

Supplemental Table 1. Baseline Medication Use Administered or Prescribed Within 365 Days Prior to Index Date, by Cohort and Time Period

Prevalence of medication usage within 365 days prior to index, among the Laboratory Positive Cohort and Clinical Cohort, stratified by time period. All values are column percentages, with blue shading visualizing Laboratory Positive Cohort proportionality and red shading representing Clinical Cohort proportionality.

Laboratory Positive Cohort Clinical Cohort

CHARACTERISTIC	All (N = 37617)	Jan-May (n = 12978)	June-Aug (n = 11416)	Sep-Nov (n = 13223)	All (N = 13893)	Jan-May (n = 7150)	June-Aug (n = 3768)	Sep-Nov (n = 2975)
Antiarrhythmics								
Antiarrhythmics	2.58	2.13	2.3	3.25	3.57	3.44	3.32	4.2
Anticoagulants								
Anticoagulants	24.91	22.21	23.8	28.53	29.6	28.32	29.25	33.14
Antihyperlipidemics								
Antihyperlipidemics	39.93	38.56	36.8	43.97	38.15	37.64	36.33	41.68
Antihypertensives								
Angiotensin Receptor Blockers	15.16	14.32	14.65	16.42	13.46	12.83	13.54	14.89
Angiotensin-Converting Enzyme Inhibitors	21.25	20.1	20.09	23.38	20.06	18.62	18.69	21.58
Beta-Blocker	29.44	27.52	27.74	32.79	31.74	30.85	30.44	35.5
Calcium Channel Blockers	24.55	24.72	23.14	25.61	24.78	24.8	23.65	26.18
Prazosin	0.45	0.29	0.55	0.53	0.7	0.7	0.77	0.61
Direct Renin Blocker	0.01	0.02	0.01	0.01	0.03	0.04	0	0.03
Other Antihypertensives	11.25	10.33	12.24	11.53	12.73	11.94	12.36	15.23
Antiplatelets								
Antiplatelets	31.58	29.7	29.42	35.3	31.99	31.27	30.89	35.13
Eculizumab	0.01	0.02	0	0.02	0.01	0	0	0.03
Alteplase	1.57	1.22	2.26	1.32	1.84	1.64	2.28	1.75
Ravulizumab	0	0	0	0	0	0	0	0
Clopidogrel	6.5	5.76	6.26	7.43	6.85	6.13	6.9	8.54
Tirofiban	0.02	0.01	0.01	0.04	0.01	0	0	0.03
Dipyridamole	0.5	0.23	0.83	0.47	0.43	0.41	0.32	0.64
Aspirin								
Aspirin	28.89	27.54	26.31	32.45	28.48	29.16	28.11	31.97
Aspirin Low-Dose (≤ 81 Mg)	25.99	25.4	24.05	28.24	26.8	26.63	25.29	29.14
Aspirin High-Dose (> 81 Mg)	5.3	4.42	4.13	7.15	6.31	6.6	5.65	6.42
Other Antiplatelets	1.29	1.06	1.3	1.51	1.32	1.24	1.3	1.55
Diuretics								
Diuretics	26.55	24.26	25.2	29.98	28.87	28.34	27.07	32.44
Cancer Therapies								
Cancer Therapies	5.77	5.72	5.15	6.37	7.05	6.81	7.01	7.66
Immunomodulators								
Immunomodulators	1.66	1.81	1.41	1.74	2.07	2.18	2.04	1.85
IL3 Inhibitors	0	0	0	0	0.01	0.01	0	0.03
IL6 Inhibitors	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.03
Other Immunomodulators	1.63	1.78	1.38	1.69	2.05	2.17	2.02	1.82
Hematopoietic Growth Factor								
Hematopoietic Growth Factor	1.76	2.13	1.71	1.44	2.4	2.45	2.1	2.69
Erythropoiesis-Stimulating Agents	1.4	1.7	1.39	1.11	1.76	1.89	1.38	1.95
Other Hematopoietic Growth Factors	0.41	0.52	0.35	0.37	0.73	0.69	0.74	0.81
Myelosuppressive Chemotherapy								
Myelosuppressive Chemotherapy	2.34	2.13	1.97	2.87	2.92	2.6	3.21	3.33
High Or Intermediate Myelosuppressive Potential	2.02	1.77	1.73	2.5	2.54	2.18	2.97	2.86
Other Myelosuppressive Chemotherapies	0.48	0.48	0.34	0.59	0.55	0.57	0.42	0.67
Other Antineoplastics	1.05	0.86	0.86	1.41	1.38	1.47	0.98	1.68
Antidiabetics								
Antidiabetics	29.95	29.07	29.82	30.94	27.54	26.39	27.39	30.49
Insulin	17.97	16.81	18.65	18.52	18.28	17.79	17.65	20.27
Insulin Sensitizing Agents	17.3	16.95	16.63	18.23	13.98	13.86	14.3	15.76
Other Antidiabetics	13.11	12.27	12.82	14.36	10.77	9.69	11.42	12.27
Systemic Steroids								
Systemic Steroids	26.37	21.44	25.59	31.88	26.76	25.54	29.78	35.23
Budesonide (Systemic)								
Budesonide (Systemic)	0.21	0.1	0.21	0.32	0.25	0.25	0.27	0.24
Budesonide (Oral)	0.21	0.1	0.21	0.32	0.25	0.25	0.27	0.24
Budesonide (Rectal)	0	0	0	0	0	0	0	0
Hydrocortisone (Systemic)								
Hydrocortisone (Systemic)	4.19	4.66	3.6	4.24	4.55	4.64	4.41	4.5
Hydrocortisone (Oral)	0.36	0.25	0.39	0.39	0.34	0.34	0.32	0.37
Hydrocortisone (Rectal)	0.12	0.11	0.15	0.09	0.12	0.08	0.27	0.03
Hydrocortisone (Injection)	1.05	1.33	0.8	1	1.7	1.85	1.41	1.71
Methylprednisolone (Systemic)								
Methylprednisolone (Systemic)	8.51	7.4	8.3	9.79	10.43	10.07	10.06	11.76
Methylprednisolone (Injection)	5.15	4.75	4.6	5.97	7.18	7.31	6.34	7.5
Methylprednisolone (Oral)	4.42	3.41	4.98	4.94	4.52	3.8	5.18	5.41
Dexamethasone (Systemic)								
Dexamethasone (Systemic)	9.99	6.05	10.18	13.7	10.83	7.97	11.86	16.4
Dexamethasone (Injection)	6.22	4.95	6.39	7.31	7.7	6.46	8.04	10.25
Dexamethasone (Oral)	3.85	1.12	3.78	6.6	3.34	1.87	3.64	6.49
Prednisone (Systemic)								
Prednisone (Systemic)	12.42	10.29	11.82	14.93	15.27	14.95	15.18	16.13
Prednisone (Oral)	12.42	10.29	11.82	14.93	15.27	14.95	15.18	16.13
Other Systemic Steroids	2.7	2.38	2.43	3.24	2.94	2.5	2.97	3.93
Inhaled Steroids								
Inhaled Steroids	12.83	12.06	11.55	14.69	13.97	14.81	12.53	13.78
Beclothemason (Inhaled)	0.51	0.53	0.42	0.54	0.62	0.77	0.53	0.37
Budesonide (Inhaled)	1.81	1.66	1.79	1.96	2.82	3.05	2.31	2.92
Ciclesonide (Inhaled)	0.09	0.13	0.03	0.09	0.21	0.24	0.11	0.27
Fluticasone (Inhaled)	10.99	10.19	9.93	12.89	11.44	12.03	10.38	11.86
Mometasone (Inhaled)	0.63	0.59	0.48	0.79	0.73	0.7	0.82	0.71
Other Steroids	11.71	11.07	10.47	13.42	12.08	12.7	10.93	12.03
Other Steroids (Ophthalmic)	1.34	1.39	1.18	1.43	1.48	1.68	1.25	1.28
Other Steroids (Nasal)	10.65	9.97	9.51	12.29	11.03	11.59	9.95	11.03
Bronchodilators								
Bronchodilators	30.6	27.52	29.34	34.7	35.32	33.8	35.01	39.36
Formoterol	4.42	4.01	3.67	5.48	6.5	6.87	6.32	8.85
Montelukast	5.01	4.31	4.59	6.05	5.51	5.06	5.65	6.39
Other Bronchodilators	29.04	26.3	27.78	32.83	34.16	32.81	33.6	38.12
DMARDs								
DMARDs	3.12	2.92	2.79	3.59	3.56	3.47	3.66	3.63
Cyclophosphamide	0.14	0.17	0.11	0.13	0.25	0.25	0.19	0.34
Leflunomide	0.24	0.19	0.22	0.31	0.24	0.24	0.24	0.24
Methotrexate	0.9	0.72	0.81	1.13	1.05	0.77	1.49	1.18
Mycophenolate	0.81	0.89	0.73	0.79	1.07	1.26	0.74	1.01
Sulfasalazine	0.28	0.18	0.28	0.36	0.24	0.18	0.35	0.27
Abatacept	0.03	0.02	0.02	0.05	0.06	0.03	0.11	0.07
Rituximab	0.27	0.33	0.15	0.32	0.37	0.32	0.45	0.4
Tocilizumab	0.03	0.02	0.04	0.05	0.02	0.03	0	0.03
Adalimumab	0.19	0.21	0.16	0.2	0.29	0.36	0.21	0.2
Anakinra	0	0	0	0	0.01	0.01	0	0.03
Apremilast	0.07	0.06	0.09	0.08	0.04	0.03	0.03	0.07
Certolizumab Pegol	0.03	0.02	0.01	0.05	0.08	0.06	0.13	0.07
Etanercept	0.1	0.09	0.11	0.1	0.14	0.1	0.29	0.07
Golimumab	0.02	0.02	0.03	0.01	0.04	0.01	0.08	0.03
Infliximab	0.09	0.05	0.09	0.14	0.12	0.13	0.05	0.17
Azathioprine	0.25	0.19	0.25	0.32	0.26	0.22	0.29	0.3
Tofacitinib	0.13	0.13	0.09	0.16	0.09	0.08	0.13	0.07
Upadacitinib	0.02	0.02	0	0.05	0	0	0	0
Canakinumab	0	0	0	0	0	0	0	0
Rilonacept	0	0	0	0	0	0	0	0
Sarilumab	0.01	0.02	0	0.01	0.01	0	0.03	0
Siltuximab	0	0	0	0	0	0	0	0
Other DMARDs	0.54	0.52	0.51	0.61	0.48	0.5	0.42	0.5
Antivirals								
Antivirals	4.64	5.19	4.22	4.48	4.92	5.64	4.59	3.6
HIV Antivirals	0.52	0.73	0.52	0.33	0.67	0.92	0.53	0.24
Influenza Antivirals	2.18	2.66	1.94	1.92	2.17	2.67	1.88	1.34
Other Antivirals	2.13	2.07	1.94	2.36	2.44	2.56	2.47	2.12
Analgesics								
Analgesics	51.03	48.45	50.57	53.96	54.24	52.13	55.39	57.88
Acetaminophen	38.93	37.53	38.73	40.5	42.46	41.68	42.17	44.71
NSAIDs								
NSAIDs	24.89	22.87	25	25.65	25.77	24.6	27.04	26.96
Ibuprofen	11.6	11.87	11.7	11.24	12.75	12.5	13.61	12.24
Naproxen	4.55	4.36	4.84	4.5	4.92	5.2	4.78	4.44
Indomethacin	0.61	0.48	0.62	0.72	0.71	0.69	0.79	0.77
Other NSAIDs	14.54	12.88	14.93	15.74	15.7	14.53	16.48	17.51
Opioids	31.27	26.69	32.27	34.3	35.69	32.38	38.19	40.47
Other Analgesics	1.65	1.31	1.48	2.13	1.88	1.52	2.42	2.05
Antipsychotics								
Antipsychotics	12.21	11.99	11.55					