisplaced fracture of greater trochanter of left femur, sequela	
S72.121A - S72.122S	Displaced fracture of lesser trochanter of right femur, initial encounter for closed fracture - Displaced fracture of lesser trochanter of left femur, sequela	
S72.124A - S72.125S	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture - Nondisplaced fracture of lesser trochanter of left femur, sequela	
S72.131A - S72.132S	Displaced apophyseal fracture of right femur, initial encounter for closed fracture - Displaced apophyseal fracture of left femur, sequela	

ICD-10 Code	Description	Comments
S72.134A - S72.135S	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture - Nondisplaced apophyseal fracture of left femur, sequela	
S72.141A - S72.142S	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture - Displaced intertrochanteric fracture of left femur, sequela	
S72.144A - S72.145S	Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed fracture - Nondisplaced intertrochanteric fracture of left femur, sequela	
S72.21XA - S72.22XS	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture - Displaced subtrochanteric fracture of left femur, sequela	
S72.24XA - S72.25XS	Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed fracture - Nondisplaced subtrochanteric fracture of left femur, sequela	
S72.301A - S72.302S	Unspecified fracture of shaft of right femur, initial encounter for closed fracture - Unspecified fracture of shaft of left femur, sequela	
S72.321A - S72.322S	Displaced transverse fracture of shaft of right femur, initial encounter for closed fracture - Displaced transverse fracture of shaft of left femur, sequela	
S72.324A - S72.325S	Nondisplaced transverse fracture of shaft of right femur, initial encounter for closed fracture - Nondisplaced transverse fracture of shaft of left femur, sequela	
S72.331A - S72.332S	Displaced oblique fracture of shaft of right femur, initial encounter for closed fracture - Displaced oblique fracture of shaft of left femur, sequela	
S72.334A - S72.335S	Nondisplaced oblique fracture of shaft of right femur, initial encounter for closed fracture - Nondisplaced oblique fracture of shaft of left femur, sequela	
S72.341A - S72.342S	Displaced spiral fracture of shaft of right femur, initial encounter for closed fracture - Displaced spiral fracture of shaft of left femur, sequela	
S72.344A - S72.345S	Nondisplaced spiral fracture of shaft of right femur, initial encounter for closed fracture - Nondisplaced spiral fracture of shaft of left femur, sequela	
S72.351A - S72.352S	Displaced comminuted fracture of shaft of right femur, initial encounter for closed fracture - Displaced comminuted fracture of shaft of left femur, sequela	
S72.354A - S72.355S	Nondisplaced comminuted fracture of shaft of right femur, initial encounter for closed fracture - Nondisplaced comminuted fracture of shaft of left femur, sequela	
S72.361A - S72.362S	Displaced segmental fracture of shaft of right femur, initial encounter for closed fracture - Displaced segmental fracture of shaft of left femur, sequela	
S72.364A - S72.365S	Nondisplaced segmental fracture of shaft of right femur, initial encounter for closed fracture - Nondisplaced segmental fracture of shaft of left femur, sequela	
S72.391A - S72.392S	Other fracture of shaft of right femur, initial encounter for closed fracture - Other fracture of shaft of left femur, sequela	
S72.401A - S72.402S	Unspecified fracture of lower end of right femur, initial encounter for closed fracture - Unspecified fracture of lower end of left femur, sequela	
S72.411A - S72.412S	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture - Displaced unspecified condyle fracture of lower end of left femur, sequela	
S72.414A - S72.415S	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture - Nondisplaced unspecified condyle fracture of lower end of left femur, sequela	
S72.421A - S72.422S	Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture - Displaced fracture of lateral condyle of left femur, sequela	
S72.424A - S72.425S	Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed fracture - Nondisplaced fracture of lateral condyle of left femur, sequela	

ICD-10 Code	Description	Comments
S72.431A - S72.432S	Displaced fracture of medial condyle of right femur, initial encounter for closed fracture - Displaced fracture of medial condyle of left femur, sequela	
S72.434A - S72.435S	Nondisplaced fracture of medial condyle of right femur, initial encounter for closed fracture - Nondisplaced fracture of medial condyle of left femur, sequela	
S72.441A - S72.442S	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture - Displaced fracture of lower epiphysis (separation) of left femur, sequela	
S72.444A - S72.445S	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture - Nondisplaced fracture of lower epiphysis (separation) of left femur, sequela	
S72.451A - S72.452S	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture - Displaced supracondylar fracture without intracondylar extension of lower end of left femur, sequela	
S72.454A - S72.455S	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture - Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, sequela	
S72.461A - S72.462S	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture - Displaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela	
S72.464A - S72.465S	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture - Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela	
S72.471A - S72.472S	Torus fracture of lower end of right femur, initial encounter for closed fracture - Torus fracture of lower end of left femur, sequela	
S72.491A - S72.492S	Other fracture of lower end of right femur, initial encounter for closed fracture - Other fracture of lower end of left femur, sequela	
S72.8X1A - S72.8X2S	Other fracture of right femur, initial encounter for closed fracture - Other fracture of left femur, sequela	
S72.91XA - S72.92XS	Unspecified fracture of right femur, initial encounter for closed fracture - Unspecified fracture of left femur, sequela	
S76.111A	Strain of right quadriceps muscle, fascia and tendon, initial encounter	
S76.111D	Strain of right quadriceps muscle, fascia and tendon, subsequent encounter	
S76.111S	Strain of right quadriceps muscle, fascia and tendon, sequela	
S76.112A	Strain of left quadriceps muscle, fascia and tendon, initial encounter	
S76.112D	Strain of left quadriceps muscle, fascia and tendon, subsequent encounter	
S76.112S	Strain of left quadriceps muscle, fascia and tendon, sequela	
S76.121A	Laceration of right quadriceps muscle, fascia and tendon, initial encounter	
S76.121D	Laceration of right quadriceps muscle, fascia and tendon, subsequent encounter	
S76.121S	Laceration of right quadriceps muscle, fascia and tendon, sequela	
S76.122A	Laceration of left quadriceps muscle, fascia and tendon, initial encounter	
S76.122D	Laceration of left quadriceps muscle, fascia and tendon, subsequent encounter	
S76.122S	Laceration of left quadriceps muscle, fascia and tendon, sequela	
S79.001A - S79.002S	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture - Unspecified physeal fracture of upper end of left femur, sequela	
S79.011A - S79.012S	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of upper end of left femur, sequela	

ICD-10 Code	Description	Comments
S79.091A - S79.092S	Other physeal fracture of upper end of right femur, initial encounter for closed fracture - Other physeal fracture of upper end of left femur, sequela	
S79.101A - S79.102S	Unspecified physeal fracture of lower end of right femur, initial encounter for closed fracture - Unspecified physeal fracture of lower end of left femur, sequela	
S79.111A - S79.112S	Salter-Harris Type I physeal fracture of lower end of right femur, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of lower end of left femur, sequela	
S79.121A - S79.122S	Salter-Harris Type II physeal fracture of lower end of right femur, initial encounter for closed fracture - Salter-Harris Type II physeal fracture of lower end of left femur, sequela	
S79.131A - S79.132S	Salter-Harris Type III physeal fracture of lower end of right femur, initial encounter for closed fracture - Salter-Harris Type III physeal fracture of lower end of left femur, sequela	
S79.141A - S79.142S	Salter-Harris Type IV physeal fracture of lower end of right femur, initial encounter for closed fracture - Salter-Harris Type IV physeal fracture of lower end of left femur, sequela	
S79.191A - S79.192S	Other physeal fracture of lower end of right femur, initial encounter for closed fracture - Other physeal fracture of lower end of left femur, sequela	
S82.001A - S82.002S	Unspecified fracture of right patella, initial encounter for closed fracture - Unspecified fracture of left patella, sequela	
S82.011A - S82.012S	Displaced osteochondral fracture of right patella, initial encounter for closed fracture - Displaced osteochondral fracture of left patella, sequela	
S82.014A - S82.015S	Nondisplaced osteochondral fracture of right patella, initial encounter for closed fracture - Nondisplaced osteochondral fracture of left patella, sequela	
S82.021A - S82.022S	Displaced longitudinal fracture of right patella, initial encounter for closed fracture - Displaced longitudinal fracture of left patella, sequela	
S82.024A - S82.025S	Nondisplaced longitudinal fracture of right patella, initial encounter for closed fracture - Nondisplaced longitudinal fracture of left patella, sequela	
S82.031A - S82.032S	Displaced transverse fracture of right patella, initial encounter for closed fracture - Displaced transverse fracture of left patella, sequela	
S82.034A - S82.035S	Nondisplaced transverse fracture of right patella, initial encounter for closed fracture - Nondisplaced transverse fracture of left patella, sequela	
S82.041A - S82.042S	Displaced comminuted fracture of right patella, initial encounter for closed fracture - Displaced comminuted fracture of left patella, sequela	
S82.044A - S82.045S	Nondisplaced comminuted fracture of right patella, initial encounter for closed fracture - Nondisplaced comminuted fracture of left patella, sequela	
S82.091A - S82.092S	Other fracture of right patella, initial encounter for closed fracture - Other fracture of left patella, sequela	
S82.101A - S82.102S	Unspecified fracture of upper end of right tibia, initial encounter for closed fracture - Unspecified fracture of upper end of left tibia, sequela	
S82.111A - S82.112S	Displaced fracture of right tibial spine, initial encounter for closed fracture - Displaced fracture of left tibial spine, sequela	
S82.114A - S82.115S	Nondisplaced fracture of right tibial spine, initial encounter for closed fracture - Nondisplaced fracture of left tibial spine, sequela	
S82.121A - S82.122S	Displaced fracture of lateral condyle of right tibia, initial encounter for closed fracture - Displaced fracture of lateral condyle of left tibia, sequela	

ICD-10 Code	Description	Comments
S82.124A - S82.125S	Nondisplaced fracture of lateral condyle of right tibia, initial encounter for closed fracture - Nondisplaced fracture of lateral condyle of left tibia, sequela	
S82.131A - S82.132S	Displaced fracture of medial condyle of right tibia, initial encounter for closed fracture - Displaced fracture of medial condyle of left tibia, sequela	
S82.134A - S82.135S	Nondisplaced fracture of medial condyle of right tibia, initial encounter for closed fracture - Nondisplaced fracture of medial condyle of left tibia, sequela	
S82.141A - S82.142S	Displaced bicondylar fracture of right tibia, initial encounter for closed fracture - Displaced bicondylar fracture of left tibia, sequela	
S82.144A - S82.145S	Nondisplaced bicondylar fracture of right tibia, initial encounter for closed fracture - Nondisplaced bicondylar fracture of left tibia, sequela	
S82.151A - S82.152S	Displaced fracture of right tibial tuberosity, initial encounter for closed fracture - Displaced fracture of left tibial tuberosity, sequela	
S82.154A - S82.155S	Nondisplaced fracture of right tibial tuberosity, initial encounter for closed fracture - Nondisplaced fracture of left tibial tuberosity, sequela	
S82.161A - S82.162S	Torus fracture of upper end of right tibia, initial encounter for closed fracture - Torus fracture of upper end of left tibia, sequela	
S82.191A - S82.192S	Other fracture of upper end of right tibia, initial encounter for closed fracture - Other fracture of upper end of left tibia, sequela	
S82.201A - S82.202S	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture - Unspecified fracture of shaft of left tibia, sequela	
S82.221A - S82.222S	Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture - Displaced transverse fracture of shaft of left tibia, sequela	
S82.224A - S82.225S	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for closed fracture - Nondisplaced transverse fracture of shaft of left tibia, sequela	
S82.231A - S82.232S	Displaced oblique fracture of shaft of right tibia, initial encounter for closed fracture - Displaced oblique fracture of shaft of left tibia, sequela	
S82.234A - S82.235S	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for closed fracture - Nondisplaced oblique fracture of shaft of left tibia, sequela	
S82.241A - S82.242S	Displaced spiral fracture of shaft of right tibia, initial encounter for closed fracture - Displaced spiral fracture of shaft of left tibia, sequela	
S82.244A - S82.245S	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for closed fracture - Nondisplaced spiral fracture of shaft of left tibia, sequela	
S82.251A - S82.252S	Displaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture - Displaced comminuted fracture of shaft of left tibia, sequela	
S82.254A - S82.255S	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture - Nondisplaced comminuted fracture of shaft of left tibia, sequela	
S82.261A - S82.262S	Displaced segmental fracture of shaft of right tibia, initial encounter for closed fracture - Displaced segmental fracture of shaft of left tibia, sequela	
S82.264A - S82.265S	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for closed fracture - Nondisplaced segmental fracture of shaft of left tibia, sequela	
S82.291A - S82.292S	Other fracture of shaft of right tibia, initial encounter for closed fracture - Other fracture of shaft of left tibia, sequela	
S82.301A - S82.302S	Unspecified fracture of lower end of right tibia, initial encounter for closed fracture - Unspecified fracture of lower end of left tibia, sequela	
S82.311A - S82.312S	Torus fracture of lower end of right tibia, initial encounter for closed fracture - Torus fracture of lower end of left tibia, sequela	

ICD-10 Code	Description	Comments
S82.391A - S82.392S	Other fracture of lower end of right tibia, initial encounter for closed fracture - Other fracture of lower end of left tibia, sequela	
S82.401A - S82.402S	Unspecified fracture of shaft of right fibula, initial encounter for closed fracture - Unspecified fracture of shaft of left fibula, sequela	
S82.421A - S82.422S	Displaced transverse fracture of shaft of right fibula, initial encounter for closed fracture - Displaced transverse fracture of shaft of left fibula, sequela	
S82.424A - S82.425S	Nondisplaced transverse fracture of shaft of right fibula, initial encounter for closed fracture - Nondisplaced transverse fracture of shaft of left fibula, sequela	
S82.431A - S82.432S	Displaced oblique fracture of shaft of right fibula, initial encounter for closed fracture - Displaced oblique fracture of shaft of left fibula, sequela	
S82.434A - S82.435S	Nondisplaced oblique fracture of shaft of right fibula, initial encounter for closed fracture - Nondisplaced oblique fracture of shaft of left fibula, sequela	
S82.441A - S82.442S	Displaced spiral fracture of shaft of right fibula, initial encounter for closed fracture - Displaced spiral fracture of shaft of left fibula, sequela	
S82.444A - S82.445S	Nondisplaced spiral fracture of shaft of right fibula, initial encounter for closed fracture - Nondisplaced spiral fracture of shaft of left fibula, sequela	
S82.451A - S82.452S	Displaced comminuted fracture of shaft of right fibula, initial encounter for closed fracture - Displaced comminuted fracture of shaft of left fibula, sequela	
S82.454A - S82.455S	Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for closed fracture - Nondisplaced comminuted fracture of shaft of left fibula, sequela	
S82.461A - S82.462S	Displaced segmental fracture of shaft of right fibula, initial encounter for closed fracture - Displaced segmental fracture of shaft of left fibula, sequela	
S82.464A - S82.465S	Nondisplaced segmental fracture of shaft of right fibula, initial encounter for closed fracture - Nondisplaced segmental fracture of shaft of left fibula, sequela	
S82.491A - S82.492S	Other fracture of shaft of right fibula, initial encounter for closed fracture - Other fracture of shaft of left fibula, sequela	
S82.51XA - S82.52XS	Displaced fracture of medial malleolus of right tibia, initial encounter for closed fracture - Displaced fracture of medial malleolus of left tibia, sequela	
S82.54XA - S82.55XS	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for closed fracture - Nondisplaced fracture of medial malleolus of left tibia, sequela	
S82.61XA - S82.62XS	Displaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture - Displaced fracture of lateral malleolus of left fibula, sequela	
S82.64XA - S82.65XS	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture - Nondisplaced fracture of lateral malleolus of left fibula, sequela	
S82.811A - S82.812S	Torus fracture of upper end of right fibula, initial encounter for closed fracture - Torus fracture of upper end of left fibula, sequela	
S82.821A - S82.822S	Torus fracture of lower end of right fibula, initial encounter for closed fracture - Torus fracture of lower end of left fibula, sequela	
S82.831A - S82.832S	Other fracture of upper and lower end of right fibula, initial encounter for closed fracture - Other fracture of upper and lower end of left fibula, sequela	
S82.841A - S82.842S	Displaced bimalleolar fracture of right lower leg, initial encounter for closed fracture - Displaced bimalleolar fracture of left lower leg, sequela	
S82.844A - S82.845S	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for closed fracture - Nondisplaced bimalleolar fracture of left lower leg, sequela	
S82.851A - S82.852S	Displaced trimalleolar fracture of right lower leg, initial encounter for closed fracture - Displaced trimalleolar fracture of left lower leg, sequela	

ICD-10 Code	Description	Comments
S82.854A - S82.855S	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for closed fracture - Nondisplaced trimalleolar fracture of left lower leg, sequela	
S82.861A - S82.862S	Displaced Maisonneuve's fracture of right leg, initial encounter for closed fracture - Displaced Maisonneuve's fracture of left leg, sequela	
S82.864A - S82.865S	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for closed fracture - Nondisplaced Maisonneuve's fracture of left leg, sequela	
S82.871A - S82.872S	Displaced pilon fracture of right tibia, initial encounter for closed fracture - Displaced pilon fracture of left tibia, sequela	
S82.874A - S82.875S	Nondisplaced pilon fracture of right tibia, initial encounter for closed fracture - Nondisplaced pilon fracture of left tibia, sequela	
S82.891A - S82.892S	Other fracture of right lower leg, initial encounter for closed fracture - Other fracture of left lower leg, sequela	
S82.91XA - S82.92XS	Unspecified fracture of right lower leg, initial encounter for closed fracture - Unspecified fracture of left lower leg, sequela	
S83.001A - S83.002S	Unspecified subluxation of right patella, initial encounter - Unspecified subluxation of left patella, sequela	
S83.004A - S83.005S	Unspecified dislocation of right patella, initial encounter - Unspecified dislocation of left patella, sequela	
S83.011A - S83.012S	Lateral subluxation of right patella, initial encounter - Lateral subluxation of left patella, sequela	
S83.091A - S83.092S	Other subluxation of right patella, initial encounter - Other subluxation of left patella, sequela	
S83.101A - S83.102S	Unspecified subluxation of right knee, initial encounter - Unspecified subluxation of left knee, sequela	
S83.104A - S83.105S	Unspecified dislocation of right knee, initial encounter - Unspecified dislocation of left knee, sequela	
S83.111A - S83.112S	Anterior subluxation of proximal end of tibia, right knee, initial encounter - Anterior subluxation of proximal end of tibia, left knee, sequela	
S83.114A - S83.115S	Anterior dislocation of proximal end of tibia, right knee, initial encounter - Anterior dislocation of proximal end of tibia, left knee, sequela	
S83.121A - S83.122S	Posterior subluxation of proximal end of tibia, right knee, initial encounter - Posterior subluxation of proximal end of tibia, left knee, sequela	
S83.124A - S83.125S	Posterior dislocation of proximal end of tibia, right knee, initial encounter - Posterior dislocation of proximal end of tibia, left knee, sequela	
S83.131A - S83.132S	Medial subluxation of proximal end of tibia, right knee, initial encounter - Medial subluxation of proximal end of tibia, left knee, sequela	
S83.134A - S83.135S	Medial dislocation of proximal end of tibia, right knee, initial encounter - Medial dislocation of proximal end of tibia, left knee, sequela	
S83.141A - S83.142S	Lateral subluxation of proximal end of tibia, right knee, initial encounter - Lateral subluxation of proximal end of tibia, left knee, sequela	
S83.144A - S83.145S	Lateral dislocation of proximal end of tibia, right knee, initial encounter - Lateral dislocation of proximal end of tibia, left knee, sequela	
S83.191A - S83.192S	Other subluxation of right knee, initial encounter - Other subluxation of left knee, sequela	
S83.194A - S83.195S	Other dislocation of right knee, initial encounter - Other dislocation of left knee, sequela	

ICD-10 Code	Description	Comments
S83.200A - S83.201S	Bucket-handle tear of unspecified meniscus, current injury, right knee, initial encounter - Bucket-handle tear of unspecified meniscus, current injury, left knee, sequela	
S83.203A - S83.204S	Other tear of unspecified meniscus, current injury, right knee, initial encounter - Other tear of unspecified meniscus, current injury, left knee, sequela	
S83.206A - S83.207S	Unspecified tear of unspecified meniscus, current injury, right knee, initial encounter - Unspecified tear of unspecified meniscus, current injury, left knee, sequela	
S83.211A - S83.212S	Bucket-handle tear of medial meniscus, current injury, right knee, initial encounter - Bucket-handle tear of medial meniscus, current injury, left knee, sequela	
S83.221A - S83.222A	Peripheral tear of medial meniscus, current injury, right knee, initial encounter - Peripheral tear of medial meniscus, current injury, left knee, initial encounter	
S83.231A - S83.232S	Complex tear of medial meniscus, current injury, right knee, initial encounter - Complex tear of medial meniscus, current injury, left knee, sequela	
S83.241A - S83.242S	Other tear of medial meniscus, current injury, right knee, initial encounter - Other tear of medial meniscus, current injury, left knee, sequela	
S83.251A - S83.252S	Bucket-handle tear of lateral meniscus, current injury, right knee, initial encounter - Bucket-handle tear of lateral meniscus, current injury, left knee, sequela	
S83.261A - S83.262S	Peripheral tear of lateral meniscus, current injury, right knee, initial encounter - Peripheral tear of lateral meniscus, current injury, left knee, sequela	
S83.271A - S83.272S	Complex tear of lateral meniscus, current injury, right knee, initial encounter - Complex tear of lateral meniscus, current injury, left knee, sequela	
S83.281A - S83.282S	Other tear of lateral meniscus, current injury, right knee, initial encounter - Other tear of lateral meniscus, current injury, left knee, sequela	
S83.31XA - S83.32XS	Tear of articular cartilage of right knee, current, initial encounter - Tear of articular cartilage of left knee, current, sequela	
S83.401A - S83.402S	Sprain of unspecified collateral ligament of right knee, initial encounter - Sprain of unspecified collateral ligament of left knee, sequela	
S83.411A - S83.412S	Sprain of medial collateral ligament of right knee, initial encounter - Sprain of medial collateral ligament of left knee, sequela	
S83.421A - S83.422S	Sprain of lateral collateral ligament of right knee, initial encounter - Sprain of lateral collateral ligament of left knee, sequela	
S83.501A - S83.502S	Sprain of unspecified cruciate ligament of right knee, initial encounter - Sprain of unspecified cruciate ligament of left knee, sequela	
S83.511A - S83.512S	Sprain of anterior cruciate ligament of right knee, initial encounter - Sprain of anterior cruciate ligament of left knee, sequela	
S83.521A - S83.522S	Sprain of posterior cruciate ligament of right knee, initial encounter - Sprain of posterior cruciate ligament of left knee, sequela	
S83.8X1A - S83.8X2S	Sprain of other specified parts of right knee, initial encounter - Sprain of other specified parts of left knee, sequela	
S86.111A - S86.112S	Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, right leg, initial encounter - Strain of other muscle(s) and tendon(s) of posterior muscle group at lower leg level, left leg, sequela	
S86.211A - S86.212S	Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, right leg, initial encounter - Strain of muscle(s) and tendon(s) of anterior muscle group at lower leg level, left leg, sequela	
S86.311A - S86.312S	Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, right leg, initial encounter - Strain of muscle(s) and tendon(s) of peroneal muscle group at lower leg level, left leg, sequela	

ICD-10 Code	Description	Comments
S86.811A - S86.812S	Strain of other muscle(s) and tendon(s) at lower leg level, right leg, initial encounter - Strain of other muscle(s) and tendon(s) at lower leg level, left leg, sequela	
S89.001A - S89.002S	Unspecified physeal fracture of upper end of right tibia, initial encounter for closed fracture - Unspecified physeal fracture of upper end of left tibia, sequela	
S89.011A - S89.012S	Salter-Harris Type I physeal fracture of upper end of right tibia, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of upper end of left tibia, sequela	
S89.021A - S89.022S	Salter-Harris Type II physeal fracture of upper end of right tibia, initial encounter for closed fracture - Salter-Harris Type II physeal fracture of upper end of left tibia, sequela	
S89.031A - S89.032S	Salter-Harris Type III physeal fracture of upper end of right tibia, initial encounter for closed fracture - Salter-Harris Type III physeal fracture of upper end of left tibia, sequela	
S89.041A - S89.042S	Salter-Harris Type IV physeal fracture of upper end of right tibia, initial encounter for closed fracture - Salter-Harris Type IV physeal fracture of upper end of left tibia, sequela	
S89.091A - S89.092S	Other physeal fracture of upper end of right tibia, initial encounter for closed fracture - Other physeal fracture of upper end of left tibia, sequela	
S89.101A - S89.102S	Unspecified physeal fracture of lower end of right tibia, initial encounter for closed fracture - Unspecified physeal fracture of lower end of left tibia, sequela	
S89.111A - S89.112S	Salter-Harris Type I physeal fracture of lower end of right tibia, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of lower end of left tibia, sequela	
S89.121A - S89.122S	Salter-Harris Type II physeal fracture of lower end of right tibia, initial encounter for closed fracture - Salter-Harris Type II physeal fracture of lower end of left tibia, sequela	
S89.131A - S89.132S	Salter-Harris Type III physeal fracture of lower end of right tibia, initial encounter for closed fracture - Salter-Harris Type III physeal fracture of lower end of left tibia, sequela	
S89.141A - S89.142S	Salter-Harris Type IV physeal fracture of lower end of right tibia, initial encounter for closed fracture - Salter-Harris Type IV physeal fracture of lower end of left tibia, sequela	
S89.191A - S89.192S	Other physeal fracture of lower end of right tibia, initial encounter for closed fracture - Other physeal fracture of lower end of left tibia, sequela	
S89.201A - S89.202S	Unspecified physeal fracture of upper end of right fibula, initial encounter for closed fracture - Unspecified physeal fracture of upper end of left fibula, sequela	
S89.211A - S89.212S	Salter-Harris Type I physeal fracture of upper end of right fibula, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of upper end of left fibula, sequela	
S89.221A - S89.222S	Salter-Harris Type II physeal fracture of upper end of right fibula, initial encounter for closed fracture - Salter-Harris Type II physeal fracture of upper end of left fibula, sequela	
S89.291A - S89.292S	Other physeal fracture of upper end of right fibula, initial encounter for closed fracture - Other physeal fracture of upper end of left fibula, sequela	
S89.301A - S89.302S	Unspecified physeal fracture of lower end of right fibula, initial encounter for closed fracture - Unspecified physeal fracture of lower end of left fibula, sequela	
S89.311A - S89.312S	Salter-Harris Type I physeal fracture of lower end of right fibula, initial encounter for closed fracture - Salter-Harris Type I physeal fracture of lower end of left fibula, sequela	

ICD-10 Code	Description	Comments
S89.321A - S89.322S	Salter-Harris Type II physeal fracture of lower end of right fibula, initial encounter for closed fracture - Salter-Harris Type II physeal fracture of lower end of left fibula, sequela	
S89.391A - S89.392S	Other physeal fracture of lower end of right fibula, initial encounter for closed fracture - Other physeal fracture of lower end of left fibula, sequela	
T84.012A - T84.013S	Broken internal right knee prosthesis, initial encounter - Broken internal left knee prosthesis, sequela	
T84.022A - T84.023S	Instability of internal right knee prosthesis, initial encounter - Instability of internal left knee prosthesis, sequela	
T84.032A - T84.033S	Mechanical loosening of internal right knee prosthetic joint, initial encounter - Mechanical loosening of internal left knee prosthetic joint, sequela	
T84.052A - T84.053S	Periprosthetic osteolysis of internal prosthetic right knee joint, initial encounter - Periprosthetic osteolysis of internal prosthetic left knee joint, sequela	
T84.062A - T84.063S	Wear of articular bearing surface of internal prosthetic right knee joint, initial encounter - Wear of articular bearing surface of internal prosthetic left knee joint, sequela	
T84.092A - T84.093S	Other mechanical complication of internal right knee prosthesis, initial encounter - Other mechanical complication of internal left knee prosthesis, sequela	
T84.114A - T84.117S	Breakdown (mechanical) of internal fixation device of right femur, initial encounter - Breakdown (mechanical) of internal fixation device of bone of left lower leg, sequela	
T84.124A - T84.127S	Displacement of internal fixation device of right femur, initial encounter - Displacement of internal fixation device of bone of left lower leg, sequela	
T84.194A - T84.197S	Other mechanical complication of internal fixation device of right femur, initial encounter - Other mechanical complication of internal fixation device of bone of left lower leg, sequela	
T84.410A - T84.410S	Breakdown (mechanical) of muscle and tendon graft, initial encounter - Breakdown (mechanical) of muscle and tendon graft, sequela	
T84.420A - T84.420S	Displacement of muscle and tendon graft, initial encounter - Displacement of muscle and tendon graft, sequela	
T84.498A - T84.498S	Other mechanical complication of other internal orthopedic devices, implants and grafts, initial encounter - Other mechanical complication of other internal orthopedic devices, implants and grafts, sequela	
T84.53XA - T84.54XS	Infection and inflammatory reaction due to internal right knee prosthesis, initial encounter - Infection and inflammatory reaction due to internal left knee prosthesis, sequela	
T84.81XA - T84.89XS	Embolism due to internal orthopedic prosthetic devices, implants and grafts, initial encounter - Other specified complication of internal orthopedic prosthetic devices, implants and grafts, sequela	
Z96.651 - Z96.653	Presence of right artificial knee joint - Presence of artificial knee joint, bilateral	