



StrataSphere®
Research Report:

National Patient and Procedure Volume Tracker™

Monthly Update 5/31/2023

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Excluding observation (OBS) visits in the Northeast, volumes across all other patient types and census regions increased in comparison to April 2023. Inpatient (IP) and outpatient (OP) counts increased across all census regions in comparison to the prior year as well (section 1). In terms of monthly benchmarking, OP visits are back above 2021 levels for the first time since January 2023 (section 2.5). Children's hospitals are also seeing higher volumes versus the prior month for all patient types outside of OBS, and both IP and OP counts have increased in comparison to May 2022 (section 5.1).



Similar to the decrease in raw volumes reflected in last month's report, we are seeing a drop in the majority of service line encounters in April 2023 compared to the previous month. The only service line that increased compared to March 2023 is Burns and Wounds, which aligns with its typical summer seasonality trend (sections 3.1-3.2). When looking at IP service line counts, all reported categories have also decreased compared to the previous month; however, almost all IP service lines have increased in comparison to April 2022 (section 3.3).

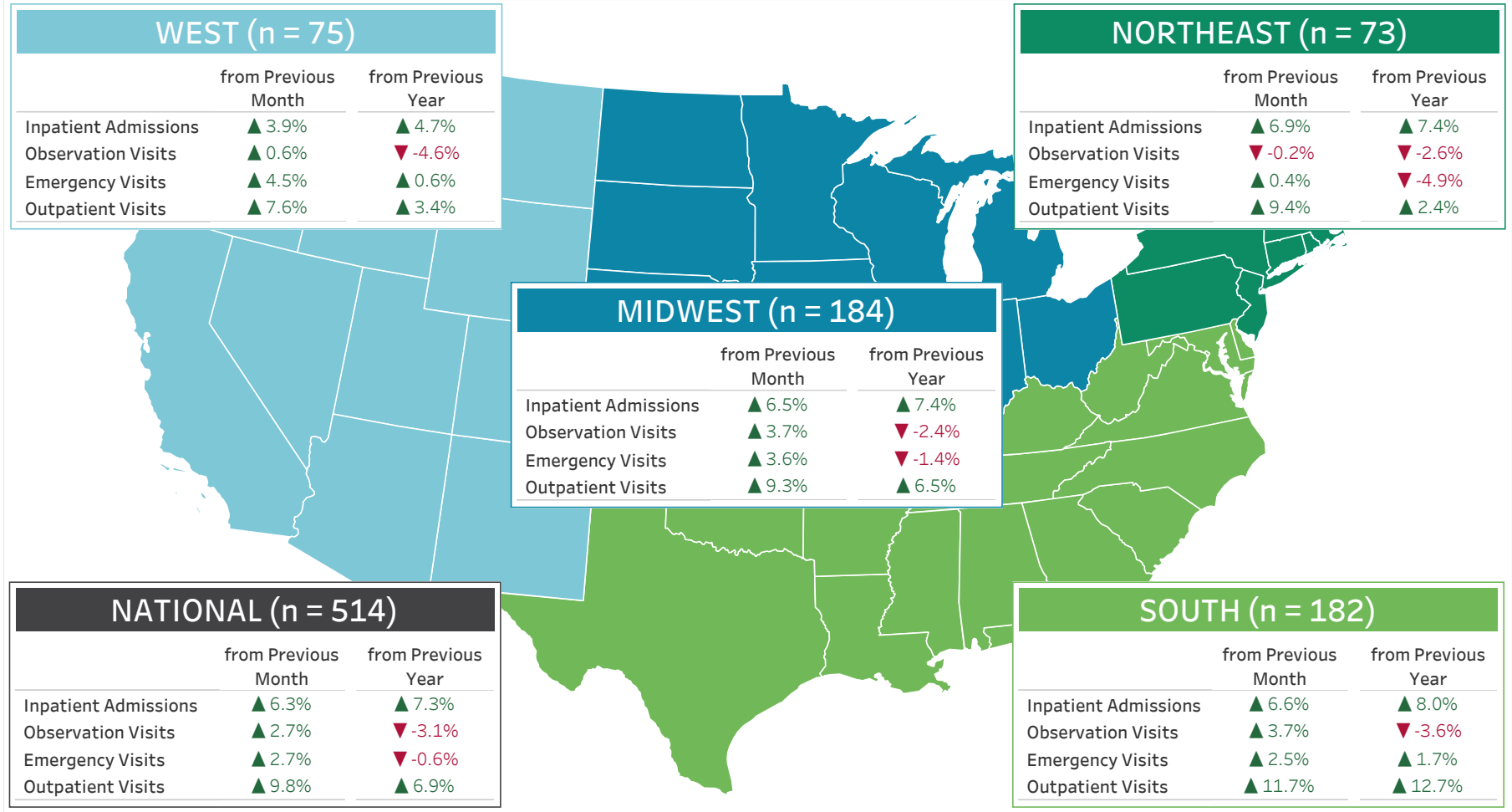


Starting with this release, the monthly National Patient and Procedure Volume Tracker will contain a section highlighting professional billing encounters related to evaluation and management care. Not surprisingly, Allergy and Immunology is showing the greatest increase in volume compared to the previous month in our initial analysis. In fact, it is the only service line showing an increase at all versus the previous month (Appendix 1.1-1.2). Take a look at the appendix of this report to see the trends for all service lines. The methodology page has also been updated with information related to the appendix.

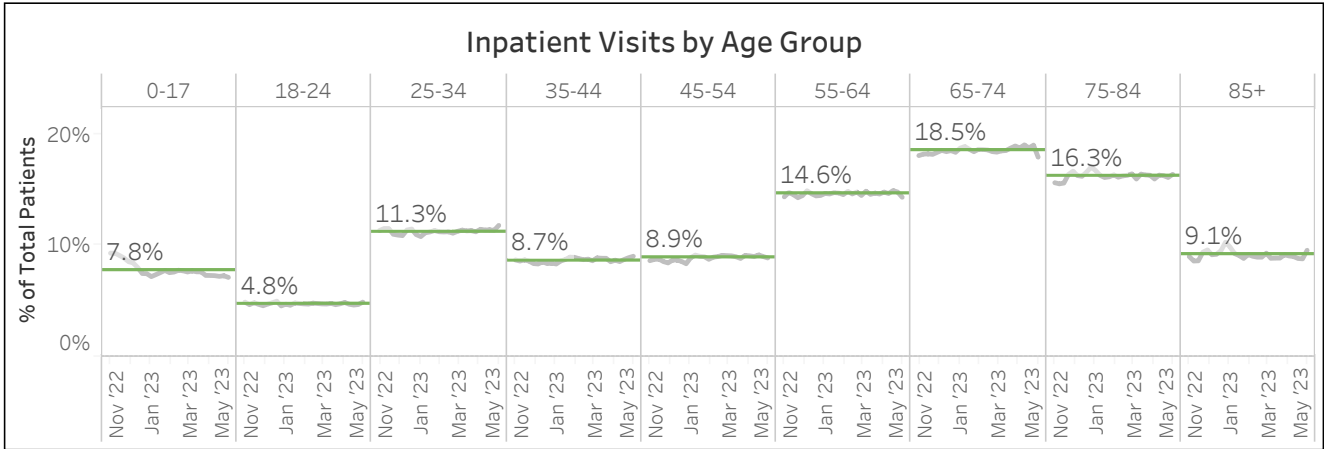
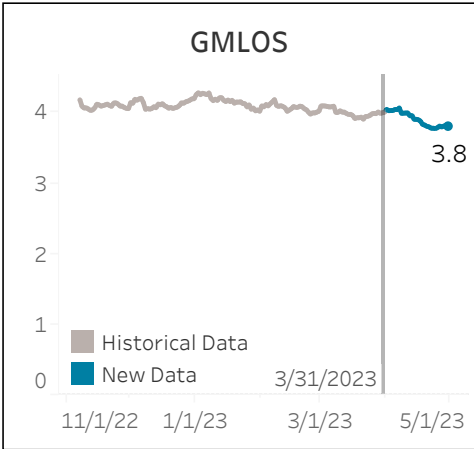
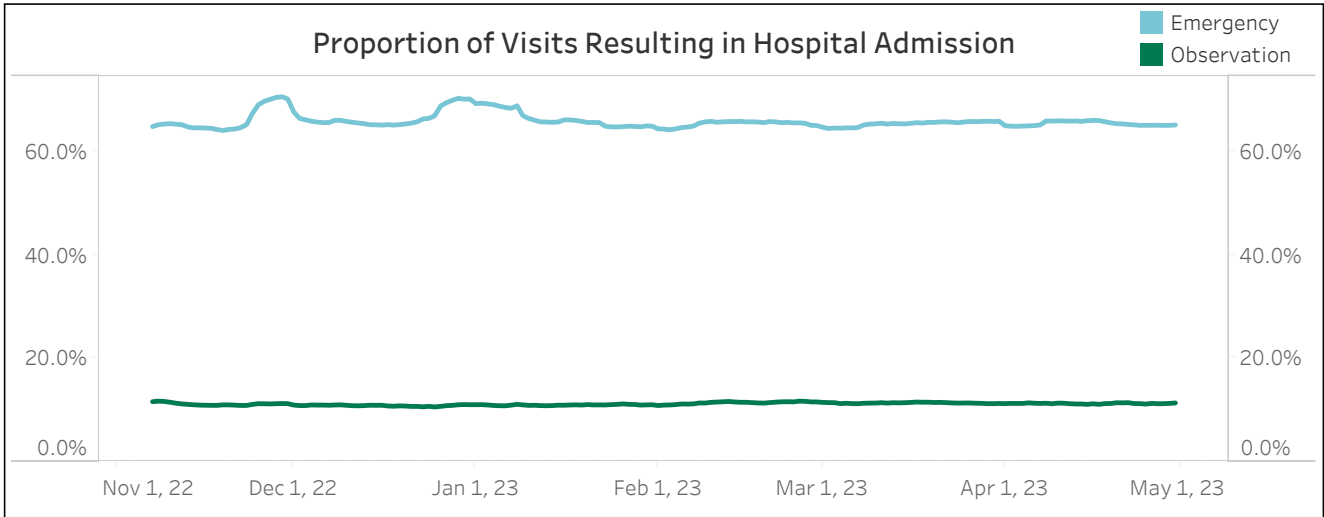
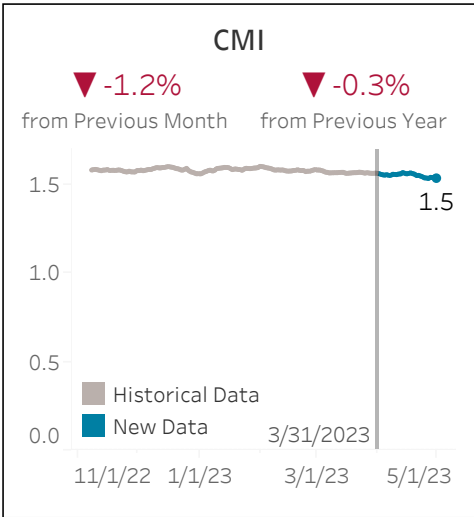


This report includes data from 109 health systems and 514 hospitals. Compared to last month, we have added 2 health systems and 12 hospitals (including 1 children's hospital). We also removed 2 health systems and 10 hospitals. The breakdown by U.S. Census Region is shown on the next page.

Section 1 Monthly National and Regional Volume Changes
Data as of 5/31/2023



Section 2.1 **Inpatient Metrics**
Data as of 4/30/2023



Section 2.2 **Inpatient Admissions**
Data as of 5/31/2023

2021 2022 2023

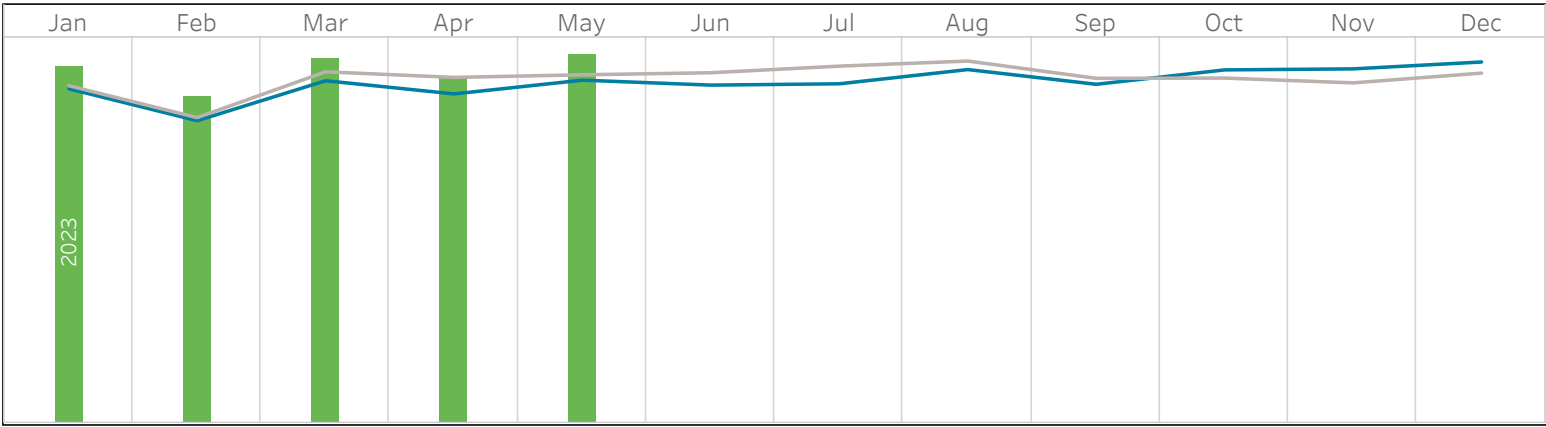
2023
YTD Volumes

▲ **6.6%**
from 2022
(n = 510)

▲ **4.3%**
from 2021
(n = 488)

▼ **-5.4%**
from 2019
(n = 425)

Monthly Volumes



Monthly Volume Changes Compared to 2021

Month	2021	2022	2023
Jan		-0.9%	5.8%
Feb		-1.0%	6.8%
Mar		-2.5%	3.8%
Apr		-4.8%	-0.1%
May		-1.5%	5.4%
Jun		-3.5%	
Jul		-4.9%	
Aug		-2.4%	
Sep		-1.7%	
Oct		2.4%	
Nov		4.1%	
Dec		3.2%	

Section 2.3 **Observation Visits**
Data as of 5/31/2023

2021 2023
2022

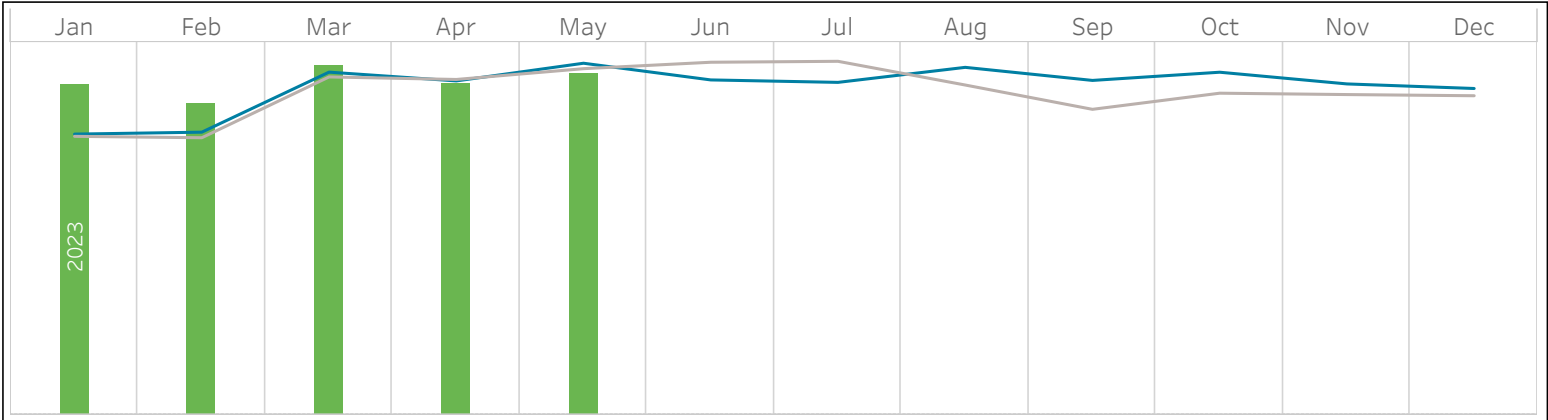
2023
YTD Volumes

▲ **4.3%**
from 2022
(n = 510)

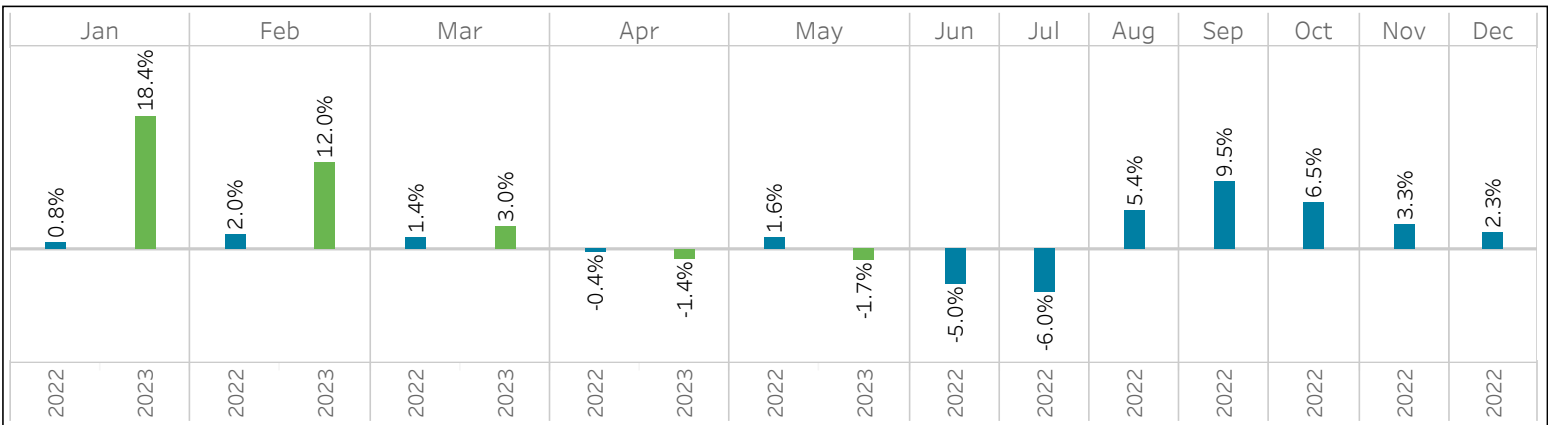
▲ **5.4%**
from 2021
(n = 488)

▲ **1.3%**
from 2019
(n = 425)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 2.4 **Emergency Visits**
Data as of 5/31/2023

2021 2023
2022

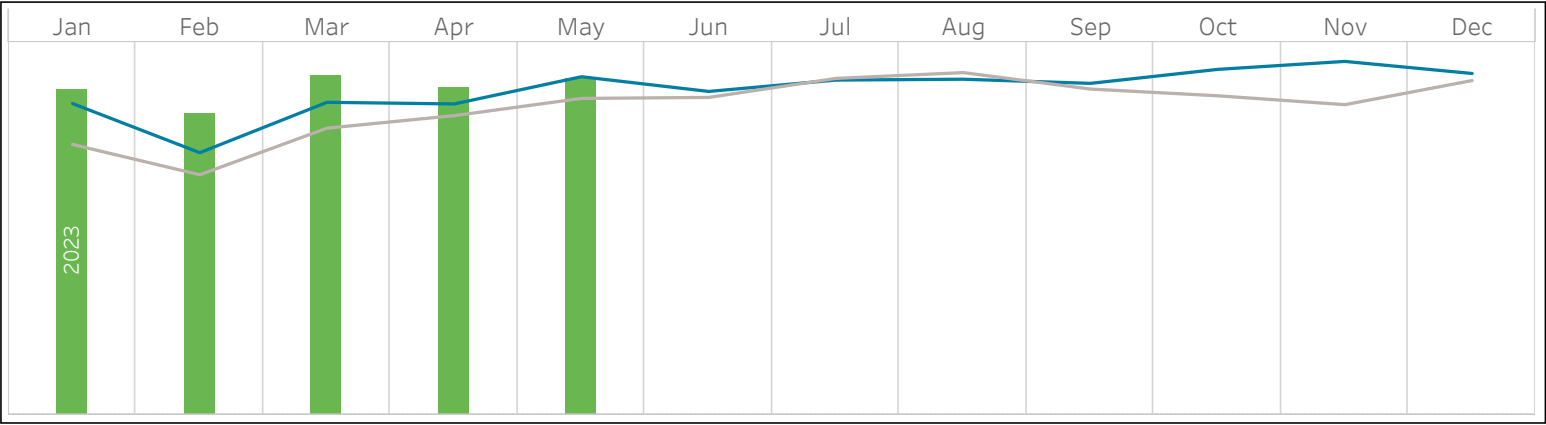
2023
YTD Volumes

▲ **6.0%**
from 2022
(n = 510)

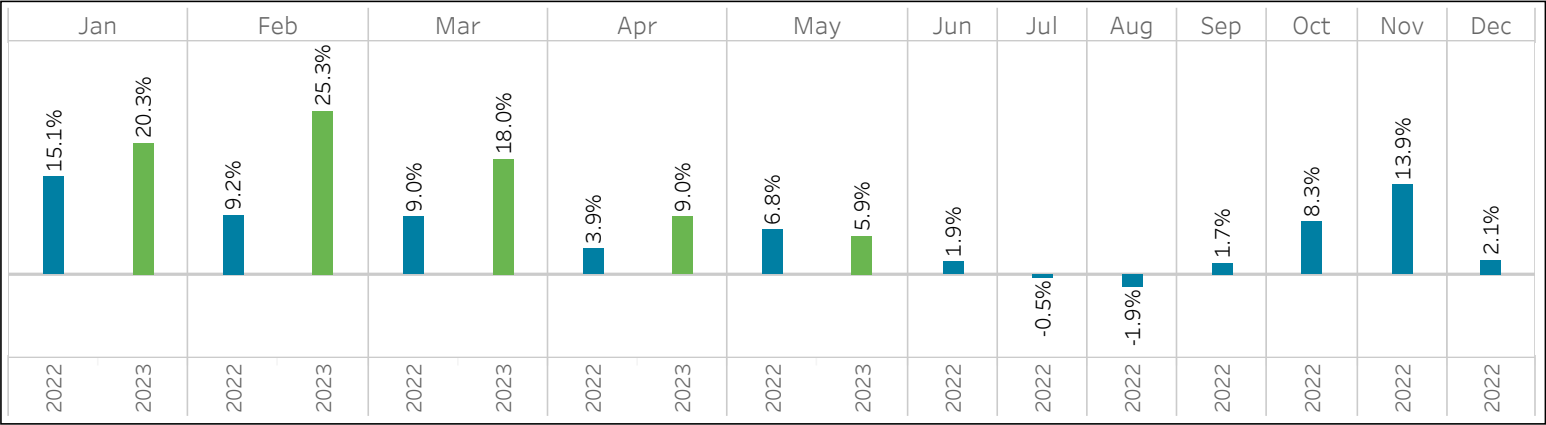
▲ **15.1%**
from 2021
(n = 488)

▼ **-4.5%**
from 2019
(n = 425)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 2.5 **Outpatient Visits** 2021 2022 2023
 Data as of 5/31/2023

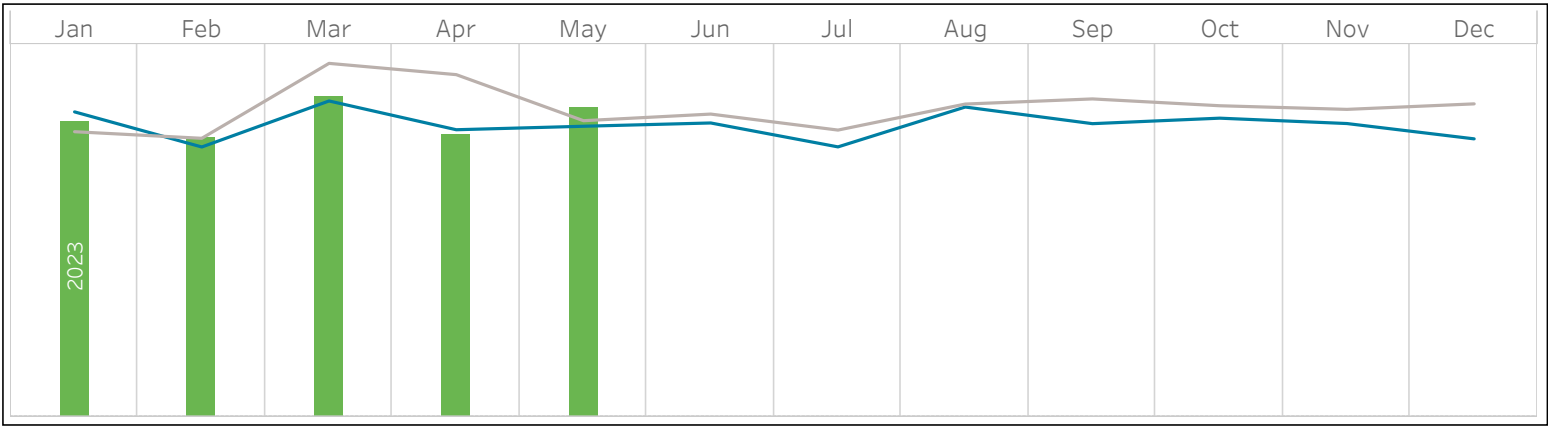
2023
YTD Volumes

▲ **1.1%**
from 2022
(n = 510)

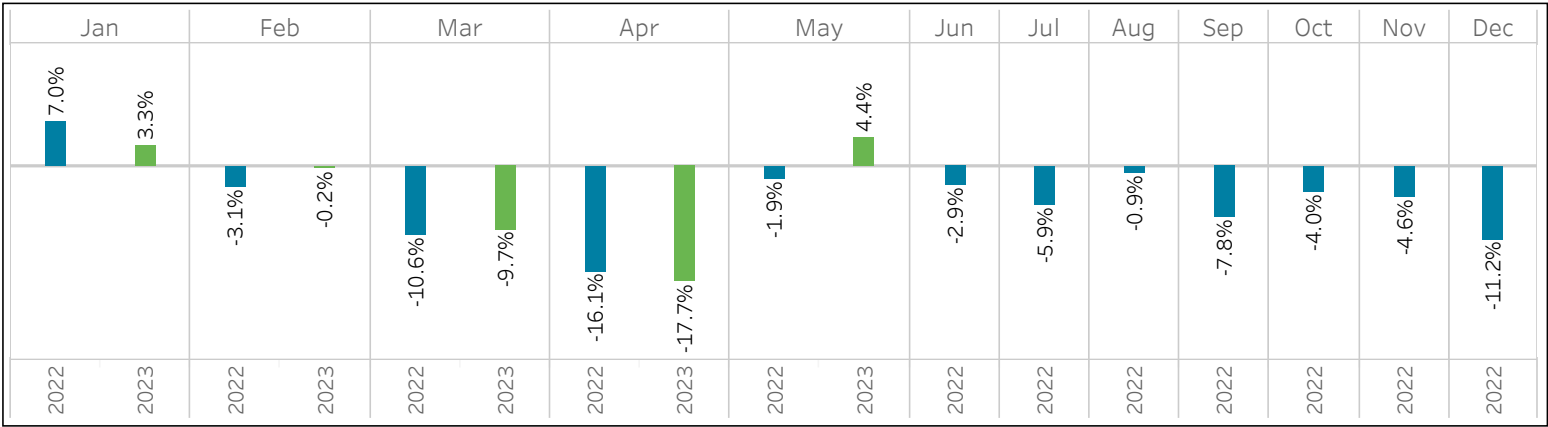
▼ **-4.7%**
from 2021
(n = 488)

▲ **14.6%**
from 2019
(n = 425)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 3.1 National Volume Changes by Service Line (IP & OP) Data as of 4/30/2023

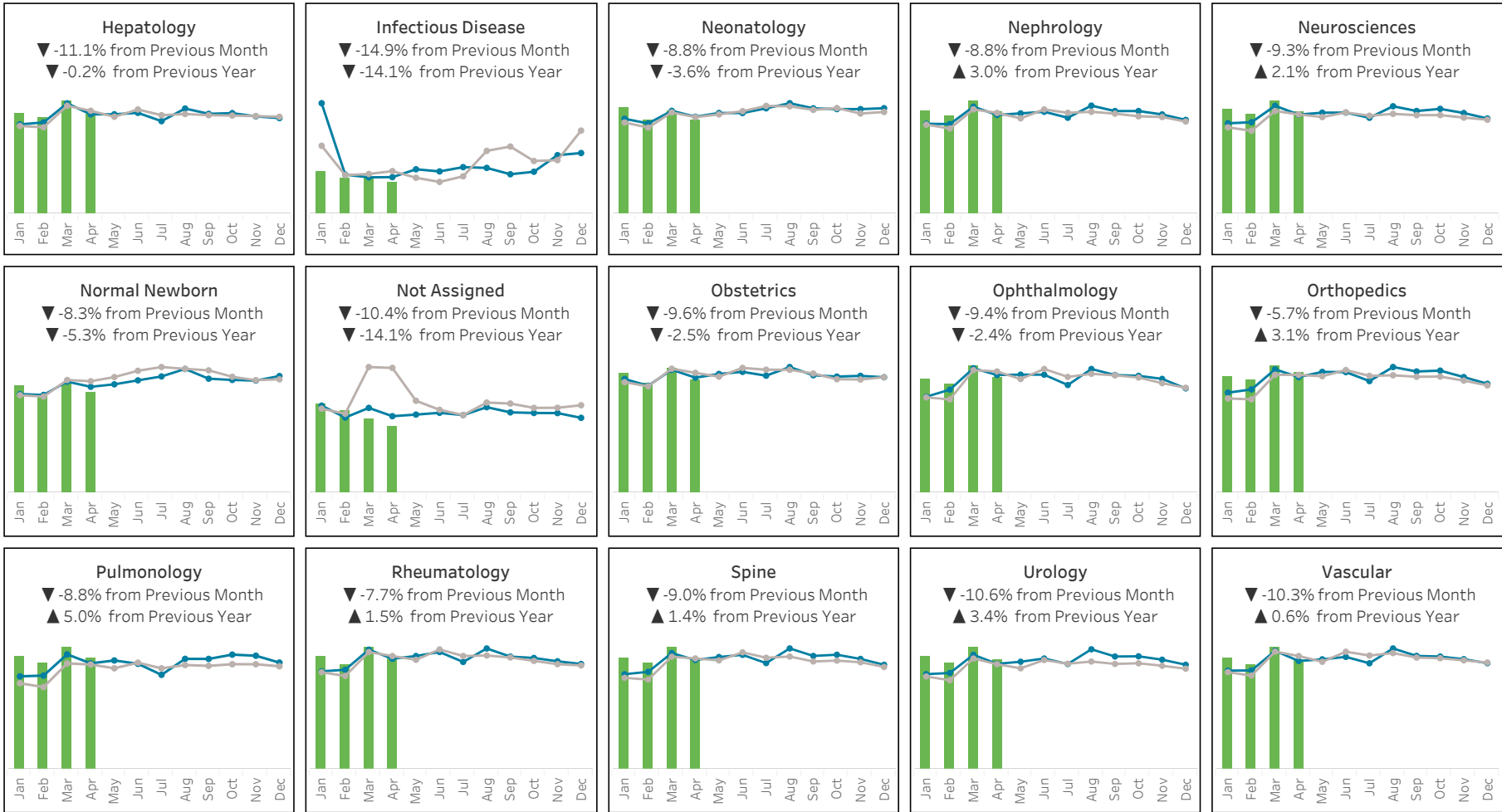
2021 2022 2023



Section 3.2 National Volume Changes by Service Line (IP & OP)

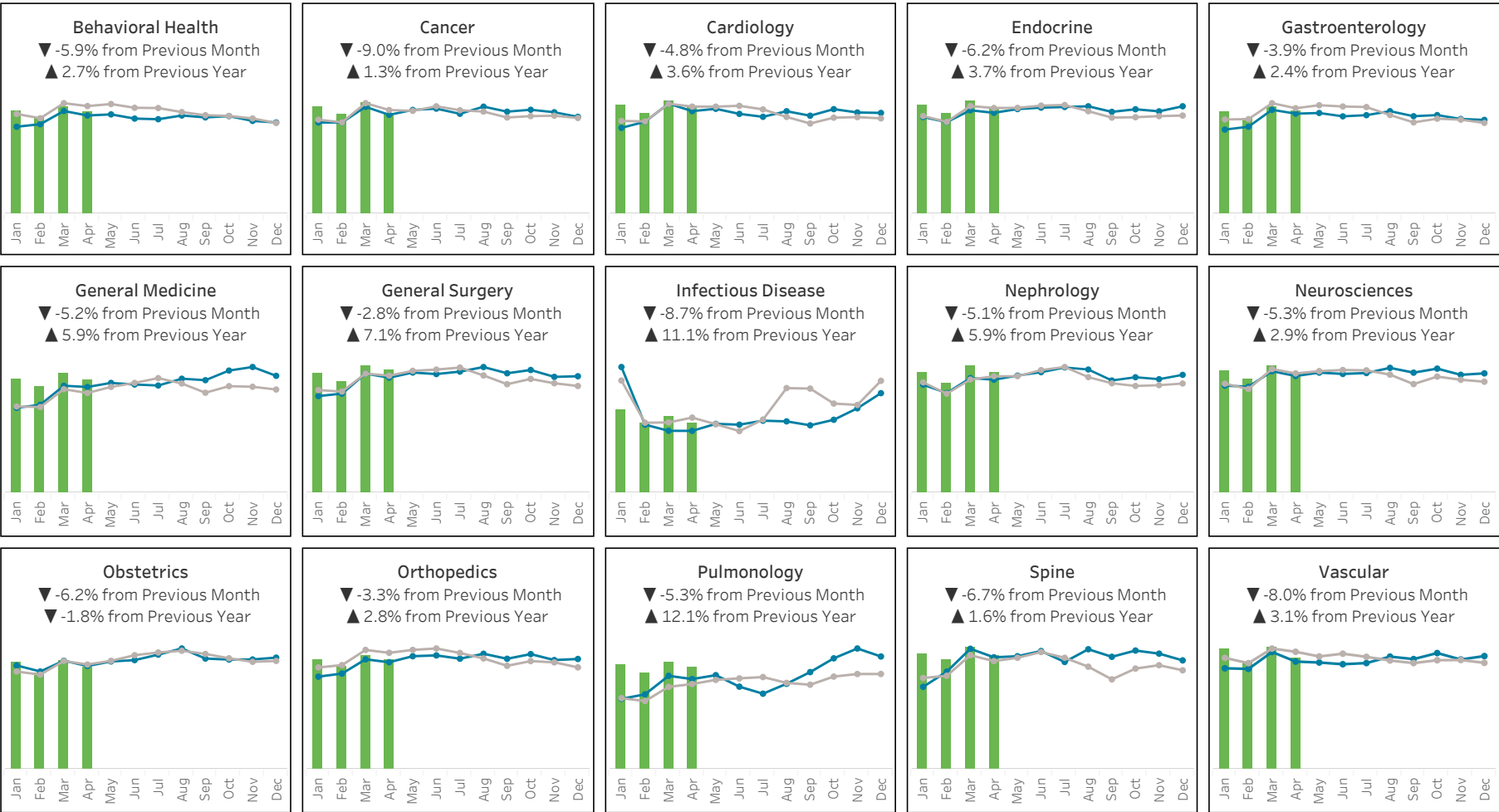
Data as of 4/30/2023

2021 2022 2023



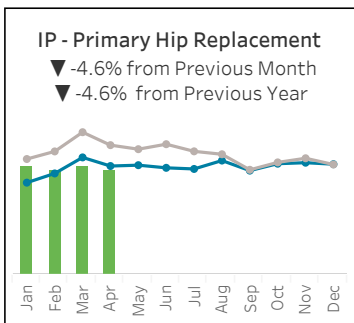
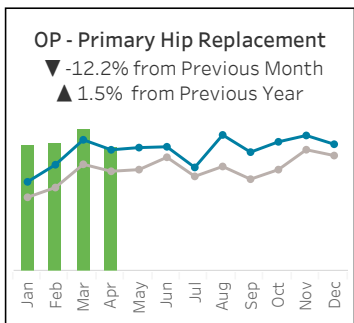
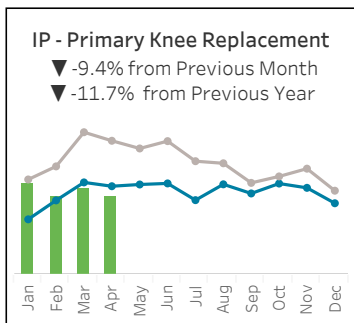
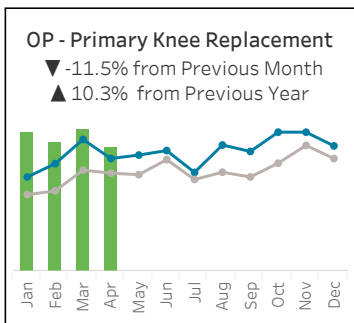
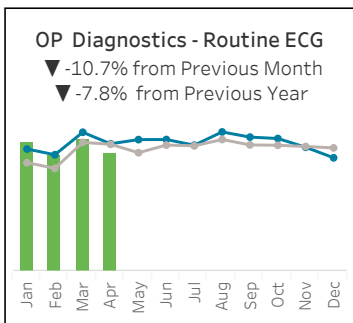
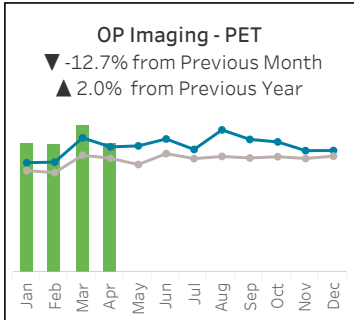
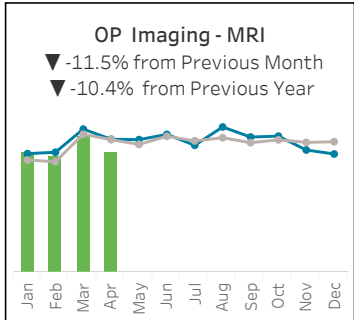
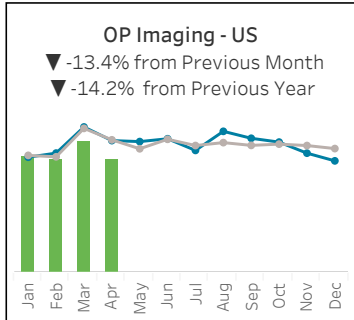
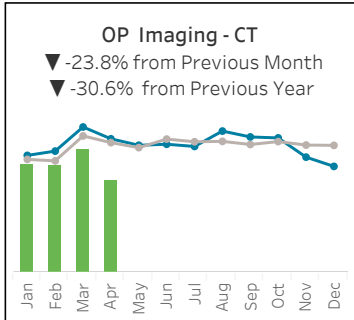
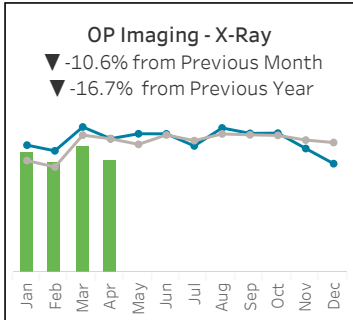
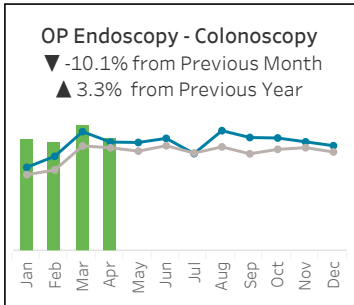
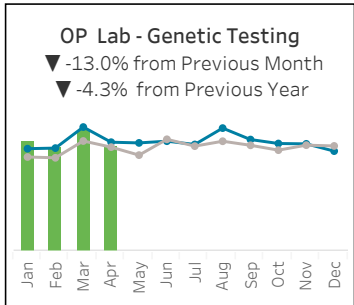
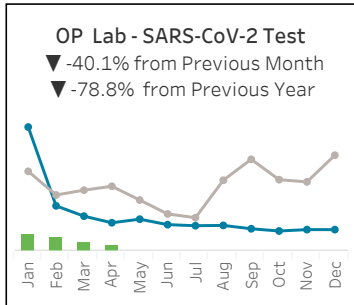
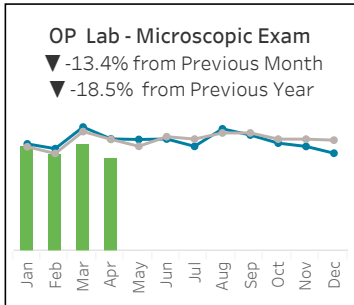
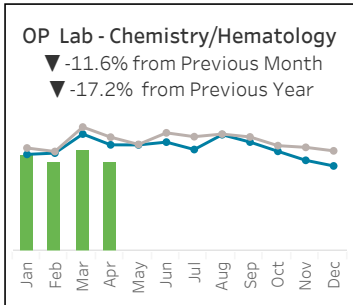
Section 3.3 National Volume Changes by Service Line (IP Only) Data as of 4/30/2023

2021 2022 2023

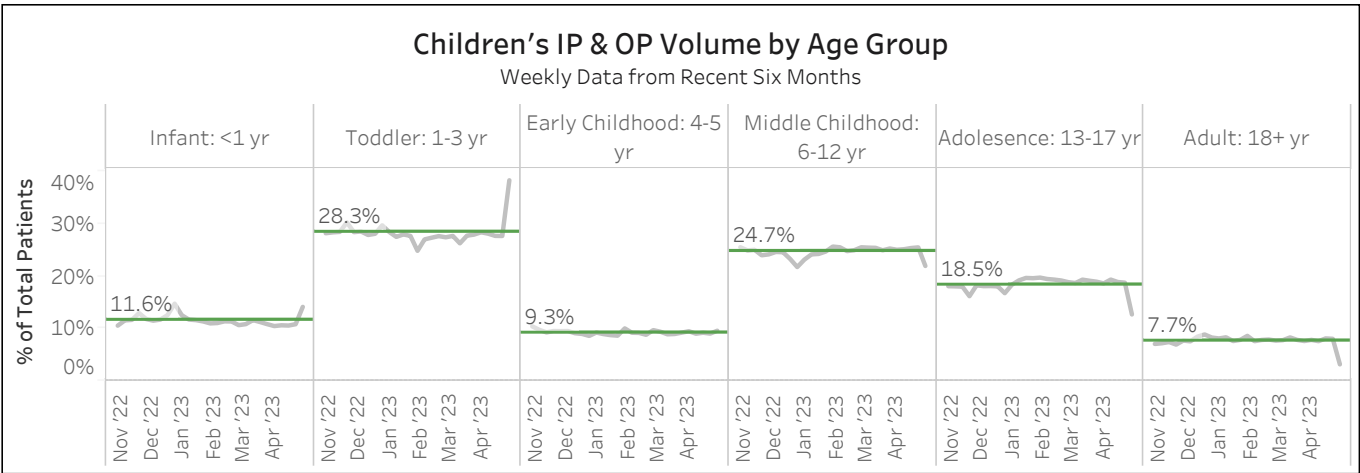
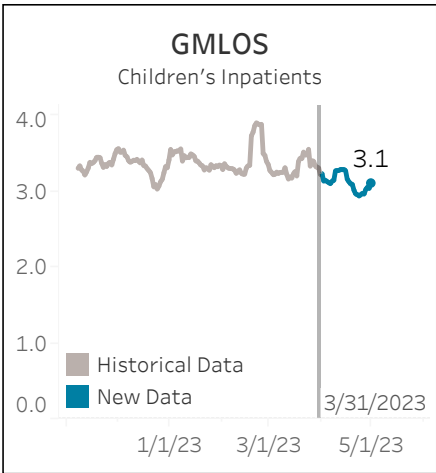
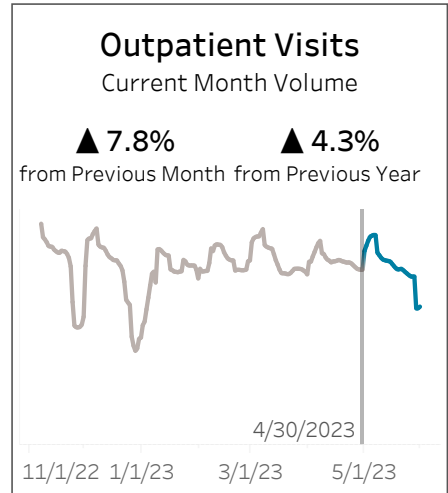
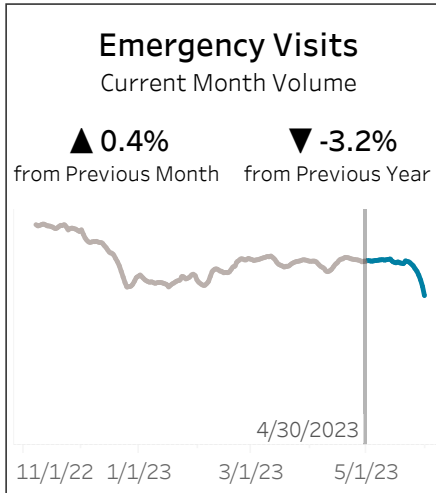
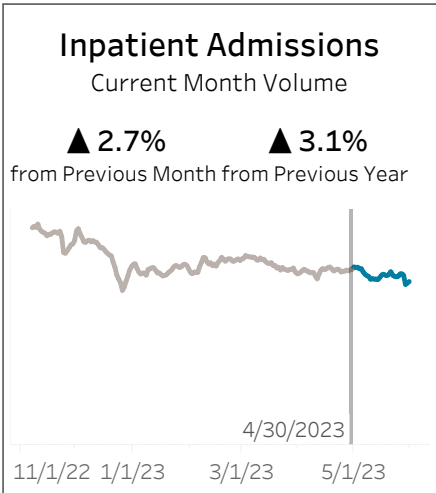


Section 4 **National Volume Changes by Procedure Type**
 Data as of 4/30/2023

2021 2022 2023



Section 5.1 **Children's Hospitals Recent Volume Changes** Childrens Hospital 18
 Data as of 5/31/2023 Historical Data
New Data



Section 5.2 **Children's Hospitals Inpatient Admissions** Childrens Hospital 18
 Data as of 5/31/2023

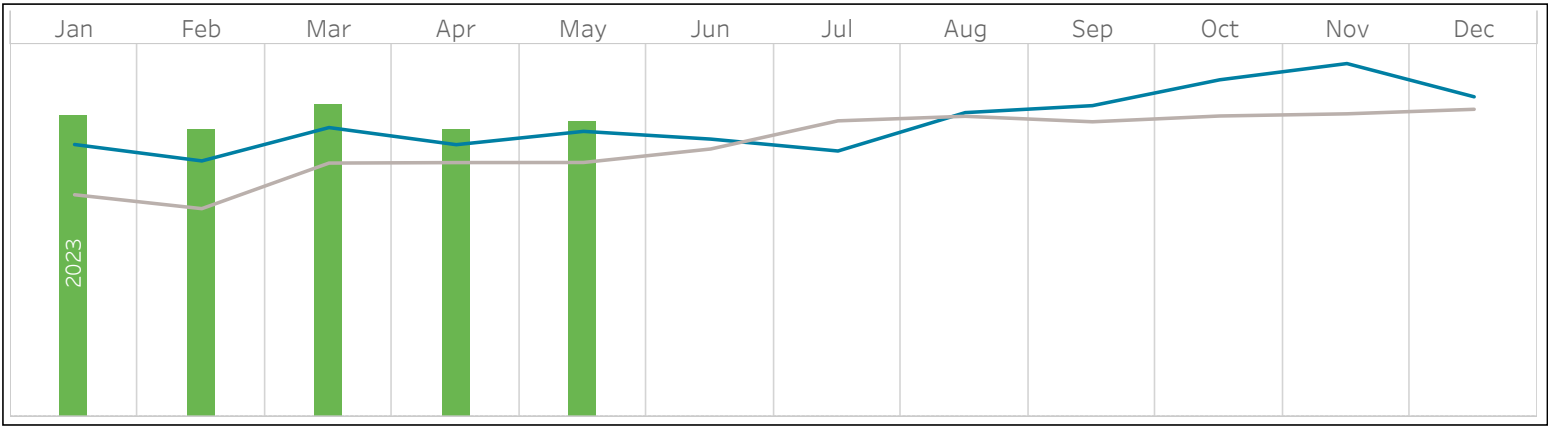
2023
YTD Volumes

▲ **7.6%**
from 2022
(n = 18)

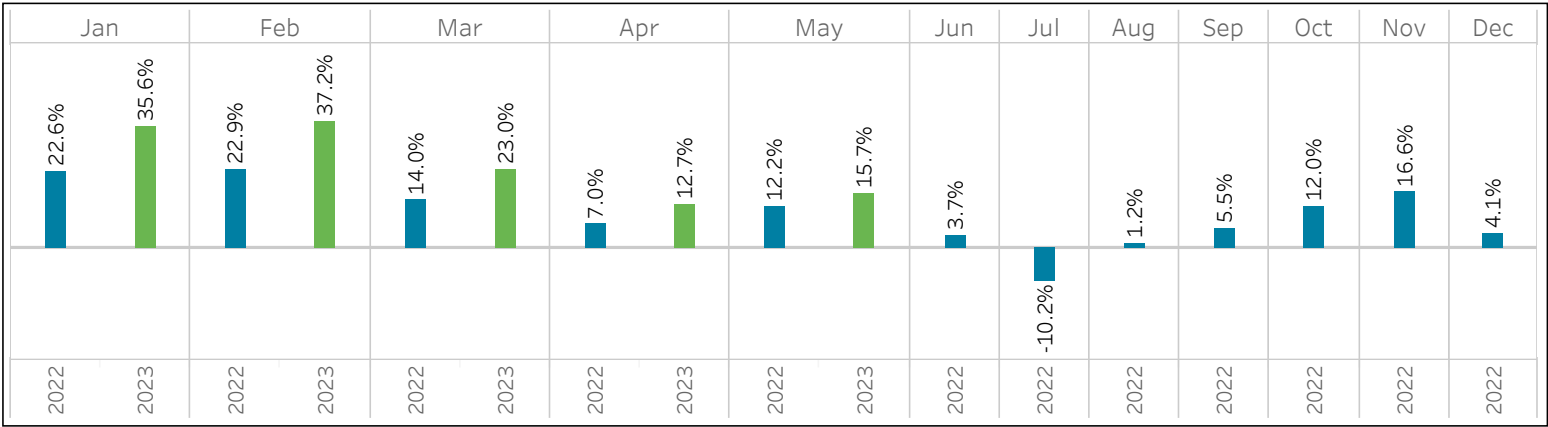
▲ **24.1%**
from 2021
(n = 18)

▼ **-1.3%**
from 2019
(n = 17)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 5.3 Children's Hospitals Observation Visits
 Data as of 5/31/2023
 Childrens Hospital 18
 2021 2022 2023

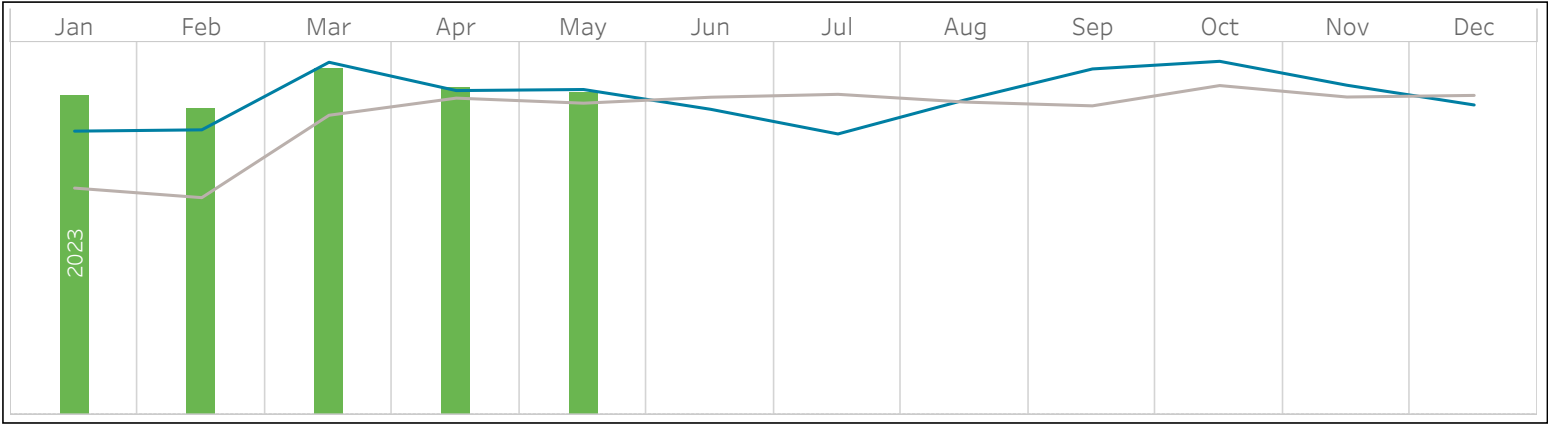
2023
YTD Volumes

▲ 3.0%
from 2022
(n = 18)

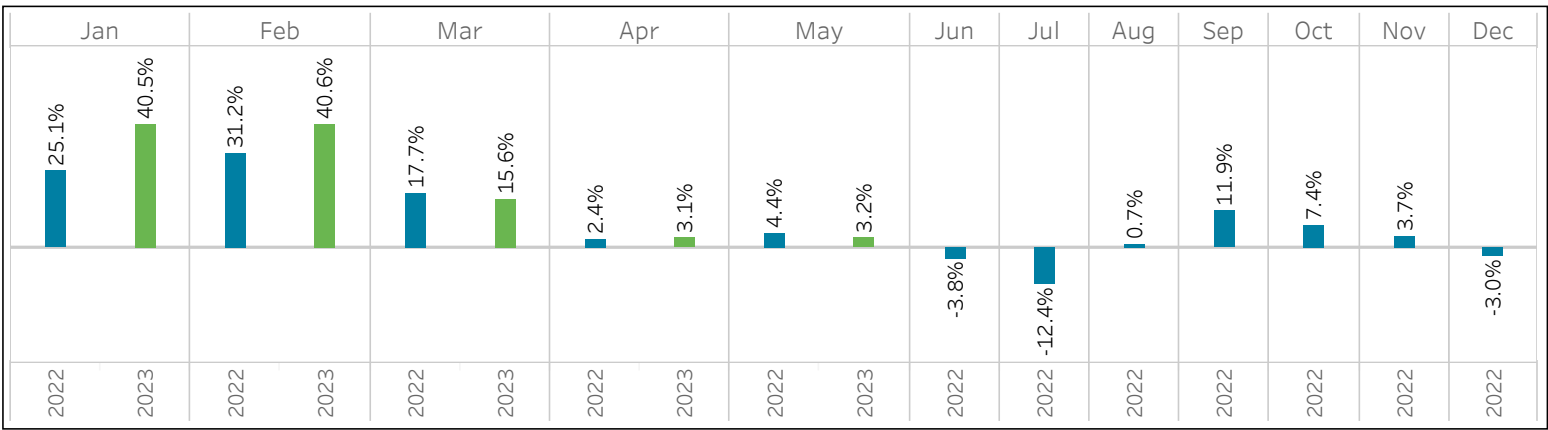
▲ 18.0%
from 2021
(n = 18)

▲ 4.8%
from 2019
(n = 17)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 5.4 **Children's Hospitals Emergency Visits** Childrens Hospital
18

Data as of 5/31/2023

2021 2022 2023

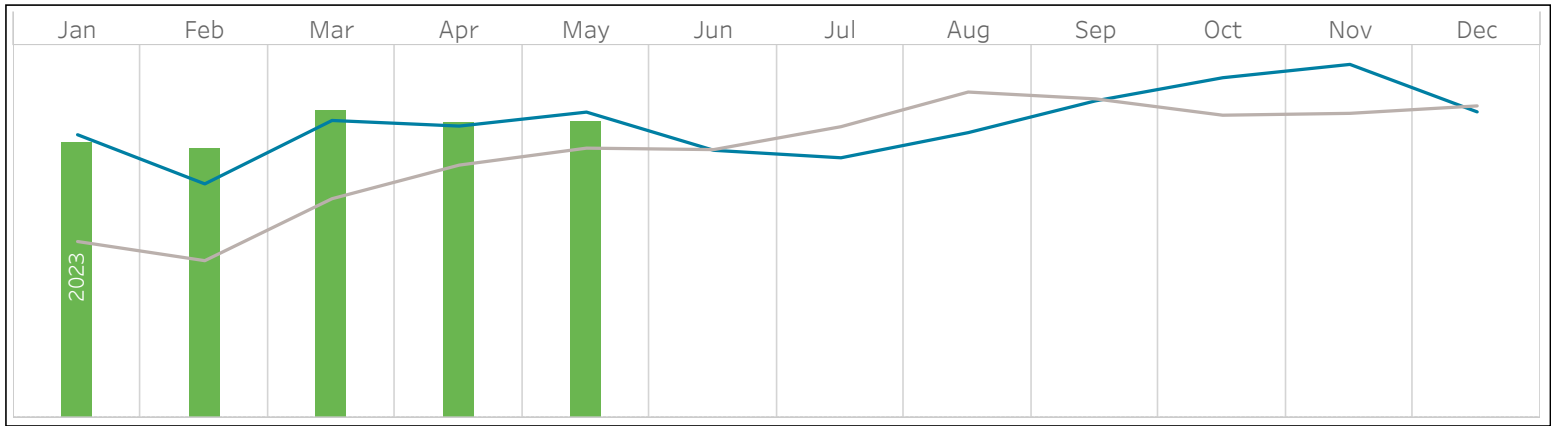
2023 YTD Volumes

▲ **2.1%**
from 2022
(n = 18)

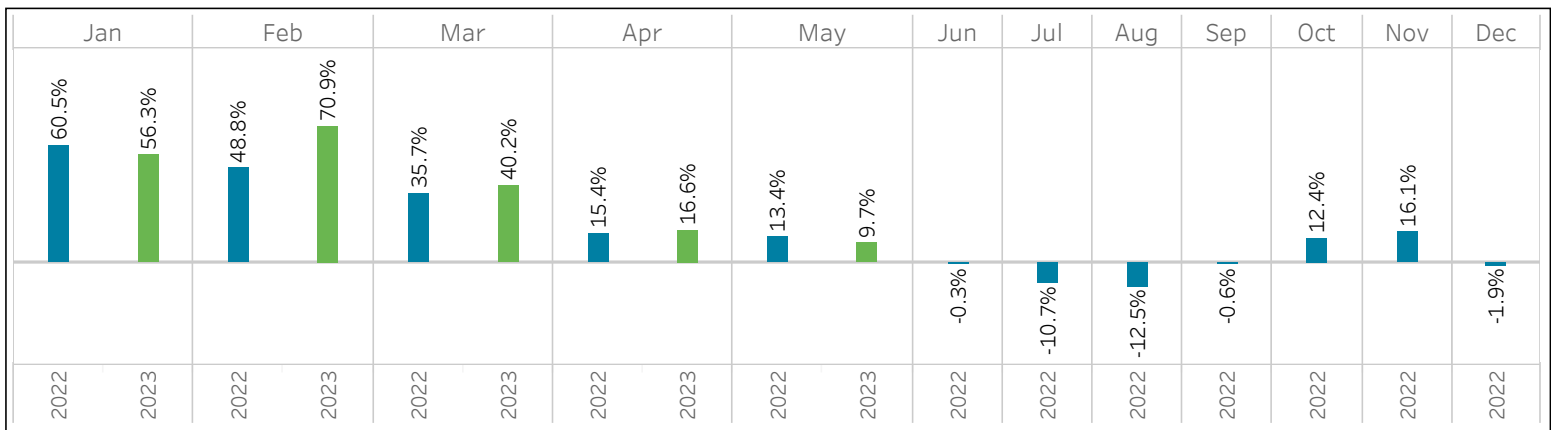
▲ **34.1%**
from 2021
(n = 18)

▼ **-9.6%**
from 2019
(n = 17)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Section 5.5 Children's Hospitals Outpatient Visits
 Data as of 5/31/2023
 Childrens Hospital 18
 2021 2022 2023

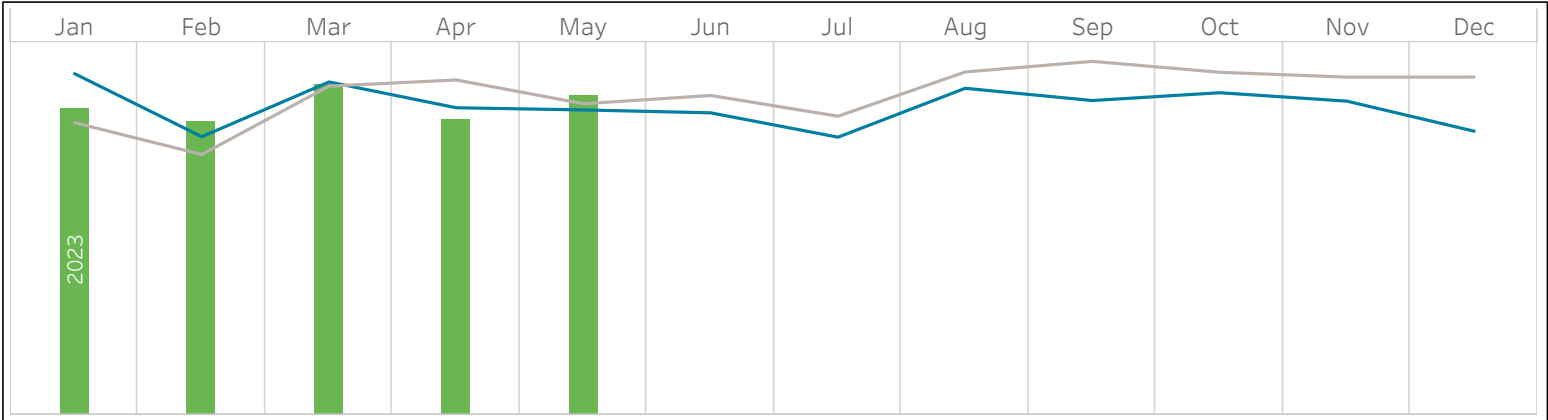
2023
YTD Volumes

▼ -1.4%
from 2022
(n = 18)

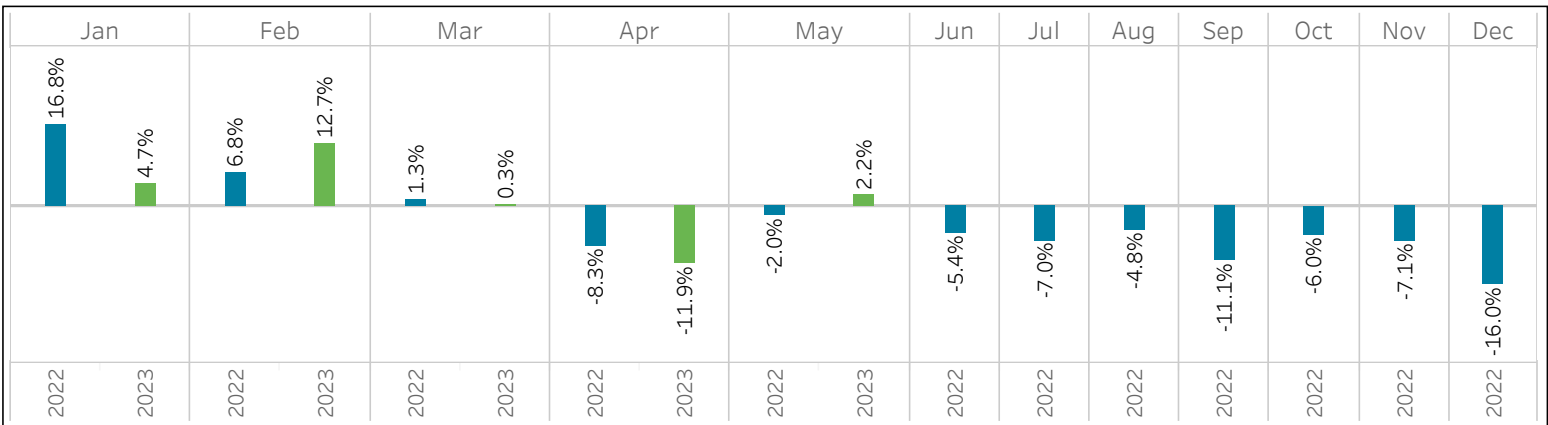
▲ 1.0%
from 2021
(n = 18)

▲ 18.5%
from 2019
(n = 17)

Monthly Volumes



Monthly Volume Changes Compared to 2021



Methodology

Data Source: 109 StrataSphere® health systems with StrataJazz® Decision Support. All hospital billing encounters with nonzero charges were included. Once the encounter has charges greater than zero, it will then be included in the encounter count.

Regional information outlined in this report follows the census region definitions established by the U.S. Census Bureau.

Patient Types include inpatient, observation, emergency, and outpatient, which are determined by the presence of associated UB revenue codes in encounter charges.

Percentage change from previous month refers to the percentage difference between the current month and previous month. Percentage change from previous year refers to the percentage difference between the current month and the same month in the previous year.

CMI (Case Mix Index) is the average diagnosis-related group (DRG) relative weight. This average is calculated by summing the MS-DRG weights for all inpatient admissions and dividing by the distinct count of admissions.

For the proportion of visits resulting in hospital admission graph: Proportions were calculated by aggregating distinct inpatient encounters stratified by visit type (emergency and observation), and dividing by the total inpatient encounters on a daily basis. Each date's 7-day moving average is reflected in the graph.

For the service line and procedure graphs: Service line and procedure groups are provided by the Sg2 CARE Grouper™, based on the ICD-10 diagnosis and procedure codes, DRG codes, and CPT codes of each encounter. Service line inpatient detail displays the 15 service lines with the highest inpatient volume.

GMLOS (Geometric mean length of stay) represents the nth root of the product of the LOS values for every inpatient admitted per day, where n is the number of patients per admit date. We chose this metric over average length of stay as it is less influenced by very high outliers.

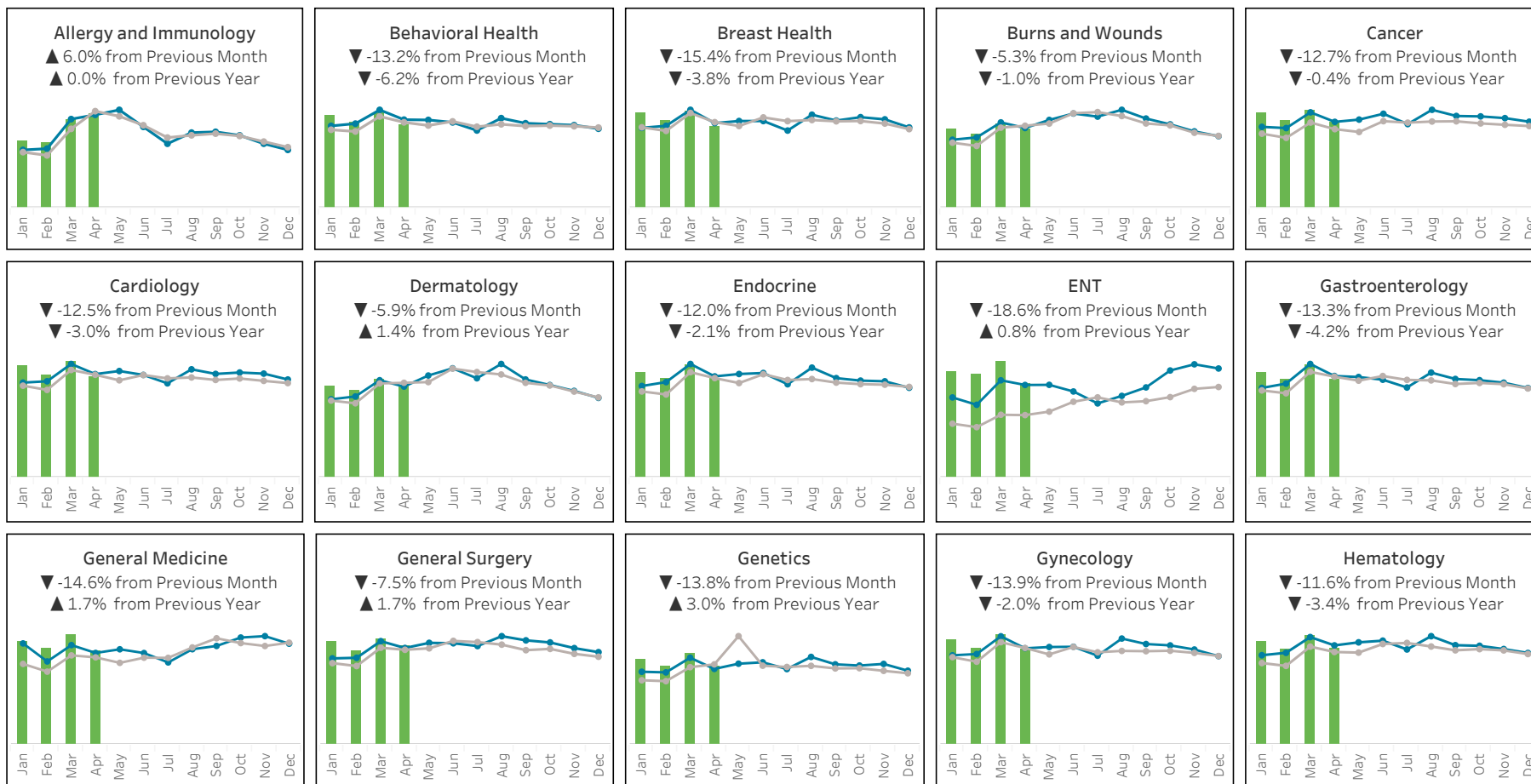
For the professional billing graphs: Volumes represent total unique professional billing encounters for a basket of CPT codes in the range 99201 to 99255 related to evaluation & management (E&M) care. This includes codes related to patient office and outpatient visits, inpatient and observation care E&M visits (initial, subsequent, and discharge), and consultations. Not all StrataSphere clients provide professional billing data, these graphs represent 94 health system's professional billing data.

Appendix 1.1

Professional Evaluation and Management Visits by Service Line

Data as of 4/30/2023

2021 2022 2023



Appendix 1.2

Professional Evaluation and Management Visits by Service Line

Data as of 4/30/2023

2021 2023
2022

