

Table A1: ICD-10 codes for the identification of nine pain-related conditions

Osteoarthritis	M18.9, M17.9, M47.9, M18.10, M15.9, M47.899, M19.90, M19.049, M15.0, M19.039, M16.9, M18.0, M15.1, M17.10, M15.2, M15.4, M17.0, M16.0, M16.10, M15.8, M15.3, M17.30, M16.30, M16.50, M16.6, M18.50, M16.7, M17.4, M17.2, M16.2, M18.2, M16.4, M18.30, M19.071, M17.5, M19.019, M19.271, M19.079, M19.011, M19.072, M19.041, M19.172, M19.111, M19.029, M19.012, M18.4, M19.119, M19.219, M19.272, M19.279, M19.171, M19.042, M19.112, M19.141, M19.149, M19.031, M19.021, M19.179, M19.0, M19.032, M19.242, M19.2, M19.241, M19.022
Fibromyalgia	M79.7
Back pain	M54.5, M54.9, M54.89, M51.26, M54.40, M54.2, M43.10, M51.9, M54.30, M54.10, M43.00, M54.6, M53.1, M53.3, M43.8X9, M43.9, M51.24, M43.20, M53.9, M51.34, M51.17, M51.86, M51.16, M43.3, M53.0, M51.06, M51.47, M51.05, M51.25, M53.80, M51.36, M43.5X9, M51.46, M51.35, M51.84, M51, M51.37, M51.2, M43.4, M51.27, M51.15, M51.45, M51.87, M51.85, M51.1, M51.0
Neck/shoulder pain	M43.6, M54.2, M25.50, M50*, M53.0, M53.1,
Cancer	C00*-D49*
Bone fractures	S62.90XA, T14.8, T07, S92.309A, S52.90XA, S22.009A, S22.39XA, S32.10XA, S72.90XA, S62.309A, S42.009A, S62.109A, S42.309A, S82.209A, S82.009A, S72.009A, S82.409A, S92.009A, S42.409A, S32.009A, S82.90XA, S22.20XA, M80.80XA, S82.899A, S62.009A, S32.2XXA, S32.9XXA, S42.209A, S82.66XA, S42.109A, S82.56XA, S62.209A, S82.109A, S72.109A, S32.309A, S92.109A, S22.49XA, S82.309A, S72.26XA, S32.409A, S32.509A, S72.409A, S72.309A, S22.5XXA, S72.8X9A
Cough	R05
Falls	W19.XXXA, W00.0XXA, W01.0XXA, W06.XXXA, W10.9XXA, W08.XXXA, W10.1, W03.XXXA, W00.9XXA, W18.39XA, W01.0, W16.42XA, W12.XXXA, W07.XXXA, W15.XXXA, W05.0XXA, V00.891A, W14.XXXA, W11.XXXA, W17.89XA, W18.30, W13.9XXA, W09.8XXA, W18.01XS, W04.XXXA, W13.3XXS, W13.3XXD, W13.3XXA, W10.8, W10.1XXS, W13.3, W01.198D, W10.8XXS, W18.31XS, W18.30XA, W18.09, W17.81, W06.XXXD, W18.30XD, W13.2XXA, W01.198A, W01.10XS, W18.30XS, W18.39, W00.0XXS, W10.8XXD, W06, W10.8XXA, W01.190A
Major surgeries (Joint replacement, limb amputation)	Z96.6, Y83.5

**All subcodes included*