National Patient and Procedure Volume Tracker TM

Biweekly update Aug 3, 2020

Overall volumes are continuing to grow in Northeast and Midwest regions. Inpatient admissions are higher than 2019 in the South. Admission volumes are only marginally negative in the other regions revealing a rebound. Outpatient visits are growing in all census regions except in the West. Emergency visits are still significantly down versus 2019 as people are likely seeking other channels of support or avoiding care.

Likely due to the holiday all service lines are down over the last two weeks of reported data (data as of July 4th). More broadly, we are seeing medical service lines (eg cancer and certain cardiology areas) and preventative care and screenings rebounding to near 2019 levels. We will look for confirmation in later July data to be published in Mid August. We continue to see elective procedural areas and those related to traumas continuing to track well below 2019.

Self pay has been stable but continues to be well above normal in all regions.

The data science team at Strata aggregated data from a cohort of 257 hospitals in 56 healthcare delivery systems. The breakdown of hospitals by U.S. Census Region is below.

Census Region				
Midwest	Northeast	South	West	Grand Total
104	36	83	34	**257**

Section 1 Admission Stays and Visits Recent Volume Changes

Data as of July 25, 2020

	30 Day Change Compare to 2019	14 Day Change Compare to 2019
DailyInpatientAdmissions	▼ -2.2%	▼ -3.6%
DailyObservationVisits	▼ -9.4%	▼ -10.0%
DailyEmergencyVisits	▼ -14.5%	▼ -15.1%
DailyOutpatientVisits	▲ 23.6%	▲ 23.8%

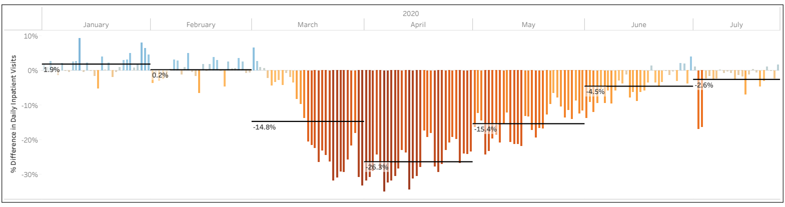
	Change in Last 30 Days	Change in Last 14 Days
DailyInpatientAdmissions	▲ 1.1%	▼ -1.0%
DailyObservationVisits	▲ 4.7%	▲ 0.9%
DailyEmergencyVisits	▲ 9.9%	▼ -1.6%
DailyOutpatientVisits	▲ 0.1%	▲ 1.5%

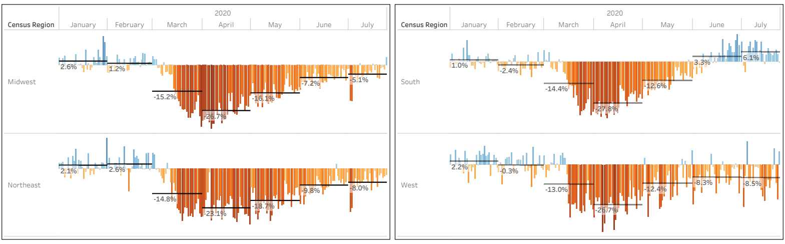
Census Region	Metric	30 Day Change Compared to Same Period 2019	14 Day Change Compared to Same Period 2019
Midwest	DailyInpatientAdmissions	▼ -3.8%	▼ -3.4%
	DailyObservationVisits	▲ 3.0%	▲ 2.2%
	DailyEmergencyVisits	▼ -15.2%	▼ -14.3%
	DailyOutpatientVisits	▲ 28.2%	▲ 29.7%
Northeast	DailyInpatientAdmissions	▼ -6.6%	▼ -5.9%
	DailyObservationVisits	▼ -10.2%	▼ -9.8%
	DailyEmergencyVisits	▼ -18.2%	▼ -17.2%
	DailyOutpatientVisits	▲ 27.1%	▲ 30.6%
South	DailyInpatientAdmissions	▲ 8.7%	▲ 5.7%
	DailyObservationVisits	▼ -13.4%	▼ -15.8%
	DailyEmergencyVisits	▼ -14.6%	▼ -16.5%
	DailyOutpatientVisits	▲ 12.4%	▲ 11.1%
West	DailyInpatientAdmissions	▼ -7.3%	▼ -10.9%
	DailyObservationVisits	▼ -16.9%	▼ -16.4%
	DailyEmergencyVisits	▼ -10.1%	▼ -12.4%
	DailyOutpatientVisits	▲ 27.0%	▲ 23.8%

Census Region	Metric	Change in Last 30 Days	Change in Last 14 Days
Midwest	DailyInpatientAdmissions	▲ 0.5%	▲ 2.5%
	DailyObservationVisits	▲ 4.6%	▲ 2.6%
	DailyEmergencyVisits	▲ 8.5%	▲ 0.6%
	DailyOutpatientVisits	▲ 3.2%	▲ 0.2%
Northeast	DailyInpatientAdmissions	▲ 2.5%	▲ 2.6%
	DailyObservationVisits	▲ 15.8%	▲ 3.3%
	DailyEmergencyVisits	▲ 14.1%	▲ 1.5%
	DailyOutpatientVisits	▲ 3.9%	▲ 7.9%
South	DailyInpatientAdmissions	▲ 4.4%	▼ -3.3%
	DailyObservationVisits	▼ -2.2%	▼ -3.8%
	DailyEmergencyVisits	▲ 8.5%	▼ -4.7%
	DailyOutpatientVisits	▼ -4.0%	▲ 2.1%
West	DailyInpatientAdmissions	▼ -2.9%	▼ -5.9%
	DailyObservationVisits	▲ 0.6%	▲ 1.6%
	DailyEmergencyVisits	▲ 8.5%	▼ -3.8%
	DailyOutpatientVisits	▼ -2.8%	▼ -4.2%

Section 2 Inpatient Admissions Daily Percent Change Compared to 2019

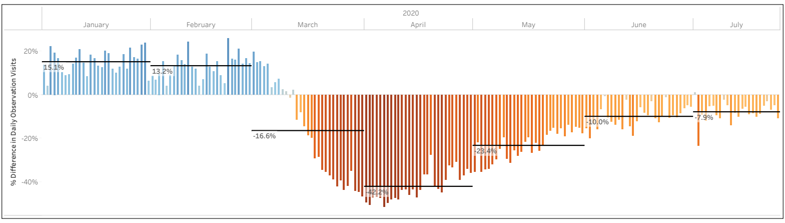
Data as of July 25, 2020

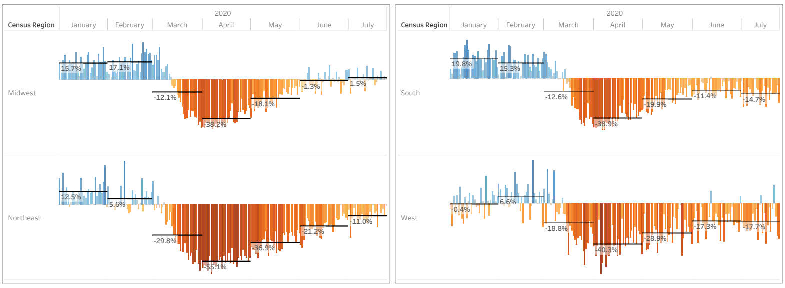




Section 3 Observation Visits Daily Percent Change Compared to 2019

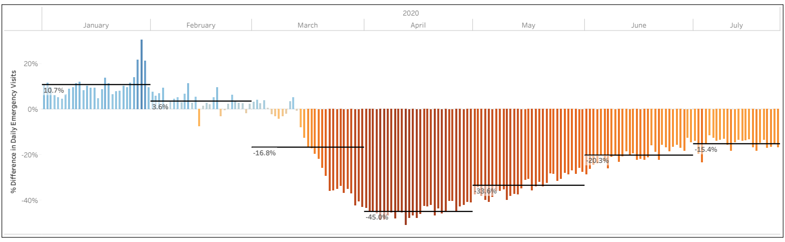
Data as of July 25, 2020

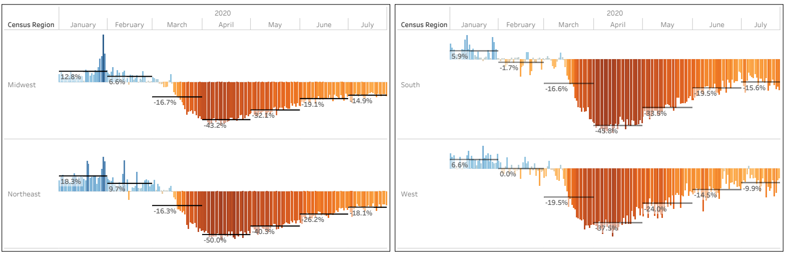




Section 4 Emergency Visits Daily Percent Change Compared to 2019

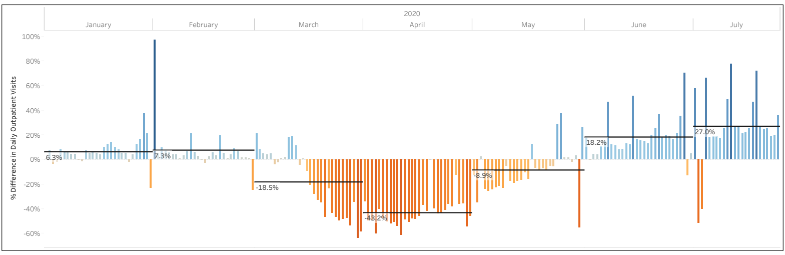
Data as of July 25, 2020

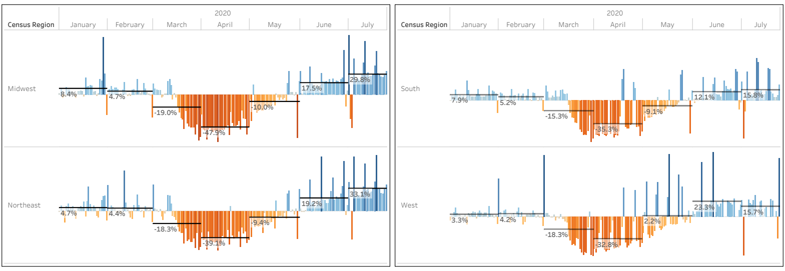




Section 5 Outpatient Visits Daily Percent Change Compared to 2019

Data as of July 25, 2020





Section 6 Sg2 Service Line Percent Change Last 14 Days

Data Compares Service Line Volume Changes for the weeks of 6/7 -6/20/2020 to the weeks of 6/21 - 7/4/2020

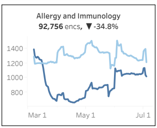
Allergy and Immunology	▼ -3.3%
Behavioral Health	▼ -1.8%
Breast Health	▼ -12.9%
Burns and Wounds	▲ 0.3%
Cancer	▼ -7.4%
Cardiology	▼ -9.7%
Dermatology	▼ -7.3%
Endocrine	▼ -15.2%
ENT	▼ -7.8%
Gastroenterology	▼ -12.9%
General Medicine	▼ -12.0%
General Surgery	▼ -5.9%
Genetics	▼ -9.5%
Gynecology	▼ -16.9%
Hematology	▼ -7.2%

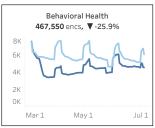
Hepatology	▼ -11.6%
Infectious Disease	▲ 3.6%
Neonatology	▼ -2.2%
Nephrology	▼ -7.0%
Neurosciences	▼ -8.8%
Normal Newborn	▼ -5.3%
Obstetrics	▼ -7.3%
Ophthalmology	▼ -17.1%
Orthopedics	▼ -9.6%
Pulmonology	▼ -12.5%
Rheumatology	▼ -10.6%
Spine	▼ -12.1%
Urology	▼ -10.0%
Vascular	▼ -9.8%

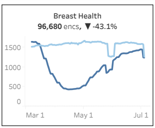
Section 7 Volume Losses by Service Line 2019 vs 2020

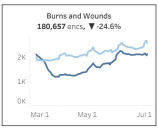
Data as of July 4, 2020

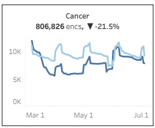
🟦 2019
🟦 2020

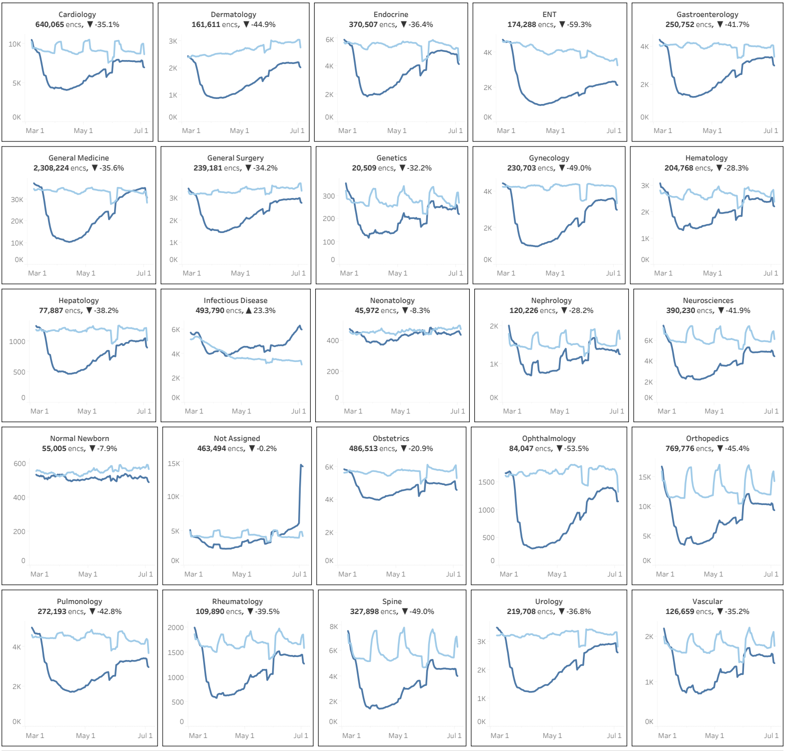

Allergy and Immunology
92,756 encs, ▼ -34.8%


Behavioral Health
467,550 encs, ▼ -25.9%


Breast Health
96,680 encs, ▼ -43.1%


Burns and Wounds
180,657 encs, ▼ -24.6%

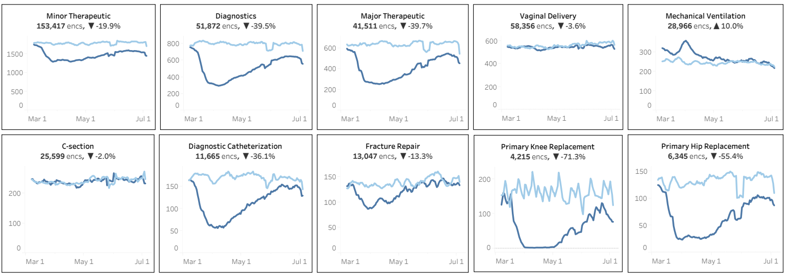

Cancer
806,826 encs, ▼ -21.5%


Cardiology 640,065 encs, ▼-35.1%
Dermatology 161,611 encs, ▼-44.9%
Endocrine 370,507 encs, ▼-36.4%
ENT 174,288 encs, ▼-59.3%
Gastroenterology 250,752 encs, ▼-41.7%
General Medicine 2,308,224 encs, ▼-35.6%
General Surgery 239,181 encs, ▼-34.2%
Genetics 20,509 encs, ▼-32.2%
Gynecology 230,703 encs, ▼-49.0%
Hematology 204,768 encs, ▼-28.3%
Hepatology 77,887 encs, ▼-38.2%
Infectious Disease 493,790 encs, ▲23.3%
Neonatology 45,972 encs, ▼-8.3%
Nephrology 120,226 encs, ▼-28.2%
Neurosciences 390,230 encs, ▼-41.9%
Normal Newborn 55,005 encs, ▼-7.9%
Not Assigned 463,494 encs, ▼-0.2%
Obstetrics 486,513 encs, ▼-20.9%
Ophthalmology 84,047 encs, ▼-53.5%
Orthopedics 769,776 encs, ▼-45.4%
Pulmonology 272,193 encs, ▼-42.8%
Rheumatology 109,890 encs, ▼-39.5%
Spine 327,898 encs, ▼-49.0%
Urology 219,708 encs, ▼-36.8%
Vascular 126,659 encs, ▼-35.2%

Section 8 Impact to Inpatient Procedures and Surgeries

Data as of July 4, 2020

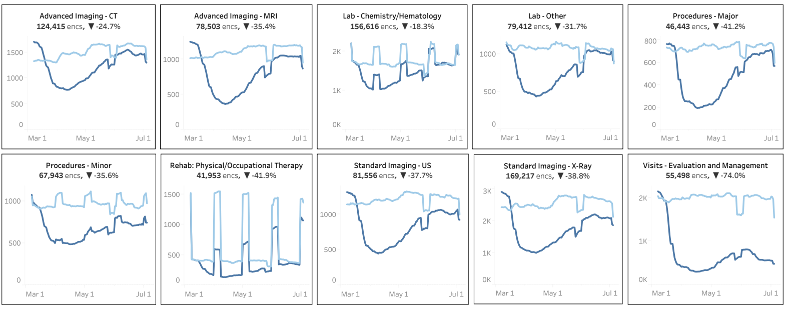
2019
2020


Minor Therapeutic 153,417 encs, ▼-19.9%
Diagnostics 51,872 encs, ▼-39.5%
Major Therapeutic 41,511 encs, ▼-39.7%
Vaginal Delivery 58,356 encs, ▼-3.6%
Mechanical Ventilation 28,966 encs, ▲10.0%
C-section 25,599 encs, ▼-2.0%
Diagnostic Catheterization 11,665 encs, ▼-36.1%
Fracture Repair 13,047 encs, ▼-13.3%
Primary Knee Replacement 4,215 encs, ▼-71.3%
Primary Hip Replacement 6,345 encs, ▼-55.4%

Section 9 Impact to Hospital Outpatient Visits

Data as of July 4, 2020

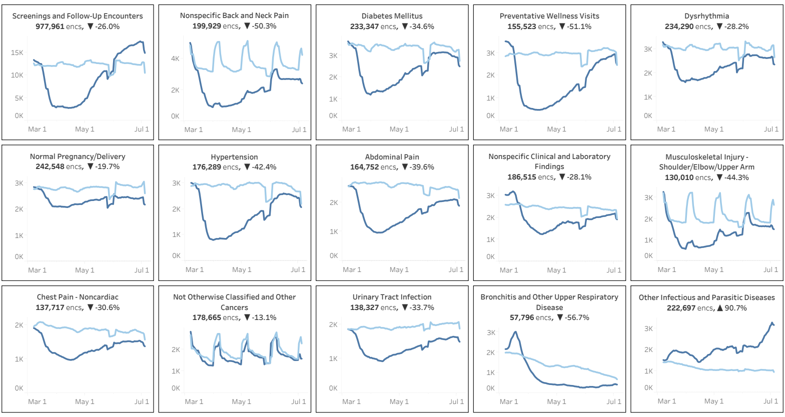
2019
2020


Advanced Imaging - CT 124,415 encs, ▼-24.7%
Advanced Imaging - MRI 78,503 encs, ▼-35.4%
Lab - Chemistry/Hematology 156,616 encs, ▼-18.3%
Lab - Other 79,412 encs, ▼-31.7%
Procedures - Major 46,443 encs, ▼-41.2%
Procedures - Minor 67,943 encs, ▼-35.6%
Rehab: Physical/Occupational Therapy 41,953 encs, ▼-41.9%
Standard Imaging - US 81,556 encs, ▼-37.7%
Standard Imaging - X-Ray 169,217 encs, ▼-38.8%
Visits - Evaluation and Management 55,498 encs, ▼-74.0%

Section 10 Impact to Top 15 Hospital Visits by Care Family

Data as of July 4, 2020

2019
2020

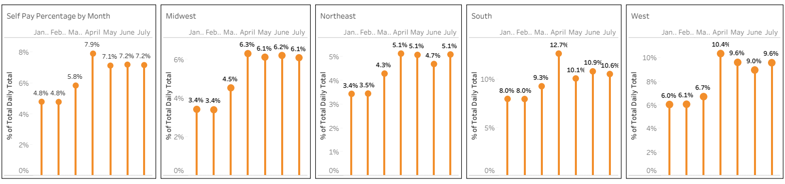

Screenings and Follow-Up Encounters 977,961 encs, ▼-26.0%
Nonspecific Back and Neck Pain 199,929 encs, ▼-50.3%
Diabetes Mellitus 233,347 encs, ▼-34.6%
Preventative Wellness Visits 155,523 encs, ▼-51.1%
Dysrhythmia 234,290 encs, ▼-28.2%
Normal Pregnancy/Delivery 242,548 encs, ▼-19.7%
Hypertension 176,289 encs, ▼-42.4%
Abdominal Pain 164,752 encs, ▼-39.6%
Nonspecific Clinical and Laboratory Findings 186,515 encs, ▼-28.1%
Musculoskeletal Injury - Shoulder/Elbow/Upper Arm 130,010 encs, ▼-44.3%
Chest Pain - Noncardiac 137,717 encs, ▼-30.6%
Not Otherwise Classified and Other Cancers 178,665 encs, ▼-13.1%
Urinary Tract Infection 138,327 encs, ▼-33.7%
Bronchitis and Other Upper Respiratory Disease 57,796 encs, ▼-56.7%
Other Infectious and Parasitic Diseases 222,697 encs, ▲90.7%

Section 11 Increase in Self Pay and Uninsured

Data as of July 25, 2020

The study found that the number of uninsured or self-pay patients has increased mirroring the rise in the national unemployment rate.

Nightly updates are received for encounter information. As providers validate or obtain insurance for patients it is added to the data set. Self Pay is still increased, however we expect self pay data for the most recent month to decrease from initially reported numbers as more insurance is found.


Self Pay Percentage by Month
Midwest
Northeast
South
West

Data Source: 56 StrataSphere health systems with decision support and valid costed encounter data available for both 2019 and 2020. Strata reviewed a total of 10 million encounters for matching timeframes in 2019 and 2020. All hospital billing encounters with nonzero charges were pulled.

Analysis of volumes and payer source of admissions, observation stays, emergency room and hospital outpatient visits trends 2020 compared to 2019.

•Timeframe: January 1, 2020 to July 25, 2020.
Data Processing Considerations:
•Self Pay: The hospital billing encounter's primary insurance plan and financial class were analyzed to identify patients that did not have insurance.

Analysis of impact of COVID-19 on volumes and revenue by clinical service line and sub service lines

•Timeframe:
•Baseline: Admit dates between March 20 andJuly 4, 2019.
•COVID era: Admit dates between March 20 and July 4, 2020.
•The COVID era timeline was chosen to reflect the first full weeks of widespread closures and shelter-in-place orders. The end date was chosen to ensure sufficient time for patient discharge and diagnosis coding to take place. The time frame will be expanded as time passes.
•Data Processing: All encounters were run through the 2020 Sg2 Care GrouperTM to obtain service lines and CARE families.
Methodology and Output
For all columns, data was aggregated by either service line or CARE family, and the metrics were calculated using the aggregate values.
The columns in the output were calculated as follows:
•Baseline encounters: Total number of encounters in the 2019 time frame.
•COVID-era encounters: Total number of encounters in the 2020 time frame.
•Volume loss: Baseline encounters minus COVID-era encounters.
•Percent volume loss: Volume loss divided by baseline encounters.

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