

Summary of changes since call20170908

- Fixed denominator used in overall prevalence calculation
- Fixed filtering of claims to satisfy physician-diagnosed criterion
 - Use enc_type in ("IP", "AV", "ED", "NH", "HH") instead of provider type
- Fixed incident MI outcome to require inpatient admission of at least 1 day
- In progress incidence rates are greyed-out

As diag. → Rheum diagnosed (?) Long/Soft.

Separate NSAID/No exp.

Clean period for ^{new use} exp. 6 months (?) Need clarification Long
on how defined

check incidence censoring

non-As cohort → when do I ~~start~~ anchor prevalence to
what date? C-index-date

Table XX: Prevalence of comorbidities by disease cohort and data source; 6 months pre & post index date (per 100 cohort members).

Outcome categories	Specific manifestation	AS cohort			Non-AS cohort	
		MPCD	Market Scan	Medicare	MPCD	Medicare
	N	3,000	11,982	22,584	1,139,225	1,844,703
Cancer	Hematologic Cancer	0.5	0.6	1.6	0.6	1.2
	Non Melanoma Skin Cancer	0.0	0.6	1.9	0.0	0.7
	Solid Cancer	4.0	3.5	9.8	3.9	8.8
Cardiac disease	Aortic Insufficiency/Aortic Regurgitation	1.9	1.3	4.9	0.9	2.7
	Conduction Block	0.6	1.3	4.5	0.7	2.3
	Myocardial infarction	0.5	0.6	1.8	0.2	1.0
Infection	Hospitalized infection	5.2	6.9	19.4	2.2	8.9
	Opportunistic infection	1.1	1.0	2.4	0.4	0.9
Inflammatory bowel disease	Crohn's Disease	4.3	3.6	4.8	2.2	0.3
	Ulcerative Colitis	2.5	2.6	2.7	2.0	0.4
Kidney disease	Amyloidosis	0.0	0.0	0.1	0.0	0.0
	IgA nephropathy	0.1	0.1	0.2	0.1	0.1
	Nephrotic syndrome	0.0	0.0	0.2	0.0	0.1
Lung disease	Apical Pulmonary fibrosis	0.0	0.0	0.0	0.0	0.0
	Interstitial lung disease	0.1	0.1	0.7	0.0	0.0
	Restrictive lung disease	1.3	1.4	3.2	0.7	1.3
Neurological Disease	Cauda Equina syndrome	0.1	0.1	0.2	0.0	0.0
	Spinal Cord compression	0.2	0.2	0.9	0.0	0.1
Osteoporotic fracture	Clinical vertebral fracture	2.4	2.2	7.3	0.5	1.1
	Non-vertebral osteoporotic fracture	2.9	1.9	4.5	1.2	2.5
PsO/PsA	Psoriasis	2.5	2.7	3.8	4.6	1.0
	Psoriatic arthritis	3.7	4.1	5.0	1.0	0.2
Uveitis	Uveitis	7.0	7.6	4.0	0.2	0.2

503 701 8954

Kevin says don't use

Table XX: Prevalence of comorbidities by data source and exposure; 6 months pre & post index date (per 100 treatment exposures).

Outcome categories	Specific manifestation	MPCD			Marketscan			Medicare		
		TNF	DMARDS	NSAIDS or no exposure	TNF	DMARDS	NSAIDS or no exposure	TNF	DMARDS	NSAIDS or no exposure
Cancer	N	1,107	421	2,083	4,797	1,799	8,025	4,866	4,231	17,983
	Hematologic Cancer	0.3	0.2	0.5	0.1	0.8	0.6	0.4	1.6	1.7
	Non Melanoma Skin Cancer	0.0	0.0	0.0	0.5	0.5	0.8	1.2	1.3	2.2
Cardiac disease	Solid Cancer	2.6	1.5	4.2	1.8	4.2	4.0	5.7	7.7	10.5
	Aortic Insufficiency/Aortic Regurgitation	1.7	0.6	1.6	0.8	0.9	1.3	2.9	3.7	5.0
	Conduction Block	0.2	0.0	0.9	0.7	1.1	1.5	2.4	3.0	4.6
Infection	Myocardial infarction	0.3	0.0	0.5	0.2	0.1	0.7	0.5	0.9	1.7
	Hospitalized infection	1.0	1.2	5.6	3.5	4.8	7.2	9.1	13.8	19.0
	Opportunistic infection	1.3	1.0	0.8	1.2	1.5	1.0	2.7	2.8	2.3
Inflammatory bowel disease	Crohn's Disease	5.8	4.0	3.4	5.5	3.9	2.7	8.4	6.6	3.9
	Ulcerative Colitis	3.0	2.3	1.9	3.6	2.6	2.1	3.9	3.6	2.1
	Amyloidosis	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Kidney disease	IgA nephropathy	0.3	0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.2
	Nephrotic syndrome	0.2	0.2	0.0	0.1	0.0	0.0	0.2	0.2	0.2
	Apical Pulmonary fibrosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lung disease	Interstitial lung disease	0.0	0.0	0.1	0.1	0.1	0.1	0.4	1.1	0.6
	Restrictive lung disease	0.7	0.4	1.5	0.9	0.7	1.3	2.4	3.4	3.1
	Cauda Equina syndrome	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.2
Neurological Disease	Spinal Cord compression	0.2	0.0	0.2	0.2	0.2	0.4	0.3	0.4	0.7
	Clinical vertebral fracture	1.3	0.4	2.7	0.6	0.8	2.7	1.8	2.7	7.1
	Non-vertebral osteoporotic fracture	2.0	0.8	3.3	1.0	1.0	2.1	2.9	3.0	4.7
PsO/PsA	Psoriasis	4.3	1.5	1.9	4.4	3.6	2.1	7.0	4.8	3.1
	Psoriatic arthritis	6.5	5.4	2.4	7.1	6.4	2.4	10.5	8.1	3.1
	Uveitis	8.4	7.3	6.2	7.8	6.8	7.3	6.9	5.0	3.5

Table XX: Unadjusted outcome incidence per 100 person-years by data source and exposure. Calculations still in progress are greyed-out.

Outcome categories	Specific manifestation	MPCD			Marketscan			Medicare		
		TNF	DMARDS	NSAIDS or no exposure	TNF	DMARDS	NSAIDS or no exposure	TNF	DMARDS	NSAIDS or no exposure
Cancer	Person-years									
	Hematologic Cancer	0.70	0.23	0.57	0.19	0.94	0.61	0.43	1.01	1.05
	Non Melanoma Skin Cancer	0.00	0.00	0.60	0.78	1.12	0.88	1.34	1.50	2.60
Cardiac disease	Solid Cancer	2.18	1.91	4.46	1.79	4.47	2.96	3.35	5.37	6.56
	Aortic Insufficiency/Aortic Regurgitation	1.14	0.23	1.70	0.72	0.95	1.26	1.82	2.79	3.43
	Conduction Block	0.27	0.00	0.88	0.69	0.78	1.62	1.87	2.47	3.62
Infection	Myocardial infarction	0.33	0.00	0.61	0.21	0.28	0.63	0.69	1.20	1.53
	Hospitalized infection	1.67	0.94	5.38	3.08	4.31	6.21	8.77	11.74	13.91
	Opportunistic infection	0.87	1.45	0.53	0.67	1.35	0.73	3.31	2.14	1.57
Inflammatory bowel disease	Crohn's Disease	4.48	3.61	2.91	4.29	3.64	2.32	3.57	3.42	2.17
	Ulcerative Colitis	2.40	0.95	1.58	2.56	2.39	1.68	1.96	1.83	1.35
	Amyloidosis	0.00	0.00	0.11	0.03	0.00	0.00	0.06	0.02	0.04
Kidney disease	IgA nephropathy	0.20	0.00	0.08	0.12	0.00	0.08	0.15	0.12	0.15
	Nephrotic syndrome	0.13	0.00	0.00	0.04	0.11	0.04	0.14	0.12	0.08
	Apical Pulmonary fibrosis	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.02	0.01
Lung disease	Interstitial lung disease	0.00	0.00	0.11	0.07	0.11	0.09	0.39	0.85	0.44
	Restrictive lung disease	0.81	0.00	1.85	0.75	0.84	1.28	1.99	2.48	2.42
	Cauda Equina syndrome	0.00	0.00	0.15	0.03	0.06	0.01	0.09	0.01	0.09
Neurological Disease	Spinal Cord compression	0.07	0.00	0.26	0.18	0.22	0.30	0.20	0.28	0.40
	Clinical vertebral fracture	0.87	0.23	1.73	0.45	0.72	2.34	1.73	2.35	4.00
	Non-vertebral osteoporotic fracture	1.28	0.94	3.29	1.22	1.12	1.77	2.57	3.27	3.58
PsO/PsA	Psoriasis	3.36	0.95	1.58	3.41	3.11	1.67	3.52	3.22	1.92
	Psoriatic arthritis	5.13	5.13	1.80	5.20	6.39	1.89	4.58	3.97	1.62
	Uveitis	4.95	6.55	4.86	5.59	6.57	5.76	3.69	2.76	2.08

Commented [BC1]: Need to fill in. Person-years is different for each outcome. How to summarize? Person-years of exposure regardless of outcome occurrence?