



## Supplementary Material

10.1302/2046-3758.121.BJR-2022-0275.R1

**Table i.** International Classification of Diseases (ICD)-9 and ICD-10 diagnosis codes used for the semiparametric Cox regression models.

Condition	ICD-9	ICD-10
Osteoporosis	733.0x	M80.x, M81.x
Osteoporotic fracture	733.1x	M80.x, M8.4x
Diabetes mellitus	250.x	E08.x, E09.x, E10.x, E11.x, E13.x
Morbid obesity	278.01, V85.4x	E66.01x, E66.2x, Z68.4x
Rheumatoid disease	714.0x	M05.4x, M05.5x, M05.7x, M05.8x, M05.9x, M06.0x, M06.2x, M06.3x, M06.8x, M06.9x
Chronic kidney disease	585.x	N18.x
Tobacco dependency	305.1x	F17.20x, F17.21x, F17.22x, F17.29x
Anticoagulant use	V58.61x	Z79.01x
Opioid use	304.0x, 304.7x, 305.5x	F11.1x, F11.2x, F11.9x
NSAID use	V586.4x	Z79.1x
Hypertension	401.x, 402.x, 403.x, 404.x, 405.x	I11.x, I12.x, I13.x, I14.x, I15.x
Ischaemic heart disease	410.x, 411.x, 412.x, 413.x, 414.x	I21.x, I22.x, I23.x, I24.x, I25.x
Cerebrovascular disease	430.x, 431.x, 432.x, 433.x, 434.x, 435.x, 436.x, 437.x, 438.x	I60.x, I61.x, I62.x, I63.x, I64.x, I65.x, I66.x, I67x, I68.x, I69.x
Chronic obstructive pulmonary disease	491.2x, 493.2x, 496.x, 518.8x	J44.x
Congestive heart disease	428.0x, 428.1x, 428.2x, 428.3x, 428.4x, 428.9x	I50.x
Fall-related	E88.x, E98.7x	W0x, W1x
Vehicle crash-related	E81x, E820x, E821x, E822x, E823x, E824x, E825x	V0x, V1x, V2x, V3x, V4x, V5x, V6x, V7x

ICD, International Classification of Diseases; NSAID, non-steroidal anti-inflammatory drug.