

Supplementary Table 1 International classification of diseases (ICD) 10, anatomical therapeutic chemical classification (ATC) codes and diagnostic procedure codes	
Diagnoses	ICD-10 Codes
Rheumatoid arthritis	M05, M06
Interstitial lung disease	J84.1,8,9; M05.1+J99.0
Hypertension	I10-13, I15
Ischaemic heart disease	I25
Pulmonary Hypertension	I27
Gastro-oesophageal reflux disease	K21
COPD	J44
Asthma bronchiale	J45
Diabetes mellitus	E10-E14
Medication	ATC-Codes
NSAIDs	M01A
Opioids	N02A
Other Analgesics	N02B
Glucocorticoids	H02AB01-07 H02BX
Methotrexate	L01BA01 L04AX03 M01CX01
Leflunomide	L04AA13
Sulfasalazin	A07EC01, M01CX02
Azathioprin	L04AX01
Ciclosporin	L04AD01, S01XA18
Hydroxychloroquine	P01BA02 P01BA01
Mycofenolat Mofetile	L04AA06
TNF-inhibitors	L04AB
Abatacept	L04AA24
Rituximab	L01XC02
Tocilizumab	L04AC07 (2020), L04AC07 (2021)
Tofacitinib	L04AA29
Baricitinib	L04AA37
Filgotinib	L04AA45
Upadacitinib	L04AA44
Nintedanib	L01XE31 (2020), L01EX09 (2021)
Pirfenidon	L04AX05
Diagnostic procedures	Charge number (only outpatient)
HRCT scan	34330
Chest X-ray	34240, 34241, 34242
Spirometry	03330, 27330,13255, 04330
	Procedure codes
Pneumologic function tests	1-71
Biopsy	1-430, 1-431, 1-432
Bronchoscopy	1-620
Specialist care	Specialist Number
Rheumatology	Number 31, Charge item 13690, 13691,13692, 13700, 13701, 99012
Pulmonology	30

Supplementary Table 2 Prevalence and incidence of ILD in persons with RA (2007-2020)														
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<i>N (all persons with RA)</i>	40686	40589	44415	48484	51678	54946	59134	63009	65882	68667	77895	80986	83721	85175
Prevalent ILD (%)														
All	0.7	1.6	1.9	2.1	2.2	2.2	2.2	2.1	2.1	2.1	2.0	1.9	1.8	1.7
M05	1.0	2.1	2.6	2.9	2.9	3.0	2.9	2.8	2.8	2.9	2.7	2.6	2.5	2.3
M06	0.6	1.3	1.6	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.6	1.5	1.5	1.4
Male	1.2	2.5	3.1	3.4	3.3	3.3	3.4	3.2	3.2	3.3	2.9	2.8	2.5	2.4
Female	0.6	1.3	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.7	1.6	1.6
Age 31-50	0.4	0.7	0.7	1.0	1.0	0.8	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.4
51-70	0.7	1.7	2.1	2.3	2.3	2.2	2.1	2.0	1.9	1.9	1.8	1.7	1.6	1.4
>70	0.9	2.0	2.3	2.6	2.8	2.8	3.0	2.9	2.9	2.9	2.8	2.6	2.6	2.4
Incident ILD (%)														
All	0.04	0.16	0.19	0.18	0.18	0.13	0.21	0.19	0.17	0.18	0.20	0.17	0.17	0.11
M05	0.07	0.22	0.24	0.22	0.26	0.18	0.26	0.26	0.21	0.26	0.30	0.25	0.24	0.17
M06	0.03	0.12	0.16	0.16	0.15	0.11	0.19	0.16	0.16	0.15	0.15	0.13	0.14	0.07
Male	0.05	0.25	0.25	0.30	0.29	0.15	0.36	0.32	0.31	0.23	0.33	0.36	0.26	0.16
Female	0.04	0.13	0.17	0.15	0.15	0.12	0.17	0.16	0.14	0.17	0.16	0.12	0.15	0.09
Age 31-50	0.07	0.03	0.08	0.11	0.09	0.03	0.04	0.06	0.02	0.01	0.08	0.02	0.05	0.05
51-70	0.03	0.17	0.19	0.17	0.19	0.15	0.20	0.17	0.16	0.18	0.15	0.18	0.14	0.09
>70	0.06	0.22	0.23	0.25	0.23	0.15	0.29	0.27	0.24	0.24	0.31	0.21	0.25	0.14

Supplementary Table 3 Proportion of persons with RA and at least one DMARD prescription but without ILD (%) with drug treatment 2007-2020														
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<i>N</i>	35717	39521	43264	47236	50412	53645	57793	61607	64458	67229	76354	79465	82220	83737
Glucocorticoids	61	61	61	60	60	59	59	59	58	57	56	55	53	51
DDD _s , mean (SD)	179 (133)	180 (168)	176 (134)	176 (134)	173 (129)	167 (128)	170 (129)	169 (128)	166 (126)	163 (127)	160 (126)	158 (125)	155 (125)	156 (127)
Any csDMARD	83	79	77	74	72	70	68	67	66	64	65	62	60	59
Methotrexate	57	55	54	51	50	49	49	48	47	46	47	45	44	43
Leflunomide	14	14	14	14	13	12	12	11	11	11	11	10	9	9
HCQ	10	10	9	9	8	8	8	8	8	8	8	7	7	7
Mycophenolate	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Sulfasalazin	1.0	0.8	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.4
Any bDMARD	10	11	11	12	13	13	13	14	14	15	17	17	17	17
TNF inhibitor	9	10	10	11	11	11	11	11	11	11	12	12	12	12
Abatacept	0.2	0.3	0.4	0.4	0.5	0.7	1.1	1.1	1.2	1.4	1.5	1.4	1.4	1.4
Rituximab	0.3	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.6
Tocilizumab	0.0	0.0	0.5	0.7	0.8	1.0	1.1	1.6	1.9	2.1	2.2	2.1	1.9	1.9
JAK inhibitor	-	-	-	-	-	-	-	-	-	-	1.2	2.9	4.0	4.9
cs+bDMARD	6	7	7	7	8	8	8	8	8	8	9	8	8	8
NSAIDs	62	61	59	58	57	55	55	53	52	51	49	48	47	45
Analgesics	20	22	23	24	24	25	27	28	29	30	32	32	33	33
Opioids	23	22	22	22	21	21	20	21	21	21	21	21	21	20

cs/bDMARD conventional synthetic/biologic disease-modifying antirheumatic drug, DDD defined daily dose of persons with a glucocorticoid prescription, HCQ Hydroxychloroquine, JAK Januskinase, NSAIDs, nonsteroidal antirheumatic drugs, SD standard deviation, TNF Tumor necrosis factor

Supplementary figure 1 Inclusion requirements