

Q1. For accounts discharged during 2019, which were the most common primary diagnoses and Secondary diagnoses?

Top 10 Most Common Primary Diagnoses

Code	Description	Frequency
Z38.00	Single liveborn infant, delivered vaginally	74
A41.9	Sepsis, unspecified organism	51
Z38.01	Single liveborn infant, delivered by cesarean	48
J18.9	Pneumonia, unspecified organism	40
J44.1	Chronic obstructive pulmonary disease w (acute) exacerbation	35
N39.0	Urinary tract infection, site not specified	32
M17.9	Osteoarthritis of knee, unspecified	30
I48.91	Unspecified atrial fibrillation	29
R07.82	Intercostal pain	21
O48.0	Post-term pregnancy	21

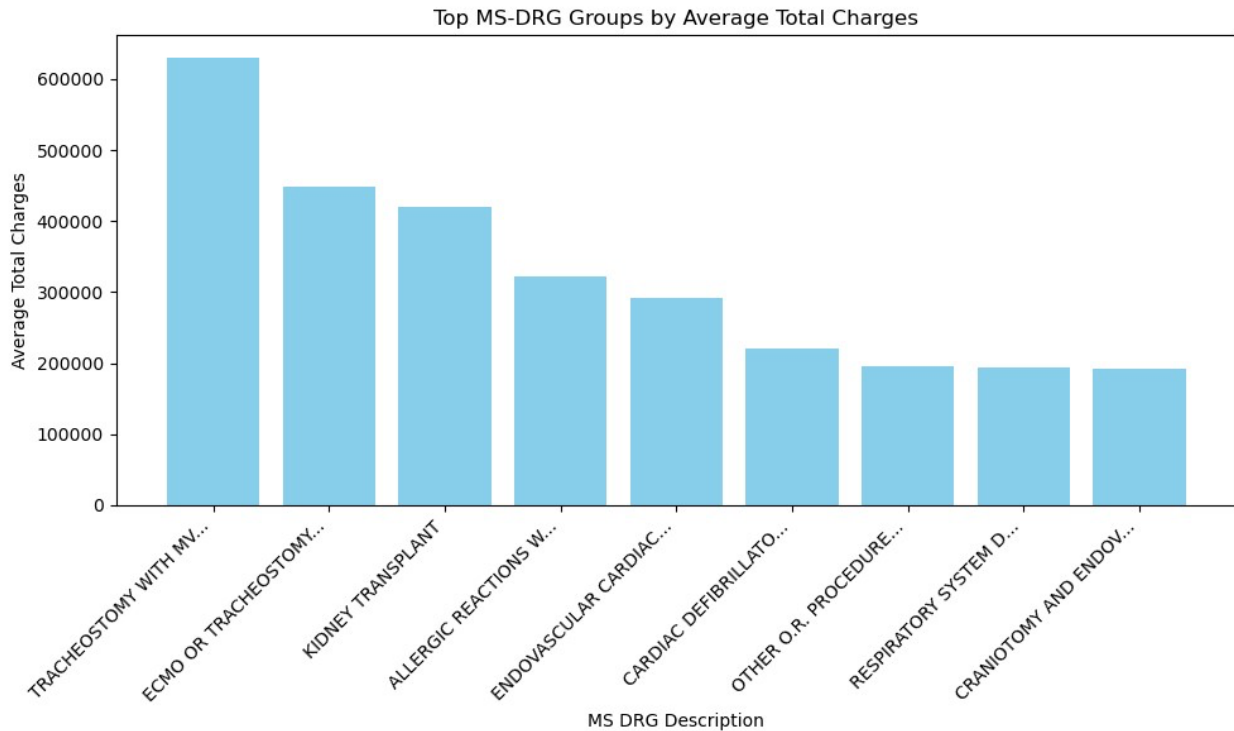
Top 10 Most Common Secondary Diagnoses:

Code	Description	Frequency
I10	Essential (primary) hypertension	775
Z87.891	Personal history of nicotine dependence	550
E78.4	Other hyperlipidemia	473
I25.10	Atherosclerotic heart disease of native coronary artery w/o ang pectoris	355
K21.9	Gastro-esophageal reflux disease without esophagitis	353
E11.9	Type 2 diabetes mellitus without complications	258
I48.91	Unspecified atrial fibrillation	224
E03.9	Hypothyroidism, unspecified	207
J44.9	Chronic obstructive pulmonary disease, unspecified	198
F17.200	Nicotine dependence, unspecified, uncomplicated	195

Q2. Which diagnosis related groups (MS-DRGs) have the highest average charges per patient account?

Top MS-DRG Groups by Average Total Charges

MS DRG Code	MS DRG Description	Total Charges
4	TRACHEOSTOMY WITH MV...	630043.3966666666
3	ECMO OR TRACHEOSTOMY...	448226.595
652	KIDNEY TRANSPLANT	420861.48
915	ALLERGIC REACTIONS W...	321572.91000000003
266	ENDOVASCULAR CARDIAC...	291848.07
226	CARDIAC DEFIBRILLATO...	220603.875
957	OTHER O.R. PROCEDURE...	194860.9833333333
207	RESPIRATORY SYSTEM D...	194220.29
25	CRANIOTOMY AND ENDOV...	192954.16
224	CARDIAC DEFIBRILLATO...	190332.06



Q3. Which Attending Provider Service had the highest volume of accounts (encounters) during December 2018?

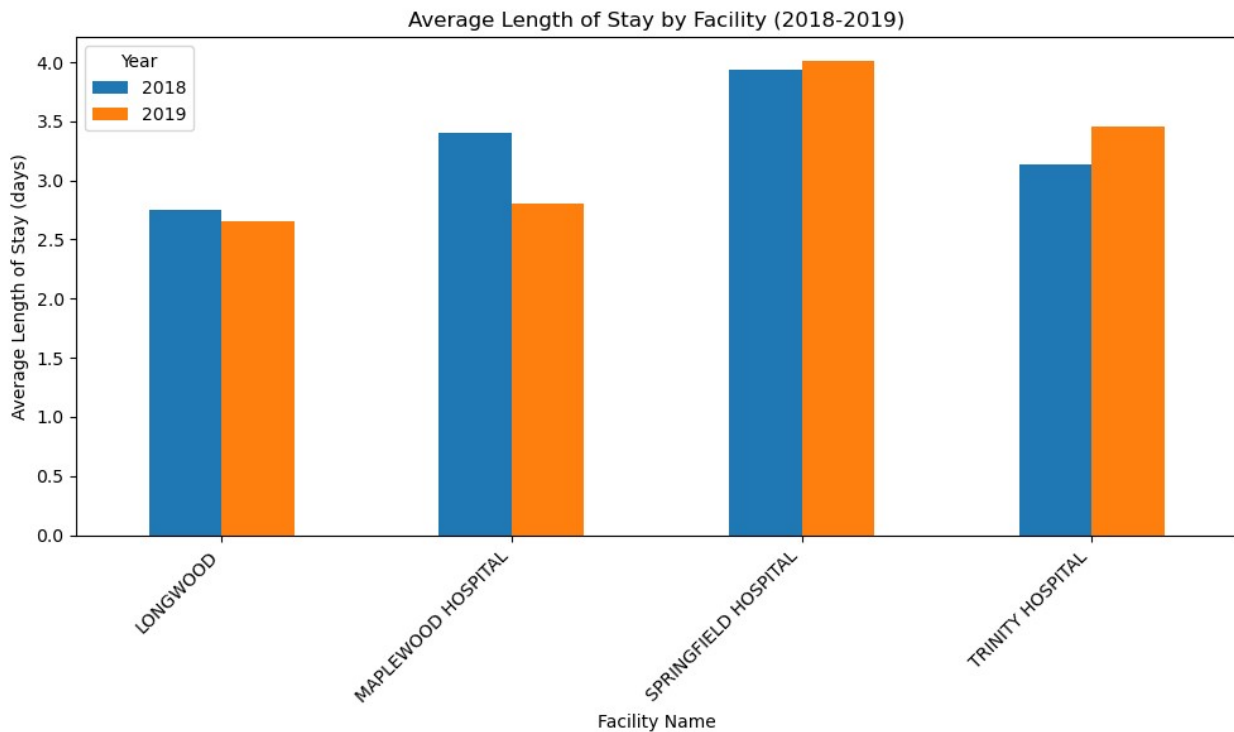
Top 5 Attending Provider Services with the highest volume of accounts during December 2018

Provider Service	account_count
Internal Medicine	77
Family Medicine	30
Pediatrics	19
OB/Gyn	9
Neonatology	3

Q4. What is the “average length of stay” (number of hospital days between admit date and discharge date, but not including discharge date) for each of the 4 facilities for each of the years for which account information are provided (2018 & 2019).

Facility Name	year	total_length_of_stay	avg_length_of_stay
SPRINGFIELD HOSPITAL	2019	1663	4.01
SPRINGFIELD HOSPITAL	2018	1448	3.94
TRINITY HOSPITAL	2019	2349	3.46
MAPLEWOOD HOSPITAL	2018	1590	3.4
TRINITY HOSPITAL	2018	2076	3.14
MAPLEWOOD HOSPITAL	2019	1336	2.8

LONGWOOD	2018	1984	2.75	
LONGWOOD	2019	2046	2.66	



Q5. Which MS-DRGs Service Lines had the largest difference between the observed length of stay and the national average provided in the MS-DRG reference file? Use the "Arithmetic Mean LOS" field as the national average.

Service Line Description	LOS	Arithmetic Mean LOS	Difference
SURGICAL TRACHEOSTOM	44.375	26.05	18.325
PSYCHIATRY	2.8780487804878048	5.560975609756097	2.6829268292682924
NORMAL NEWBORN	1.056768558951965	3.140611353711791	2.0838427947598257
OTHER OB	1.2857142857142858	3.357142857142857	2.071428571428571
NEONATOLOGY	6.896551724137931	5.103448275862069	1.7931034482758612
CARDIAC CATHS	1.9411764705882353	3.6176470588235294	1.6764705882352942
OBSTETRICS	1.542763157894737	3.0246710526315788	1.4819078947368418
NEUROLOGY	2.4096385542168677	3.7771084337349397	1.367469879518072
OPEN HEART	6.538461538461538	7.889743589743589	1.351282051282051
ONCOLOGY/HEMATOLOGY	3.5306122448979593	4.744897959183674	1.2142857142857144