

## **List of diagnosis and treatment codes used in the study**

Group (1) included proximal tibial and fibular, distal femoral and patellar fractures

### **Diagnoses:**

#### **ICD-10**

**S72.4** Fracture of the distal femur

**S82.0** Fracture of the patella

**S82.1** Fracture of the proximal tibia

**S82.7** Multiple fractures of the knee and/or lower leg

**S82.8** Fracture of other parts of the knee or lower leg

**S82.9** Unspecified fracture of the knee and/or lower leg

**S87** Crushing injury of the knee and/or lower leg

#### **ICD-9**

**8212A** Fracture of the lateral or medial femoral condyle, uncomplicated

**8212B** Fracture of the distal epiphysis, uncomplicated

**8212X** Fracture of other parts of the distal femur, uncomplicated

**8213A** Fracture of the medial or lateral femoral condyle, complicated

**8213B** Fracture of the distal epiphysis, complicated

**8213X** Fracture of other parts of the distal femur, complicated

**8220A** Fracture of the patella, uncomplicated

**8221A** Fracture of the patella, complicated

**8230A** Fracture of the proximal tibia or fibula, uncomplicated

**8231A** Fracture of the proximal tibia or fibula, complicated

#### **ICD-8**

**821.21** Fracture of the distal femur, uncomplicated

**821.31** Fracture of the distal femur, complicated

**822.0** Fracture of the patella, uncomplicated

**822.10** Fracture of the patella, complicated

Group (2) included knee ligament, cartilage, meniscus, muscle/tendon injuries and patella dislocations

### **Diagnoses:**

#### **ICD-10**

**S76.1** Injury of the quadriceps muscle or tendon

**S83** Dislocation, sprain, and/or strain of joints and ligaments of the knee

**S86.7** Injury of multiple muscles or tendons in the knee or lower leg region

**S86.8** Injury of other muscle or tendon in the knee or lower leg region

**S86.9** Injury of unspecified muscle or tendon in the knee or lower leg region

### **ICD-9**

**8360A** Rupture of the medial meniscus

**8361A** Rupture of the lateral meniscus

**8362A** Rupture of other meniscus or cartilage

**8363A** Dislocation of the patella, uncomplicated

**8364A** Dislocation of the patella, complicated

**8365A** Dislocation of the knee, uncomplicated

**8365B** Dislocation of the knee, uncomplicated, with nerve or vascular injury

**8366A** Dislocation of the knee, complicated

**8366B** Dislocation of the knee, complicated, with nerve or vascular injury

**8438A** Injury of thigh muscles

**8440A** Injury of the lateral collateral ligament of the knee

**8441A** Injury of the medial collateral ligament of the knee

**8442A** Injury of the anterior cruciate ligament of the knee

**8442B** Injury of the posterior cruciate ligament of the knee

**8443A** Injury of the superior tibiofemoral joint

**8448A** Multiple ligament injury of the knee

**8449X** Knee injury, not otherwise specified

### **ICD-8**

**836.00** Dislocation of the patella, uncomplicated

**836.10** Dislocation of the patella, complicated

**844.00** Distortion and strain of the knee and lower leg

**836.01** Dislocation of the knee, unspecified, uncomplicated

**836.11** Dislocation of the knee, unspecified, complicated

Between years 1996 and 2024 Nomesco's treatment codes:

**NFJ** Femoral fracture surgeries

**NFK** Femoral bone surgeries

**NFL** Thigh muscle or tendon surgeries

**NGD** Knee meniscus surgeries

**NGE** Knee ligament and capsule surgeries

**NGF** Knee synovial membrane / cartilage surgeries

**NGG** Knee reconstructive surgeries and arthrodesis

**NGH** Knee joint / patellar reduction and other procedures

**NGJ** Lower leg / patellar fracture surgeries

**NGK** Lower leg and patellar bone surgeries

**NGL** Lower leg muscle and tendon surgeries

Between years 1986 and 1996 Hospital League treatment codes:

- 1221 Arthroscopy and meniscus surgery
- 1223 Arthroscopy and cartilage surgery
- 1224 Arthroscopy and removal of loose body
- 1225 Arthroscopy and other therapeutic procedure
- 9123 Closed reduction and casting in the operating room or under anesthesia
- 9124 Change of cast, wedging, or equivalent procedure in the operating room or under anesthesia
- 9126 Closed reduction and osteosynthesis
- 9127 Open reduction, or reduction without osteosynthesis, with casting or equivalent
- 9128 Open reduction and osteosynthesis
- 9131 Reconstruction of the joint surface (includes bone grafting)
- 9139 Other procedure related to this group
- 9163 Delayed osteosynthesis
- 9165 Removal of osteosynthesis material
- 9231 Closed reduction of a dislocated joint
- 9232 Surgical repair of knee ligament and/or capsule injury
- 9243 Plastic reconstruction of the patella or its capsule and tendons
- 9244 Ligament plastic surgery or reconstruction of the knee not involving the patella
- 9251 Joint aspiration or lavage under anesthesia
- 9254 Arthrotomy
- 9255 Meniscectomy
- 9257 Operative mobilization and possible soft tissue plastic surgery
- 9281 Knee arthrodesis
- 9292 Femoral osteotomy
- 9311 Knee debridement
- 9315 Patellectomy
- 9371 Procedures involving the knee extensors
- 9372 Procedures involving the knee flexors
- 9373 Procedures involving the knee joint
- 9411 Osteotomies of the knee region
- 9412 Repair of the knee extensor mechanism
- 9413 Surgical repair of knee instability