

**Table 7A: Top 50 Secondary Diagnoses (ICD-9) Recorded in Inpatient Stays and Stays with Septicemia as a Secondary Diagnosis, DRGs Related to COPD, 2013-2015**

		Total	DRG 190	DRG 191	DRG 192	Percent of Total Stays
			COPD w MCC	COPD w CC	COPD w/o CC/MCC	
Number of Stays		50,765	21,393	17,661	11,711	100.0%
Total diagnoses		698,378	324,295	253,756	120,327	
Secondary Diagnoses (ICD-9)						
491.21	Obstructive chronic bronchitis with (acute) exacerbation	33,071	15,092	10,576	7,403	65.1%
401.9	Unspecified essential hypertension	26,676	10,550	9,294	6,832	52.5%
272.4	Other and unspecified hyperlipidemia	18,914	8,169	6,646	4,099	37.3%
V15.82	Personal history of tobacco use	16,336	7,217	5,709	3,410	32.2%
428.0	Congestive heart failure, unspecified	14,662	8,042	5,221	1,399	28.9%
305.1	Tobacco use disorder	14,202	5,840	4,791	3,571	28.0%
530.81	Esophageal reflux	13,286	5,626	4,877	2,783	26.2%
V46.2	Other dependence on machines, supplemental oxygen	11,956	5,767	4,321	1,868	23.6%
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	11,917	5,123	4,276	2,518	23.5%
414.01	Coronary atherosclerosis of native coronary artery	11,580	5,380	4,046	2,154	22.8%
427.31	Atrial fibrillation	10,053	4,972	3,578	1,503	19.8%
491.22	Obstructive chronic bronchitis with acute bronchitis	9,973	3,640	4,075	2,258	19.6%
300.00	Anxiety state, unspecified	9,934	4,167	3,554	2,213	19.6%
486.	Pneumonia, organism unspecified	8,797	8,705	63	29	17.3%
244.9	Unspecified acquired hypothyroidism	8,284	3,589	3,030	1,665	16.3%
311.	Depressive disorder, not elsewhere classified	8,184	3,468	2,937	1,779	16.1%
493.22	Chronic obstructive asthma with (acute) exacerbation	7,644	2,848	3,242	1,554	15.1%
799.02	Hypoxemia	6,629	2,531	2,352	1,746	13.1%
327.23	Obstructive sleep apnea (adult)(pediatric)	6,374	3,057	2,498	819	12.6%
V58.66	Long-term (current) use of aspirin	6,298	2,754	2,279	1,265	12.4%
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	6,169	3,021	2,438	710	12.2%
V58.69	Long-term (current) use of other medications	5,374	2,252	1,920	1,202	10.6%
285.9	Anemia, unspecified	5,203	2,531	1,882	790	10.2%
715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	4,883	2,074	1,758	1,051	9.6%
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	4,731	2,065	1,684	982	9.3%
518.84	Acute and chronic respiratory failure	4,549	4,549	0	0	9.0%
584.9	Acute kidney failure, unspecified	4,531	2,373	2,158	0	8.9%
412.	Old myocardial infarction	4,327	1,955	1,549	823	8.5%

**Table 7A: Top 50 Secondary Diagnoses (ICD-9) Recorded in Inpatient Stays and Stays with Septicemia as a Secondary Diagnosis, DRGs Related to COPD, 2013-2015**

		Total	DRG 190	DRG 191	DRG 192	Percent of Total Stays
			COPD w MCC	COPD w CC	COPD w/o CC/MCC	
V58.61	Long-term (current) use of anticoagulants	4,318	1,956	1,647	715	8.5%
278.00	Obesity, unspecified	4,316	1,820	1,703	793	8.5%
V45.82	Percutaneous transluminal coronary angioplasty status	4,292	1,941	1,541	810	8.5%
276.8	Hypopotassemia	4,235	1,943	1,534	758	8.3%
276.1	Hyposmolality and/or hyponatremia	4,187	1,992	2,195	0	8.2%
338.29	Other chronic pain	4,066	1,718	1,467	881	8.0%
278.01	Morbid obesity	3,998	1,794	1,927	277	7.9%
518.83	Chronic respiratory failure	3,985	1,179	2,806	0	7.8%
V12.54	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits	3,944	1,704	1,429	811	7.8%
V45.81	Aortocoronary bypass status	3,888	1,789	1,373	726	7.7%
V49.86	Do not resuscitate status	3,769	2,041	1,231	497	7.4%
416.8	Other chronic pulmonary heart diseases	3,698	1,995	1,334	369	7.3%
V58.65	Long-term (current) use of steroids	3,401	1,484	1,292	625	6.7%
443.9	Peripheral vascular disease, unspecified	3,382	1,660	1,151	571	6.7%
585.3	Chronic kidney disease, Stage III (moderate)	3,357	1,657	1,321	379	6.6%
V58.67	Long-term (current) use of insulin	3,293	1,436	1,339	518	6.5%
733.00	Osteoporosis, unspecified	3,276	1,382	1,222	672	6.5%
518.81	Acute respiratory failure	3,250	3,250	0	0	6.4%
288.60	Leukocytosis, unspecified	3,225	1,400	1,167	658	6.4%
585.9	Chronic kidney disease, unspecified	3,144	1,494	1,208	442	6.2%
272.0	Pure hypercholesterolemia	3,127	1,337	1,082	708	6.2%
600.00	Hypertrophy (benign) of prostate without urinary obstruction and other lower urinary tract symptom (LUTS)	2,985	1,373	1,029	583	5.9%
<b>Septicemia Secondary Diagnoses</b>						
038.9	Unspecified septicemia	127	127	0	0	0.3%
995.91	Sepsis	123	123	0	0	0.2%

**SOURCE:** Medicare 5-percent Limited Dataset

**NOTES:** Number of events not inflated to national level.

Unit of analysis is the inpatient stay for all Medicare FFS beneficiaries with any Part A coverage during the years of interest. Beneficiaries may be represented more than once in the data.

Counts exclude admissions during the final quarter of CY2015, to avoid inclusion of ICD-10 diagnostic codes.

**Table 7B: Top 50 Secondary Diagnoses (ICD-9) Recorded in Inpatient Stays and Stays with Septicemia as a Secondary Diagnosis, DRGs Related to Asthma, 2013-2015**

		Total	DRG 202	DRG 203	Percent of Total Stays
			BRONCHITIS & ASTHMA W CC/MCC	BRONCHITIS & ASTHMA W/O CC/MCC	
	Number of Stays	7,942	5,335	2,607	100.0%
	Total diagnoses	99,215	73,590	25,625	
Secondary Diagnoses (ICD-9)					
401.9	Unspecified essential hypertension	4,089	2,578	1,511	51.5%
466.0	Acute bronchitis	3,604	2,589	1,015	45.4%
493.92	Asthma, unspecified, with (acute) exacerbation	2,982	1,901	1,081	37.5%
272.4	Other and unspecified hyperlipidemia	2,796	1,943	853	35.2%
530.81	Esophageal reflux	2,119	1,440	679	26.7%
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	1,999	1,356	643	25.2%
244.9	Unspecified acquired hypothyroidism	1,480	1,060	420	18.6%
428.0	Congestive heart failure, unspecified	1,409	1,229	180	17.7%
427.31	Atrial fibrillation	1,307	971	336	16.5%
414.01	Coronary atherosclerosis of native coronary artery	1,243	901	342	15.7%
V15.82	History of tobacco use	1,152	791	361	14.5%
311.	Depressive disorder, not elsewhere classified	1,131	736	395	14.2%
300.00	Anxiety state, unspecified	1,085	735	350	13.7%
490.	Bronchitis, not specified as acute or chronic	971	656	315	12.2%
327.23	Obstructive sleep apnea (adult)(pediatric)	894	702	192	11.3%
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	892	712	180	11.2%
799.02	Hypoxemia	870	586	284	11.0%
V58.66	Long-term (current) use of aspirin	853	591	262	10.7%
278.00	Obesity, unspecified	805	553	252	10.1%
276.8	Hypopotassemia	799	592	207	10.1%
278.01	Morbid obesity	796	698	98	10.0%
V58.69	Long-term (current) use of other medications	795	531	264	10.0%
285.9	Anemia, unspecified	739	589	150	9.3%
715.90	Osteoarthritis, unspecified whether generalized or localized, site unspecified	732	468	264	9.2%
584.9	Acute kidney failure, unspecified	700	700	0	8.8%
493.90	Asthma, unspecified, unspecified	680	453	227	8.6%

<b>Table 7B: Top 50 Secondary Diagnoses (ICD-9) Recorded in Inpatient Stays and Stays with Septicemia as a Secondary Diagnosis, DRGs Related to Asthma, 2013-2015</b>					
		Total	DRG 202	DRG 203	Percent of Total Stays
			BRONCHITIS & ASTHMA W CC/MCC	BRONCHITIS & ASTHMA W/O CC/MCC	
V58.61	Long-term (current) use of anticoagulants	675	510	165	8.5%
V12.54	Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits	660	461	199	8.3%
276.1	Hyposmolality and/or hyponatremia	647	647	0	8.1%
276.51	Dehydration	622	432	190	7.8%
V58.67	Long-term (current) use of insulin	583	446	137	7.3%
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	577	405	172	7.3%
294.20	Dementia, unspecified, without behavioral disturbance	555	387	168	7.0%
305.1	Tobacco use disorder	509	340	169	6.4%
599.0	Urinary tract infection, site not specified	508	508	0	6.4%
V45.81	Aortocoronary bypass status	508	366	142	6.4%
272.0	Pure hypercholesterolemia	496	320	176	6.2%
V45.82	Percutaneous transluminal coronary angioplasty status	485	343	142	6.1%
585.3	Chronic kidney disease, Stage III (moderate)	480	384	96	6.0%
V14.0	Personal history of allergy to Penicillin	479	328	151	6.0%
338.29	Other chronic pain	470	315	155	5.9%
733.00	Osteoporosis, unspecified	461	338	123	5.8%
585.9	Chronic kidney disease, unspecified	459	355	104	5.8%
V45.01	Cardiac pacemaker	458	334	124	5.8%
288.60	Leukocytosis, unspecified	452	327	125	5.7%
412.	Old myocardial infarction	439	338	101	5.5%
V49.86	Bariatric surgery status	431	335	96	5.4%
V12.51	Personal history of venous thrombosis and embolism	404	299	105	5.1%
V58.65	Long-term (current) use of steroids	403	286	117	5.1%
486.	Pneumonia, organism unspecified	367	367	0	4.6%
<b>Septicemia Secondary Diagnoses</b>					
995.91	Sepsis	24	24	0	0.3%
038.9	Unspecified septicemia	22	22	0	0.3%

**SOURCE:** Medicare 5-percent Limited Dataset

**NOTES:** Number of events not inflated to national level.

Unit of analysis is the inpatient stay for all Medicare FFS beneficiaries with any Part A coverage during the years of interest. Beneficiaries may be represented more than once in the data.

Counts exclude admissions during the final quarter of CY2015, to avoid inclusion of ICD-10 diagnostic codes.