

Keele Core Sets of SNOMED CT Concept IDs: MSK Pain/Injury (Adult). Supporting Documentation

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# PURPOSE

To define a list of SNOMED CT Concept IDs suitable for practical application in UK primary care data for identifying consultations and clinical events for musculoskeletal pain conditions and injuries in adults.

# SCOPE

All common MSK pain conditions and injuries, including those responsible for greatest population disability burden in adults (e.g. low back pain, neck pain, osteoarthritis, multiple-site/widespread pain/fibromyalgia).

Non-musculoskeletal pain (e.g. migraine, atypical chest pain), osteoporosis, inflammatory diseases, spinal cord injuries, superficial injuries, codes related to review/monitoring, procedures and assessment tools, and other miscellaneous categories were out of scope (see Appendix A).

# METHODS

The information below provides details of the steps followed to derive the codelists. Figure 1 provides a summary.

## Identifying potentially relevant MSK Concept IDs from existing studies (pathway 1)

Lists of musculoskeletal Read codes and/or SNOMED CT Concept and Description IDs developed in prior and current studies within the School of Medicine, Keele University were collated:

* [PRELIM](http://doi.org/10.21252/5ag3-ta31): knee pain, hip pain, low back pain, shoulder pain, neck pain, hand/wrist pain, osteoarthritis
* [TAPS](https://doi.org/10.1186/ISRCTN15366334): pain and osteoarthritis in the knee, shoulder, neck and back (lower & upper including trauma), and general/widespread pain
* MSKCOM: low back pain, hand/wrist pain, hip pain, knee pain and osteoarthritis in adults aged 45 and over
* SNIPE: all musculoskeletal disorders

Amalgamation of these code lists resulted in 13,200 provisional unique entities (combination of SNOMED CT Concept ID, Description ID, term). Any additional SNOMED CT description IDs and terms contained within the included Concept IDs were then added. This resulted in an additional 3,414 entities and an overall total of 16,614 entities.

KPJ (senior statistician and electronic health record researcher), GMP (senior epidemiologist), JH (academic physiotherapist), and EP (academic GP) then met to decide on general categories for inclusion and exclusion (Appendix A).

### Selecting relevant MSK pain/injury Concept IDs by consensus

KPJ allocated the 16,614 entities to “provisionally include” (*n*=6,838), “provisionally exclude” (*n*=9,400), or “provisionally uncertain” (*n*=376) based on matching to the general categories for exclusion above. The “provisionally uncertain” list included all entities under a Concept ID where some of the entities within that Concept ID but not all would fit under “provisionally include”. The rationale here was that final selection would be at the Concept ID level and all entities (including all Description IDs) under an included Concept ID should be included. Similarly all entities under an excluded Concept ID would be excluded. GMP, JH, and EP then independently reviewed each of these three lists, with disagreements resolved in a consensus meeting. This resulted in 6,767 entities being taken forward. These 6,767 entities comprised 3,226 unique Concept IDs.

## Independent search of OpenSafely Codelists (pathway 2)

An independent search of the [OpenCodelists SAFELY portal](http://www.opencodelists.org/) within the OpenSAFELY platform was made by KPJ. Phrases searched for within SNOMED CT terms were back, hand, hip, wrist, ankle, foot, spine, knee, shoulder, dislocation, spondylosis, meniscus, arthritis, bursitis, fracture, sprain, strain, subluxation, carpal, rotator, pain, widespread, arthralgia, arthropathy, coxalgia. This resulted in 8258 unique Concept IDs and included 2,454 (76%) of the 3,226 Concept IDs identified from the consensus exercise pathway 1. 5,804 additional Concept IDs were therefore potentially relevant and added to the 3,226 Concept IDs from pathway 1 (9,030 Concept IDs in total).

## Reducing the number of Concept IDs for practical application

The number of Concept IDs remaining after pathway 1 and 2 was felt to be impractical to apply in practice, and was likely to include a large proportion of codes either describing very rare conditions or rarely used. Following permission from CPRD (on basis of no wider dissemination of detailed findings without further approval), a search was made of the number of recorded uses of each of the 9,030 Concept IDs in the Aurum database from January 2016 to July 2021. 3,762 (42%) Concept IDs had been used at least once during that time period, with 2,982 (79%) of these having been identified through pathway 1 and 780 from pathway 2. Concept IDs with an annual prevalence of 0.5 records per 10,000 registered population (all age) in any year 2016-2021 were retained. This resulted in 488 Concept IDs, which between them accounted for >97% of all events in each year recorded with one of the 3,762 Concept IDs. GMP, JH, and EP then did a final review reducing the list to 473 Concept IDs (466 from pathway 1 and 7 from pathway 2).

## Finalising the Core Set

A final check of the Concept ID list by entering them into the SNOMED CT browser (termbrowser.nhs.uk) revealed 2 inflammatory disease codes and 27 Concept IDs that were inactive as at 30 Sep 2021. Therefore, added to the list were replacement(s) suggested within the SNOMED browser and/or Concept IDs with the same term if these were not already included. The final inclusion list contained 498 Concept IDs.

The final Keele Core Set of SNOMED CT Concept IDs: MSK Pain/Injury (Adult)is provided in Appendix B. It can also be found at:

[GitHub](https://github.com/JTB1983/MIDAS)

[OSF](https://osf.io/e542w/)

[Our Medical Record Research Code lists webpages](https://www.keele.ac.uk/mrr/codelists/)

[The MIDAS project website](https://www.keele.ac.uk/midas/)

## Body region subsets

A group of 5 reviewers (3 of the original reviewers (EP, JH, GP) plus 2 further academic GPs (CB, VW)) mapped each of the 498 SNOMED CT Concept IDs to body regions/sites. Concept IDs could be mapped to more than one body region.

Each reviewer independently mapped each SNOMED CT Concept ID. Disagreements were resolved by consensus and after viewing the Fully Specified Name and all Synonym Terms associated with that Concept ID.

# USING THE CODELISTS

Keele University is a member of the [UK Reproducibility Network](https://www.ukrn.org/) and committed to the principles of the [UK Concordat on Open Research Data](https://www.ukri.org/wp-content/uploads/2020/10/UKRI-020920-ConcordatonOpenResearchData.pdf). We have a longstanding commitment to sharing data from our studies to improve research reproducibility and to maximise benefits for patients, the wider public, and the health and care system.

We encourage the use of the codelists with appropriate citation and acknowledgement. Th codelist are covered by an open source MIT License.

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# ACKNOWLEDGEMENTS

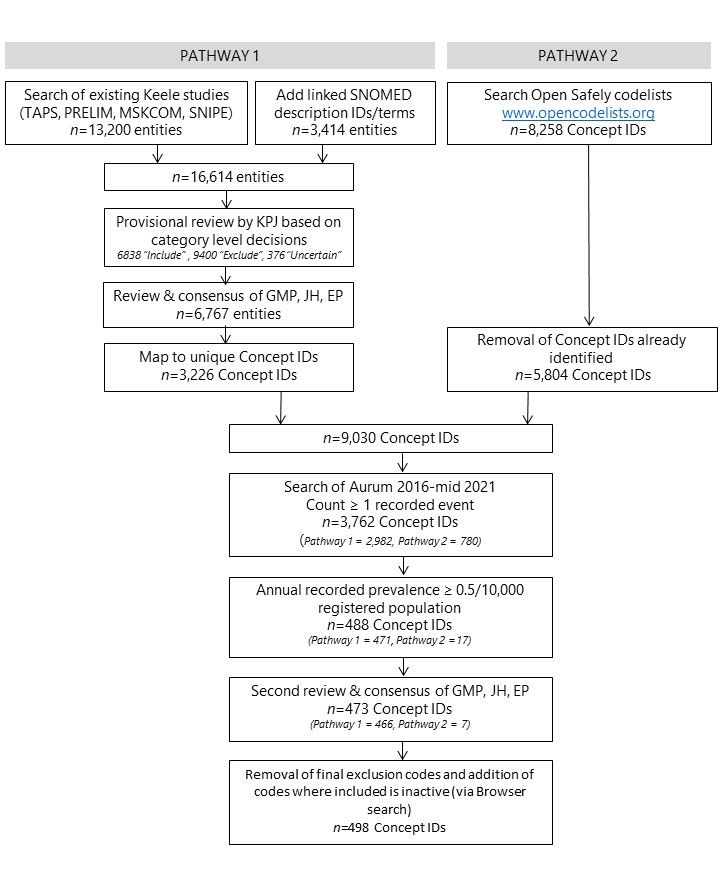
The MIDAS project has been funded by the Nuffield Foundation and Versus Arthritis (OBF/43990), but the views expressed are those of the authors and not necessarily the Foundation or Versus Arthritis. Visit [www.nuffieldfoundation.org](http://www.nuffieldfoundation.org)

The work presented here directly builds on work undertaken for the PRELIM (Versus Arthritis 21403), TAPS (NIHR Programme Grant for Applied Research RP-PG-1211-20010), MSKCOM (Nuffield Foundation OBF/43974), and SNIPE (EU FOREUM 2019-439) studies.

This study is based in part on data from the Clinical Practice Research Datalink obtained under licence from the UK Medicines and Healthcare products Regulatory Agency. The data is provided by patients and collected by the NHS as part of their care and support. The interpretation and conclusions contained in this study are those of the author/s alone. We would like to acknowledge the help provided by Michael Lonergan of CPRD in developing the code list.

The OpenSafely website was used to develop the final code lists used in this study.

Figure 1.Process of selecting SNOMED Concept IDs for the Keele Core Set on Musculoskeletal Pain/Injury (Adult)

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## APPENDIX A. General categories excluded

Abcess / Brodie's abcess, Abrasion, Allergic arthritis, Amputation, Ankylosis (eg Ankylosis - ankle/foot), Annual review/monitoring, Cellulitis, codes under Read Chapter A: infectious / arthropathy associated with infections, codes under Read Chapter F: Nervous system, Chest/thorax, Child-specific, Climateric arthritis, Complex regional pain syndrome, Congenital except instability of joint, Diabetes neuropathy, fragility, Helminthiasis with arthropathy, History of (H/O), Inflammatory, Investigations (x-ray, MRI etc), Lump, Mycosis, Neoplasm (benign or malignant), Nerve injury, Neuralgia/neuritis, Neuropathic pain, Obstetric pain, Open wound with tendon involvement, Osteomyelitis, Osteonecrosis (avascular necrosis), Osteoporosis, Palindromic rheumatism, Periostitis, Psychogenic, Pyogenic arthritis, Reactive arthritis, Referrals, Septic arthritis, Skull/head/face pain, spinal cord, spondylopathy/spondylitis, superficial injuries, Synovial osteochondromatosis

## **APPENDIX B.** Keele Core Set of SNOMED CT Concept IDs: MSK Pain/Injury (Adult). Version 1.0, 2021-10-14

|  |  |  |
| --- | --- | --- |
| **SnomedCTConceptId** | **Preferred term** | **Body region** |
| 1003721002 | Pain of joint of knee | KNE |
| 1003722009 | Pain of knee region | KNE |
| 10085004 | Metatarsalgia | FOT |
| 102556003 | Pain in upper limb | ARM |
| 102570003 | Inguinal pain | HIP/LEG |
| 103014001 | Cervical nerve root pain | NCK |
| 10380004 | Crushing injury of finger | FTB |
| 105606008 | Injury of musculoskeletal system | UNS |
| 10601006 | Pain in lower limb | LEG |
| 1088071000000108 | Pain in upper arm | ARM |
| 11049006 | Cervical radiculitis | NCK |
| 111222003 | Derangement of medial meniscus | KNE |
| 111243002 | Bursitis of knee | KNE |
| 111640008 | Closed fracture of radius | ARM |
| 1126007 | Knee locking | KNE |
| 11654001 | Achilles tendinitis | ANK/LEG |
| 118952005 | Joint finding | UNS |
| 122481008 | Hammer toe | TOE |
| 123536004 | Sprain of upper extremity | ARM/SHD |
| 12519004 | Sprain of sacroiliac ligament | BCK/HIP |
| 125594001 | Injury of shoulder region | SHD |
| 125596004 | Injury of elbow | ELB |
| 125597008 | Injury of forearm | ARM |
| 125598003 | Injury of wrist | WRT |
| 125599006 | Injury of hand | HND |
| 125600009 | Injury of hip region | HIP |
| 125601008 | Injury of knee | KNE |
| 125602001 | Injury of lower leg | LEG |
| 125603006 | Injury of ankle | ANK |
| 125604000 | Injury of foot | FOT |
| 125605004 | Fracture of bone | UNS |
| 125606003 | Fracture of cervical spine | NCK |
| 125607007 | Fracture of thoracic spine | TXS |
| 125608002 | Fracture of lumbar spine | BCK |
| 12584003 | Bone pain | UNS |
| 12676007 | Fracture of radius | WRT/ARM |
| 127278005 | Injury of upper extremity | ARM |
| 127279002 | Injury of lower extremity | HIP |
| 129179000 | Piriformis syndrome | HIP/BCK |
| 134407002 | Chronic back pain | BCK |
| 135897006 | Salter-Harris type II | UNS |
| 13695006 | Fracture of pubic rami | HIP |
| 1539003 | Acquired trigger finger | FTB |
| 157265008 | Dislocation of hip joint | HIP |
| 157266009 | Dislocation of knee joint | KNE |
| 16114001 | Fracture of ankle | ANK |
| 161880003 | Stiff neck symptom | NCK |
| 161882006 | Stiff neck | NCK |
| 161891005 | Backache | BCK |
| 161892003 | Backache with radiation | BCK |
| 161894002 | Complaining of low back pain | BCK |
| 161896000 | Complaining of upper back ache | TXS/BCK |
| 162411004 | Complaining of stiffness | UNS |
| 162429009 | Symptom: upper limb | ARM |
| 16250001000004107 | Fracture of shoulder | SHD |
| 164539000 | O/E - joint movement painful | UNS |
| 17059001 | Prepatellar bursitis | KNE |
| 17222009 | Closed fracture of distal end of radius | WRT |
| 17883008 | Sprain of hip | HIP |
| 18171007 | Fracture of phalanx of finger | FTB |
| 18347007 | Spinal stenosis of lumbar region | BCK |
| 18876004 | Pain in finger | FTB |
| 19660004 | Disorder of soft tissue | UNS |
| 201819000 | Degenerative joint disease involving multiple joints | MSW |
| 201837004 | Localized primary osteoarthritis of the ankle and/or foot | ANK/FOT |
| 202031002 | Generalised arthritis | MSW |
| 202246002 | Recurrent dislocation of the patellofemoral joint | KNE |
| 202336002 | Acetabular labrum tear | SHD |
| 202381003 | Knee joint effusion | KNE |
| 202472008 | Hand joint pain | HND |
| 202479004 | Acromioclavicular joint pain | SHD |
| 202480001 | Elbow joint pain | ELB |
| 202482009 | Wrist joint pain | WRT |
| 202487003 | Sacroiliac joint pain | BCK/HIP |
| 202490009 | Ankle joint pain | ANK |
| 202596000 | Clicking joint | UNS |
| 202606004 | Clicking hip | HIP |
| 202609006 | Clicking knee | KNE |
| 202664003 | Cervical myelopathy | NCK |
| 202683005 | Cervical spondylosis with radiculopathy | NCK |
| 202693003 | Lumbosacral spondylosis with radiculopathy | BCK |
| 202708005 | Prolapsed lumbar intervertebral disc | BCK |
| 202732003 | Disc prolapse with radiculopathy | SPN |
| 202733008 | Cervical disc prolapse with radiculopathy | NCK |
| 202735001 | Lumbar disc prolapse with radiculopathy | BCK |
| 202752002 | Lumbar discitis | BCK |
| 202757008 | Cervical disc disorder with radiculopathy | NCK |
| 202788007 | Degenerative lumbar spinal stenosis | BCK |
| 202794004 | Lumbago with sciatica | BCK |
| 202805003 | Sacroiliac disorder | BCK/HIP |
| 202841003 | Supraspinatus tendinitis | SHD |
| 202842005 | Partial thickness rotator cuff tear | SHD |
| 202843000 | Full thickness rotator cuff tear | SHD |
| 202849001 | Subacromial impingement | SHD |
| 202855006 | Lateral epicondylitis | ELB |
| 202856007 | Biceps tendinitis | ARM |
| 202863007 | Adductor tendinitis | HIP |
| 202881005 | Tibialis posterior tendinitis | LEG |
| 202882003 | Plantar fasciitis | FOT |
| 202888004 | Anterior shin splints | LEG |
| 202900007 | Synovitis and tenosynovitis | UNS |
| 202914007 | Extensor tenosynovitis of wrist | WRT |
| 202916009 | Extensor tenosynovitis of thumb | FTB |
| 202936005 | Ganglion and cyst of synovium, tendon and bursa | UNS |
| 202942009 | Ganglion of wrist | WRT |
| 203045001 | Dupuytren's disease of palm | HND |
| 203082005 | Fibromyalgia | MSW |
| 203095000 | Spasm of back muscles | BCK |
| 203131005 | Tender heel pad | FOT |
| 203509009 | Clavicle pain | SHD |
| 203534009 | Acquired pes planus | FOT |
| 203601000 | Acquired unequal leg length | LEG |
| 203638000 | Kyphoscoliosis and scoliosis | TXS/BCK |
| 203639008 | Idiopathic scoliosis | BCK |
| 203645000 | Postural scoliosis | BCK |
| 203681002 | Acquired spondylolisthesis | BCK |
| 20511007 | Fracture of hand | HND |
| 207940009 | Closed fracture thoracic vertebra wedge | TXS |
| 207957008 | Closed fracture lumbar vertebra | BCK |
| 207959006 | Closed fracture lumbar vertebra, wedge | BCK |
| 208145002 | Fracture or disruption of pelvis | HIP |
| 208165009 | Closed fracture pelvis single pubic ramus | HIP |
| 208166005 | Closed fracture pelvis multiple pubic rami - stable | HIP |
| 208240004 | Closed fracture proximal humerus, neck | ARM/SHD |
| 208242007 | Closed fracture proximal humerus, greater tuberosity | ARM |
| 208294009 | Closed fracture olecranon, extra-articular | ELB |
| 208325003 | Closed fracture radial styloid | WRT |
| 208388003 | Fracture at wrist and/or hand level | WRT/HND |
| 208393000 | Fracture of metacarpal bone | WRT/HND |
| 208394006 | Closed fracture of metacarpal bone | HND |
| 208399001 | Closed fracture finger metacarpal neck | HND |
| 208401007 | Closed fracture finger metacarpal | HND |
| 208430000 | Closed fracture of one or more phalanges of hand | FTB |
| 208444006 | Closed fracture finger proximal phalanx | FTB |
| 208450001 | Closed fracture finger middle phalanx | FTB |
| 208634001 | Closed fracture distal tibia | LEG |
| 208687001 | Closed fracture metatarsal base | FOT |
| 208710000 | Closed fracture proximal phalanx, toe | TOE |
| 208712008 | Closed fracture distal phalanx, toe | TOE |
| 208719004 | Fracture of great toe | TOE |
| 2089002 | Paget's disease of bone | UNS |
| 208916003 | Acute meniscal tear medial posterior horn | KNE |
| 208921000 | Acute meniscal tear lateral | KNE |
| 209238002 | Closed fracture dislocation shoulder joint | SHD |
| 209354002 | Closed fracture dislocation foot | FOT |
| 209409002 | Sprains and strains of joints and adjacent muscles | UNS |
| 209436000 | Sprain of wrist and/or hand | WRT/HND |
| 209520004 | Partial tear knee anterior cruciate ligament | KNE |
| 209529003 | Sprain of ankle and/or foot | ANK/FOT |
| 209532000 | Sprain, ankle joint, lateral | ANK |
| 209557005 | Neck sprain | NCK |
| 209565008 | Lumbar sprain | BCK |
| 209574005 | Pulled back muscle | BCK |
| 209629006 | Complete tear knee anterior cruciate ligament | KNE |
| 209812006 | Sprain, symphysis pubis | HIP |
| 21351003 | Fracture of phalanx of foot | TOE |
| 21698002 | Open fracture of phalanx of finger | FTB |
| 21794005 | Radial styloid tenosynovitis | WRT |
| 221695002 | Achilles bursitis | ANK/FOT |
| 22193007 | Degenerative joint disease of hand | HND |
| 228158008 | Difficulty in walking | UNS |
| 22817005 | Strain of Achilles tendon | ANK/LEG |
| 22878006 | Contusion of knee | KNE |
| 23056005 | Sciatica | BCK/LEG |
| 23382007 | Stress fracture | UNS |
| 23406007 | Fracture of upper limb | ARM |
| 23482006 | Avulsion fracture | UNS |
| 235231000119100 | Osteophyte of bone | UNS |
| 23680005 | Enthesopathy | UNS |
| 239720000 | Tear of meniscus of knee | KNE |
| 239732001 | Disorder of patellofemoral joint | KNE |
| 239733006 | Anterior knee pain | KNE |
| 239863005 | Osteoarthritis of spinal facet joint | SPN |
| 239865003 | Osteoarthritis of acromioclavicular joint | SHD |
| 239866002 | Osteoarthritis of elbow | ELB |
| 239867006 | Osteoarthritis of wrist | WRT |
| 239868001 | Osteoarthritis of finger joint | FTB |
| 239872002 | Osteoarthritis of hip | HIP |
| 239873007 | Osteoarthritis of knee | KNE |
| 239874001 | Osteoarthritis of ankle | ANK |
| 239877008 | Osteoarthritis of first metatarsophalangeal joint | FOT/TOE |
| 239878003 | Osteoarthritis of toe joint | TOE |
| 239880009 | Lumbar spondylosis | BCK |
| 239960007 | Impingement syndrome of shoulder | SHD |
| 239961006 | Bursitis of shoulder | SHD |
| 240003004 | Suprapatellar bursitis | KNE |
| 240008008 | Synovial cyst of knee | KNE |
| 240131006 | Rhabdomyolysis | UNS |
| 240203005 | Rupture of Baker's cyst - knee | KNE |
| 240205003 | Synovial cyst | UNS |
| 240261009 | Generalised benign joint hypermobility | MSW |
| 240631000000102 | Suspected fracture or dislocation | UNS |
| 24424003 | Closed fracture of phalanx of finger | FTB |
| 24693007 | Myofascial pain syndrome | MSW |
| 247366003 | Acute back pain with sciatica | BCK |
| 247369005 | Facet joint pain | SPN |
| 247373008 | Ankle pain | ANK |
| 248491001 | Swollen knee | KNE |
| 250082003 | Hand cramps | HND |
| 250102002 | Unstable knee | KNE |
| 25415003 | Closed fracture of femur | LEG |
| 25899002 | Closed bimalleolar fracture | ANK |
| 262520005 | Thumb injury | FTB |
| 262965006 | Strain of back muscle | BCK |
| 262971000 | Tendon injury - hand | HND |
| 262981001 | Rupture of gastrocnemius tendon | LEG |
| 262992000 | Hamstring sprain | LEG |
| 263021005 | Anterior dislocation of shoulder joint | SHD |
| 263051004 | Subluxation of shoulder joint | SHD |
| 263054007 | Subluxation of finger | FTB |
| 263055008 | Subluxation of thumb | FTB |
| 263058005 | Subluxation of knee joint | KNE |
| 263084004 | Fracture dislocation of finger or thumb | FTB |
| 263128001 | Sprain of ligament of elbow | ELB |
| 263129009 | Sprain of ligament of finger | FTB |
| 263130004 | Sprain of ligament of thumb | FTB |
| 263133002 | Sprain of lateral ligament of ankle joint | ANK |
| 263199001 | Fracture of distal end of radius | ARM/WRT |
| 263225007 | Fracture of proximal end of femur | HIP |
| 263233008 | Closed fracture of femur, distal end | LEG/KNE |
| 263244000 | Bimalleolar fracture of ankle | ANK |
| 263246003 | Fracture of talus | FOT |
| 263247007 | Fracture of calcaneus | FOT |
| 263251009 | Metatarsal bone fracture | FOT |
| 26538006 | Degeneration of lumbar intervertebral disc | BCK |
| 267039000 | Swollen ankle | ANK |
| 267109007 | Symptom of ankle or foot | ANK/FOT |
| 267889007 | Generalised osteoarthritis of the hand | HND |
| 267949000 | Shoulder joint pain | SHD |
| 267953003 | Arthralgia of the lower leg | LEG |
| 267954009 | Arthralgia of the ankle and/or foot | ANK/FOT |
| 267970006 | Cervical spondylosis without myelopathy | NCK |
| 267981009 | Pain in thoracic spine | TXS |
| 267982002 | Pain in lumbar spine | BCK |
| 269062008 | Closed fracture of cervical spine | NCK |
| 269080004 | Closed fracture of lower end of humerus | ARM/ELB |
| 269083002 | Closed Colles' fracture | WRT |
| 269105005 | Dislocation or subluxation of shoulder | SHD |
| 269111008 | Dislocation or subluxation of finger or thumb | FTB |
| 269112001 | Dislocation or subluxation of knee | KNE |
| 269113006 | Acute meniscal tear medial | KNE |
| 270476009 | Wry neck/torticollis | NCK |
| 270887007 | Rupture of popliteal space synovial cyst | KNE |
| 271587009 | Stiffness | UNS |
| 271771009 | Joint swelling | UNS |
| 27182002 | Sprain of acromioclavicular ligament | SHD |
| 272009001 | Complaining of a back symptom | BCK |
| 272014002 | Complaining of foot symptom | FOT |
| 2733002 | Heel pain | FOT |
| 274142002 | Dupuytren's contracture | HND |
| 274160002 | Fracture of phalanx of thumb | FTB |
| 274162005 | Thoracic back sprain | TXS |
| 274179004 | Traumatic haematoma | UNS |
| 2764000 | Joint crepitus | UNS |
| 27741009 | Calcific tendinitis of shoulder | SHD |
| 277890004 | Swollen toe | TOE |
| 278860009 | Chronic low back pain | BCK |
| 278862001 | Acute low back pain | BCK |
| 279029001 | Pain in cervical spine | NCK |
| 279035001 | Acute thoracic back pain | BCK |
| 279038004 | Thoracic back pain | TXS |
| 279039007 | Low back pain | BCK |
| 279040009 | Mechanical low back pain | BCK |
| 279043006 | Pain in buttock | HIP/BCK |
| 279069000 | Musculoskeletal pain | UNS |
| 281531008 | Fracture of medial malleolus | KNE |
| 281535004 | Fracture of lateral malleolus | ANK |
| 281543009 | Strain of tendon of medial thigh muscle | HIP/LEG |
| 281598004 | Sprain of spinal ligament | BCK |
| 281792000 | Swollen lower leg | LEG |
| 281974002 | Weber type B fracture | ANK |
| 281975001 | Weber type A fracture | ANK |
| 282026002 | Soft tissue injury | UNS |
| 282766005 | Lower back injury | BCK |
| 282775007 | Calf injury | LEG |
| 282776008 | Injury of toe | TOE |
| 283858004 | Crush injury of thumb | FTB |
| 285365001 | Pain in toe | TOE |
| 285395009 | Strain of calf muscle | LEG |
| 29210001 | Trochanteric tendinitis | HIP |
| 297142003 | Swollen foot | FOT |
| 297193007 | Ganglion of hand | HND |
| 297194001 | Ganglion of foot | FOT |
| 298382003 | Scoliosis deformity of spine | BCK |
| 298494008 | Scoliosis of thoracic spine | TXS |
| 298857005 | Shoulder joint painful on movement | SHD |
| 299037003 | Swollen hand | HND |
| 299060006 | Swelling of finger | FTB |
| 299331007 | Bandy legged | LEG |
| 30085007 | Morton metatarsalgia | TOE |
| 300954003 | Pain in calf | LEG |
| 300955002 | Pain in thumb | FTB |
| 301813003 | Irritable hip | HIP |
| 302222008 | Elbow fracture - closed | ELB |
| 302941001 | Nonunion of fracture | UNS |
| 30556007 | Recurrent dislocation of shoulder region | SHD |
| 30760008 | Finger clubbing | FTB |
| 308153009 | Closed fracture of distal fibula | ANK/LEG |
| 309246000 | Osteoarthritis of foot joint | FOT |
| 309567004 | Toe problem | TOE |
| 30989003 | Knee pain | KNE |
| 310483003 | Complaining of pain in toe | TOE |
| 310484009 | Complaining of pain in hallux | TOE |
| 311804006 | Prolapsed lumbar intervertebral disc with sciatica | BCK |
| 311821002 | Closed fracture of great toe | TOE |
| 312225001 | Musculoskeletal and connective tissue diseases | UNS |
| 314916002 | Swollen thumb | FTB |
| 31975004 | Fracture of navicular bone of wrist | WRT |
| 31978002 | Fracture of tibia | LEG |
| 3199001 | Sprain of shoulder | SHD |
| 33173003 | Closed fracture of clavicle | SHD |
| 33192001 | Closed fracture of lower end of radius AND ulna | ARM/WRT |
| 33308003 | Disorder of back | BCK |
| 342070009 | Closed fracture of foot | FOT |
| 34268009 | Closed fracture of lateral malleolus | ANK |
| 34789001 | Pain in the coccyx | BCK |
| 34840004 | Tendinitis | UNS |
| 35678005 | Multiple joint pain | MSW |
| 359532006 | Rotator cuff impingement syndrome | SHD |
| 359817006 | Closed fracture of hip | HIP |
| 359820003 | Closed fracture of neck of femur | HIP |
| 360450007 | Strain of neck muscle | NCK |
| 36071006 | Chondromalacia of patella | KNE |
| 36186002 | Polyarthropathy | MSW |
| 36427004 | Intervertebral disc disorder | SPN |
| 36924003 | Closed fracture of metatarsal bone | FOT |
| 371081002 | Arthritis of knee | KNE |
| 371598009 | Heberden node | FTB |
| 37785001 | Patellar tendonitis | KNE |
| 37895003 | Osteoarthrosis of the carpometacarpal joint of the thumb | FTB |
| 387800004 | Cervical spondylosis | NCK |
| 387802007 | Thoracic spondylosis | TXS |
| 396275006 | Osteoarthritis | UNS |
| 39848009 | Whiplash injury to neck | NCK |
| 398878007 | Sprain of ligament | UNS |
| 399114005 | Adhesive capsulitis of shoulder | SHD |
| 399269003 | Arthropathy | UNS |
| 399346004 | Supraspinatus tear | SHD |
| 40144003 | Morning stiffness - joint | UNS |
| 404098005 | Digital mucous cyst | FTB/TOE |
| 4046000 | Degenerative spondylolisthesis | BCK |
| 405817008 | Fracture of phalanx of hand | FTB |
| 40799003 | Subacromial bursitis | SHD |
| 4106009 | Rotator cuff syndrome | SHD |
| 413428007 | Acquired kyphosis | TXS |
| 413875004 | Closed fracture of head of humerus | SHD |
| 414293001 | Fracture of tibia AND fibula | LEG |
| 41511005 | Open fracture of distal phalanx of finger | FTB |
| 415692008 | Swelling of first metatarsophalangeal joint of hallux | TOE |
| 416189003 | Exostosis | UNS |
| 416209007 | Synovitis | UNS |
| 417076003 | Dislocation of shoulder joint | SHD |
| 417109008 | Subluxation of radial head | ARM/ELB |
| 417163006 | Traumatic AND/OR non-traumatic injury | UNS |
| 417558002 | Dislocation of elbow joint | ELB |
| 417746004 | Traumatic injury | UNS |
| 418237007 | Pain in hallux | TOE |
| 42188001 | Closed fracture of ankle | ANK |
| 423849004 | Iliotibial band friction syndrome | LEG |
| 424648000 | Closed fracture of base of fifth metatarsal bone | FOT |
| 425940002 | Olecranon bursitis | ELB |
| 42636007 | Closed fracture of upper end of humerus | ARM/SHD |
| 42786005 | Snapping thumb syndrome | FTB |
| 428151000 | Closed fracture of bone of knee joint | KNE |
| 42818005 | Closed fracture of scaphoid bone of wrist | WRT |
| 428257007 | Fracture of tibial plateau | KNE |
| 428883008 | Rupture biceps tendon | ARM |
| 429513001 | Rupture Achilles tendon | ANK/LEG |
| 4308002 | Repetitive strain injury | UNS |
| 432473000 | Femoral acetabular impingement | HIP |
| 43295006 | Closed fracture of humerus | ARM |
| 43422002 | Crushing injury of foot | FOT |
| 442048005 | Tenosynovitis of wrist | WRT |
| 442056008 | Torus fracture | UNS |
| 442085002 | Greenstick fracture | UNS |
| 442520000 | Inflammation of rotator cuff tendon | SHD |
| 443700006 | Disorder of lumbar disc | BCK |
| 443798008 | Arthritis of shoulder region joint | SHD |
| 44465007 | Sprain of ankle | ANK |
| 445008009 | Ganglion | UNS |
| 447139008 | Closed fracture of tibia | LEG |
| 447395005 | Closed fracture of fibula | LEG |
| 448355005 | Greenstick fracture of distal radius | ARM/WRT |
| 448394006 | Inflammation of joint of foot | FOT |
| 448589005 | Arthritis of hand | HND |
| 449917004 | Cramp in lower limb | LEG |
| 450521003 | Osteoarthritis of patellofemoral joint | KNE |
| 45231001 | Infrapatellar bursitis | KNE |
| 45326000 | Shoulder pain | SHD |
| 45352006 | Spasm of muscle | UNS |
| 45613006 | Contusion of lower leg | LEG |
| 46866001 | Fracture of lower limb | LEG |
| 47933007 | Foot pain | FOT |
| 481000119104 | Strain of hamstring muscle | LEG |
| 48210000 | Lumbosacral spondylosis without myelopathy | BCK |
| 48532005 | Muscle strain | UNS |
| 49218002 | Hip pain | HIP |
| 49388007 | Sprain of foot | FOT |
| 51037009 | Fracture of patella | KNE |
| 52011008 | Injury of finger | FTB |
| 53057004 | Hand pain | HND |
| 53208009 | Peroneal tendinitis | ANK/FOT |
| 53226007 | Pes planus | FOT |
| 53286005 | Medial epicondylitis of elbow joint | ELB |
| 53627009 | Closed fracture of radius AND ulna | ARM/WRT |
| 54556006 | Fracture of ulna | ARM/WRT |
| 54888009 | Sprain of knee | KNE |
| 55146009 | Sacroiliitis | BCK |
| 55260003 | Calcaneal spur | FOT |
| 55300003 | Cramp | UNS |
| 56608008 | Pain in wrist | WRT |
| 57406009 | Carpal tunnel syndrome | WRT/HND |
| 57676002 | Joint pain | UNS |
| 58150001 | Fracture of clavicle | SHD |
| 58580000 | Closed supracondylar fracture of humerus | ARM/ELB |
| 58781003 | Gluteal tendinitis | HIP |
| 5913000 | Fracture of neck of femur | HIP |
| 61007003 | Separation of symphysis pubis during delivery | HIP |
| 62629000 | Divarication of recti | ABD |
| 637091000000105 | Osteoarthritis NOS, of the lower leg | KNE |
| 64217002 | Curvature of spine | TXS/BCK |
| 64298006 | Mallet finger | FTB |
| 64455005 | Fracture of acetabulum | HIP/SHD |
| 64665009 | Closed fracture of calcaneus | FOT |
| 65260001 | Cervical spondylosis with myelopathy | NCK |
| 65358001 | Acquired hallux valgus | TOE |
| 65966004 | Fracture of forearm | ARM |
| 66308002 | Fracture of humerus | ARM |
| 6654000 | Acquired hallux rigidus | TOE |
| 6698000 | Closed trimalleolar fracture | ANK |
| 67315001 | Degenerative joint disease of shoulder region | SHD |
| 67801009 | Tenosynovitis | HND |
| 68449006 | Arthritis of hip | HIP |
| 6858004 | Capsulitis | UNS |
| 68854005 | Closed fracture of head of radius | ARM/ELB |
| 68962001 | Muscle pain | UNS |
| 69195002 | Degeneration of cervical intervertebral disc | NCK |
| 699062006 | Injury of shoulder and upper arm | SHD/ARM |
| 699370008 | Symptom of foot | FOT |
| 699462004 | Monoarthritis | UNS |
| 70070008 | Torticollis | NCK |
| 704213001 | Closed fracture of phalanx of thumb | FTB |
| 70704007 | Sprain of wrist | WRT |
| 712893003 | Traumatic and/or non-traumatic injury of back | BCK |
| 71620000 | Fracture of femur | LEG |
| 72047008 | Osgood Schlatter disease | KNE |
| 721291009 | Disorder of patella, unspecified | KNE |
| 73589001 | Intervertebral disc prolapse | SPN |
| 74323005 | Pain in elbow | ELB |
| 74779009 | Strain of rotator cuff capsule | SHD |
| 74814004 | Contusion of foot | FOT |
| 75308009 | Closed fracture of navicular bone of foot | FOT |
| 75591007 | Fracture of fibula | LEG |
| 75857000 | Fracture of radius AND ulna | ARM |
| 76107001 | Spinal stenosis | BCK |
| 7674000 | Greater trochanteric pain syndrome | HIP |
| 76865005 | Closed fracture of distal phalanx of finger | FTB |
| 771083005 | Pain in upper arm | ARM |
| 77493009 | Fracture of pelvis | HIP |
| 77547008 | Degeneration of intervertebral disc | SPN |
| 78435003 | Ganglion of joint | UNS |
| 78514002 | Thigh pain | LEG |
| 788465007 | Repetitive motion disorder | UNS |
| 789758005 | Strain of rotator cuff of shoulder | SHD |
| 80068009 | Swelling of limb | LEG/ARM |
| 80692000 | Late effect of tendon injury | UNS |
| 80756009 | Closed fracture of patella | KNE |
| 81498004 | Bursitis of hip | HIP |
| 81576005 | Closed fracture of phalanx of foot | FOT/TOE |
| 81680005 | Neck pain | NCK |
| 81902001 | Sprain of medial collateral ligament of knee | KNE |
| 82423001 | Chronic pain | UNS |
| 82675004 | Baker's cyst | KNE |
| 82991003 | Generalized aches and pains | MSW |
| 83561009 | Spinal stenosis in cervical region | NCK |
| 84017003 | Bursitis | UNS |
| 84445001 | Joint stiffness | UNS |
| 84869007 | Musculoskeletal symptoms | UNS |
| 85551004 | Hypermobility syndrome | MSW |
| 86380000 | Acquired claw toes | TOE |
| 870206000 | Weber type A fracture | ANK |
| 870207009 | Weber type B fracture | ANK |
| 87778004 | Sprain of hand | HND |
| 8847002 | Spondylosis | SPN |
| 88998003 | Osteophyte | UNS |
| 90460009 | Injury of neck | NCK |
| 906591000006102 | Soft tissue injuries | UNS |
| 90834002 | Pain in limb | ARM |
| 91037003 | Closed fracture of pelvis | HIP |
| 926335004 | Rupture of rotator cuff of shoulder | SHD |
| 928000 | Disorder of musculoskeletal system | UNS |
| 939761000006103 | Musculoskeletal pain mild | UNS |
| 9468002 | Closed fracture of carpal bone | WRT/HND |
| 95414005 | Calcific tendinitis | UNS |
| 95854004 | Pulled elbow | ELB |
| 9682006 | Fracture of scapula | SHD |
| 9808005 | Closed fracture of cuboid bone of foot | FOT |
| 1931871000006102 | Suspected fracture | UNS |
| **ABD** Abdomen; **ANK** Ankle; **ARM** Arm; **BCK** Back/lumbar spine; **CHE** Chest; **ELB** Elbow; **FOT** Foot; **FTB** Finger(s)/thumb; **HIP** Hip/pelvis; **HND** Hand; **KNE** Knee; **LEG** Leg; **MSW** Multiple-site/widespread; **NCK** Neck/cervical spine; **SHD** Shoulder; **SKF** Skull/head/face; **SPN** Spine; **TNK** Trunk, **TOE** Toe; **TXS** Thoracic spine; **UNS** Unspecified body region; **WRT** Wrist | | |