Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Crude Number and Percentages of Treatment Exposure Switches by Drug Class

Variable	TNFi n = 20,586 (74%)	Rituximab n = 1,182 (4%)	IL-6i n = 1,068 (4%)	Abatacept n = 2,255 (8%)	JAKi n = 2,570 (9%)
# Treatment exposure					
switches (n (%))					
Single drug class	18,457 (90)	1023 (87)	535 (50)	1322 (59)	1677 (65)
Switched 1 time	1850 (9)	127 (11)	361 (34)	710 (31)	751 (29)
Switched 2 times	248 (1)	27 (2)	148 (14)	195 (9)	120 (5)
Switched 3 times	31 (0)	4 (0)	24 (2)	28 (1)	21 (1)
Switched 4 times	0 (0)	1 (0)	0 (0)	0 (Ô) ´	1 (O)

eTable 2. Number of Incident Cancer Diagnoses per 10,000 Person-Years at Risk (95% CI) by Cancer Type After at Least 90 Days and Within 2 Years of Treatment Exposure by Drug

Category

Crude n (%) of concer	TNFi n = 20,586 (74%)	Rituximab n = 1,182 (4%)	IL-6i n = 1,068 (4%)	Abatacept n = 2,255 (8%)	JAKi n = 2,570 (9%)	All Drugs
Crude n (%) of cancer diagnoses	162 (0.8)	14 (1.2)	8 (0.8)	30 (1.3)	22 (0.9)	236 (0.9)
# Cancer/ 10,000 person-years (95% CI)	78 (66-91)	171 (94- 285)	88 (38- 173)	142 (96- 201)	94 (59- 143)	87 (77-99)
Crude n (%) of breast cancer	46 (0.2)	2 (0.2)	1 (0.1)	6 (0.3)	8 (0.3)	63 (0.2)
# Breast cancer/10,000 person- years (95% CI)	39 (28-52)	1 (0 ,4)	1 (0-4)	5 (2-10)	7 (3-13)	52 (40-66)
Crude n (%) of myeloid/lymphoid cancer	22 (0.1)	8 (0.7)	4 (0.4)	8 (0.4)	3 (0.1)	45 (0.2)
# Myeloid/lymphoid cancer/10,000 person- years (95% CI)	18 (11-27)	5 (2-11)	2 (1-6)	6 (3-13)	2 (0-5)	34 (25-45)
Crude n (%) of lung cancer	14 (0.1)	0	0	1 (0)	4 (0.2)	19 (0.1)
# Lung cancer/10,000 person-years (95% CI)	14 (8-24)	0	0	1 (0-6)	5 (1-12)	20 (12-31)
Crude n (%) of prostate cancer	11 (0.1)	1 (0.1)	1 (0.1)	4 (0.2)	2 (0.1)	19 (0.1)
# Prostate cancer/10,000 person- years (95% CI)	10 (5-18)	1 (0-5)	2 (0-9)	3 (1-9)	2 (0-7)	18 (11-28)
Crude n (%) of genitourinary cancer	11 (0.1)	2 (0.2)	1 (0.1)	0	1 (0)	15 (0.1)
# Genitourinary cancer/10,000 person- years (95% CI)	10 (5-18)	1 (0-2)	1 (0-5)	0	0 (0-2)	12 (7-19)
Crude n (%) of colorectal cancer	9 (0)	0	1 (0.1)	1 (0)	1 (0)	11 (0)
# Colorectal cancer/10,000 person- years (95% CI)	8 (4-15)	0	1 (0-3)	4 (0-25)	2 (0-10)	10 (5-18)
Crude n (%) of other cancer	69 (0.3)	1 (0.1)	1 (0.1)	14 (0.6)	4 (0.2)	89 (0.3)
# Other cancer/10,000 person-years (95% CI)	56 (43-71)	1 (0-4)	1 (0-3)	11 (6-18)	2 (1-5)	70 (56-86)

eTable 3. Baseline Characteristics of the Matched Cohort Comparing TNFi to Rituximab

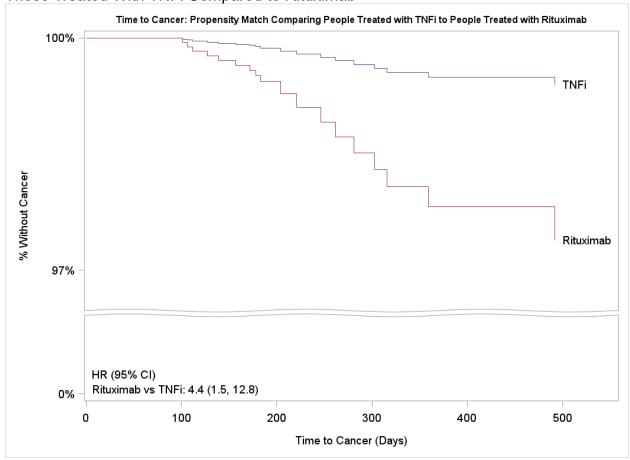
Variable (No. (%)) unless otherwise	Matched Matched			
specified)		Matched		
	TNFi (n=1122)	Rituximab	Standardized Mean	
	,	(n=1122)	Difference	
Demographics				
Age in years (median (IQR))	49 (42-55)	49 (41-55)	0.01	
Male	229 (20.4%)	220 (19.6%)	0.02	
Female	893 (79.6%)	902 (80.4%)		
Geographic region				
Northeast	178 (15.9%)	183 (16.3%)		
North Central	221 (19.7%)	232 (20.7%)	0.00	
South	552 (49.2%)	501 (44.7%)		
West	146 (13.0%)	192 (17.1%)		
Unknown	25 (2.2%)	14 (1.2%)		
Year of treatment exposure (median	2016 (2014-	2016 (2014-	-0.05	
(IQR))	2018)	2018)		
Proxies of RA severity	,	,		
≥1 Fill of glucocorticoids in 3 months	500 (44.6%)	506 (45.1%)	0.01	
prior	,	,		
≥1 Fill of csDMARD in 3 months prior	527 (47.0%)	531 (47.3%)	0.01	
Clinical characteristics	, ,	,		
Days from RA diagnosis to treatment	570 (300-1230)	660 (350-1270)	-0.01	
exposure (median (IQR))	,	,		
Tobacco use	79 (7.0%)	90 (8.0%)	0.04	
Frailty score (0 [not at all frail] to 1	0.14 (0.12-0.17)	0.14 (0.12-0.17)	0.03	
[severely frail]) (median (IQR))	,	,		
Charlson co-morbidity score				
1-2	894 (79.7%)	873 (77.8%)		
3-4	161 (14.3%)	198 (17.6%)	0.02	
5+	67 (6.0%)	51 (4.5%)		
Healthcare utilization in 12 months		,		
prior				
≥1 Hospital admission	225 (20.1%)	206 (18.4%)	-0.05	
≥1 Emergency department visit	416 (37.1%)	416 (37.1%)	0.00	
≥1 Outpatient visit	1,122 (100%)	1,122 (100%)	0.01	
≥1 Opioid prescription fill	408 (36.4%)	418 (37.3%)	0.02	
≥1 NSAID prescription fill	431 (38.4%)	409 (36.5%)	-0.04	
Reason for end of follow-up				
Enrollment ended	424 (37.8%)	236 (21.0%)		
Did not refill in 90/180 days	521 (46.4%)	865 (77.1%)		
Switched to allowed drug category	172 (15.3%)	6 (0.5%)		
Swithed to not allowed drug category	0 `	2 (0.2%)		
Cancer Outcome	5 (0.5%)	13 (1.2%)		
Days of follow-up (median (IQR))	290 (170-510)	190 (180-260)		

eTable 4. Median Days to Cancer Diagnosis, Number of Incident Cancer Diagnoses (95% CI) per 10,000 Person-Years at Risk, and Adjusted HR (95% CI) Comparing TNFi to Rituximab

	Median (IQR) days to cancer diagnosis	n (%) of cancer diagnoses	# of cancer diagnoses/ 10,000 person-years (95% CI)	Adjusted* HR (95% CI)
TNFi	172 (139-204)	5 (0.5%)	46 (15-107)	Referent
Rituximab	221 (157-303)	13 (1.2%)	166 (89-282)	4.4 (1.5, 12.8)

^{*} Adjusted for demographics (age, sex, region, year of initiating biologic), proxies of RA severity (glucocorticoid and csDMARDs prescription fills and number of drug switches), clinical characteristics (days from RA diagnosis to biologic initiation, tobacco use, frailty status, Charlson comorbidity score), and healthcare utilization in the 12 months prior to starting treatment (hospital admissions, emergency department visits, outpatient visits, opioid fills, and NSAID fills).

eFigure 1. Adjusted Cox Proportional Hazards Curves for Time to Incident Cancer in Those Treated With TNFi Compared to Rituximab



eTable 5. Baseline Characteristics of the Matched Cohort Comparing TNFi to Interleukin-6 Inhibitors (IL-6i)

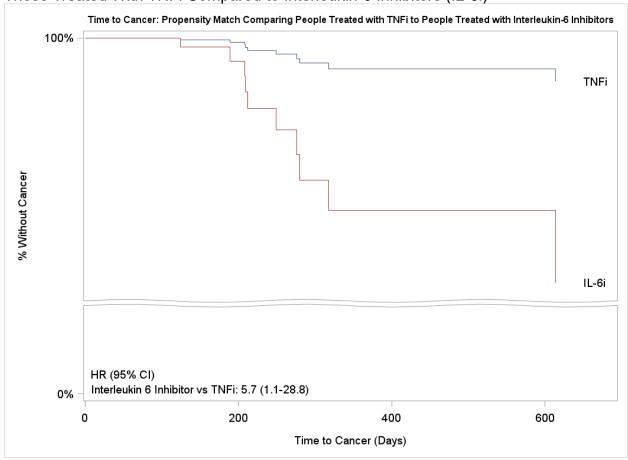
Variable (No. (%)) unless otherwise	Matched			
specified)	TNFi (n=977)	Interleukin-6 inhibitors (n=977)	Standardized Mean Difference	
Demographics	50 (40 50)	50 (40 50)	0.00	
Age in years (median (IQR))	50 (42-56)	50 (42-56)	0.00	
Male Female	185 (18.9%) 792 (81.1%)	205 (21.0%) 772 (79.0%)	-0.05	
Geographic region	792 (01.170)	112 (19.070)		
	445 (44 00/)	100 (11 10/)		
Northeast	115 (11.8%)	138 (14.1%)	0.02	
North Central	191 (19.5%)	199 (20.4%)	-0.03	
South West	519 (53.1%) 136 (13.9%)	458 (46.9%)		
Unknown	, ,	168 (17.2%) 14 (1.4%)		
Year of treatment exposure (median	16 (1.6%) 2016 (2014-	2016 (2014-2018)	-0.02	
(IQR))	2010 (2014-	2010 (2014-2010)	-0.02	
Proxies of RA severity	2019)			
≥1 Fill of glucocorticoids in 3 months	422 (43.2%)	436 (44.6%)	0.03	
prior	122 (101270)	100 (111070)	0.00	
≥1 Fill of csDMARD in 3 months prior	468 (47.9%)	510 (52.2%)	0.09	
Clinical characteristics	,	, ,		
Days from RA diagnosis to treatment	560 (250-1270)	650 (370-1190)	-0.04	
exposure (median (IQR))	,	,		
Tobacco use	58 (5.9%)	71 (7.3%)	0.05	
Frailty score (0 [not at all frail] to 1	0.14 (0.12-0.17)	0.14 (0.12-0.16)	-0.02	
[severely frail]) (median (IQR))				
Charlson co-morbidity score				
1-2	832 (85.2%)	814 (83.3%)	-0.02	
3-4	89 (9.1%)	122 (12.5%)		
5+	56 (5.7%)	41 (4.2%)		
Healthcare utilization in 12 months				
prior	405 (40 70()	100 (11 10()	0.04	
≥1 Hospital admission	105 (10.7%)	108 (11.1%)	0.01	
≥1 Emergency department visit	309 (31.6%)	305 (31.2%)	-0.01	
≥1 Outpatient visit	977 (100%)	977 (100%)	-0.03	
≥1 Opioid prescription fill	375 (38.4%)	386 (39.5%)	0.02	
≥1 NSAID prescription fill Reason for end of follow-up	454 (46.5%)	472 (48.3%)	0.04	
Enrollment ended	224 (24 00/)	222 (24 10/)		
Did not refill in 90/180 days	234 (24.0%) 320 (32.8%)	333 (34.1%) 452 (46.3%)		
Switched to allowed drug category	421 (43.1%)	452 (46.5%) 142 (14.5%)		
Switched to allowed drug category	0	42 (4.3%)		
	2 (0.2%)	8 (0.8%)		
Cancer Outcome				

eTable 6. Median Days to Cancer Diagnosis, Number of Incident Cancer Diagnoses (95% CI) per 10,000 Person-Years at Risk, and Adjusted HR (95% CI) Comparing TNFi to Interleukin-6 Inhibitors (IL-6i)

	Median (IQR) days to cancer diagnosis	n (%) of cancer diagnoses	# of cancer diagnoses/ 10,000 person-years (95% CI)	Adjusted* HR (95% CI)
TNFi	242 (208-276)	2 (0.2%)	22 (3-78)	Referent
Interleukin-6 inhibitors (IL-6i)	231 (199-299)	8 (0.8%)	96 (41-188)	5.7 (1.1-28.8)

^{*} Adjusted for demographics (age, sex, region, year of initiating biologic), proxies of RA severity (glucocorticoid and csDMARDs prescription fills and number of drug switches), clinical characteristics (days from RA diagnosis to biologic initiation, tobacco use, frailty status, Charlson comorbidity score), and healthcare utilization in the 12 months prior to starting treatment (hospital admissions, emergency department visits, outpatient visits, opioid fills, and NSAID fills).

eFigure 2. Adjusted Cox Proportional Hazards Curves for Time to Incident Cancer in Those Treated With TNFi Compared to Interleukin-6 Inhibitors (IL-6i)



eTable 7. Baseline Characteristics of the Matched Cohort Comparing TNFi to Abatacept

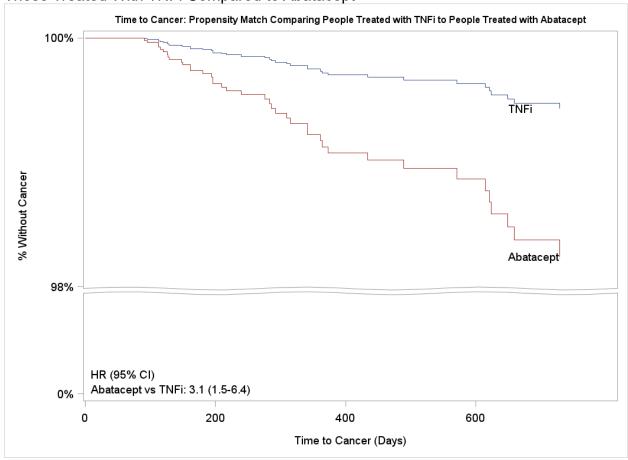
Variable (No. (%)) unless otherwise specified)	Matched			
<u>орозіной</u>	TNFi (n=2143)	Abatacept (n=2143)	Standardized Mean Difference	
Demographics		(>		
Age in years (median (IQR))	50 (43-55)	50 (43-56)	0.01	
Male	306 (14.3%)	340 (15.9%)		
Female	1,837 (85.7%)	1,803 (84.1%)	-0.04	
Geographic region				
Northeast	268 (12.5%)	301 (14.0%)		
North Central	431 (20.1%)	410 (19.1%)	-0.02	
South	1,097 (51.2%)	1,069 (49.9%)		
West	318 (14.8%)	335 (15.6%)		
Unknown	29 (1.4%)	28 (1.3%)	-0.05	
Year of treatment exposure (median (IQR))	2016 (2014-	2016 (2014-		
	2018)	2018)		
Proxies of RA severity				
≥1 Fill of glucocorticoids in 3 months prior	900 (42.0%)	931 (43.4%)	0.03	
≥1 Fill of csDMARD in 3 months prior	1,283 (59.9%)	1,322 (61.7%)	0.04	
Clinical characteristics				
Days from RA diagnosis to treatment	540 (260-1270)	640 (360-1180)	-0.03	
exposure (median (IQR))				
Tobacco use	145 (6.8%)	160 (7.5%)	0.03	
Frailty score (0 [not at all frail] to 1 [severely frail]) (median (IQR))	0.14 (0.12-0.16)	0.14 (0.12-0.16)	-0.03	
Charlson co-morbidity score			-0.02	
1-2	1,797 (83.9%)	1,794 (83.7%)		
3-4	247 (11.5%)	273 (12.7%)		
5+	99 (4.6%)	76 (3.5%)		
Healthcare utilization in 12 months prior				
≥1 Hospital admission	220 (10.3%)	212 (9.9%)	-0.01	
≥1 Emergency department visit	654 (30.5%)	634 (29.6%)	-0.02	
≥1 Outpatient visit	2,142 (100%)	2,143 (100%)	-0.02	
≥1 Opioid prescription fill	835 (39.0%)	868 (40.5%)	0.03	
≥1 NSAID prescription fill	1,085 (50.6%)	1,097 (51.2%)	0.01	
Reason for end of follow-up				
Enrollment ended	601 (28.0%)	831 (38.8%)		
Did not refill in 90/180 days	765 (35.7%)	851 (39.7%)		
Switched to allowed drug category	767 (35.8%)	305 (14.2%)		
Swithed to not allowed drug category	0	126 (5.9%)		
Cancer Outcome	10 (0.5%)	30 (1.4%)		
Days of follow-up (median (IQR))	290 (180-530)	260 (170-520)		

eTable 8. Median Days to Cancer Diagnosis, Number of Incident Cancer Diagnoses (95% CI) per 10,000 Person-Years at Risk, and Adjusted HR (95% CI) Comparing TNFi to Abatacept

	Median (IQR) days to cancer diagnosis	n (%) of cancer diagnoses	# of cancer diagnoses/ 10,000 person-years (95% CI)	Adjusted* HR (95% CI)
TNFi	196 (148-276)	10 (0.5%)	48 (23-87)	Referent
Abatacept	289 (150-373)	30 (1.4%)	148 (100-211)	3.1 (1.5-6.4)

^{*} Adjusted for demographics (age, sex, region, year of initiating biologic), proxies of RA severity (glucocorticoid and csDMARDs prescription fills and number of drug switches), clinical characteristics (days from RA diagnosis to biologic initiation, tobacco use, frailty status, Charlson comorbidity score), and healthcare utilization in the 12 months prior to starting treatment (hospital admissions, emergency department visits, outpatient visits, opioid fills, and NSAID fills).

eFigure 3. Adjusted Cox Proportional Hazards Curves for Time to Incident Cancer in Those Treated With TNFi Compared to Abatacept



eTable 9. Baseline Characteristics of the Matched Cohort Comparing TNFi to JAKi

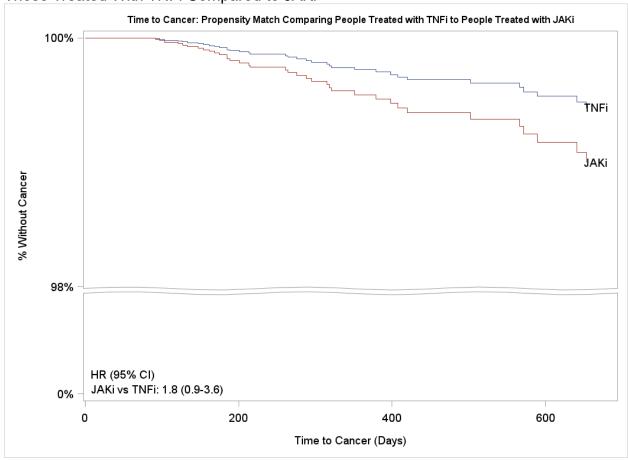
Variable (No. (%)) unless otherwise	Matched			
specified)				
	TNFi (n=2421)	JAKi (n=2421)	Standardized Mean Difference	
Demographics				
Age in years (median (IQR))	50 (43-56)	50 (43-56)	-0.01	
Male	463 (19.1%)	470 (19.4%)	-0.01	
Female	1,958 (80.9%)	1,951 (80.6%)		
Geographic region				
Northeast	308 (12.7%)	376 (15.5%)	0.00	
North Central	506 (20.9%)	438 (18.1%)		
South	1,304 (53.9%)	1,238 (51.1%)		
West	291 (12.0%)	358 (14.8%)		
Unknown	12 (0.5%)	11 (0.5%)		
Year of treatment exposure (median	2018 (2016-	2018 (2016-	-0.01	
(IQR))	2020)	2020)		
Proxies of RA severity				
≥1 Fill of glucocorticoids in 3 months	1,040 (43.0%)	1,033 (42.7%)	-0.01	
prior				
≥1 Fill of csDMARD in 3 months prior	1,644 (67.9%)	1,624 (67.1%)	-0.02	
Clinical characteristics				
Days from RA diagnosis to treatment	580 (310-1270)	690 (390-1260)	0.01	
exposure (median (IQR))				
Tobacco use	162 (6.7%)	169 (7.0%)	0.01	
Frailty score (0 [not at all frail] to 1	0.13 (0.12-0.16)	0.13 (0.12-0.16)	-0.03	
[severely frail]) (median (IQR))				
Charlson co-morbidity score				
1-2	2,120 (87.6%)	2,121 (87.6%)	0.02	
3-4	248 (10.2%)	232 (9.6%)		
5+	53 (2.2%)	68 (2.8%)		
Healthcare utilization in 12 months prior				
≥1 Hospital admission	190 (7.8%)	190 (7.8%)	0.00	
≥1 Emergency department visit	603 (24.9%)	572 (23.6%)	-0.03	
≥1 Outpatient visit	2,420 (100%)	2,420 (100%)	0.00	
≥1 Opioid prescription fill	824 (34.0%)	824 (34.0%)	0.00	
≥1 NSAID prescription fill	1,372 (56.7%)	1,352 (55.8%)	-0.02	
Reason for end of follow-up				
Enrollment ended	908 (37.5%)	979 (40.4%)		
Did not refill in 90/180 days	851 (35.2%)	1084 (44.8%)		
Switched to allowed drug category	648 (26.8%)	176 (7.3%)		
Swithed to not allowed drug category	0	160 (6.6%)		
Cancer Outcome	14 (0.6%)	22 (0.9%)		
Days of follow-up (median (IQR))	290 (180-500)	270 (170-460)		

eTable 10. Median Days to Cancer Diagnosis, Number of Incident Cancer Diagnoses (95% CI) per 10,000 Person-Years at Risk, and Adjusted HR (95% CI) Comparing TNFi to JAKi

	Median (IQR) days to cancer diagnosis	n (%) of cancer diagnoses	# of cancer diagnoses/ 10,000 person-years (95% CI)	Adjusted* HR (95% CI)
TNFi	238 (154-420)	14 (0.6%)	60 (33-101)	Referent
JAKi	276 (169-351)	22 (0.9%)	100 (63-151)	1.8 (0.9-3.6)

^{*} Adjusted for demographics (age, sex, region, year of initiating biologic), proxies of RA severity (glucocorticoid and csDMARDs prescription fills and number of drug switches), clinical characteristics (days from RA diagnosis to biologic initiation, tobacco use, frailty status, Charlson comorbidity score), and healthcare utilization in the 12 months prior to starting treatment (hospital admissions, emergency department visits, outpatient visits, opioid fills, and NSAID fills).

eFigure 4. Adjusted Cox Proportional Hazards Curves for Time to Incident Cancer in Those Treated With TNFi Compared to JAKi



eTable 11. Baseline Characteristics Comparing Those Who Were Censored to Those Who Were Diagnosed With Cancer

Vyno vvere Diagnosed vvith Cancer	Conserved (m. 27.425)	Canaca diagnasia
Variable (No. (%)) unless otherwise specified)	Censored (n=27,425)	Cancer diagnosis (n=236)
		(11=230)
Demographics	50 (40 55)	F2 (40 F0)
Age in years (median (IQR))	50 (42-55)	53 (48-58)
Male	5,777 (21.1%)	65 (27.5%)
Female	21,648 (78.9%)	171 (72.5%)
Geographic region		
Northeast	3,745 (13.7%)	35 (14.8%)
North Central	5,538 (20.2%)	44 (18.6%)
South	13,596 (49.6%)	119 (50.4%)
West	4,192 (15.3%)	35 (14.8%)
Unknown	354 (1.3%)	3 (1.3%)
Year of treatment exposure (median (IQR))	2016 (2014-2018)	2016 (2014-2018)
Proxies of RA severity		
≥1 Fill of glucocorticoids in 3 months prior	12,544 (45.7%)	118 (50.0%)
≥1 Fill of csDMARD in 3 months prior	18,815 (68.6%)	172 (72.9%)
Clinical characteristics	·	
Days from RA diagnosis to treatment	520 (270-1050)	510 (240-1160)
exposure (median (IQR))		
Tobacco use	2,055 (7.5%)	18 (7.6%)
Frailty score (0 [not at all frail] to 1	0.13 (0.12-0.16)	0.14 (0.12-0.17)
[severely frail]) (median (IQR))		
Charlson co-morbidity score		
1-2	23,888 (87.1%)	191 (80.9%)
3-4	2,789 (10.2%)	35 (14.8%)
5+	748 (2.7%)	10 (4.2%)
Healthcare utilization in 12 months prior		,
≥1 Hospital admission	2,442 (8.9%)	29 (12.3%)
≥1 Emergency department visit	7,423 (27.1%)	63 (26.7%)
≥1 Outpatient visit	27,410 (99.9%)	236 (100%)
≥1 Opioid prescription fill	10,607 (38.7%)	98 (41.5%)
≥1 NSAID prescription fill	14,880 (54.3%)	139 (58.9%)
Drug Treatment Category	,	
TNFi	20,424 (74.5%)	162 (68.6%)
Rituximab	1,168 (4.3%)	14 (5.9%)
IL-6i	1,060 (3.9%)	8 (3.4%)
Abatacept	2,225 (8.1%)	30 (12.7%)
JAKi .	2,548 (9.3%)	22 (9.3%)
Days of follow-up (median (IQR))	280 (180-520)	450 (260-700)