

Supplemental Table 1. Rheumatoid Arthritis, lab, and supporting clinical codes

Rheumatoid Arthritis			
CPRD Aurum - Medcodes^a		CPRD GOLD - Read codes	
M48361011	Rheumatoid carditis	F371200	Polyneuropathy in rheumatoid arthritis
M95067016	Feltys syndrome	F396400	Myopathy due to rheumatoid arthritis
M1786545019	Rheumatoid lung	G5y8.00	Rheumatoid myocarditis
M16911000006114	Rheumatoid arthritis with organ / system involvement	G5yA.00	Rheumatoid carditis
M149911000006117	Seropositive rheumatoid arthritis	H570.00	Rheumatoid lung
M162041000006117	Rheumatoid arthritis of distal interphalangeal joint of finger	N04..00	Rheumatoid arthritis and other inflammatory
M162051000006115	Rheumatoid arthritis of distal radio-ulnar joint	N040.00	Rheumatoid arthritis
M162081000006111	Rheumatoid arthritis of interphalangeal joint of toe	N040000	Rheumatoid arthritis of cervical spine
M162101000006115	Rheumatoid arthritis of lesser metatarsophalangeal joint	N040100	Other rheumatoid arthritis of spine
M162111000006117	Rheumatoid arthritis of metacarpophalangeal joint	N040200	Rheumatoid arthritis of shoulder
M162131000006111	Rheumatoid arthritis of proximal interphalangeal joint of finger	N040300	Rheumatoid arthritis of sternoclavicular joint
M162141000006118	Rheumatoid arthritis of sacroiliac joint	N040400	Rheumatoid arthritis of acromioclavicular joint
M162191000006110	Rheumatoid arthritis of tibio-fibular joint	N040500	Rheumatoid arthritis of elbow
M162231000006117	Rheumatoid arthropathy + visceral/systemic involvement NOS	N040600	Rheumatoid arthritis of distal radio-ulnar joint
M162301000006117	Rheumatoid lung	N040700	Rheumatoid arthritis of wrist
M162341000006115	Rheumatoid nodule	N040800	Rheumatoid arthritis of MCP joint
M168751000006115	Rheumatoid arthritis and other inflammatory polyarthropathy	N040900	Rheumatoid arthritis of PIP joint of finger
M168761000006118	Rheumatoid arthritis of 1st metatarsophalangeal joint	N040A00	Rheumatoid arthritis of DIP joint of finger
M215551000000114	Sero negative polyarthrititis	N040B00	Rheumatoid arthritis of hip
M219271000000117	Seronegative arthritis	N040C00	Rheumatoid arthritis of sacro-iliac joint
M424981000006114	[X]Rheumatoid arthritis+involvement/other organs or systems	N040D00	Rheumatoid arthritis of knee
M856221000006115	Sero-negative polyarthrititis	N040E00	Rheumatoid arthritis of tibio-fibular joint
M889731000006111	Rheumatoid arthritis NOS	N040F00	Rheumatoid arthritis of ankle
M905301000006114	[RFC] Rheumatoid	N040G00	Rheumatoid arthritis of subtalar joint
M909191000006119	[RFC] Rheumatoid arthritis	N040H00	Rheumatoid arthritis of talonavicular joint
M2670341000006112	Diffuse interstitial rheumatoid disease of lung	N040J00	Rheumatoid arthritis of other tarsal joint
M3042571000006112	Subcutaneous rheumatoid nodule	N040K00	Rheumatoid arthritis of 1st MTP joint

M3042581000006110	Chronic rheumatoid nodular fibrosis	N040L00	Rheumatoid arthritis of lesser MTP joint
M3428891000006116	Rheumatoid arthritis - leukopenia AND splenomegaly	N040M00	Rheumatoid arthritis of IP joint of toe
M3428901000006117	Rheumatoid arthritis - leucopenia AND splenomegaly	N040N00	Rheumatoid vasculitis
M3636521000006117	Chronic rheumatic arthritis	N040P00	Seronegative rheumatoid arthritis
M3636541000006112	RA - Rheumatoid arthritis	N040Q00	Rheumatoid bursitis
M3636551000006114	Rheumatoid disease	N040R00	Rheumatoid nodule
M3636561000006111	RhA - Rheumatoid arthritis	N040S00	Rheumatoid arthritis - multiple joint
M4809101000006114	Rheumatoid arthritis of distal radioulnar joint	N040T00	Flare of rheumatoid arthritis
M4809181000006117	Rheumatoid arthritis of tibiofibular joint	N042.00	Other rheumatoid arthropathy + visceral/systemic
M4809221000006114	Rheumatoid arthritis of first metatarsophalangeal joint	N042100	Rheumatoid lung disease
M5721431000006114	Rheumatoid arthritis of multiple joints	N042200	Rheumatoid nodule
M6608771000006110	Rheumatoid pneumoconiosis	N042z00	Rheumatoid arthropathy + visceral/systemic
M7099641000006113	Rheumatoid arthritis of foot	N047.00	Seropositive erosive rheumatoid arthritis
M11903911000006111	Seropositive erosive rheumatoid arthritis	N04X.00	Seropositive rheumatoid arthritis, unspecified
		N04y.00	Other specified inflammatory polyarthropathy
		N04y000	Rheumatoid lung
		N04y012	Fibrosing alveolitis associated with rheumatoid arthritis
		N04y100	Sero negative arthritis
		N04y111	Sero negative polyarthrits
		N04yz00	Other specified inflammatory polyarthropathy NOS
		N04z.00	Inflammatory polyarthropathy NOS
		Nyu1000	[X]Rheumatoid arthritis+involvement/other organs or
		Nyu1100	[X]Other seropositive rheumatoid arthritis
		Nyu1200	[X]Other specified rheumatoid arthritis
		Nyu1G00	[X]Seropositive rheumatoid arthritis, unspecified
Labs			
CPRD Aurum - Medcodes^a		CPRD GOLD - Read codes	
M257899015	Rheumatoid arthritis latex test	43F1.00	Rheumatoid factor positive
M164661000006119	Rose-Waaler assay	43F2.00	Rheumatoid factor negative
M218371000000115	Rose Waaler test	43FZ.00	Rheumatoid factor NOS

M8410291000006111	RA latex test	42B6.00	Erythrocyte sedimentation rate
M8370761000006113	Rose Waaler test	42B6000	ESR abnormal
M8408701000006114	Rose Waaler test - sheep cells	42B6100	ESR low
M8408711000006112	Rose Waaler test	42B6200	ESR normal
M457892010	Fluid rheumatoid factor level	42B6300	ESR raised
M2533215010	Rheumatoid factor IgG level	42B6z00	Erythrocyte sediment rate NOS
M2533290016	IgA rheumatoid factor level	43F..00	Rheumatoid factor
M1488677013	Rheumatoid factor screening test	43F..12	Rose Waaler test
M162261000006114	Rheumatoid factor	43F3.00	R.A. latex test
M975681000006118	Rheumatoid factor IgM level	43F4.00	Rose Waaler test - sheep cells
M110111000006117	Test request : Rheumatoid Factor	43F5.00	Serum rheumatoid antigen level
M2159844013	Rheumatoid arthritis particle agglutination test	43F6.00	Fluid rheumatoid factor level
M162221000006115	Rheumatoid arthritis screening test	43F7.00	Rheumatoid factor screening test
M257905015	Serum rheumatoid antigen level	43F8.00	Serum rheumatoid antibody level
M1488915014	Serum rheumatoid antibody level	43F9.00	Rheumatoid factor IgG level
M1824341000006113	Test request : Serum rheumatoid antibody level	43FA.00	Rheumatoid factor IgM level
M257908018	Rheumatoid factor NOS	43FB.00	IgA rheumatoid factor level
M457892010	Fluid rheumatoid factor level	43a2.00	Human leucocyte antigen antibody level
M257896010	Rheumatoid factor positive	43b9.00	Rheumatoid arthritis particle agglutination test
M257897018	Rheumatoid factor negative	43c5.00	HLA B27 antigen screening test
M2533215010	Rheumatoid factor IgG level	43c6.00	Rheumatoid arthritis screening test
M2533290016	IgA rheumatoid factor level	43c9000	HEp-2 cell antinuclear antibody screening test
M1488677013	Rheumatoid factor screening test	43cG.00	Human leucocyte antigen B27 positive
M162261000006114	Rheumatoid factor	43cH.00	Human leucocyte antigen B27 negative
M975681000006118	Rheumatoid factor IgM level	43mZ.00	Anti-cyclic citrullinated peptide antibody level
M110111000006117	Test request : Rheumatoid Factor	43mf.00	Antinuclear factor IgG level
M2159769019	Anti-cyclic citrullinated peptide antibody level	43mg.00	Antinuclear factor IgM level
M2347561000000116	Serum anti-cyclic citrullinated peptide antibody level	43mh.00	Antinuclear factor IgA level
M2347611000000119	Serum anti-mutated citrullinated vimentin antibody level	43p..00	Serum ANA pattern
M2347661000000117	Serum anti-viral citrullinated peptide antibody level	43rW.00	Serum anti-cyclic citrullinated peptide antibody level

M1696281000006117	Anti-mutated citrullinated vimentin antibody level	43rX.00	Serum anti-mutated citrullinated vimentin antibody
M216602012	Serum CRP (C reactive protein) level	43rY.00	Serum anti-viral citrullinated peptide antibody level
M223761000006118	Plasma C reactive protein	44CC.00	Plasma C reactive protein
M530881000006117	C-reactive protein abnormal	44CC000	C reactive protein normal
M530891000006119	C-reactive protein normal	44CC100	C reactive protein abnormal
M956721000006115	Serum C reactive protein	44CS.00	Serum C reactive protein level
M109711000006113	Test request : C-reactive Protein	4KB..00	HLA tissue typing
M1008881000006111	C-Reactive Protein	4KB1.00	Human leucocyte antigen B27 screen
M1576041000006115	C-Reactive Protein	4KB2.00	Human leucocyte antigen (HLA) DR antigen typing
M1577941000006117	C Reactive Protein	ZV7y100	[V]Screening for rheumatoid arthritis
M3396911000006119	CRP - C-reactive protein level		
M3396921000006110	C-reactive protein level		
M2013981000006114	Point-of-care C reactive protein		
M3396901000006117	C-reactive protein measurement		
M1990731000006114	Point-of-care C reactive protein level requested		
M1824331000006115	Test request : Serum C reactive protein level		
M1485328013	Serum antinuclear antibody pattern		
M2533280012	Antinuclear factor IgA level		
M975791000006110	Anti-nuclear IgM antibody level		
M975781000006112	Anti-nuclear IgG antibody level		
M4596771000006114	Antinuclear factor; positive		
M8393561000006116	Serum ANA (antinuclear antibody) pattern		
M1966121000006110	HEp-2 (human epithelial type 2) cell antinuclear antibody		
M457657016	HLA (human leucocyte antigen) antibody level		
M458389015	HLA B27 antigen screening test		
M2618851017	HLA DR antigen typing		
M829241000006117	Human leucocyte antigen B27 screen		
M1138031000000113	Human leukocyte antigen B27 test positive		
M1138651000000113	Human leukocyte antigen B27 test negative		
M2741181000000114	HLA (Human Leucocyte Antigen) B27 test negative		

M2741191000000111	Human leucocyte antigen B27 test negative	
M1574911000006110	Hla B27 Antigens	
M11886451000006116	Human leucocyte antigen B27 test positive	
M11886461000006119	HLA (Human Leucocyte Antigen) B27 test positive	
M257300018	ESR abnormal	
M257301019	ESR low	
M257302014	ESR normal	
M257303016	ESR raised	
M317634012	[D]Elevated sedimentation rate	
M648511000006115	Erythrocyte sedimentation	
M648521000006111	Erythrocyte sedimentation rate	
M4593461000006118	Erythrocyte sedimentation rate (ESR) abnormal	
M4593471000006113	Erythrocyte sedimentation rate abnormal	
M4593481000006111	Low erythrocyte sedimentation rate	
M4593501000006118	Erythrocyte sedimentation rate (ESR) low	
M4593511000006115	Erythrocyte sedimentation rate normal	
M4593531000006114	Erythrocyte sedimentation rate (ESR) normal	
M4593551000006119	Erythrocyte sedimentation rate (ESR) raised	
M4593561000006117	Erythrocyte sedimentation rate raised	
M6898131000006116	Erythrocyte sedimentation rate measurement	
M6898141000006114	ESR - Erythrocyte sedimentation rate	
M8404311000006116	ESR - erythrocyte sedimentation rate	

Supporting clinical codes			
---------------------------	--	--	--

CPRD Aurum - Medcodes ^a		CPRD GOLD - Read codes	
M1142861000000114	Rheumatology disorder annual review	1JG..00	Suspected inflammatory arthritis
M162381000006114	Rheumatol.dis. monitoring NOS	14G1.00	H/O: rheumatoid arthritis
M168241000006113	Rheumatology follow-up assessment	38DZ.00	Disease activity score in rheumatoid arthritis
M168251000006110	Rheumatology initial assessment	38DZ000	Disease activity score 28 joint in rheumatoid arthritis
M168261000006112	Rheumatology symptom change	66c0.00	Disease modifying antirheumatic drug monitoring
M1855981000006118	Rheumatology disorder monitoring in primary care	66H..13	Rheumatoid arthrit. monitoring

M1855991000006115	Rheumatology disorder monitoring in secondary care	66H1.00	Rheumat. initial assessment
M1875561000006119	Rheumatoid arthritis monitoring invitation	66H2.00	Rheumat. follow-up assessment
M1875571000006110	Rheumatoid arthritis monitoring telephone invitation	66H3.00	Rheumat.dis.- joints affected
M1875581000006114	Rheumatoid arthritis monitoring telephone	66H4.00	Rheumat. symptom change
M1875591000006110	Rheumatoid arthritis monitoring invitation first letter	66H5.00	Rheumat. drug side effect
M1875601000006119	Rheumatoid arthritis monitoring invitation second letter	66H6.00	Rheumat. treatment change
M1875611000006116	Rheumatoid arthritis monitoring invitation third letter	66H6.11	Rheumat.dis.treatment changed
M1880371000006117	Rheumatoid arthritis resolved	66H7.00	Rheumat.dis.treatment started
M1932121000006116	3D study - problems with rheumatoid arthritis management	66H8.00	Rheumat.dis.treatment stopped
M219011000000115	Rheumatology disorder monitoring	66H9.00	Rheumatology management plan given
M219021000000114	Rheumatoid arthritis monitoring	66HA.00	Rheumatology drug monitoring
M219679100000119	Rheumatoid arthritis annual review	66HB.00	Rheumatology disorder annual review
M227550100000119	Rheumatoid arthritis monitoring invitation	66HB000	Rheumatoid arthritis annual review
M227567100000111	Rheumatoid arthritis monitoring invitation first letter	66HC.00	Rheumatic disorder annual review invitation
M227571100000112	Rheumatoid arthritis monitoring invitation second letter	66HZ.00	Rheumatol.dis. monitoring NOS
M227575100000111	Rheumatoid arthritis monitoring invitation third letter	68F1.00	Rheumatoid arthritis screen
M227579100000115	Rheumatoid arthritis monitoring verbal invitation	7P20300	Delivery of rehabilitation for rheumatoid arthritis
M227583100000110	Rheumatoid arthritis monitoring telephone invitation	8H4B.00	Referred to rheumatologist
M2474634014	Health education - rheumatology	8H4k.00	Referral to rheumatology special interest GP
M2474635010	Rheumatology management plan given	8HTd.00	Referral to rheumatology clinic
M264082100000117	Rheumatoid Arthritis Impact of Disease questionnaire score	8HVQ.00	Private referral to rheumatologist
M2839291014	Disease activity score 28 joint in rheumatoid arthritis	9b9M.00	Rheumatology
M2842168015	Disease Activity Score	9kN0.00	Pt held DMARD therpy record issued - enhanced
M371261000000111	Delivery of rehabilitation for rheumatoid arthritis	9kN1.00	Date next DMARD monitor clinic appoint - enhanced
M401537011	Rheumatism monitoring	9kN2.00	Pt held DMARD therpy record update - enhanced
M2548331017	Inflammatory polyarthropathy	9kN3.00	DMARD information leaflet given - enhanced services
M309841017	Other specified inflammatory polyarthropathy	9kN3.11	DMARD information leaflet given
M309849015	Other specified inflammatory polyarthropathy NOS	9kN4.00	Pt held DMARD therapy record checked - enhanced
M309850015	Inflammatory polyarthropathy NOS	9kN4.11	Patient held DMARD therapy record checked
M1488516017	Rheumatology	9kN5.00	DMARD monitoring refer back to secondary care - enh

M1707311000006111	Seen by rheumatology nurse specialist	9kN6.00	DMARD monitored in primary care - enhanced services
M285220012	Seen in rheumatology clinic	9kN6.11	DMARD monitored in primary care
M448275015	Seen by rheumatology nurse specialist	9kN7.00	DMARD monitored in secondary care - enhanced
M1707171000006116	Referral to rheumatology special interest general practitioner	9kN7.11	DMARD monitored in secondary care
M1716171000006116	Referral to rheumatology special interest general practitioner	9kN..00	DMARD monitoring - enhanced services administration
M1849581000006111	Referral to rheumatology triage service	9kN8.00	Disease modifying antirheumatic drug therapy initiated
M2533535012	Referral to rheumatology clinic	9mM..00	Rheumatoid arthritis monitoring invitation
M283615017	Referred to rheumatologist	9mM0.00	Rheumatoid arthritis monitoring invitation first letter
M284120010	Private referral to rheumatologist	9mM1.00	Rheumatoid arthritis monitoring invitation second
M449264012	Referral to rheumatologist	9mM2.00	Rheumatoid arthritis monitoring invitation third letter
M5951831000006119	Referral to rheumatology service	9mM3.00	Rheumatoid arthritis monitoring verbal invitation
M904931000006116	Rheumatology referral	9mM4.00	Rheumatoid arthritis monitoring telephone invitation
M1680481000006119	Disease modifying antirheumatic drug monitoring enhanced	9NiL.00	DNA GP disease modifying antirheumatic drug monitor
M1680491000006116	Patient held disease modifying antirheumatic drug therapy	9NiK.00	DNA hospital DMARD monitoring clinic
M1680501000006112	Date of next disease modifying antirheumatic drug monitoring	9NkF.00	Seen in GP DMARD monitoring clinic
M1680511000006110	Date of next DMARD monitoring clinic appointment	9NkG.00	Seen in community DMARD monitoring clinic
M1680521000006119	Patient held disease modifying antirheumatic drug therapy	9NkH.00	Seen in hospital DMARD monitoring clinic
M1680531000006116	DMARD information leaflet given	9NJq.00	In-house rheumatology first appointment
M1680541000006114	Disease modifying antirheumatic drug information leaflet given	9NJr.00	In-house rheumatology follow-up appointment
M1680881000006117	Did not attend hospital disease monitoring antirheumatic drug	9NJs.00	In-house rheumatology discharge
M1680891000006119	Did not attend general practitioner disease modifying	9NJw.00	In-house rheumatology
M1681001000006111	Seen in general practitioner disease modifying antirheumatic	9N1O.00	Seen in rheumatology clinic
M1681011000006114	Seen in community disease modifying antirheumatic drug	9NIR.00	Seen by rheumatology nurse specialist
M1681021000006118	Seen in hospital disease modifying antirheumatic drug	9NIY.00	Seen by GP with special interest in rheumatology
M1704591000006116	Patient held disease modifying antirheumatic drug therapy	9NNT.00	Under care of rheumatologist
M1704601000006112	Patient held DMARD therapy record checked	9Oe..00	Community DMARD monitoring administration
M1704611000006110	DMARD monitoring referred back to secondary care	9Oe0.00	Community DMARD monitoring appointment
M1704621000006119	Disease modifying antirheumatic drug monitoring referred back	9Oe1.00	Community DMARD monitoring suspended
M1715151000006118	Disease modifying antirheumatic drug monitored in secondary	9Oe3.00	Did not attend for community DMARD monitoring
M1716321000006115	Disease modifying antirheumatic drug monitored in primary	9Oe3.11	DNA community DMARD monitoring

M1741821000006111	Patient held DMARD therapy record issued	90e4.00	Community DMARD monitoring record returned to
M1741831000006114	Patient held DMARD therapy record updated	90e5.00	Community DMARD monitoring call
M1741841000006116	DMARD monitored in primary care	90e5000	Community DMARD monitoring first letter
M1741851000006119	DMARD monitored in secondary care	90e5100	Community DMARD monitoring second letter
M1785581000006117	Community disease modifying antirheumatic drug monitoring	90e5200	Community DMARD monitoring third letter
M1785601000006110	Community DMARD (disease modifying antirheumatic drug)	90e6.00	Community DMARD monitoring verbal invitation
M1785611000006113	Community DMARD (disease modifying antirheumatic drug)	90e7.00	Community DMARD monitoring telephone invitation
M1785621000006117	Community disease modifying antirheumatic drug monitoring	N04..11	Inflammatory polyarthropathy
M1785631000006119	Community DMARD (disease modifying antirheumatic drug)	N04y.00	Other specified inflammatory polyarthropathy
M1797031000000113	Community DMARD monitoring first letter	N04yz00	Other specified inflammatory polyarthropathy NOS
M1804291000006117	Community DMARD monitoring bloods taken	N04z.00	Inflammatory polyarthropathy NOS
M1856741000006119	Community DMARD monitoring default	F371200	Polyneuropathy in rheumatoid arthritis
M2015371000006111	GP DMARD monitoring interval	F396400	Myopathy due to rheumatoid arthritis
M530331000000115	Did not attend for community disease modifying antirheumatic	ZL5AR00	Referral to rheumatologist
M551391000000114	Community disease modifying antirheumatic drug monitoring	ZL9AT00	Seen by rheumatologist
M557051000000114	DNA community DMARD monitoring	ZL62G00	Referral to rheumatology nurse specialist
M62961000000115	Community disease modifying antirheumatic drug monitoring		
M62981000000112	Community DMARD monitoring suspended		
M8012821000006118	Community disease modifying antirheumatic drug monitoring		
M8012841000006113	Community DMARD (disease modifying antirheumatic drug)		
M8012851000006110	Community disease modifying antirheumatic drug monitoring		
M8012871000006117	Community DMARD (disease modifying antirheumatic drug)		
M8194851000006112	DMARD (disease modifying antirheumatic drug) therapy		
M8216701000006114	Community DMARD (disease modifying antirheumatic drug)		
M8217771000006117	Did not attend community DMARD (disease modifying		
M8218641000006118	Community DMARD (disease modifying antirheumatic drug)		
M8219231000006116	Community DMARD (disease modifying antirheumatic drug)		
M8257441000006111	Community DMARD (disease modifying antirheumatic drug)		
M8257651000006110	Community DMARD (disease modifying antirheumatic drug)		
M850631000006117	Community disease modifying antirheumatic drug monitoring		

M1140891000000119	Rheumatology drug monitoring
M1157471000000118	Disease modifying antirheumatic drug therapy initiated
M1680891000006119	Did not attend general practitioner disease modifying
M168271000006117	Rheumat. treatment change
M168291000006116	Rheumat.dis.treatment changed
M168301000006115	Rheumatology disorder treatment started
M1708161000006110	Rheumatology drug monitoring - Leflunomide
M1708171000006115	Rheumatology drug monitoring - Etanercept
M1708181000006117	Rheumatology drug monitoring - Adalimumab
M1708191000006119	Rheumatology drug monitoring - Infliximab
M1780387011	Disease modifying antirheumatic drug monitoring
M1786881000006112	Rheumatology drug monitoring - Sulfasalazine
M1786891000006110	Rheumatology drug monitoring - Methotrexate
M1824301000006111	Rheumatology drug monitoring - Auranofin
M1824311000006114	Rheumatology drug monitoring - Sodium Aurothiomalate
M1957801000006119	Rheumatology drug monitoring - Mycophenolate mofetil
M264822012	Rheumat.dis.treatment stopped
M987361000006118	Rheumatology drug monitoring
M987371000006113	Rheumatology drug monitoring - Cyclosporin
M987381000006111	Rheumatology drug monitoring - Hydroxychloroquine
M987391000006114	Rheumatology drug monitoring - Azathioprine
M987401000006111	Rheumatology drug monitoring - d-penicillamine
M987411000006114	Rheumatology drug monitoring - Cyclophosphamide
<p>^a 'M' prefix has been added to the Medcodes to prevent the code from being corrupted when opened in certain programs. This prefix must be removed before using the codes in CPRD Aurum</p>	