

Appendix A. UK Biobank Codes in the GP Dataset for Identification of Incident (New) Rheumatoid Arthritis (RA)

Read2 code	Read code V3	RA_code	READV2_DESC
38DZ.	XaN2K		1 Disease activity score in rheumatoid arthritis
38DZ0	XaYT6		1 Disease activity score 28 joint in rheumatoid arthritis
66H1.	66H1.		1 Rheumat. initial assessment
N04..	XE1DU		1 Rheumatoid arthritis and other inflammatory polyarthropathies
N04..	X702I		1 Rheumatoid arthritis and other inflammatory polyarthropathies
N040.	N040.		1 Rheumatoid arthritis
N0400	N0400		1 Rheumatoid arthritis of cervical spine
N0401	N0401		1 Other rheumatoid arthritis of spine
N0402	N0402		1 Rheumatoid arthritis of shoulder
N0403	N0403		1 Rheumatoid arthritis of sternoclavicular joint
N0404	N0404		1 Rheumatoid arthritis of acromioclavicular joint
N0405	N0405		1 Rheumatoid arthritis of elbow
N0406	N0406		1 Rheumatoid arthritis of distal radio-ulnar joint
N0407	N0407		1 Rheumatoid arthritis of wrist
N0408	N0408		1 Rheumatoid arthritis of metacarpophalangeal joint
N0409	N0409		1 Rheumatoid arthritis of proximal interphalangeal joint of finger
N040A	N040A		1 Rheumatoid arthritis of distal interphalangeal joint of finger
N040B	N040B		1 Rheumatoid arthritis of hip
N040C	N040C		1 Rheumatoid arthritis of sacro-iliac joint
N040D	N040D		1 Rheumatoid arthritis of knee
N040E	N040E		1 Rheumatoid arthritis of tibio-fibular joint
N040F	N040F		1 Rheumatoid arthritis of ankle
N040G	N040G		1 Rheumatoid arthritis of subtalar joint
N040H	N040H		1 Rheumatoid arthritis of talonavicular joint
N040J	N040J		1 Rheumatoid arthritis of other tarsal joint
N040K	N040K		1 Rheumatoid arthritis of 1st metatarsophalangeal joint
N040L	N040L		1 Rheumatoid arthritis of lesser metatarsophalangeal joint
N040M	N040M		1 Rheumatoid arthritis of interphalangeal joint of toe
N040N	X701I		1 Rheumatoid vasculitis
N040P	X701i		1 Seronegative rheumatoid arthritis

N040R	N0422	1 Rheumatoid nodule
N040S	Xa3gL	1 Rheumatoid arthritis - multiple joint
N0422	N0422	1 Rheumatoid nodule
N042z	N042z	1 Rheumatoid arthropathy with visceral or systemic involvement NOS
N0430	N0430	1 Juvenile rheumatoid arthropathy unspecified
N0431	N0431	1 Acute polyarticular juvenile rheumatoid arthritis
N0432	N0432	1 Pauciarticular juvenile rheumatoid arthritis
N0433	N0433	1 Monarticular juvenile rheumatoid arthritis
N043z	N043z	1 Juvenile rheumatoid arthritis NOS
N0455	X701t	1 Juvenile rheumatoid arthritis
N047.	XaBMO	1 Seropositive erosive rheumatoid arthritis
N04X.	Nyu1G	1 Seropositive rheumatoid arthritis, unspecified
N04z.	N04z.	1 Inflammatory polyarthropathy NOS
N093.	XE1EX	1 Palindromic rheumatism
N093.	X701A	1 Palindromic rheumatism
N093.	XaQbU	1 Palindromic rheumatism
N093.	X701A	1 Palindromic rheumatism
N0930	N0930	1 Palindromic rheumatism of unspecified site
N0931	N0931	1 Palindromic rheumatism of the shoulder region
N0932	N0932	1 Palindromic rheumatism of the upper arm
N0933	N0933	1 Palindromic rheumatism of the forearm
N0934	N0934	1 Palindromic rheumatism of the hand
N0935	N0935	1 Palindromic rheumatism of the pelvic region and thigh
N0936	N0936	1 Palindromic rheumatism of the lower leg
N0937	N0937	1 Palindromic rheumatism of the ankle and foot
N0938	N0938	1 Palindromic rheumatism of other specified site
N0939	N0939	1 Palindromic rheumatism of multiple sites
N093z	N093z	1 Palindromic rheumatism NOS
N2407	N2407	1 Hand rheumatism
Nyu10	Nyu10	1 [X]Rheumatoid arthritis with involvement of other organs or systems
Nyu11	Nyu11	1 [X]Other seropositive rheumatoid arthritis
Nyu12	Nyu12	1 [X]Other specified rheumatoid arthritis
Nyu1G	Nyu1G	1 [X]Seropositive rheumatoid arthritis, unspecified

14G1.	14G1.	2 H/O: rheumatoid arthritis
2G27.	2G27.	2 O/E-hands-rheumatoid spindling
38Vs.	Xaex7	2 Rheumatoid Arthritis Impact of Disease questionnaire
66c0.	XaluF	2 Disease modifying antirheumatic drug monitoring
66H..	XE1T8	2 Rheumatol. disorder monitoring
66H..	XM1XV	2 Rheumatol. disorder monitoring
66H..	XE1T8	2 Rheumatol. disorder monitoring
66H..	XM1Xm	2 Rheumatol. disorder monitoring
66H2.	66H2.	2 Rheumat. follow-up assessment
66H3.	66H3.	2 Rheumat.dis.- joints affected
66H4.	66H4.	2 Rheumat. symptom change
66H5.	66H5.	2 Rheumat. drug side effect
66H6.	66H6.	2 Rheumat. treatment change
66H7.	66H7.	2 Rheumat.dis.treatment started
66H8.	66H8.	2 Rheumat.dis.treatment stopped
66H9.	XaJe6	2 Rheumatology management plan given
66HA.	XaQkf	2 Rheumatology drug monitoring
66HB.	XaQnu	2 Rheumatology disorder annual review
66HB0	XaZdB	2 Rheumatoid arthritis annual review
66HC.	XaQvw	2 Rheumatic disorder annual review invitation
66HZ.	66HZ.	2 Rheumatol.dis. monitoring NOS
7P203	XaLsj	2 Delivery of rehabilitation for rheumatoid arthritis
8H2C.	8H2C.	2 Admit rheumatology emergency
8H3H.	8H3H.	2 Non-urgent rheumatology admisn
8H4B.	8H4B.	2 Referred to rheumatologist
8H4k.	XaQEF	2 Referral to rheumatology special interest general practitioner
8HJC.	8HJC.	2 Rheumatology self-referral
8HKA.	8HKA.	2 Rheumatology D.V. requested
8HLA.	8HLA.	2 Rheumatology D.V. done
8HMA.	8HMA.	2 Listed for Rheumatology admiss
8HTd.	XaJwY	2 Referral to rheumatology clinic
8HVQ.	8HVQ.	2 Private referral to rheumatologist
9b9M.	Xalih	2 Rheumatology

9hR..	XaYSO	2 Exception reporting: rheumatoid arthritis quality indicators
9hR0.	XaYSP	2 Excepted from rheumatoid arthritis quality indicators: patient unsuitable
9hR1.	XaYSR	2 Excepted from rheumatoid arthritis quality indicators: informed dissent
9kN..	XaPKE	2 Disease modifying antirheumatic drug monitoring - enhanced services administration
9kN0.	XaPKD	2 Patient held disease modifying antirheumatic drug therapy record issued - enhanced services administration
9kN1.	XaPEv	2 Date of next disease modifying antirheumatic drug monitoring clinic appointment - enhanced services administration
9kN2.	XaPKI	2 Patient held disease modifying antirheumatic drug therapy record updated - enhanced services administration
9kN3.	XaPDZ	2 Disease modifying antirheumatic drug information leaflet given - enhanced services administration
9kN4.	XaPeT	2 Patient held disease modifying antirheumatic drug therapy record checked - enhanced services administration
9kN5.	XaPeU	2 Disease modifying antirheumatic drug monitoring referred back to secondary care - enhanced services administration
9kN6.	XaQEg	2 Disease modifying antirheumatic drug monitored in primary care - enhanced services administration
9kN7.	XaQEH	2 Disease modifying antirheumatic drug monitored in secondary care - enhanced services administration
9kN8.	XaR4Q	2 Disease modifying antirheumatic drug therapy initiated
9mM..	XaaWW	2 Rheumatoid arthritis monitoring invitation
9mM0.	XaaWt	2 Rheumatoid arthritis monitoring invitation first letter
9mM1.	XaaWu	2 Rheumatoid arthritis monitoring invitation second letter
9mM2.	XaaWv	2 Rheumatoid arthritis monitoring invitation third letter
9mM3.	XaaWw	2 Rheumatoid arthritis monitoring verbal invitation
9mM4.	XaaWx	2 Rheumatoid arthritis monitoring telephone invitation
9N1C0	XaR9V	2 Rheumatology service home visit
9N1O.	9N1O.	2 Seen in rheumatology clinic
9NiK.	XaPNg	2 Did not attend hospital disease monitoring antirheumatic drug monitoring clinic
9NiL.	XaPNh	2 Did not attend general practitioner disease modifying antirheumatic drug monitoring clinic
9NJr.	XaPoD	2 In-house rheumatology follow-up appointment
9NJw.	XaPo8	2 In-house rheumatology
9NkF.	XaPNd	2 Seen in general practitioner disease modifying antirheumatic drug monitoring clinic
9NkG.	XaPNe	2 Seen in community disease modifying antirheumatic drug monitoring clinic
9NkH.	XaPNf	2 Seen in hospital disease modifying antirheumatic drug monitoring clinic
9NIR.	XaAU7	2 Seen by rheumatology nurse specialist
9NIY.	XaZJ8	2 Seen by general practitioner with special interest in rheumatology
9NNT.	XaAPZ	2 Under care of rheumatologist
9Oe..	Xalr8	2 Community disease modifying antirheumatic drug monitoring administration
9Oe5.	XaYOh	2 Community disease modifying antirheumatic drug monitoring call

9Oe50	XaYOk	2 Community disease modifying antirheumatic drug monitoring first letter
9Oe51	XaYOI	2 Community disease modifying antirheumatic drug monitoring second letter
9Oe52	XaYOm	2 Community disease modifying antirheumatic drug monitoring third letter
9Oe6.	XaYPB	2 Community disease modifying antirheumatic drug monitoring verbal invitation
9Oe7.	XaYPE	2 Community disease modifying antirheumatic drug monitoring telephone invitation
F3712	F3712	2 Polyneuropathy in rheumatoid arthritis
F3964	F3964	2 Myopathy due to rheumatoid arthritis
G1...	G1...	2 Chronic rheumatic heart disease
G10..	G10..	2 Chronic rheumatic pericarditis
G100.	G100.	2 Adherent rheumatic pericardium
G101.	G101.	2 Chronic rheumatic mediastinopericarditis
G102.	G102.	2 Chronic rheumatic myopericarditis
G10z.	G10z.	2 Chronic rheumatic pericarditis NOS
H570.	N0421	2 Rheumatoid lung
H571.	H571.	2 Rheumatic pneumonia
N040Q	N040Q	2 Rheumatoid bursitis
N040T	N040T	2 Flare of rheumatoid arthritis
N041.	N041.	2 Felty's syndrome
N042.	N042.	2 Other rheumatoid arthropathy with visceral or systemic involvement
N0421	N0421	2 Rheumatoid lung disease
N044.	N044.	2 Chronic post-rheumatic arthropathy
N04y0	N0421	2 Rheumatoid lung
N04y0	X103Y	2 Rheumatoid lung
N04y0	X701k	2 Rheumatoid lung
N1351	N1351	2 Rheumatic torticollis
N2...	N2...	2 Rheumatism, excluding the back
N240.	N240.	2 Rheumatism and fibrositis unspecified
N240z	N240z	2 Rheumatism or fibrositis NOS
N2y..	N2y..	2 Other specified nonarticular rheumatism
N2z..	N2z..	2 Nonarticular rheumatism NOS

1=new RA code if the 1st of possible RA codes after baseline; 2= new RA code if later in time than a 1 code

For new RA: ≥ 2 codes in the set ≥ 30 days apart with first a 1 and thereafter = a 1 or a 2