

Table S1 Associations of RA with articular symptoms in time periods 0 to 12, 0 to 24 and 12 to 24 months before the index date

0 to 12 months before index date				
Shoulder problems	394 (11.01)	426 (2.98)	3.97 (3.44, 4.58)	3.08 (2.65, 3.59)
Neck problems	202 (5.65)	286 (2)	2.93 (2.43, 3.52)	2.29 (1.88, 2.78)
Foot problems	258 (7.21)	280 (1.96)	3.96 (3.32, 4.73)	3.19 (2.65, 3.83)
Hand problems	500 (13.98)	104 (0.73)	25.75 (20.19, 32.83)	23.75 (18.49, 30.51)
Jaw pain	21 (0.59)	35 (0.24)	2.40 (1.40, 4.12)	2.08 (1.17, 3.71)
Frozen shoulder	52 (1.45)	49 (0.34)	4.35 (2.93, 6.45)	3.06 (2.01, 4.66)
Joint symptoms	2139 (59.8)	2108 (14.75)	9.49 (8.65, 10.41)	7.98 (7.26, 8.77)
Palindromic				
rheumatism	11 (0.3)	0 (0.00)	NE	NE
0 to 24 months before index date				
Shoulder problems	541 (15.12)	775 (5.42)	3.15 (2.80, 3.55)	2.57 (2.27, 2.91)
Neck problems	320 (8.95)	533 (3.73)	2.54 (2.20, 2.94)	2.07 (1.78, 2.40)
Foot problems	358 (10.01)	497 (3.48)	3.11 (2.69, 3.59)	2.57 (2.21, 2.98)
Hand problems	581 (16.24)	228 (1.6)	12.85 (10.83, 15.25)	11.44 (9.60, 13.63)
Jaw pain	35 (0.98)	63 (0.44)	2.23 (1.48, 3.38)	1.69 (1.09, 2.61)
Frozen shoulder	76 (2.12)	94 (0.66)	3.34 (2.45, 4.54)	2.73 (1.98, 3.77)
Joint symptoms	2457 (68.69)	3499 (24.49)	7.55 (6.91, 8.26)	6.60 (6.03, 7.23)
Palindromic				
rheumatism				
12 to 24 months before index date				
Shoulder problems	183 (5.12)	404 (2.83)	1.86 (1.55, 2.22)	1.58 (1.32, 1.90)

Neck problems	136 (3.8)	277 (1.94)	2.00 (1.62, 2.46)	1.75 (1.42, 2.17)
Foot problems	131 (3.66)	242 (1.69)	2.19 (1.77, 2.72)	1.90 (1.53, 2.37)
Hand problems	97 (2.71)	128 (0.9)	3.16 (2.41, 4.14)	2.70 (2.05, 3.56)
Jaw pain	14 (0.39)	30 (0.21)	1.87 (0.99, 3.52)	1.48 (0.77, 2.82)
Frozen shoulder	25 (0.70)	48 (0.34)	2.11 (1.29, 3.44)	1.94 (1.18, 3.17)
Joint symptoms	957 (26.75)	2026 (14.18)	2.28 (2.08, 2.49)	2.01 (1.83, 2.21)
Palindromic				
rheumatism	13 (0.36)	^b	52.00 (6.80, 397.50)	45.92 (5.96, 353.71)

Table S2 Associations of RA with non-articular symptoms in time periods 0 to 12, 0 to 24 and 12 to 24 months before the index date

0 to 12 months before index date				
Fatigue	148 (4.14)	434 (3.04)	1.38 (1.14, 1.68)	0.92 (0.75, 1.13)
Falls	6 (0.17)	26 (0.18)	0.91 (0.35, 2.39)	0.41 (0.14, 1.18)
Altered sensations	70 (1.96)	148 (1.04)	1.91 (1.44, 2.55)	1.24 (0.91, 1.68)
Occurred postnatally	34 (0.95)	81 (0.57)	1.73 (1.14, 2.62)	1.23 (0.80, 1.90)
Psychological problems	191 (5.34)	614 (4.3)	1.27 (1.07, 1.51)	0.76 (0.63, 0.91)
Flu-like illness	42 (1.17)	145 (1.01)	1.13 (0.80, 1.61)	0.75 (0.52, 1.10)
Morning stiffness	22 (0.62)	6 (0.04)	14.67 (5.95, 36.17)	9.72 (3.84, 24.60)
Unintentional weight loss	36 (1.01)	58 (0.41)	2.53 (1.66, 3.86)	1.69 (1.08, 2.66)
Physical functioning problems	18 (0.5)	33 (0.23)	2.18 (1.23, 3.87)	1.14 (0.61, 2.13)
Cramps	37 (1.03)	79 (0.55)	1.89 (1.28, 2.81)	1.40 (0.92, 2.11)
Weakness	17 (0.48)	27 (0.19)	2.55 (1.38, 4.72)	1.61 (0.83, 3.14)
Sleep problems	18 (0.5)	69 (0.48)	1.05 (0.61, 1.78)	0.61 (0.34, 1.08)

Muscle pain	72 (2.01)	69 (0.48)	4.17 (3.00, 5.81)	3.15 (2.22, 4.47)
Restless legs	12 (0.34)	17 (0.12)	2.90 (1.37, 6.14)	1.34 (0.59, 3.03)
Carpal tunnel syndrome	114 (3.19)	67 (0.47)	7.19 (5.27, 9.80)	6.09 (4.39, 8.46)
0 to 24 months before index date				
Fatigue	260 (7.27)	751 (5.26)	1.42 (1.23, 1.65)	1.04 (0.89, 1.21)
Falls	8 (0.22)	52 (0.36)	0.57 (0.26, 1.27)	0.30 (0.13, 0.70)
Altered sensations	120 (3.35)	273 (1.91)	1.78 (1.43, 2.21)	1.30 (1.03, 1.63)
Occurred postnatally	61 (1.71)	157 (1.1)	1.66 (1.20, 2.28)	1.29 (0.93, 1.80)
Psychological problems	291 (8.14)	1052 (7.36)	1.12 (0.98, 1.29)	0.75 (0.65, 0.87)
Flu-like illness	84 (2.35)	260 (1.82)	1.29 (1.00, 1.66)	0.92 (0.70, 1.21)
Morning stiffness	23 (0.64)	8 (0.06)	11.50 (5.14, 25.71)	8.10 (3.54, 18.5)
Unintentional weight loss	53 (1.48)	103 (0.72)	2.11 (1.50, 2.96)	1.56 (1.09, 2.22)
Physical functioning problems	25 (0.70)	57 (0.4)	1.76 (1.10, 2.82)	1.12 (0.68, 1.85)
Cramps	61 (1.71)	144 (1.01)	1.73 (1.27, 2.34)	1.29 (0.94, 1.78)
Weakness	29 (0.81)	49 (0.34)	2.40 (1.51, 3.82)	1.64 (1.01, 2.66)
Sleep problems	38 (1.06)	122 (0.85)	1.26 (0.87, 1.82)	0.88 (0.59, 1.30)
Muscle pain	94 (2.63)	134 (0.94)	2.85 (2.18, 3.72)	2.34 (1.77, 3.09)
Restless legs	16 (0.45)	32 (0.22)	2.04 (1.11, 3.75)	1.46 (0.77, 2.77)
Carpal tunnel syndrome	156 (4.36)	120 (0.84)	5.49 (4.30, 7.02)	4.57 (3.54, 5.88)
12 to 24 months before index date				
Fatigue	131 (3.66)	376 (2.63)	1.41 (1.15, 1.73)	1.16 (0.94, 1.43)
Falls	^b	28 (0.2)	0.27 (0.06, 1.15)	0.18 (0.04, 0.79)
Altered sensations	54 (1.51)	138 (0.97)	1.57 (1.14, 2.15)	1.31 (0.95, 1.80)
Occurred postnatally	32 (0.89)	81 (0.57)	1.63 (1.07, 2.49)	1.32 (0.86, 2.03)
Psychological problems	150 (4.19)	593 (4.15)	1.01 (0.84, 1.22)	0.79 (0.65, 0.95)

Flu-like illness	45 (1.26)	124 (0.87)	1.46 (1.04, 2.07)	1.18 (0.83, 1.68)
Morning stiffness	^b	^b	2.00 (0.18, 22.06)	0.93 (0.08, 10.64)
Unintentional weight loss	20 (0.56)	46 (0.32)	1.74 (1.03, 2.94)	1.37 (0.80, 2.34)
Physical functioning problems	12 (0.34)	27 (0.19)	1.79 (0.90, 3.56)	1.45 (0.72, 2.91)
Cramps	27 (0.75)	74 (0.52)	1.47 (0.94, 2.29)	1.17 (0.74, 1.85)
Weakness	13 (0.36)	22 (0.15)	2.36 (1.19, 4.69)	1.90 (0.95, 3.81)
Sleep problems	22 (0.62)	59 (0.41)	1.50 (0.92, 2.46)	1.29 (0.78, 2.13)
Muscle pain	23 (0.64)	69 (0.48)	1.34 (0.83, 2.15)	1.22 (0.75, 1.97)
Restless legs	5 (0.14)	18 (0.13)	1.11 (0.41, 2.99)	1.07 (0.39, 2.89)
Carpal tunnel syndrome	65 (1.82)	69 (0.48)	3.89 (2.75, 5.49)	3.25 (2.29, 4.60)
Palindromic rheumatism	^b	^b	8.00 (0.23, 88.23)	6.93 (0.61, 79.24)