

# Local Coverage Determination (LCD): Total Knee Arthroplasty (L36577)

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## Contractor Information

Contractor Name	Contract Type	Contract Number	Jurisdiction	State(s)
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02101 - MAC A	J - F	Alaska
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02102 - MAC B	J - F	Alaska
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02201 - MAC A	J - F	Idaho
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02202 - MAC B	J - F	Idaho
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02301 - MAC A	J - F	Oregon
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02302 - MAC B	J - F	Oregon
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02401 - MAC A	J - F	Washington
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	02402 - MAC B	J - F	Washington
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03101 - MAC A	J - F	Arizona
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03102 - MAC B	J - F	Arizona
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03201 - MAC A	J - F	Montana
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03202 - MAC B	J - F	Montana
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03301 - MAC A	J - F	North Dakota
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03302 - MAC B	J - F	North Dakota
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03401 - MAC A	J - F	South Dakota
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03402 - MAC B	J - F	South Dakota
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03501 - MAC A	J - F	Utah
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03502 - MAC B	J - F	Utah
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03601 - MAC A	J - F	Wyoming
<a href="#">Noridian Healthcare Solutions, LLC</a>	A and B MAC	03602 - MAC B	J - F	Wyoming

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## LCD Information

### Document Information

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L36577

Original Effective Date  
For services performed on or after 09/07/2016

LCD Title  
Total Knee Arthroplasty

Revision Effective Date  
For services performed on or after 10/01/2016

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CMS National Coverage Policy Language quoted from the Centers for Medicare & Medicaid Services (CMS) National Coverage Determinations (NCDs) and coverage provisions in interpretive manuals is italicized throughout the policy. NCDs and coverage provisions in interpretive manuals are not subject to the Local Coverage Determination (LCD) Review Process (42 CFR 405.860[b] and 42 CFR 426 [Subpart D]). In addition, an administrative law judge may not review a NCD. See §1869(f)(1)(A)(i) of the Social Security Act.

Title XVIII of the Social Security Act, §1862 (a)(1)(A) allows coverage and payment for only those services that are considered to be reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member.

Title XVIII of the Social Security Act, §1833(e) prohibits Medicare payment for any claim which lacks the necessary information to process the claim.

Title 21, Code of Federal Regulations, Chapter 1, Subchapter H, Part 888 orthopedic devices, arthroscope

Title 42, Code of Federal Regulations, §482.24

CMS Manual System, Pub 100-08, *Medicare Program Integrity Manual*, Chapter 6, §6.5.2

CMS Manual System, Pub 100-08, *Medicare Program Integrity Manual*, Chapter 3, §3.4.1.3

Coverage Guidance

### **Coverage Indications, Limitations, and/or Medical Necessity**

Joint replacement surgery has been performed on millions of people over the past several decades and has proved to be an important medical advancement in the field of orthopedic surgery. The hip and knee are the two most commonly replaced joints. The knee is the largest joint in the body and includes the lower end of the femur, the upper end of the tibia and the patella. The knee joint has three compartments, the medial, the lateral and the patellofemoral. The surfaces of these compartments are covered with articular cartilage and are bathed in synovial fluid. The bones of the knee joint work together, allowing the knee to function smoothly.

The most common reason for total knee replacement surgery is arthritis of the knee joint. Types of arthritis include:

- osteoarthritis,
- rheumatoid arthritis and
- traumatic arthritis (arthritis which occurs as a result of injury).

Arthritis causes a severe limitation in the activities of daily living (ADLs), including difficulty with walking, squatting, and climbing stairs. Pain is typically most severe with activity and patients often have difficulty getting mobilized when seated for a long time. Other findings include chronic knee inflammation or swelling not relieved by rest, knee stiffness, lack of pain relief after taking non-steroidal anti-inflammatory medications and failure to achieve symptom improvement with other conservative therapies such as steroid injections and physical therapy.

Osteonecrosis and malignancy are additional reasons to proceed with total knee replacement surgery. The use of TKR in patients with malignancy must be weighed against considerations of life expectancy and possible alternative procedures to relieve pain. The goal of total knee replacement surgery is to relieve pain and improve or increase patient function.

Occasionally, there may be a need to perform a reoperation on a previous total knee replacement. This is often referred to as a revision total knee.

Circumstances that lead to the need for a revision total knee are continued disabling pain, continued decline in function which can be attributed to failure of the primary joint replacement. Failure can be due to infection involving the joint, substantial bone loss in the structures supporting the prosthesis, fracture, aseptic loosening of the components and wear of the prosthetic components.

### **Total Knee Arthroplasty (TKA)**

#### **Indications:**

Noridian will consider total knee replacement surgery medically necessary in the following circumstances:

Advanced joint disease demonstrated by:

- Radiographic supported evidence or when conventional radiography is not adequate, magnetic resonance imaging (MRI) and/or computed tomography (CT) (in situations when MRI is non-diagnostic or not able to be performed) supported evidence (subchondral cysts, subchondral sclerosis, periarticular osteophytes, joint subluxation, joint space narrowing, avascular necrosis); **and**
- Pain or functional disability from injury due to trauma or arthritis of the joint; **and**
- If appropriate, history of unsuccessful conservative therapy (non-surgical medical management) that is clearly addressed in the pre-procedure medical record. **(If conservative therapy is not appropriate, the medical record must clearly document why such approach is not reasonable).** Non-surgical medical management is usually but not always implemented prior to scheduling total joint surgery. Non-surgical treatment as clinically appropriate for the patient's current episode of care typically includes one or more of the following:
  - anti-inflammatory medications or analgesics, or
  - flexibility and muscle strengthening exercises, or
  - supervised physical therapy [Activities of daily living (ADLs) diminished despite completing a plan of care], or
  - assistive device use, or
  - weight reduction as appropriate, or
  - therapeutic injections into the knee as appropriate.

In some circumstances, for example, if the patient has bone on bone articulation, severe deformity, pain or significant disabling interference with activities of daily living, the surgeon may determine that nonsurgical medical management would be ineffective or counterproductive, and that the best treatment option, after explaining the risks, is surgical. If medical management is deemed inappropriate, the medical record should indicate the rationale for and circumstances under which this is the case.

- Failure of a previous osteotomy; or
- Distal femur fracture; or
- Malignancy of the distal femur, proximal tibia, knee joint or adjacent soft tissues; or
- Failure of previous unicompartmental knee replacement; or
- Avascular necrosis of the knee; or
- Proximal tibia fracture

\*See Associated Information - Documentation Requirements section for additional information.

#### **Indications for Replacement/Revision of Total Knee Arthroplasty**

- Loosening of one or more components, or

- Fracture or mechanical failure of one or more component, or
- Infection, or
- Treatment of periprosthetic fracture of distal femur, proximal tibia or patella, or
- Progressive or substantial periprosthetic bone loss, or
- Bearing surface wear leading to symptomatic synovitis, or
- Implant or knee misalignment, or
- Knee stiffness/arthrofibrosis, or
- Tibiofemoral instability, or
- Extensor mechanism instability

### **Limitations**

Noridian will not consider a total knee replacement medically necessary when the following contraindications are present:

- Active infection of the knee joint or active systemic bacteremia
- Active urinary tract or dental infection
- Active skin infection (exception recurrent cutaneous staph infections) or open wound within the planned surgical site of the knee
- Rapidly progressive neurological disease

The following conditions are relative contraindications to total knee replacement and if such surgery is performed in the presence of these conditions, it is expected that the rationale for proceeding with the surgery under such circumstances is clearly documented in the medical record:

- Insufficiency of extensor mechanism/quadriceps
- Any process that is rapidly destroying bone
- Neurotrophic arthritis

This local coverage determination (LCD) is only addressing medical necessity criteria for performing total knee replacement surgery. With respect to knee replacement surgery, there is a form of knee joint replacement surgery called unicompartmental knee replacement. This is typically done for patients with osteoarthritis of the knee in which the damage is contained to one compartment of the knee. The indications outlined in this LCD are not to be applied for unicompartmental knee replacement surgery. Failed previous unicompartmental joint replacement is an indication for performing a total knee arthroplasty.

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## **Coding Information**

Bill Type Codes:

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

999x Not Applicable

Revenue Codes:

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory. Unless specified in the policy, services reported under other Revenue Codes are equally subject to this coverage determination. Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

99999 Not Applicable

CPT/HCPCS Codes

**Group 1 Paragraph: Total Knee Arthroplasty**

**Group 1 Codes:**

- 27445 ARTHROPLASTY, KNEE, HINGE PROSTHESIS (EG, WALLDIUS TYPE)
- 27447 ARTHROPLASTY, KNEE, CONDYLE AND PLATEAU; MEDIAL AND LATERAL COMPARTMENTS WITH OR WITHOUT PATELLA RESURFACING (TOTAL KNEE ARTHROPLASTY)
- 27486 REVISION OF TOTAL KNEE ARTHROPLASTY, WITH OR WITHOUT ALLOGRAFT; 1 COMPONENT
- 27487 REVISION OF TOTAL KNEE ARTHROPLASTY, WITH OR WITHOUT ALLOGRAFT; FEMORAL AND ENTIRE TIBIAL COMPONENT

ICD-10 Codes that Support Medical Necessity

**Group 1 Paragraph: N/A**

**Group 1 Codes:**

ICD-10 Codes	Description
C40.21	Malignant neoplasm of long bones of right lower limb
C40.22	Malignant neoplasm of long bones of left lower limb
D16.21	Benign neoplasm of long bones of right lower limb
D16.22	Benign neoplasm of long bones of left lower limb
L40.50	Arthropathic psoriasis, unspecified
L40.52	Psoriatic arthritis mutilans
L40.53	Psoriatic spondylitis
L40.54	Psoriatic juvenile arthropathy
L40.59	Other psoriatic arthropathy
M05.061	Felty's syndrome, right knee
M05.062	Felty's syndrome, left knee
M05.09	Felty's syndrome, multiple sites
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites
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
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites 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
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites
M06.861	Other specified rheumatoid arthritis, right knee
M06.862	Other specified rheumatoid arthritis, left knee
M06.89	Other specified rheumatoid arthritis, multiple sites
M07.661	Enteropathic arthropathies, right knee

<b>ICD-10 Codes</b>	<b>Description</b>
M07.662	Enteropathic arthropathies, left knee
M08.061	Unspecified juvenile rheumatoid arthritis, right knee
M08.062	Unspecified juvenile rheumatoid arthritis, left knee
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites
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
M08.89	Other juvenile arthritis, multiple sites
M08.961	Juvenile arthritis, unspecified, right knee
M08.962	Juvenile arthritis, unspecified, left knee
M08.99	Juvenile arthritis, unspecified, multiple sites
M12.061	Chronic postrheumatic arthropathy [Jaccoud], right knee
M12.062	Chronic postrheumatic arthropathy [Jaccoud], left knee
M12.09	Chronic postrheumatic arthropathy [Jaccoud], multiple sites
M12.461	Intermittent hydrarthrosis, right knee
M12.462	Intermittent hydrarthrosis, left knee
M12.561	Traumatic arthropathy, right knee
M12.562	Traumatic arthropathy, left knee
M12.861	Other specific arthropathies, not elsewhere classified, right knee
M12.862	Other specific arthropathies, not elsewhere classified, left knee
M13.0	Polyarthritis, unspecified
M13.161	Monoarthritis, not elsewhere classified, right knee
M13.162	Monoarthritis, not elsewhere classified, 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
M23.51	Chronic instability of knee, right knee
M23.52	Chronic instability of knee, left knee
M24.661	Ankylosis, right knee
M24.662	Ankylosis, left knee
M25.261	Flail joint, right knee
M25.262	Flail joint, left knee
M25.361	Other instability, right knee
M25.362	Other instability, left knee
M25.561	Pain in right knee
M25.562	Pain in left knee
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture
M80.051D	Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with routine healing
M80.051G	Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with delayed healing
M80.051K	Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with nonunion
M80.051P	Age-related osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with malunion
M80.051S	Age-related osteoporosis with current pathological fracture, right femur, sequela
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture

<b>ICD-10 Codes</b>	<b>Description</b>
M80.052D	Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with routine healing
M80.052G	Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with delayed healing
M80.052K	Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with nonunion
M80.052P	Age-related osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with malunion
M80.052S	Age-related osteoporosis with current pathological fracture, left femur, sequela
M80.061A	Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture
M80.061D	Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with routine healing
M80.061G	Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with delayed healing
M80.061K	Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with nonunion
M80.061P	Age-related osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with malunion
M80.061S	Age-related osteoporosis with current pathological fracture, right lower leg, sequela
M80.062A	Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture
M80.062D	Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with routine healing
M80.062G	Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with delayed healing
M80.062K	Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with nonunion
M80.062P	Age-related osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with malunion
M80.062S	Age-related osteoporosis with current pathological fracture, left lower leg, sequela
M80.851A	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture
M80.851D	Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with routine healing
M80.851G	Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with delayed healing
M80.851K	Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with nonunion
M80.851P	Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with malunion
M80.851S	Other osteoporosis with current pathological fracture, right femur, sequela
M80.852A	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture
M80.852D	Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with routine healing
M80.852G	Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with delayed healing
M80.852K	Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with nonunion
M80.852P	Other osteoporosis with current pathological fracture, left femur, subsequent encounter for fracture with malunion
M80.852S	Other osteoporosis with current pathological fracture, left femur, sequela
M80.861A	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture
M80.861D	Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with routine healing
M80.861G	Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with delayed healing
M80.861K	Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with nonunion
M80.861P	Other osteoporosis with current pathological fracture, right lower leg, subsequent encounter for fracture with malunion
M80.861S	Other osteoporosis with current pathological fracture, right lower leg, sequela

<b>ICD-10 Codes</b>	<b>Description</b>
M80.862A	Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture
M80.862D	Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with routine healing
M80.862G	Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with delayed healing
M80.862K	Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with nonunion
M80.862P	Other osteoporosis with current pathological fracture, left lower leg, subsequent encounter for fracture with malunion
M80.862S	Other osteoporosis with current pathological fracture, left lower leg, sequela
M84.351A	Stress fracture, right femur, initial encounter for fracture
M84.351D	Stress fracture, right femur, subsequent encounter for fracture with routine healing
M84.351G	Stress fracture, right femur, subsequent encounter for fracture with delayed healing
M84.351K	Stress fracture, right femur, subsequent encounter for fracture with nonunion
M84.351P	Stress fracture, right femur, subsequent encounter for fracture with malunion
M84.351S	Stress fracture, right femur, sequela
M84.352A	Stress fracture, left femur, initial encounter for fracture
M84.352D	Stress fracture, left femur, subsequent encounter for fracture with routine healing
M84.352G	Stress fracture, left femur, subsequent encounter for fracture with delayed healing
M84.352K	Stress fracture, left femur, subsequent encounter for fracture with nonunion
M84.352P	Stress fracture, left femur, subsequent encounter for fracture with malunion
M84.352S	Stress fracture, left femur, sequela
M84.361A	Stress fracture, right tibia, initial encounter for fracture
M84.361D	Stress fracture, right tibia, subsequent encounter for fracture with routine healing
M84.361G	Stress fracture, right tibia, subsequent encounter for fracture with delayed healing
M84.361K	Stress fracture, right tibia, subsequent encounter for fracture with nonunion
M84.361P	Stress fracture, right tibia, subsequent encounter for fracture with malunion
M84.361S	Stress fracture, right tibia, sequela
M84.362A	Stress fracture, left tibia, initial encounter for fracture
M84.362D	Stress fracture, left tibia, subsequent encounter for fracture with routine healing
M84.362G	Stress fracture, left tibia, subsequent encounter for fracture with delayed healing
M84.362K	Stress fracture, left tibia, subsequent encounter for fracture with nonunion
M84.362P	Stress fracture, left tibia, subsequent encounter for fracture with malunion
M84.362S	Stress fracture, left tibia, sequela
M84.451A	Pathological fracture, right femur, initial encounter for fracture
M84.451D	Pathological fracture, right femur, subsequent encounter for fracture with routine healing
M84.451G	Pathological fracture, right femur, subsequent encounter for fracture with delayed healing
M84.451K	Pathological fracture, right femur, subsequent encounter for fracture with nonunion
M84.451P	Pathological fracture, right femur, subsequent encounter for fracture with malunion
M84.451S	Pathological fracture, right femur, sequela
M84.452A	Pathological fracture, left femur, initial encounter for fracture
M84.452D	Pathological fracture, left femur, subsequent encounter for fracture with routine healing
M84.452G	Pathological fracture, left femur, subsequent encounter for fracture with delayed healing
M84.452K	Pathological fracture, left femur, subsequent encounter for fracture with nonunion
M84.452P	Pathological fracture, left femur, subsequent encounter for fracture with malunion
M84.452S	Pathological fracture, left femur, sequela
M84.461A	Pathological fracture, right tibia, initial encounter for fracture
M84.461D	Pathological fracture, right tibia, subsequent encounter for fracture with routine healing
M84.461G	Pathological fracture, right tibia, subsequent encounter for fracture with delayed healing
M84.461K	Pathological fracture, right tibia, subsequent encounter for fracture with nonunion
M84.461P	Pathological fracture, right tibia, subsequent encounter for fracture with malunion
M84.461S	Pathological fracture, right tibia, sequela
M84.462A	Pathological fracture, left tibia, initial encounter for fracture
M84.462D	Pathological fracture, left tibia, subsequent encounter for fracture with routine healing
M84.462G	Pathological fracture, left tibia, subsequent encounter for fracture with delayed healing
M84.462K	Pathological fracture, left tibia, subsequent encounter for fracture with nonunion
M84.462P	Pathological fracture, left tibia, subsequent encounter for fracture with malunion
M84.462S	Pathological fracture, left tibia, sequela



<b>ICD-10 Codes</b>	<b>Description</b>
M84.551A	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture
M84.551D	Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with routine healing
M84.551G	Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with delayed healing
M84.551K	Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with nonunion
M84.551P	Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with malunion
M84.551S	Pathological fracture in neoplastic disease, right femur, sequela
M84.552A	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture
M84.552D	Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with routine healing
M84.552G	Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with delayed healing
M84.552K	Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with nonunion
M84.552P	Pathological fracture in neoplastic disease, left femur, subsequent encounter for fracture with malunion
M84.552S	Pathological fracture in neoplastic disease, left femur, sequela
M84.561A	Pathological fracture in neoplastic disease, right tibia, initial encounter for fracture
M84.561D	Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with routine healing
M84.561G	Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with delayed healing
M84.561K	Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with nonunion
M84.561P	Pathological fracture in neoplastic disease, right tibia, subsequent encounter for fracture with malunion
M84.561S	Pathological fracture in neoplastic disease, right tibia, sequela
M84.562A	Pathological fracture in neoplastic disease, left tibia, initial encounter for fracture
M84.562D	Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with routine healing
M84.562G	Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with delayed healing
M84.562K	Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with nonunion
M84.562P	Pathological fracture in neoplastic disease, left tibia, subsequent encounter for fracture with malunion
M84.562S	Pathological fracture in neoplastic disease, left tibia, sequela
M84.651A	Pathological fracture in other disease, right femur, initial encounter for fracture
M84.651D	Pathological fracture in other disease, right femur, subsequent encounter for fracture with routine healing
M84.651G	Pathological fracture in other disease, right femur, subsequent encounter for fracture with delayed healing
M84.651K	Pathological fracture in other disease, right femur, subsequent encounter for fracture with nonunion
M84.651P	Pathological fracture in other disease, right femur, subsequent encounter for fracture with malunion
M84.651S	Pathological fracture in other disease, right femur, sequela
M84.652A	Pathological fracture in other disease, left femur, initial encounter for fracture
M84.652D	Pathological fracture in other disease, left femur, subsequent encounter for fracture with routine healing
M84.652G	Pathological fracture in other disease, left femur, subsequent encounter for fracture with delayed healing
M84.652K	Pathological fracture in other disease, left femur, subsequent encounter for fracture with nonunion
M84.652P	Pathological fracture in other disease, left femur, subsequent encounter for fracture with malunion
M84.652S	Pathological fracture in other disease, left femur, sequela
M84.661A	Pathological fracture in other disease, right tibia, initial encounter for fracture
M84.661D	Pathological fracture in other disease, right tibia, subsequent encounter for fracture with routine healing
M84.661G	

<b>ICD-10 Codes</b>	<b>Description</b>
	Pathological fracture in other disease, right tibia, subsequent encounter for fracture with delayed healing
M84.661K	Pathological fracture in other disease, right tibia, subsequent encounter for fracture with nonunion
M84.661P	Pathological fracture in other disease, right tibia, subsequent encounter for fracture with malunion
M84.661S	Pathological fracture in other disease, right tibia, sequela
M84.662A	Pathological fracture in other disease, left tibia, initial encounter for fracture
M84.662D	Pathological fracture in other disease, left tibia, subsequent encounter for fracture with routine healing
M84.662G	Pathological fracture in other disease, left tibia, subsequent encounter for fracture with delayed healing
M84.662K	Pathological fracture in other disease, left tibia, subsequent encounter for fracture with nonunion
M84.662P	Pathological fracture in other disease, left tibia, subsequent encounter for fracture with malunion
M84.662S	Pathological fracture in other disease, left tibia, sequela
M87.051	Idiopathic aseptic necrosis of right femur
M87.052	Idiopathic aseptic necrosis of left femur
M87.061	Idiopathic aseptic necrosis of right tibia
M87.062	Idiopathic aseptic necrosis of left tibia
M87.151	Osteonecrosis due to drugs, right femur
M87.152	Osteonecrosis due to drugs, left femur
M87.251	Osteonecrosis due to previous trauma, right femur
M87.252	Osteonecrosis due to previous trauma, left femur
M87.261	Osteonecrosis due to previous trauma, right tibia
M87.262	Osteonecrosis due to previous trauma, left tibia
M87.351	Other secondary osteonecrosis, right femur
M87.352	Other secondary osteonecrosis, left femur
M87.361	Other secondary osteonecrosis, right tibia
M87.362	Other secondary osteonecrosis, left tibia
M87.851	Other osteonecrosis, right femur
M87.852	Other osteonecrosis, left femur
M87.861	Other osteonecrosis, right tibia
M87.862	Other osteonecrosis, left tibia
M88.851	Osteitis deformans of right thigh
M88.852	Osteitis deformans of left thigh
M88.861	Osteitis deformans of right lower leg
M88.862	Osteitis deformans of left lower leg
M88.89	Osteitis deformans of multiple sites
M90.551	Osteonecrosis in diseases classified elsewhere, right thigh
M90.552	Osteonecrosis in diseases classified elsewhere, left thigh
M90.561	Osteonecrosis in diseases classified elsewhere, right lower leg
M90.562	Osteonecrosis in diseases classified elsewhere, left lower leg
M97.11XA	Periprosthetic fracture around internal prosthetic right knee joint, initial encounter
M97.11XD	Periprosthetic fracture around internal prosthetic right knee joint, subsequent encounter
M97.11XS	Periprosthetic fracture around internal prosthetic right knee joint, sequela
M97.12XA	Periprosthetic fracture around internal prosthetic left knee joint, initial encounter
M97.12XD	Periprosthetic fracture around internal prosthetic left knee joint, subsequent encounter
M97.12XS	Periprosthetic fracture around internal prosthetic left knee joint, sequela
S72.401A	Unspecified fracture of lower end of right femur, initial encounter for closed fracture
S72.401B	Unspecified fracture of lower end of right femur, initial encounter for open fracture type I or II
S72.401C	Unspecified fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.401D	Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.401E	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.401F	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.401G	Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing

<b>ICD-10 Codes</b>	<b>Description</b>
S72.401H	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.401J	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.401K	Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.401M	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.401N	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.401P	Unspecified fracture of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.401Q	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.401R	Unspecified fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.401S	Unspecified fracture of lower end of right femur, sequela
S72.402A	Unspecified fracture of lower end of left femur, initial encounter for closed fracture
S72.402B	Unspecified fracture of lower end of left femur, initial encounter for open fracture type I or II
S72.402C	Unspecified fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.402D	Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.402E	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.402F	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.402G	Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.402H	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.402J	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.402K	Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.402M	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.402N	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.402P	Unspecified fracture of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.402Q	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.402R	Unspecified fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.402S	Unspecified fracture of lower end of left femur, sequela
S72.411A	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture
S72.411B	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II
S72.411C	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.411D	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.411E	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.411F	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.411G	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.411H	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.411J	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.411K	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.411M	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.411N	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.411P	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.411Q	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.411R	Displaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.411S	Displaced unspecified condyle fracture of lower end of right femur, sequela
S72.412A	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture
S72.412B	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II
S72.412C	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.412D	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.412E	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.412F	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.412G	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.412H	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.412J	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.412K	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.412M	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.412N	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.412P	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.412Q	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.412R	Displaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.412S	Displaced unspecified condyle fracture of lower end of left femur, sequela
S72.414A	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture
S72.414B	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II
S72.414C	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.414D	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.414E	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.414F	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.414G	

<b>ICD-10 Codes</b>	<b>Description</b>
	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.414H	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.414J	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.414K	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.414M	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.414N	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.414P	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.414Q	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.414R	Nondisplaced unspecified condyle fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.414S	Nondisplaced unspecified condyle fracture of lower end of right femur, sequela
S72.415A	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture
S72.415B	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II
S72.415C	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.415D	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.415E	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.415F	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.415G	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.415H	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.415J	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.415K	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.415M	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.415N	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.415P	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.415Q	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.415R	Nondisplaced unspecified condyle fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.415S	Nondisplaced unspecified condyle fracture of lower end of left femur, sequela
S72.421A	Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture
S72.421B	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II
S72.421C	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.421D	Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with routine healing
S72.421E	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.421F	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.421G	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with delayed healing
S72.421H	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.421J	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.421K	Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with nonunion
S72.421M	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.421N	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.421P	Displaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with malunion
S72.421Q	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with malunion
S72.421R	Displaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.421S	Displaced fracture of lateral condyle of right femur, sequela
S72.422A	Displaced fracture of lateral condyle of left femur, initial encounter for closed fracture
S72.422B	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II
S72.422C	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.422D	Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with routine healing
S72.422E	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.422F	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.422G	Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with delayed healing
S72.422H	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.422J	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.422K	Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with nonunion
S72.422M	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.422N	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.422P	Displaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with malunion
S72.422Q	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with malunion
S72.422R	Displaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.422S	Displaced fracture of lateral condyle of left femur, sequela
S72.424A	Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed fracture
S72.424B	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II
S72.424C	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.424D	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with routine healing
S72.424E	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.424F	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.424G	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with delayed healing

<b>ICD-10 Codes</b>	<b>Description</b>
S72.424H	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.424J	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.424K	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with nonunion
S72.424M	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.424N	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.424P	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for closed fracture with malunion
S72.424Q	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type I or II with malunion
S72.424R	Nondisplaced fracture of lateral condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.424S	Nondisplaced fracture of lateral condyle of right femur, sequela
S72.425A	Nondisplaced fracture of lateral condyle of left femur, initial encounter for closed fracture
S72.425B	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II
S72.425C	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.425D	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with routine healing
S72.425E	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.425F	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.425G	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with delayed healing
S72.425H	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.425J	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.425K	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with nonunion
S72.425M	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.425N	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.425P	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for closed fracture with malunion
S72.425Q	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type I or II with malunion
S72.425R	Nondisplaced fracture of lateral condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.425S	Nondisplaced fracture of lateral condyle of left femur, sequela
S72.431A	Displaced fracture of medial condyle of right femur, initial encounter for closed fracture
S72.431B	Displaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II
S72.431C	Displaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.431D	Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with routine healing
S72.431E	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.431F	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.431G	Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with delayed healing
S72.431H	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.431J	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.431K	Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with nonunion
S72.431M	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.431N	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.431P	Displaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with malunion
S72.431Q	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with malunion
S72.431R	Displaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.431S	Displaced fracture of medial condyle of right femur, sequela
S72.432A	Displaced fracture of medial condyle of left femur, initial encounter for closed fracture
S72.432B	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II
S72.432C	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.432D	Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with routine healing
S72.432E	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.432F	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.432G	Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with delayed healing
S72.432H	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.432J	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.432K	Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with nonunion
S72.432M	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.432N	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.432P	Displaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with malunion
S72.432Q	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with malunion
S72.432R	Displaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.432S	Displaced fracture of medial condyle of left femur, sequela
S72.434A	Nondisplaced fracture of medial condyle of right femur, initial encounter for closed fracture
S72.434B	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II
S72.434C	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.434D	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with routine healing
S72.434E	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.434F	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.434G	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with delayed healing
S72.434H	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.434J	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing



<b>ICD-10 Codes</b>	<b>Description</b>
S72.434K	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with nonunion
S72.434M	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.434N	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.434P	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for closed fracture with malunion
S72.434Q	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type I or II with malunion
S72.434R	Nondisplaced fracture of medial condyle of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.434S	Nondisplaced fracture of medial condyle of right femur, sequela
S72.435A	Nondisplaced fracture of medial condyle of left femur, initial encounter for closed fracture
S72.435B	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II
S72.435C	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.435D	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with routine healing
S72.435E	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.435F	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.435G	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with delayed healing
S72.435H	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.435J	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.435K	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with nonunion
S72.435M	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.435N	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.435P	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for closed fracture with malunion
S72.435Q	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type I or II with malunion
S72.435R	Nondisplaced fracture of medial condyle of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.435S	Nondisplaced fracture of medial condyle of left femur, sequela
S72.441A	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture
S72.441B	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II
S72.441C	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.441D	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with routine healing
S72.441E	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.441F	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.441G	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with delayed healing
S72.441H	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.441J	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.441K	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with nonunion

<b>ICD-10 Codes</b>	<b>Description</b>
S72.441M	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.441N	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.441P	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with malunion
S72.441Q	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with malunion
S72.441R	Displaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.441S	Displaced fracture of lower epiphysis (separation) of right femur, sequela
S72.442A	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for closed fracture
S72.442B	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II
S72.442C	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.442D	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with routine healing
S72.442E	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.442F	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.442G	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with delayed healing
S72.442H	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.442J	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.442K	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with nonunion
S72.442M	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.442N	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.442P	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with malunion
S72.442Q	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with malunion
S72.442R	Displaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.442S	Displaced fracture of lower epiphysis (separation) of left femur, sequela
S72.444A	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture
S72.444B	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II
S72.444C	Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.444D	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with routine healing
S72.444E	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.444F	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.444G	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with delayed healing
S72.444H	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.444J	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.444K	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with nonunion

<b>ICD-10 Codes</b>	<b>Description</b>
S72.444M	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.444N	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.444P	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for closed fracture with malunion
S72.444Q	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type I or II with malunion
S72.444R	Nondisplaced fracture of lower epiphysis (separation) of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.444S	Nondisplaced fracture of lower epiphysis (separation) of right femur, sequela
S72.445A	Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for closed fracture
S72.445B	Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II
S72.445C	Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.445D	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with routine healing
S72.445E	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.445F	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.445G	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with delayed healing
S72.445H	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.445J	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.445K	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with nonunion
S72.445M	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.445N	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.445P	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for closed fracture with malunion
S72.445Q	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type I or II with malunion
S72.445R	Nondisplaced fracture of lower epiphysis (separation) of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.445S	Nondisplaced fracture of lower epiphysis (separation) of left femur, sequela
S72.451A	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture
S72.451B	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II
S72.451C	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.451D	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.451E	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.451F	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.451G	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.451H	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.451J	Displaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.451K	



<b>ICD-10 Codes</b>	<b>Description</b>
S72.454J	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.454K	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.454M	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.454N	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.454P	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.454Q	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.454R	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.454S	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, sequela
S72.455A	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture
S72.455B	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II
S72.455C	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.455D	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.455E	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.455F	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.455G	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.455H	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.455J	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.455K	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.455M	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.455N	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.455P	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.455Q	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.455R	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.455S	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, sequela
S72.461A	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture
S72.461B	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II
S72.461C	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.461D	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.461E	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.461F	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.461G	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.461H	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.461J	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.461K	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.461M	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.461N	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.461P	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.461Q	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.461R	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.461S	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, sequela
S72.462A	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture
S72.462B	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II
S72.462C	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.462D	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.462E	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.462F	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.462G	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.462H	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.462J	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.462K	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.462M	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.462N	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.462P	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.462Q	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.462R	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.462S	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela
S72.464A	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture
S72.464B	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II
S72.464C	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.464D	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.464E	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.464F	

<b>ICD-10 Codes</b>	<b>Description</b>
	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.464G	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.464H	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.464J	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.464K	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.464M	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.464N	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.464P	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.464Q	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.464R	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.464S	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, sequela
S72.465A	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture
S72.465B	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II
S72.465C	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.465D	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.465E	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.465F	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.465G	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.465H	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.465J	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.465K	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.465M	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.465N	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.465P	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.465Q	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.465R	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.465S	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, sequela
S72.471A	Torus fracture of lower end of right femur, initial encounter for closed fracture
S72.471D	Torus fracture of lower end of right femur, subsequent encounter for fracture with routine healing
S72.471G	Torus fracture of lower end of right femur, subsequent encounter for fracture with delayed healing
S72.471K	Torus fracture of lower end of right femur, subsequent encounter for fracture with nonunion
S72.471P	Torus fracture of lower end of right femur, subsequent encounter for fracture with malunion
S72.471S	Torus fracture of lower end of right femur, sequela
S72.472A	Torus fracture of lower end of left femur, initial encounter for closed fracture
S72.472D	Torus fracture of lower end of left femur, subsequent encounter for fracture with routine healing

<b>ICD-10 Codes</b>	<b>Description</b>
S72.472G	Torus fracture of lower end of left femur, subsequent encounter for fracture with delayed healing
S72.472K	Torus fracture of lower end of left femur, subsequent encounter for fracture with nonunion
S72.472P	Torus fracture of lower end of left femur, subsequent encounter for fracture with malunion
S72.472S	Torus fracture of lower end of left femur, sequela
S72.491A	Other fracture of lower end of right femur, initial encounter for closed fracture
S72.491B	Other fracture of lower end of right femur, initial encounter for open fracture type I or II
S72.491C	Other fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.491D	Other fracture of lower end of right femur, subsequent encounter for closed fracture with routine healing
S72.491E	Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.491F	Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.491G	Other fracture of lower end of right femur, subsequent encounter for closed fracture with delayed healing
S72.491H	Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.491J	Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.491K	Other fracture of lower end of right femur, subsequent encounter for closed fracture with nonunion
S72.491M	Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.491N	Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.491P	Other fracture of lower end of right femur, subsequent encounter for closed fracture with malunion
S72.491Q	Other fracture of lower end of right femur, subsequent encounter for open fracture type I or II with malunion
S72.491R	Other fracture of lower end of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.491S	Other fracture of lower end of right femur, sequela
S72.492A	Other fracture of lower end of left femur, initial encounter for closed fracture
S72.492B	Other fracture of lower end of left femur, initial encounter for open fracture type I or II
S72.492C	Other fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.492D	Other fracture of lower end of left femur, subsequent encounter for closed fracture with routine healing
S72.492E	Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.492F	Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.492G	Other fracture of lower end of left femur, subsequent encounter for closed fracture with delayed healing
S72.492H	Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.492J	Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.492K	Other fracture of lower end of left femur, subsequent encounter for closed fracture with nonunion
S72.492M	Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.492N	Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.492P	Other fracture of lower end of left femur, subsequent encounter for closed fracture with malunion
S72.492Q	Other fracture of lower end of left femur, subsequent encounter for open fracture type I or II with malunion
S72.492R	Other fracture of lower end of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.492S	Other fracture of lower end of left femur, sequela
S72.8X1A	Other fracture of right femur, initial encounter for closed fracture
S72.8X1B	Other fracture of right femur, initial encounter for open fracture type I or II
S72.8X1C	Other fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.8X1D	Other fracture of right femur, subsequent encounter for closed fracture with routine healing



<b>ICD-10 Codes</b>	<b>Description</b>
S72.8X1E	Other fracture of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.8X1F	Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.8X1G	Other fracture of right femur, subsequent encounter for closed fracture with delayed healing
S72.8X1H	Other fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.8X1J	Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.8X1K	Other fracture of right femur, subsequent encounter for closed fracture with nonunion
S72.8X1M	Other fracture of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.8X1N	Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.8X1P	Other fracture of right femur, subsequent encounter for closed fracture with malunion
S72.8X1Q	Other fracture of right femur, subsequent encounter for open fracture type I or II with malunion
S72.8X1R	Other fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.8X1S	Other fracture of right femur, sequela
S72.8X2A	Other fracture of left femur, initial encounter for closed fracture
S72.8X2B	Other fracture of left femur, initial encounter for open fracture type I or II
S72.8X2C	Other fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.8X2D	Other fracture of left femur, subsequent encounter for closed fracture with routine healing
S72.8X2E	Other fracture of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.8X2F	Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.8X2G	Other fracture of left femur, subsequent encounter for closed fracture with delayed healing
S72.8X2H	Other fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.8X2J	Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.8X2K	Other fracture of left femur, subsequent encounter for closed fracture with nonunion
S72.8X2M	Other fracture of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.8X2N	Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.8X2P	Other fracture of left femur, subsequent encounter for closed fracture with malunion
S72.8X2Q	Other fracture of left femur, subsequent encounter for open fracture type I or II with malunion
S72.8X2R	Other fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.8X2S	Other fracture of left femur, sequela
S72.91XA	Unspecified fracture of right femur, initial encounter for closed fracture
S72.91XB	Unspecified fracture of right femur, initial encounter for open fracture type I or II
S72.91XC	Unspecified fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.91XD	Unspecified fracture of right femur, subsequent encounter for closed fracture with routine healing
S72.91XE	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with routine healing
S72.91XF	Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.91XG	Unspecified fracture of right femur, subsequent encounter for closed fracture with delayed healing
S72.91XH	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with delayed healing
S72.91XJ	Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.91XK	Unspecified fracture of right femur, subsequent encounter for closed fracture with nonunion
S72.91XM	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with nonunion
S72.91XN	Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.91XP	Unspecified fracture of right femur, subsequent encounter for closed fracture with malunion
S72.91XQ	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with malunion

<b>ICD-10 Codes</b>	<b>Description</b>
S72.91XR	Unspecified fracture of right femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.91XS	Unspecified fracture of right femur, sequela
S72.92XA	Unspecified fracture of left femur, initial encounter for closed fracture
S72.92XB	Unspecified fracture of left femur, initial encounter for open fracture type I or II
S72.92XC	Unspecified fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC
S72.92XD	Unspecified fracture of left femur, subsequent encounter for closed fracture with routine healing
S72.92XE	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with routine healing
S72.92XF	Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S72.92XG	Unspecified fracture of left femur, subsequent encounter for closed fracture with delayed healing
S72.92XH	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with delayed healing
S72.92XJ	Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S72.92XK	Unspecified fracture of left femur, subsequent encounter for closed fracture with nonunion
S72.92XM	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with nonunion
S72.92XN	Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S72.92XP	Unspecified fracture of left femur, subsequent encounter for closed fracture with malunion
S72.92XQ	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with malunion
S72.92XR	Unspecified fracture of left femur, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S72.92XS	Unspecified fracture of left femur, sequela
S79.101A	Unspecified physeal fracture of lower end of right femur, initial encounter for closed fracture
S79.101D	Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing
S79.101G	Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing
S79.101K	Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion
S79.101P	Unspecified physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion
S79.101S	Unspecified physeal fracture of lower end of right femur, sequela
S79.102A	Unspecified physeal fracture of lower end of left femur, initial encounter for closed fracture
S79.102D	Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing
S79.102G	Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing
S79.102K	Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion
S79.102P	Unspecified physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion
S79.102S	Unspecified physeal fracture of lower end of left femur, sequela
S79.191A	Other physeal fracture of lower end of right femur, initial encounter for closed fracture
S79.191D	Other physeal fracture of lower end of right femur, subsequent encounter for fracture with routine healing
S79.191G	Other physeal fracture of lower end of right femur, subsequent encounter for fracture with delayed healing
S79.191K	Other physeal fracture of lower end of right femur, subsequent encounter for fracture with nonunion
S79.191P	Other physeal fracture of lower end of right femur, subsequent encounter for fracture with malunion
S79.191S	Other physeal fracture of lower end of right femur, sequela
S79.192A	Other physeal fracture of lower end of left femur, initial encounter for closed fracture
S79.192D	Other physeal fracture of lower end of left femur, subsequent encounter for fracture with routine healing
S79.192G	Other physeal fracture of lower end of left femur, subsequent encounter for fracture with delayed healing
S79.192K	Other physeal fracture of lower end of left femur, subsequent encounter for fracture with nonunion
S79.192P	Other physeal fracture of lower end of left femur, subsequent encounter for fracture with malunion

<b>ICD-10 Codes</b>	<b>Description</b>
S79.192S	Other physeal fracture of lower end of left femur, sequela
S82.101A	Unspecified fracture of upper end of right tibia, initial encounter for closed fracture
S82.101B	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II
S82.101C	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.101D	Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with routine healing
S82.101E	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.101F	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.101G	Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with delayed healing
S82.101H	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.101J	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.101K	Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with nonunion
S82.101M	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.101N	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.101P	Unspecified fracture of upper end of right tibia, subsequent encounter for closed fracture with malunion
S82.101Q	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.101R	Unspecified fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.101S	Unspecified fracture of upper end of right tibia, sequela
S82.102A	Unspecified fracture of upper end of left tibia, initial encounter for closed fracture
S82.102B	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II
S82.102C	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.102D	Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with routine healing
S82.102E	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.102F	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.102G	Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with delayed healing
S82.102H	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.102J	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.102K	Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with nonunion
S82.102M	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.102N	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.102P	Unspecified fracture of upper end of left tibia, subsequent encounter for closed fracture with malunion
S82.102Q	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.102R	Unspecified fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.102S	Unspecified fracture of upper end of left tibia, sequela
S82.161A	Torus fracture of upper end of right tibia, initial encounter for closed fracture
S82.161D	Torus fracture of upper end of right tibia, subsequent encounter for fracture with routine healing

<b>ICD-10 Codes</b>	<b>Description</b>
S82.161G	Torus fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing
S82.161K	Torus fracture of upper end of right tibia, subsequent encounter for fracture with nonunion
S82.161P	Torus fracture of upper end of right tibia, subsequent encounter for fracture with malunion
S82.161S	Torus fracture of upper end of right tibia, sequela
S82.162A	Torus fracture of upper end of left tibia, initial encounter for closed fracture
S82.162D	Torus fracture of upper end of left tibia, subsequent encounter for fracture with routine healing
S82.162G	Torus fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing
S82.162K	Torus fracture of upper end of left tibia, subsequent encounter for fracture with nonunion
S82.162P	Torus fracture of upper end of left tibia, subsequent encounter for fracture with malunion
S82.162S	Torus fracture of upper end of left tibia, sequela
S82.191A	Other fracture of upper end of right tibia, initial encounter for closed fracture
S82.191B	Other fracture of upper end of right tibia, initial encounter for open fracture type I or II
S82.191C	Other fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.191D	Other fracture of upper end of right tibia, subsequent encounter for closed fracture with routine healing
S82.191E	Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.191F	Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.191G	Other fracture of upper end of right tibia, subsequent encounter for closed fracture with delayed healing
S82.191H	Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.191J	Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.191K	Other fracture of upper end of right tibia, subsequent encounter for closed fracture with nonunion
S82.191M	Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.191N	Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.191P	Other fracture of upper end of right tibia, subsequent encounter for closed fracture with malunion
S82.191Q	Other fracture of upper end of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.191R	Other fracture of upper end of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.191S	Other fracture of upper end of right tibia, sequela
S82.192A	Other fracture of upper end of left tibia, initial encounter for closed fracture
S82.192B	Other fracture of upper end of left tibia, initial encounter for open fracture type I or II
S82.192C	Other fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.192D	Other fracture of upper end of left tibia, subsequent encounter for closed fracture with routine healing
S82.192E	Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.192F	Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.192G	Other fracture of upper end of left tibia, subsequent encounter for closed fracture with delayed healing
S82.192H	Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.192J	Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.192K	Other fracture of upper end of left tibia, subsequent encounter for closed fracture with nonunion
S82.192M	Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.192N	Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.192P	Other fracture of upper end of left tibia, subsequent encounter for closed fracture with malunion
S82.192Q	Other fracture of upper end of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.192R	

<b>ICD-10 Codes</b>	<b>Description</b>
	Other fracture of upper end of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.192S	Other fracture of upper end of left tibia, sequela
S82.201A	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture
S82.201B	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.201C	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.201D	Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.201E	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.201F	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.201G	Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.201H	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.201J	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.201K	Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.201M	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.201N	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.201P	Unspecified fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.201Q	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.201R	Unspecified fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.201S	Unspecified fracture of shaft of right tibia, sequela
S82.202A	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture
S82.202B	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.202C	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.202D	Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.202E	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.202F	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.202G	Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.202H	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.202J	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.202K	Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.202M	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.202N	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.202P	Unspecified fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.202Q	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.202R	Unspecified fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.202S	Unspecified fracture of shaft of left tibia, sequela
S82.221A	Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture
S82.221B	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.221C	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.221D	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.221E	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.221F	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.221G	Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.221H	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.221J	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.221K	Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.221M	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.221N	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.221P	Displaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.221Q	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.221R	Displaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.221S	Displaced transverse fracture of shaft of right tibia, sequela
S82.222A	Displaced transverse fracture of shaft of left tibia, initial encounter for closed fracture
S82.222B	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.222C	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.222D	Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.222E	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.222F	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.222G	Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.222H	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.222J	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.222K	Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.222M	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.222N	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.222P	Displaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.222Q	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.222R	Displaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.222S	Displaced transverse fracture of shaft of left tibia, sequela
S82.224A	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for closed fracture
S82.224B	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.224C	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.224D	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing

<b>ICD-10 Codes</b>	<b>Description</b>
S82.224E	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.224F	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.224G	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.224H	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.224J	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.224K	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.224M	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.224N	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.224P	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.224Q	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.224R	Nondisplaced transverse fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.224S	Nondisplaced transverse fracture of shaft of right tibia, sequela
S82.225A	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for closed fracture
S82.225B	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.225C	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.225D	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.225E	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.225F	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.225G	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.225H	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.225J	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.225K	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.225M	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.225N	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.225P	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.225Q	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.225R	Nondisplaced transverse fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.225S	Nondisplaced transverse fracture of shaft of left tibia, sequela
S82.231A	Displaced oblique fracture of shaft of right tibia, initial encounter for closed fracture
S82.231B	Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.231C	Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.231D	Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.231E	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.231F	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.231G	Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.231H	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.231J	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.231K	Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.231M	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.231N	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.231P	Displaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.231Q	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.231R	Displaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.231S	Displaced oblique fracture of shaft of right tibia, sequela
S82.232A	Displaced oblique fracture of shaft of left tibia, initial encounter for closed fracture
S82.232B	Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.232C	Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.232D	Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.232E	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.232F	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.232G	Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.232H	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.232J	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.232K	Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.232M	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.232N	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.232P	Displaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.232Q	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.232R	Displaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.232S	Displaced oblique fracture of shaft of left tibia, sequela
S82.234A	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for closed fracture
S82.234B	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.234C	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.234D	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.234E	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.234F	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.234G	



<b>ICD-10 Codes</b>	<b>Description</b>
	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.234H	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.234J	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.234K	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.234M	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.234N	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.234P	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.234Q	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.234R	Nondisplaced oblique fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.234S	Nondisplaced oblique fracture of shaft of right tibia, sequela
S82.235A	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for closed fracture
S82.235B	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.235C	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.235D	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.235E	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.235F	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.235G	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.235H	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.235J	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.235K	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.235M	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.235N	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.235P	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.235Q	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.235R	Nondisplaced oblique fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.235S	Nondisplaced oblique fracture of shaft of left tibia, sequela
S82.241A	Displaced spiral fracture of shaft of right tibia, initial encounter for closed fracture
S82.241B	Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.241C	Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.241D	Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.241E	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.241F	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.241G	Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.241H	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.241J	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.241K	Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.241M	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.241N	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.241P	Displaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.241Q	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.241R	Displaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.241S	Displaced spiral fracture of shaft of right tibia, sequela
S82.242A	Displaced spiral fracture of shaft of left tibia, initial encounter for closed fracture
S82.242B	Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.242C	Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.242D	Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.242E	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.242F	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.242G	Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.242H	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.242J	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.242K	Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.242M	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.242N	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.242P	Displaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.242Q	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.242R	Displaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.242S	Displaced spiral fracture of shaft of left tibia, sequela
S82.244A	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for closed fracture
S82.244B	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.244C	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.244D	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.244E	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.244F	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.244G	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.244H	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.244J	

<b>ICD-10 Codes</b>	<b>Description</b>
	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.244K	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.244M	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.244N	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.244P	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.244Q	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.244R	Nondisplaced spiral fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.244S	Nondisplaced spiral fracture of shaft of right tibia, sequela
S82.245A	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for closed fracture
S82.245B	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.245C	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.245D	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.245E	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.245F	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.245G	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.245H	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.245J	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.245K	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.245M	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.245N	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.245P	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.245Q	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.245R	Nondisplaced spiral fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.245S	Nondisplaced spiral fracture of shaft of left tibia, sequela
S82.251A	Displaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture
S82.251B	Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.251C	Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.251D	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.251E	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.251F	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.251G	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.251H	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.251J	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.251K	

<b>ICD-10 Codes</b>	<b>Description</b>
	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.251M	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.251N	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.251P	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.251Q	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.251R	Displaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.251S	Displaced comminuted fracture of shaft of right tibia, sequela
S82.252A	Displaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture
S82.252B	Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.252C	Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.252D	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.252E	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.252F	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.252G	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.252H	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.252J	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.252K	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.252M	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.252N	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.252P	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.252Q	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.252R	Displaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.252S	Displaced comminuted fracture of shaft of left tibia, sequela
S82.254A	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture
S82.254B	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.254C	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.254D	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.254E	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.254F	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.254G	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.254H	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.254J	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.254K	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion

<b>ICD-10 Codes</b>	<b>Description</b>
S82.254M	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.254N	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.254P	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.254Q	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.254R	Nondisplaced comminuted fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.254S	Nondisplaced comminuted fracture of shaft of right tibia, sequela
S82.255A	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture
S82.255B	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.255C	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.255D	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.255E	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.255F	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.255G	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.255H	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.255J	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.255K	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.255M	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.255N	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.255P	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.255Q	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.255R	Nondisplaced comminuted fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.255S	Nondisplaced comminuted fracture of shaft of left tibia, sequela
S82.261A	Displaced segmental fracture of shaft of right tibia, initial encounter for closed fracture
S82.261B	Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.261C	Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.261D	Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.261E	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.261F	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.261G	Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.261H	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.261J	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.261K	Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.261M	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion

<b>ICD-10 Codes</b>	<b>Description</b>
S82.261N	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.261P	Displaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.261Q	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.261R	Displaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.261S	Displaced segmental fracture of shaft of right tibia, sequela
S82.262A	Displaced segmental fracture of shaft of left tibia, initial encounter for closed fracture
S82.262B	Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.262C	Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.262D	Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.262E	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.262F	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.262G	Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.262H	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.262J	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.262K	Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.262M	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.262N	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.262P	Displaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.262Q	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.262R	Displaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.262S	Displaced segmental fracture of shaft of left tibia, sequela
S82.264A	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for closed fracture
S82.264B	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.264C	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.264D	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.264E	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.264F	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.264G	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.264H	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.264J	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.264K	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.264M	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.264N	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.264P	

<b>ICD-10 Codes</b>	<b>Description</b>
	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.264Q	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.264R	Nondisplaced segmental fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.264S	Nondisplaced segmental fracture of shaft of right tibia, sequela
S82.265A	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for closed fracture
S82.265B	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.265C	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.265D	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.265E	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.265F	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.265G	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.265H	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.265J	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.265K	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.265M	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.265N	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.265P	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.265Q	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.265R	Nondisplaced segmental fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.265S	Nondisplaced segmental fracture of shaft of left tibia, sequela
S82.291A	Other fracture of shaft of right tibia, initial encounter for closed fracture
S82.291B	Other fracture of shaft of right tibia, initial encounter for open fracture type I or II
S82.291C	Other fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.291D	Other fracture of shaft of right tibia, subsequent encounter for closed fracture with routine healing
S82.291E	Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with routine healing
S82.291F	Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.291G	Other fracture of shaft of right tibia, subsequent encounter for closed fracture with delayed healing
S82.291H	Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.291J	Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.291K	Other fracture of shaft of right tibia, subsequent encounter for closed fracture with nonunion
S82.291M	Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with nonunion
S82.291N	Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.291P	Other fracture of shaft of right tibia, subsequent encounter for closed fracture with malunion
S82.291Q	Other fracture of shaft of right tibia, subsequent encounter for open fracture type I or II with malunion
S82.291R	Other fracture of shaft of right tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.291S	Other fracture of shaft of right tibia, sequela

<b>ICD-10 Codes</b>	<b>Description</b>
S82.292A	Other fracture of shaft of left tibia, initial encounter for closed fracture
S82.292B	Other fracture of shaft of left tibia, initial encounter for open fracture type I or II
S82.292C	Other fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.292D	Other fracture of shaft of left tibia, subsequent encounter for closed fracture with routine healing
S82.292E	Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with routine healing
S82.292F	Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.292G	Other fracture of shaft of left tibia, subsequent encounter for closed fracture with delayed healing
S82.292H	Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with delayed healing
S82.292J	Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.292K	Other fracture of shaft of left tibia, subsequent encounter for closed fracture with nonunion
S82.292M	Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with nonunion
S82.292N	Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.292P	Other fracture of shaft of left tibia, subsequent encounter for closed fracture with malunion
S82.292Q	Other fracture of shaft of left tibia, subsequent encounter for open fracture type I or II with malunion
S82.292R	Other fracture of shaft of left tibia, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.292S	Other fracture of shaft of left tibia, sequela
S82.891A	Other fracture of right lower leg, initial encounter for closed fracture
S82.891B	Other fracture of right lower leg, initial encounter for open fracture type I or II
S82.891C	Other fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.891D	Other fracture of right lower leg, subsequent encounter for closed fracture with routine healing
S82.891E	Other fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing
S82.891F	Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.891G	Other fracture of right lower leg, subsequent encounter for closed fracture with delayed healing
S82.891H	Other fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing
S82.891J	Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.891K	Other fracture of right lower leg, subsequent encounter for closed fracture with nonunion
S82.891M	Other fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion
S82.891N	Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.891P	Other fracture of right lower leg, subsequent encounter for closed fracture with malunion
S82.891Q	Other fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion
S82.891R	Other fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.891S	Other fracture of right lower leg, sequela
S82.892A	Other fracture of left lower leg, initial encounter for closed fracture
S82.892B	Other fracture of left lower leg, initial encounter for open fracture type I or II
S82.892C	Other fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.892D	Other fracture of left lower leg, subsequent encounter for closed fracture with routine healing
S82.892E	Other fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing
S82.892F	Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.892G	Other fracture of left lower leg, subsequent encounter for closed fracture with delayed healing
S82.892H	Other fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing
S82.892J	Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.892K	Other fracture of left lower leg, subsequent encounter for closed fracture with nonunion



<b>ICD-10 Codes</b>	<b>Description</b>
S82.892M	Other fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion
S82.892N	Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.892P	Other fracture of left lower leg, subsequent encounter for closed fracture with malunion
S82.892Q	Other fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion
S82.892R	Other fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.892S	Other fracture of left lower leg, sequela
S82.91XA	Unspecified fracture of right lower leg, initial encounter for closed fracture
S82.91XB	Unspecified fracture of right lower leg, initial encounter for open fracture type I or II
S82.91XC	Unspecified fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.91XD	Unspecified fracture of right lower leg, subsequent encounter for closed fracture with routine healing
S82.91XE	Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with routine healing
S82.91XF	Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.91XG	Unspecified fracture of right lower leg, subsequent encounter for closed fracture with delayed healing
S82.91XH	Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with delayed healing
S82.91XJ	Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.91XK	Unspecified fracture of right lower leg, subsequent encounter for closed fracture with nonunion
S82.91XM	Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with nonunion
S82.91XN	Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.91XP	Unspecified fracture of right lower leg, subsequent encounter for closed fracture with malunion
S82.91XQ	Unspecified fracture of right lower leg, subsequent encounter for open fracture type I or II with malunion
S82.91XR	Unspecified fracture of right lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.91XS	Unspecified fracture of right lower leg, sequela
S82.92XA	Unspecified fracture of left lower leg, initial encounter for closed fracture
S82.92XB	Unspecified fracture of left lower leg, initial encounter for open fracture type I or II
S82.92XC	Unspecified fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC
S82.92XD	Unspecified fracture of left lower leg, subsequent encounter for closed fracture with routine healing
S82.92XE	Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with routine healing
S82.92XF	Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
S82.92XG	Unspecified fracture of left lower leg, subsequent encounter for closed fracture with delayed healing
S82.92XH	Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with delayed healing
S82.92XJ	Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
S82.92XK	Unspecified fracture of left lower leg, subsequent encounter for closed fracture with nonunion
S82.92XM	Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with nonunion
S82.92XN	Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
S82.92XP	Unspecified fracture of left lower leg, subsequent encounter for closed fracture with malunion
S82.92XQ	Unspecified fracture of left lower leg, subsequent encounter for open fracture type I or II with malunion
S82.92XR	Unspecified fracture of left lower leg, subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
S82.92XS	Unspecified fracture of left lower leg, sequela
S89.001A	Unspecified physeal fracture of upper end of right tibia, initial encounter for closed fracture
S89.001D	Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing

<b>ICD-10 Codes</b>	<b>Description</b>
S89.001G	Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing
S89.001K	Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion
S89.001P	Unspecified physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion
S89.001S	Unspecified physeal fracture of upper end of right tibia, sequela
S89.002A	Unspecified physeal fracture of upper end of left tibia, initial encounter for closed fracture
S89.002D	Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing
S89.002G	Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing
S89.002K	Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion
S89.002P	Unspecified physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion
S89.002S	Unspecified physeal fracture of upper end of left tibia, sequela
S89.091A	Other physeal fracture of upper end of right tibia, initial encounter for closed fracture
S89.091D	Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with routine healing
S89.091G	Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with delayed healing
S89.091K	Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with nonunion
S89.091P	Other physeal fracture of upper end of right tibia, subsequent encounter for fracture with malunion
S89.091S	Other physeal fracture of upper end of right tibia, sequela
S89.092A	Other physeal fracture of upper end of left tibia, initial encounter for closed fracture
S89.092D	Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with routine healing
S89.092G	Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with delayed healing
S89.092K	Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with nonunion
S89.092P	Other physeal fracture of upper end of left tibia, subsequent encounter for fracture with malunion
S89.092S	Other physeal fracture of upper end of left tibia, sequela
T84.012A	Broken internal right knee prosthesis, initial encounter
T84.012D	Broken internal right knee prosthesis, subsequent encounter
T84.012S	Broken internal right knee prosthesis, sequela
T84.013A	Broken internal left knee prosthesis, initial encounter
T84.013D	Broken internal left knee prosthesis, subsequent encounter
T84.013S	Broken internal left knee prosthesis, sequela
T84.022A	Instability of internal right knee prosthesis, initial encounter
T84.022D	Instability of internal right knee prosthesis, subsequent encounter
T84.022S	Instability of internal right knee prosthesis, sequela
T84.023A	Instability of internal left knee prosthesis, initial encounter
T84.023D	Instability of internal left knee prosthesis, subsequent encounter
T84.023S	Instability of internal left knee prosthesis, sequela
T84.032A	Mechanical loosening of internal right knee prosthetic joint, initial encounter
T84.032D	Mechanical loosening of internal right knee prosthetic joint, subsequent encounter
T84.032S	Mechanical loosening of internal right knee prosthetic joint, sequela
T84.033A	Mechanical loosening of internal left knee prosthetic joint, initial encounter
T84.033D	Mechanical loosening of internal left knee prosthetic joint, subsequent encounter
T84.033S	Mechanical loosening of internal left knee prosthetic joint, sequela
T84.052A	Periprosthetic osteolysis of internal prosthetic right knee joint, initial encounter
T84.052D	Periprosthetic osteolysis of internal prosthetic right knee joint, subsequent encounter
T84.052S	Periprosthetic osteolysis of internal prosthetic right knee joint, sequela
T84.053A	Periprosthetic osteolysis of internal prosthetic left knee joint, initial encounter
T84.053D	Periprosthetic osteolysis of internal prosthetic left knee joint, subsequent encounter
T84.053S	Periprosthetic osteolysis of internal prosthetic left knee joint, sequela
T84.062A	Wear of articular bearing surface of internal prosthetic right knee joint, initial encounter
T84.062D	Wear of articular bearing surface of internal prosthetic right knee joint, subsequent encounter

ICD-10 Codes	Description
T84.062S	Wear of articular bearing surface of internal prosthetic right knee joint, sequela
T84.063A	Wear of articular bearing surface of internal prosthetic left knee joint, initial encounter
T84.063D	Wear of articular bearing surface of internal prosthetic left knee joint, subsequent encounter
T84.063S	Wear of articular bearing surface of internal prosthetic left knee joint, sequela
T84.092A	Other mechanical complication of internal right knee prosthesis, initial encounter
T84.092D	Other mechanical complication of internal right knee prosthesis, subsequent encounter
T84.092S	Other mechanical complication of internal right knee prosthesis, sequela
T84.093A	Other mechanical complication of internal left knee prosthesis, initial encounter
T84.093D	Other mechanical complication of internal left knee prosthesis, subsequent encounter
T84.093S	Other mechanical complication of internal left knee prosthesis, sequela
T84.53XA	Infection and inflammatory reaction due to internal right knee prosthesis, initial encounter
T84.53XD	Infection and inflammatory reaction due to internal right knee prosthesis, subsequent encounter
T84.53XS	Infection and inflammatory reaction due to internal right knee prosthesis, sequela
T84.54XA	Infection and inflammatory reaction due to internal left knee prosthesis, initial encounter
T84.54XD	Infection and inflammatory reaction due to internal left knee prosthesis, subsequent encounter
T84.54XS	Infection and inflammatory reaction due to internal left knee prosthesis, sequela
Z47.33	Aftercare following explantation of knee joint prosthesis
Z89.521	Acquired absence of right knee
Z89.522	Acquired absence of left knee

ICD-10 Codes that DO NOT Support Medical Necessity N/A  
ICD-10 Additional Information

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## General Information

Associated Information

### **Documentation Requirements**

In order to qualify for coverage of both Medicare Part A inpatient services and Part B provider services the medical record must contain documentation that fully supports the medical necessity and justification of the procedure performed and must be made available to Noridian upon request. When the documentation does not meet the criteria for the service(s) rendered or the documentation does not establish the medical necessity for the service(s), such service(s) will be denied as not reasonable and necessary.

A history and physical, discharge summary, physician progress notes and an operative report are typically in the hospital record for the procedures in this LCD. Other relevant information addressing coverage criteria related to the patient's episode of care prior to the hospitalization, should be included in the hospital record (see below). Failure to include this information in the hospital record may result in denial of coverage for Part A services and trigger a review of the Part B provider claim to determine whether the Part B service rendered was reasonable and necessary.

### **When the procedure is indicated for advanced joint disease, the following should be documented in the medical record:**

- Arthritis of the knee supported by X-ray, MRI or CT. The X-ray, MRI or CT, as medically necessary, should demonstrate and the provider must document one or more of the following:

- a) subchondral cysts,
- b) subchondral sclerosis,
- c) periarticular osteophytes,
- d) joint subluxation,
- e) the degree of joint space narrowing,
- f) avascular necrosis or
- g) bone on bone articulations

- Pain or functional disability at the knee. Pain and/or functional disability should be described in context. For example, documented pain that interferes with ADLs (functional disability), or pain that is increased with initiation of activities or pain that increases with weight bearing.
- Unsuccessful conservative therapy (non-surgical medical management) if appropriate. The documentation should demonstrate a history of a reasonable attempt at conservative therapy as appropriate for the patient in his/her current episode of care. For example, documented trial of NSAIDs or contraindication to such therapy and/or documented supervised physical therapy. Documentation should support that ADLs are diminished due to pain and/or disability despite non-surgical medical management.
- For patients with significant conditions or co-morbidities, the risk/benefit of non-cardiac surgery, such as TKR/TKA should be appropriately addressed in the medical record.

**Medical record documentation for other TKR/TKA indications outlined in the LCD should include the following, when indicated:**

- Supporting evidence (e.g., pathology reports and referral from an Oncologist for a malignancy of the joint or X-ray of a fracture).
- Pain at the knee when indicated as a reason for the procedure (e.g., for revision/replacement TKR/TKA). For example, documented pain that interferes with ADLs (functional disability), pain that is increased with initiation of activities or pain that increases with weight bearing.
- For patients with significant conditions or co-morbidities, the risk/benefit of non-cardiac surgery, such as TKR/TKA should be appropriately addressed in the medical record.
- When infection is the reason for revision TKR/TKA surgery, laboratory and/or pathology reports must be in the medical record and all documentation regarding treatment of the infection and a physician note indicating that it is appropriate to proceed with surgery should be in the medical record as well.

In the instance that the patient is undergoing a bilateral knee replacement, all criteria listed above would apply to the bilateral surgery when indicated. The medical record should also support the medical necessity for performing a bilateral TKR/TKA.

The treating physician must discuss the significant benefit and risks with the patient. In order to meet Medicare's reasonable and necessary (R&N) threshold for coverage of a procedure, the physician's documentation for the case should clearly support both the diagnostic criteria for the indication (standard test results and/or clinical findings as applicable) and the medical need (the procedure does not exceed the medical need and is at least as beneficial as existing alternatives & the procedure is furnished with accepted standards of medical practice in a setting appropriate for the patient's medical needs and condition). **Lacking compelling arguments for an exception in the supporting documentation, the hospital and physician services can be denied.**

If in certain circumstances the patient does not meet all of the required criteria outlined in the local coverage determination (LCD) for a procedure, but the treating physician feels that the procedure is a covered procedure given the current standards of care, then the documentation must clearly outline the patient's episode of care that supports the major procedure and must clearly address the reason(s) for coverage. For example, if clinical findings (or lack of) for an indication are not consistent with the LCD criteria, it should be directly addressed in the pre-procedure documentation. For example, if certain conservative measures are not necessary or appropriate for a given patient, it should be directly noted in the pre procedure documentation. The clinical judgment of the treating physician is always a consideration if clearly addressed in the pre procedure record and if consistent with the episode of care for the patient as documented in patient records and claim history.

*Review of the medical record must indicate that inpatient hospital care was medically necessary, reasonable, and appropriate for the diagnosis and condition of the beneficiary at any time during the stay. The beneficiary must demonstrate signs and/or symptoms severe enough to warrant the need for medical care and must receive services of such intensity that they can be furnished safely and effectively only on an inpatient basis.*

**Utilization Guidelines**

It is expected that these services would be performed as indicated by current medical literature and/or standards of practice. When services are performed in excess of established parameters they may be subject to review for medical necessity.

The devices/implants utilized for total knee replacement surgeries are regulated by the FDA as medical devices. The devices used should be class II or class III devices that meet the requirements outlined in CFR 21, Chapter 1, subchapter H, Part 888.

## Sources of Information and Basis for Decision

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4. Dennis D, Berry D, Engh G, et al. AAOS Symposium: Revision total knee arthroplasty. *Journal of the American Academy of Orthopaedic Surgeons*. 2008;16:442-454.
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6. Feeley BT, Gallo RA, Sherman S, Williams RJ. Management of osteoarthritis of the knee in the active patient. *Journal of the American Academy of Orthopaedic Surgeons*. 2010;18(7):406-416.
7. InterQual® 2011 Procedures Adult Criteria, Total Joint Replacement, Knee and Hip & Removal and Replacement , Total Joint Replacement Knee and Hip. McKesson Corporation.
8. Milliman Care Guidelines® 2011. Inpatient and Surgical Care 15th Edition. Knee Arthroplasty and Hip Arthroplasty. Milliman Care Guidelines LLC.
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10. O'Connor MI. Implant Survival, knee function and pain relief after TKA. Are there differences between men and women? *Clinical Orthopaedics and Related Research*. 2011;469:1846-1851.
11. Your Orthopaedic Connection (2010). Unicompartmental knee replacement. Retrieved from <http://orthoinfo.aaos.org/topic.cfm?topic=A00585>. Please note that this reference is not endorsed as official guidelines from the AAOS.

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## Revision History Information

Revision History Date	Revision History Number	Revision History Explanation	Reason(s) for Change
10/01/2016	R1	<p>Effective 09/07/2016 LCD revised to remove the following 7th character information from Paragraph 1 and added each appropriate 7th character to each of the appropriate diagnosis codes.</p> <p>The appropriate 7th character is to be added to each code from category <b>M80 as well as to each code from subcategories M84.3, M84.4, M84.5 and M84.6</b> from the following list:</p> <ul style="list-style-type: none"><li>o A: initial encounter for fracture</li><li>o D: subsequent encounter for fracture with routine healing</li><li>o G: subsequent encounter for fracture with delayed healing</li><li>o K: subsequent encounter for fracture with nonunion</li><li>o P: subsequent encounter for fracture with malunion</li><li>o S: sequela</li></ul>	<ul style="list-style-type: none"><li>• Other (Added all the appropriate 7th characters to all the appropriate DX codes.)</li><li>• Revisions Due To ICD-10-CM Code Changes</li></ul>

**Revision  
History Date**

**Revision  
History  
Number**

**Revision History Explanation**

**Reason(s) for Change**

The appropriate 7th character is to be added to all of the codes from category S72 from the following list:

- o A: initial encounter for closed fracture
- o B: initial encounter for open fracture type I or II initial encounter for open fracture NOS
- o C: initial encounter for open fracture type IIIA, IIIB, or IIIC
- o D: subsequent encounter for closed fracture with routine healing
- o E: subsequent encounter for open fracture type I or II with routine healing
- o F: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
- o G: subsequent encounter for closed fracture with delayed healing
- o H: subsequent encounter for open fracture type I or II with delayed healing
- o J: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
- o K: subsequent encounter for closed fracture with nonunion
- o M: subsequent encounter for open fracture type I or II with nonunion
- o N: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
- o P: subsequent encounter for closed fracture with malunion
- o Q: subsequent encounter for open fracture type I or II with malunion
- o R: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
- o S: sequela

EXCEPT to subcategory S72.47 to which the appropriate 7th character is to be added to all codes from the following list:

- o A: initial encounter for closed fracture
- o D: subsequent encounter for closed fracture with routine healing
- o G: subsequent encounter for closed fracture with delayed healing
- o K: subsequent encounter for closed fracture with nonunion
- o P: subsequent encounter for closed fracture with malunion
- o S: sequela

The appropriate 7th character is to be added to each code from subcategory S79.1 from the following list:

- o A: initial encounter for closed fracture
- o D: subsequent encounter for fracture with routine healing
- o G: subsequent encounter for fracture with delayed healing
- o K: subsequent encounter for fracture with nonunion
- o P: subsequent encounter for fracture with malunion
- o S: sequela

The appropriate 7th character is to be added to all of the codes from category S82 from the following list:

- o A: initial encounter for closed fracture
- o B: initial encounter for open fracture type I or II initial encounter for open fracture NOS
- o C: initial encounter for open fracture type IIIA, IIIB, or IIIC

- o D: subsequent encounter for closed fracture with routine healing
  - o E: subsequent encounter for open fracture type I or II with routine healing
  - o F: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with routine healing
  - o G: subsequent encounter for closed fracture with delayed healing
  - o H: subsequent encounter for open fracture type I or II with delayed healing
  - o J: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with delayed healing
  - o K: subsequent encounter for closed fracture with nonunion
  - o M: subsequent encounter for open fracture type I or II with nonunion
  - o N: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with nonunion
  - o P: subsequent encounter for closed fracture with malunion
  - o Q: subsequent encounter for open fracture type I or II with malunion
  - o R: subsequent encounter for open fracture type IIIA, IIIB, or IIIC with malunion
  - o S: sequela
- EXCEPT** to subcategory S82.16 to which the appropriate 7th character is to be added to all codes from the following list:
- o A: initial encounter for closed fracture
  - o D: subsequent encounter for closed fracture with routine healing
  - o G: subsequent encounter for closed fracture with delayed healing
  - o K: subsequent encounter for closed fracture with nonunion
  - o P: subsequent encounter for closed fracture with malunion
  - o S: sequela

The appropriate 7th character is to be added to each code from subcategory S89.0 from the following list:

- o A: initial encounter for closed fracture
- o D: subsequent encounter for closed fracture with routine healing
- o G: subsequent encounter for closed fracture with delayed healing
- o K: subsequent encounter for closed fracture with nonunion
- o P: subsequent encounter for closed fracture with malunion
- o S: sequela

The appropriate 7th character is to be added to each code from category T84 from the following list:

- o A: initial encounter
- o D: subsequent encounter
- o S: sequela

Effective 10/01/2016 LCD revised to add ICD-10-CM codes M97.11XA, M97.11XD, M97.11XS, M97.12XA, M97.12XD & M97.12XS.

Revision History Date	Revision History Number	Revision History Explanation	Reason(s) for Change
		Effective 10/01/2016 deleted ICD-10 CM codes T84.042A, T84.042D, T84.042S, T87.043A, T84.043D & T84.0431S	

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## [Associated Documents](#)

Attachments N/A

Related Local Coverage Documents Article(s) [A55077 - Response to Comments: Total Knee Arthroplasty](#) LCD(s) [DL36577](#) - (MCD Archive Site)

Related National Coverage Documents N/A

Public Version(s) Updated on 09/22/2016 with effective dates 10/01/2016 - N/A [Updated on 07/08/2016 with effective dates 09/07/2016 - N/A](#) [Back to Top](#)

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## [Keywords](#)

- Total knee arthroplasty
- 27445
- 27447
- 27486
- 27487

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