1. 16614 codes from working file for MIDAS including all SNIPE codes.
2. Merged to sites from 7269 Read codes used in (and since updated) Jordan KP, Kadam UT, Hayward R, Porcheret M, Young C, Croft P. Annual consultation prevalence of regional musculoskeletal problems in primary care: an observational study. BMC Musculoskeletal Disorders, 2010; 11:144 (and presumably Tan el al. 2018). Checked no obvious codes missing from 16614 compared to 7269.
3. Excluded those coded as malignancy or referral in SNIPE; removed fractures, procedures, spinal cord, open wound, nerve injuries, H/O, questionnaires, amputation, superficial injury, bruise, contusion, burn, congenital

?on examination, pathological dislocation, dislocation, subluxation - kept

?tuberculosis, villonodular synovitis, monitoring/ annual review, osteoporosis collapse/fracture - dropped

1. **Consensus of JPr, MT, KDu, JB, KJ 11/8/22** on types of MSK to include. Decided to keep non-fracture trauma (exclude fracture and crush injury), pain associated with other conditions such as infection. See Categories for selection after consensus.xlsx

**Post consensus: amputation moved to excluded as procedure. Acquired moved to included as often not defined as acquired or congenital. Chap F excluded as due to nervous system**

From prior assessment: acquired deformity. bruise/contusion, congenital, pathological dislocation, subluxation, tuberculosis, villonodular synovitis, monitoring/annual review, osteoporosis, malignancy, O/E, chest pain, head/face pain, rheumatic fever are INCLUDED (but may be removed with others for prognosis).

EXCLUDED:, amputation (as a procedure), cellulitis, crush injury, degloving, diabetes neuropathy, division, fracture, haemarthrosis, H/O, nerve injury, investigations, lesion, lump, mycosis, neuralgia/neuritis, neuropathic pain, open wound, pathological fracture, procedures, referrals, spinal cord, superficial injury, questionnaires, Chap F.

1. **Revised Consensus of JPr, MT, KDu, FM, KJ Oct 22** on types of MSK to include:

INCLUDED

Obvious MSK pain such as knee pain, shoulder pain, JIA, etc, Acquired deformity, bone marrow oedema syndrome (NEW), Bruise/contusion, Chest pain if not recorded as cardiac(CHECK), Congenital, Head/face pain, Malignancy with bone/joint involvement, Monitoring/annual review, O/E (On Examination) relevant symptoms, Pathological dislocation, subluxation, Psychogenic(CHECK), Transient osteoporosis (NEW), Tuberculosis related to MSK, Villonodular synovitis

EXCLUDED

Abscess, Amputation/disarticulation (as a procedure), Cellulitis, Crush injury, Degloving, Diabetes neuropathy, Division, Dupuytren's contracture, Fracture, H/O, Hemarthrosis, Infection, Investigations, Lesion, Lump, Lupus, Mycosis, Nerve injury, Neuralgia/neuritis, Neuropathic pain, Open wound, Osteomyelitis, Osteoporosis unless specifically diagnosed in children (see Included), Pathological fracture, Procedures (Read codes starting 7), Questionnaires/tools, Nervous system codes, Referrals, Rheumatic fever/heart ,Spinal cord involvement, Superficial injury, Viral, Bacterial, Climacteric, Sexual, Collapse, Sequelae

Checks

1. against original MSK code list – 33 concept IDs not included in 16614 but in final MIDAS list – JB checked against Aurum browser;
2. Checked against suggestions by JP and MT – done
3. JB checked in Aurum browser to get counts of use in AURUM, other Medcodes within included Concept ID and other Medcodes with same term. This increased number to 16764.
4. Consensus from group: KD, JP, FM, KJ, MT - done
5. Checked ordering by Read code - done
6. Searched included for excluded terms and included for excluded terms - done
7. Check of counts of included and down to counts <1000 - done
8. Check of concept IDs which had included and excluded codes - done
9. Check concept IDs again - done
10. check specified diagnoses in erap - done

*6744 included – see “MSK codes after initial consensus 11 Oct 2022” and “MSK codes for inclusion 17 Oct 2022 n=6744” EXCEL files*

Final check: JB checked against Aurum browser which did not include 1211/6744 codes. These were all the codes with zero count. After checking next browser reiteration, another 13 codes were removed but 54 codes added back in. So final total is 5574.

These were allocated to body site by KJ based on SNIPE definitions, with checking and codes not included in SNIPE allocated by KJ.

“*MSK codes for inclusion n=5574 31 Oct 2022 with body site”*

FM then removed 1 code “Diastasis recti” which was removed along with “Diastasis of muscle”, “Divarification of recti” and “Divarication of recti”

“*MSK codes for inclusion FINAL n=5570 15 Nov 2022 with body site”*