National Patient and Procedure Volume Tracker™

Monthly Update 1/31/2022

With this month's data, we begin to see the impact of the Omicron variant on hospital patient demand. Even at "peak Omicron," Inpatient (IP) volumes are down 1.4% compared to January 2021 and 13.6% compared to January 2019. Emergency (ED) visits are up 12.8% compared to January 2021, indicating a lower conversion from ED to IP and perhaps that Omicron is less severe than previous strains. (Sections 1.1 & 1.2)

The impact of Omicron on children was profound. At Children's Hospitals, IP visits are up 24.8% compared to January 2021 and ED visits are up 61.5% compared to January 2021, and yet these volumes are still down compared to pre-COVID-19 levels. (Sections 2.1, 2.2 & 2.3)

We are now showing year over year Service Line volumes for 2019, 2020 and 2021. (Sections 4.1, 4.2 & 4.3) There was a massive 47% rise for ENT (ear, nose and throat) volumes in December 2021 compared to December 2020 that may contribute to Children's Hospital volumes. There was also a strong rise in a number of service lines compared to December 2020, but those volumes are down from November 2021 likely due to the holidays. The new charts reveal the seasonality in Service Lines – for example Burns and Wounds clearly peaked in July.

There was a massive transition from IP to Outpatient (OP) knee and hip procedures in 2021. The combination of the end of the CMS "Inpatient only list" and the need to adapt to COVID-19 has had a huge impact on the transition to OP. (Section 5)

Not surprisingly, there was a 113% increase in COVID-19 cases from November to December 2021 and a 39.1% increase compared to December 2020. (Section 6.1)

Introducing our new template for 2022! In most charts, we compare to 2019 volumes because it is the last year of pre-COVID-19 levels and, to date, we have not achieved pre-COVID-19 volumes. We have also added "% Change from the Previous Year" in key sections. For example, in Section 1.1 the % change from Previous Year compares January 2022 volumes to January 2021.

We have eliminated some charts, such as payor mix, as the trends are not moving enough to warrant reporting. Please contact us if there is information your organization requires. We have more detail on all service lines, procedures, and financial performance.

In this report we have added 2 health systems with 27 hospitals. We have also removed 2 hospitals representing one health system due to incomplete data. The breakdown by US Census Region is below.

Midwest	Northeast	South	West	Grand Total
157	75	188	68	488

Section 1.1 National Level Recent Volume Changes

Data as of 1/31/2022

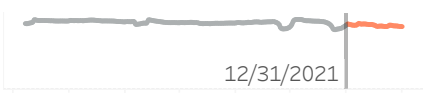
Historical Data
New Data

Inpatient Admissions

Current Month Volume

▼ -4.1% from Previous Month

▼ -1.4% from Previous Year



Observation Visits

Current Month Volume

▼ -13.2% from Previous Month

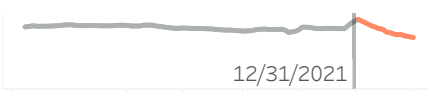
▲ 0.0% from Previous Year

Emergency Visits

Current Month Volume

▼ -8.1% from Previous Month

▲ 12.8% from Previous Year



Outpatient Visits

Current Month Volume

▼ -2.9% from Previous Month

▲ 5.0% from Previous Year

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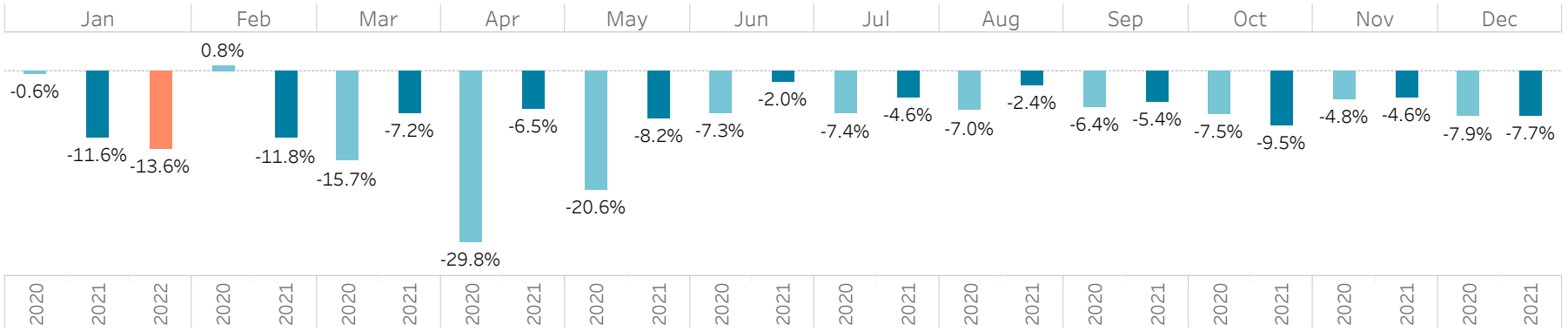
Section 1.2

Monthly Volume Changes Compared to 2019

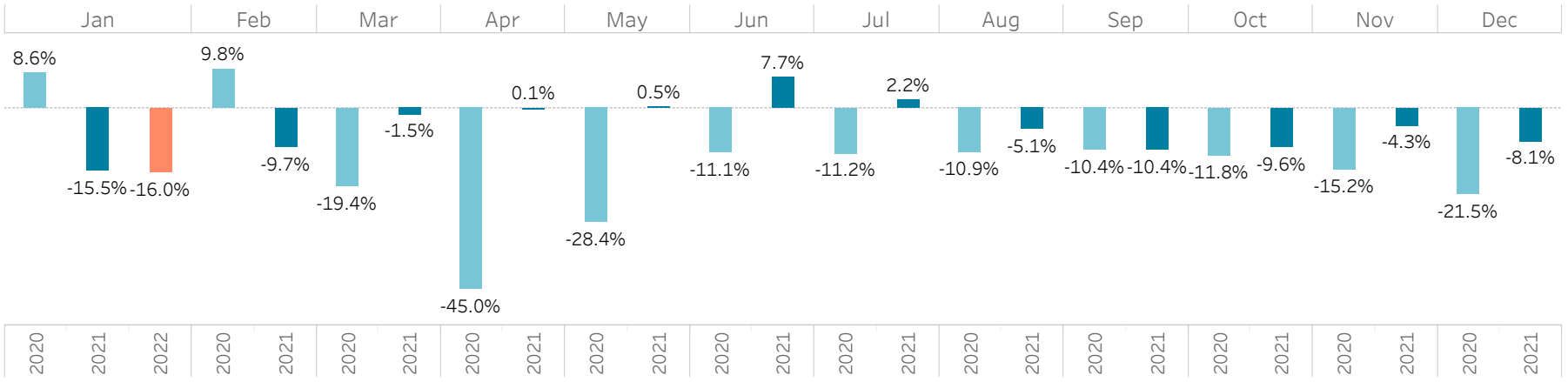
Data as of 1/31/2022

2020 2022
2021

Inpatient Admissions



Observation Visits



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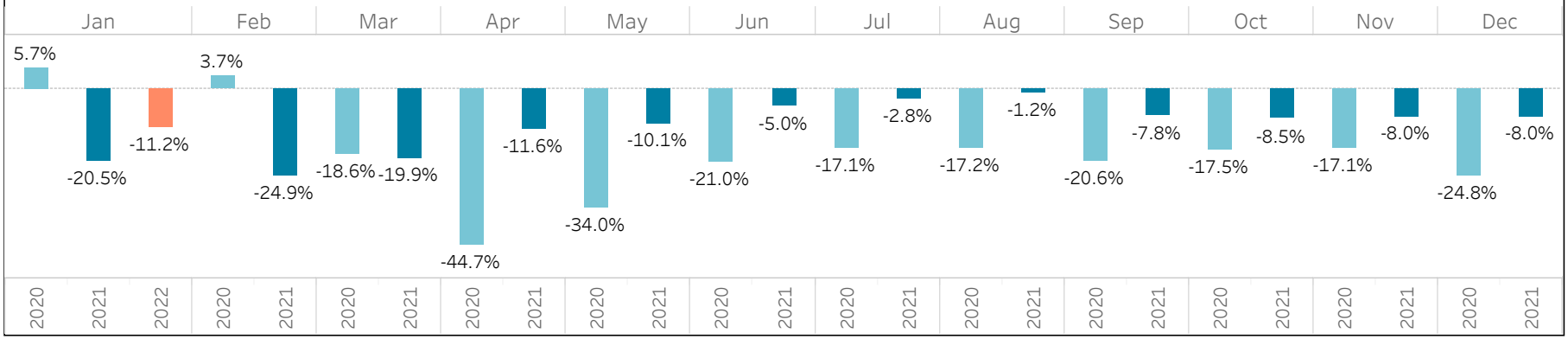
Section 1.3

Monthly Volume Changes Compared to 2019

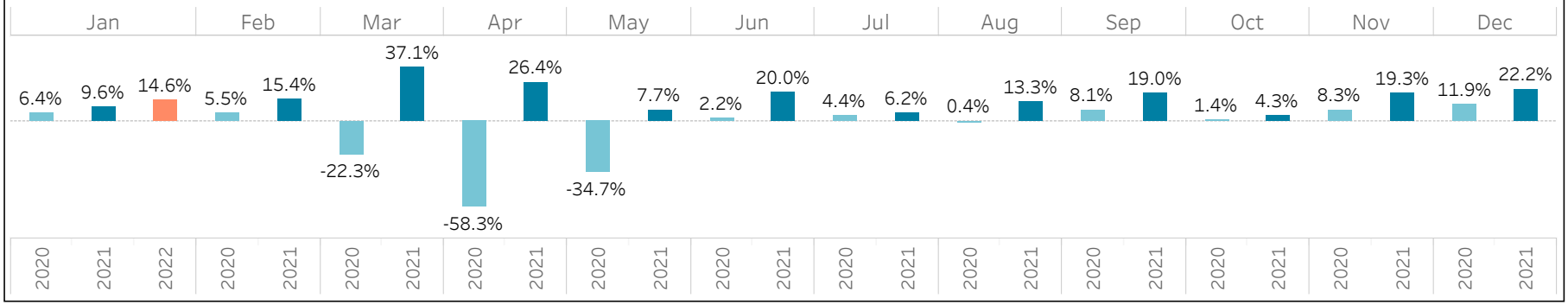
Data as of 1/31/2022

2020 2022
2021

Emergency Visits



Outpatient Visits



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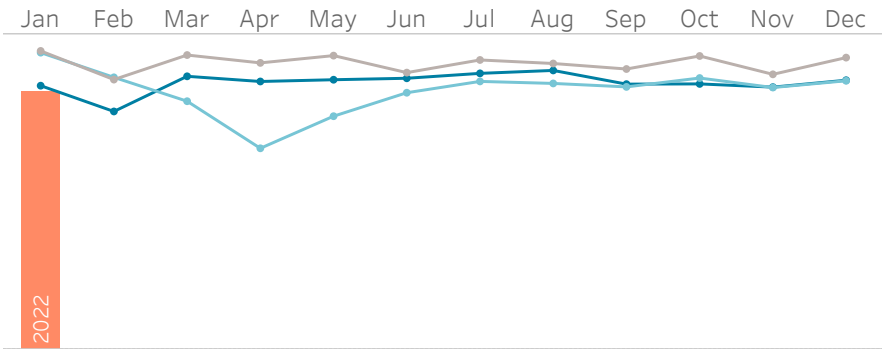
Section 1.4

National Level Month over Month Volume 2019-2022

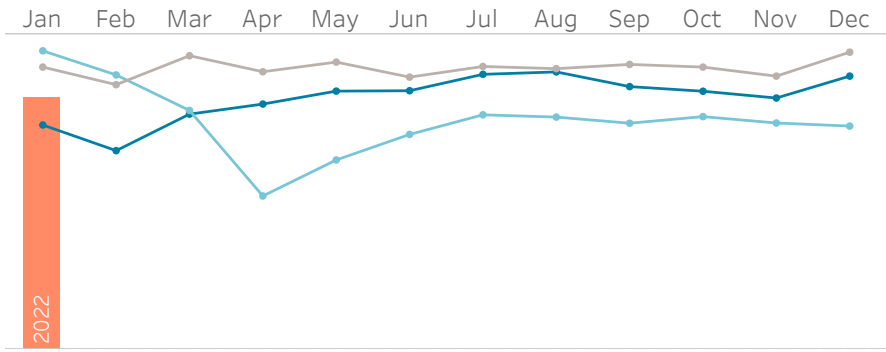
Data as of 1/31/2022

2019 2021
2020 2022

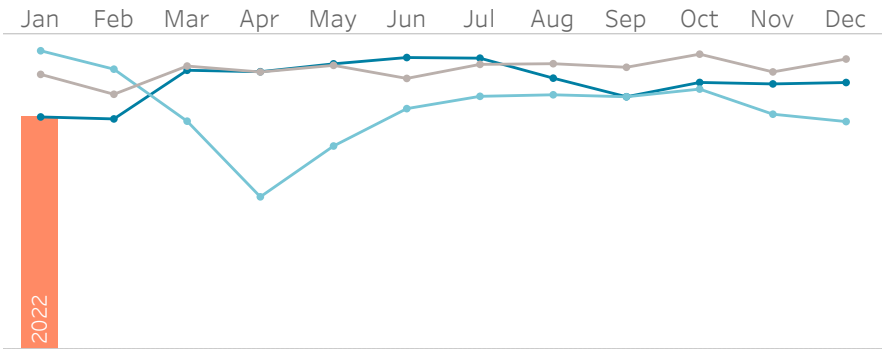
Inpatient Admissions



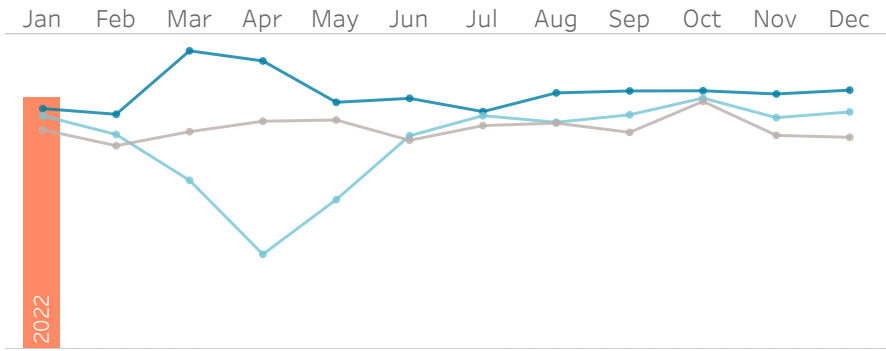
Emergency Visits



Observation Visits



Outpatient Visits



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Section 2.1

Children's Hospitals Recent Volume Changes

Data as of 1/31/2022

Childrens Hospital
17

Historical Data
New Data

Inpatient Admissions

Current Month Volume

▼ -11.3% from Previous Month

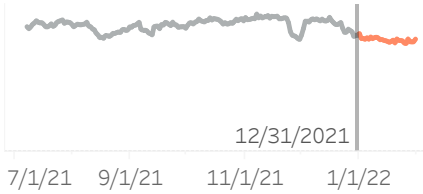
▲ 24.8% from Previous Year

Observation Visits

Current Month Volume

▼ -11.9% from Previous Month

▲ 28.1% from Previous Year

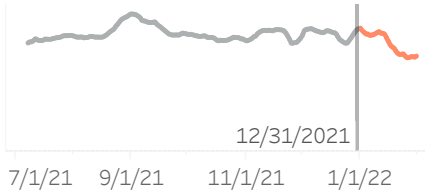


Emergency Visits

Current Month Volume

▼ -10.6% from Previous Month

▲ 61.5% from Previous Year



Outpatient Visits

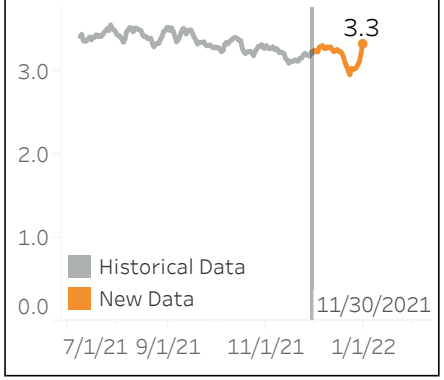
Current Month Volume

▲ 1.9% from Previous Month

▲ 17.9% from Previous Year

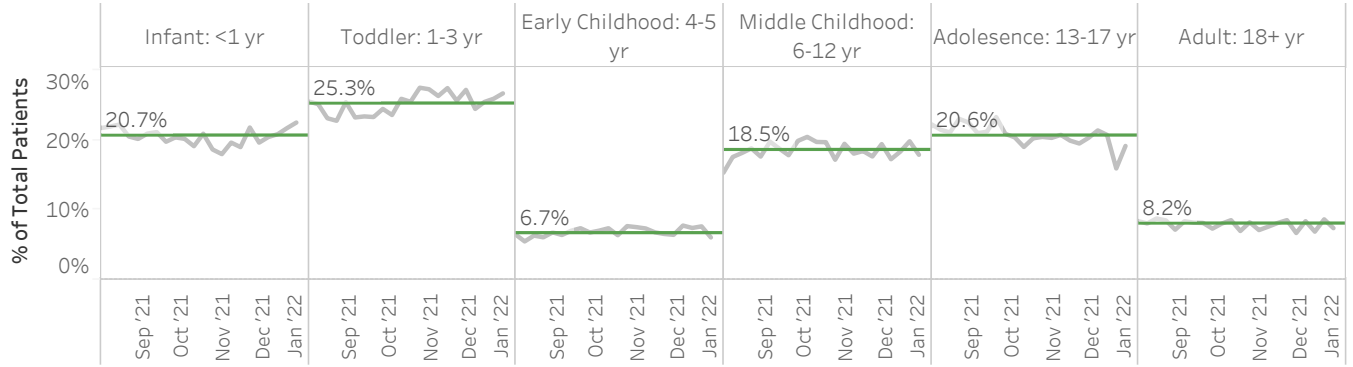
GMLOS

Children's Inpatients



Children's IP & OP Volume by Age Group

Weekly Data from Recent Six Months



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Section 2.2

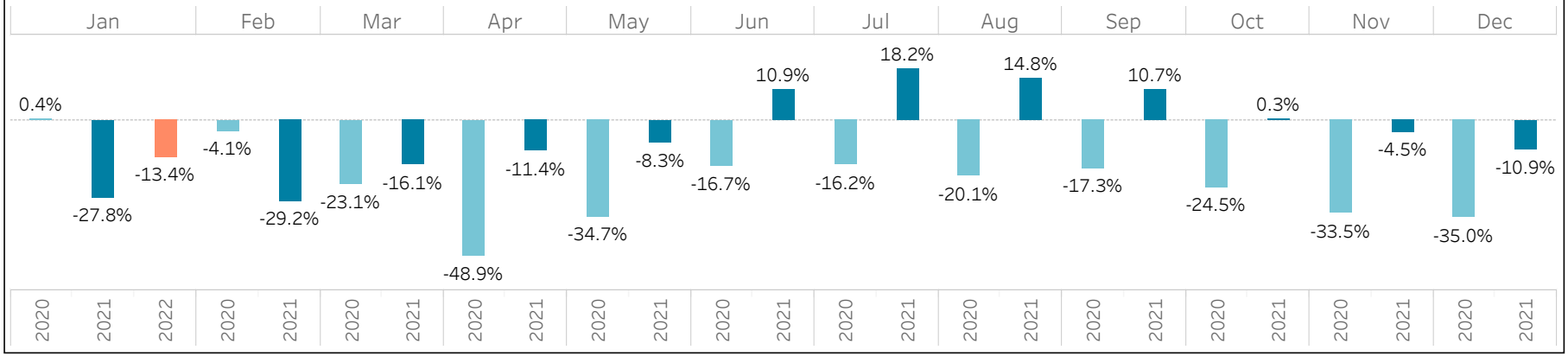
Children's Hospitals Monthly Volume Changes Compared to 2019

Data as of 1/31/2022

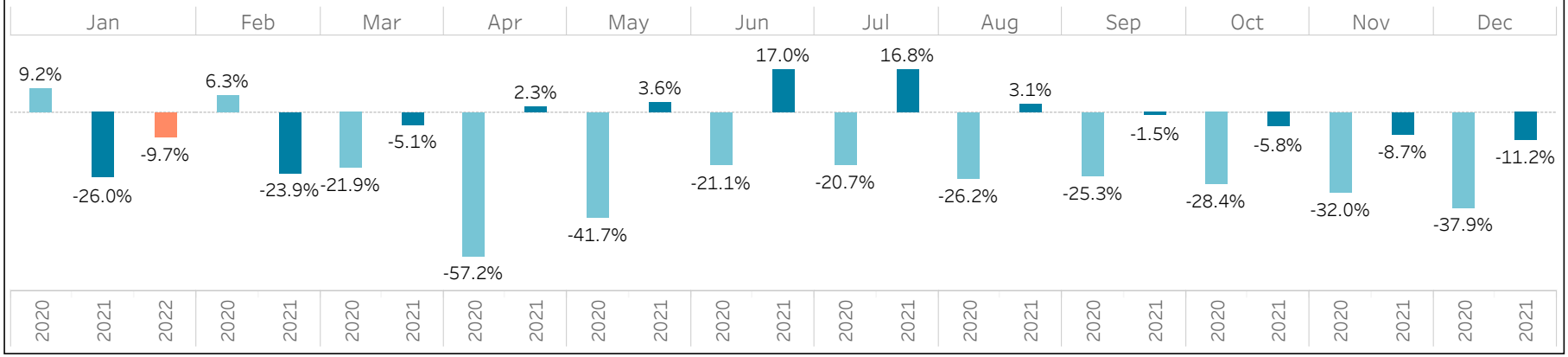
Childrens Hospital
17

2020 2022
2021

Inpatient Admissions



Observation Visits



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Section 2.3

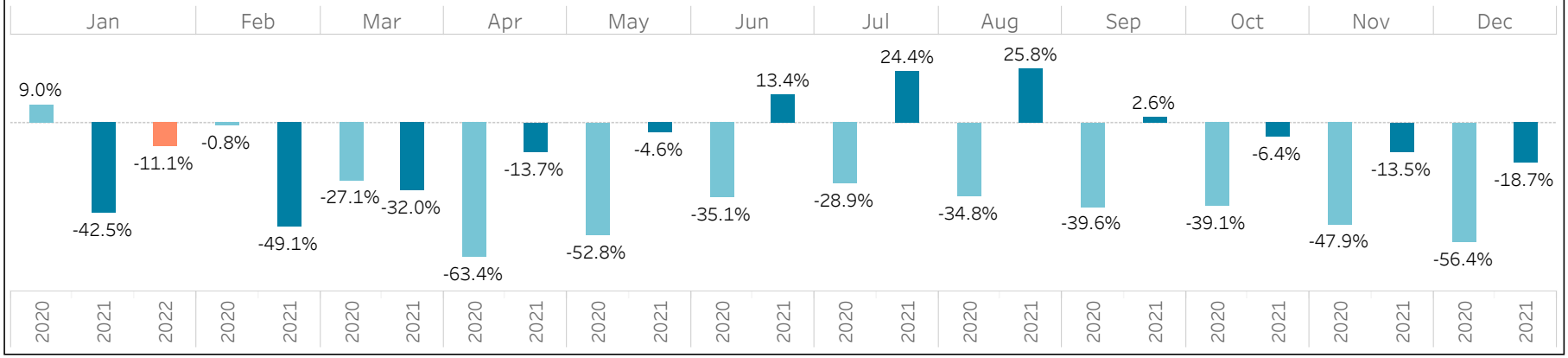
Children's Hospitals Monthly Volume Changes Compared to 2019

Data as of 1/31/2022

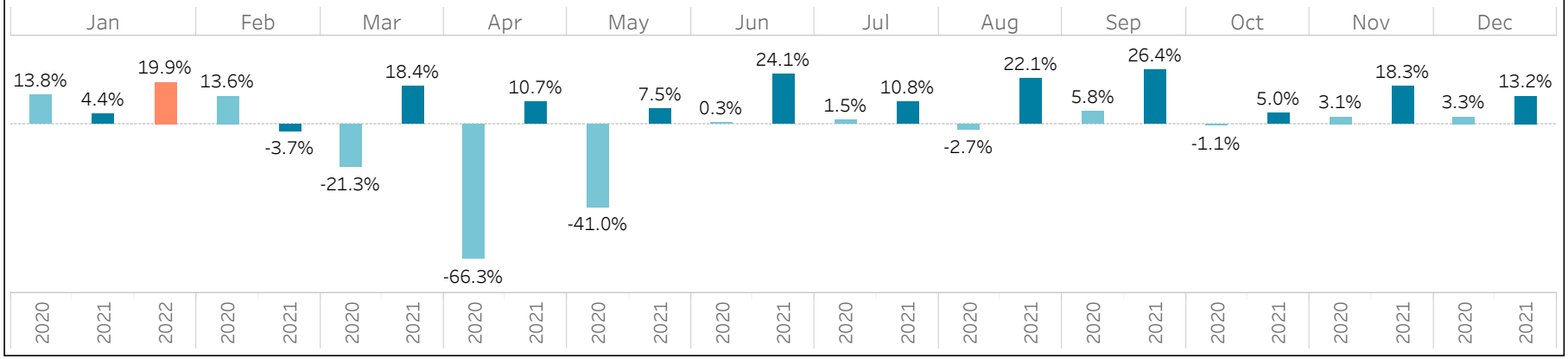
Childrens Hospital
17

2020 2022
2021

Emergency Visits



Outpatient Visits



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Section 2.4

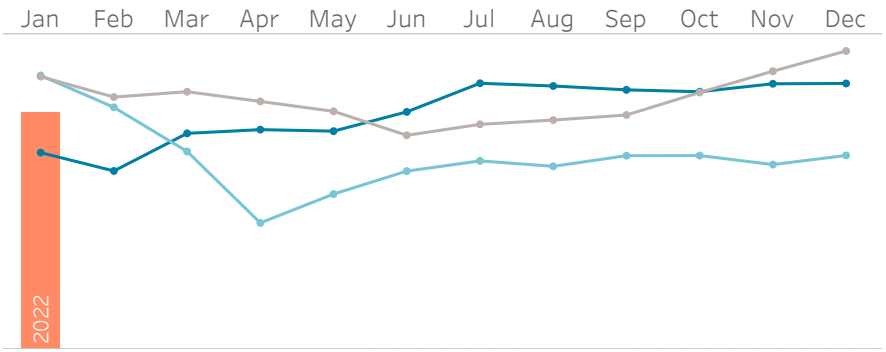
Children's Hospitals Month over Month Volume 2019-2022

Data as of 1/31/2022

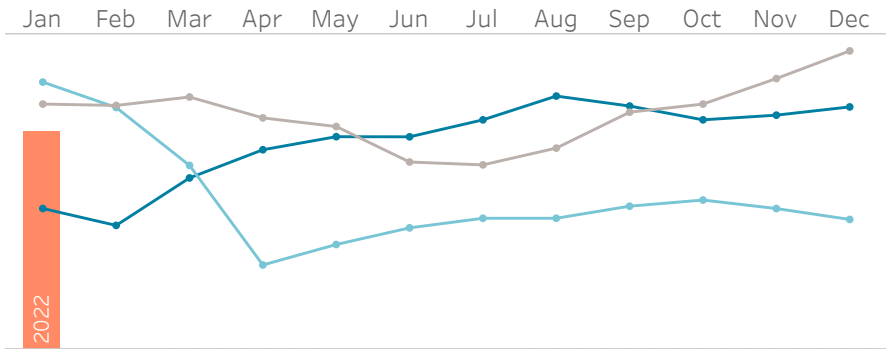
Childrens Hospital
17

2019 2021
2020 2022

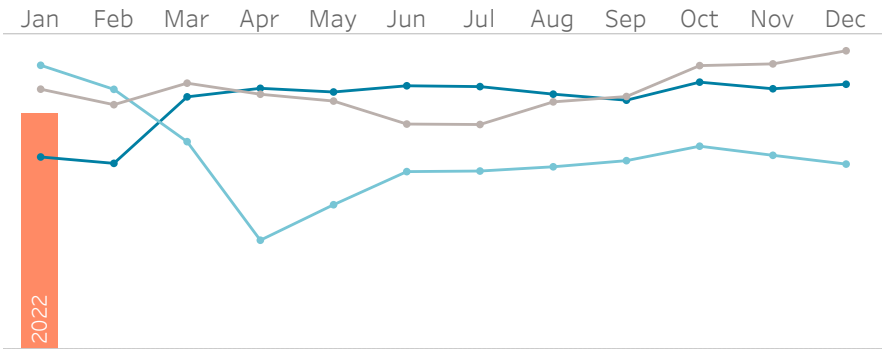
Inpatient Admissions



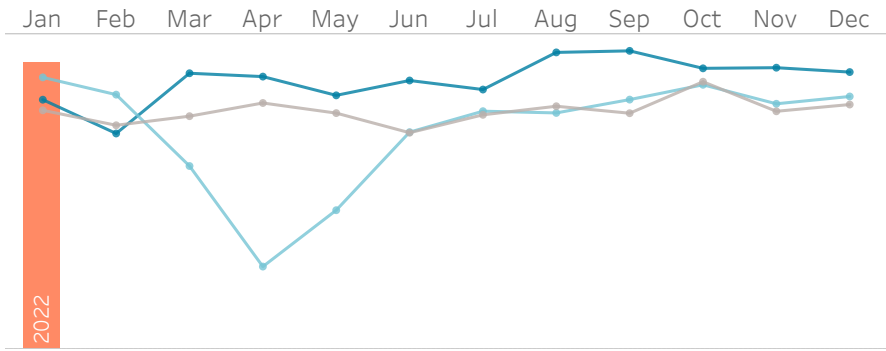
Emergency Visits



Observation Visits



Outpatient Visits



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Section 3.1

Census Region-South Recent Volume Changes

Data as of 1/31/2022

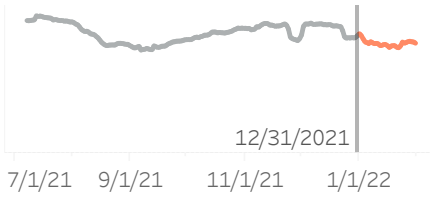
Historical Data
New Data

Inpatient Admissions
Current Month Volume

▼ -2.1% from Previous Month
▼ -2.5% from Previous Year

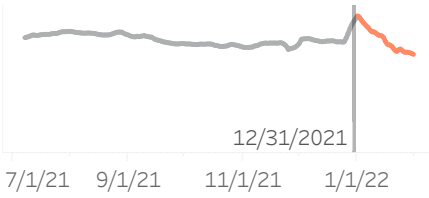
Observation Visits
Current Month Volume

▼ -12.8% from Previous Month
▲ 4.3% from Previous Year



Emergency Visits
Current Month Volume

▼ -6.0% from Previous Month
▲ 11.6% from Previous Year



Outpatient Visits
Current Month Volume

▲ 1.3% from Previous Month
▲ 1.3% from Previous Year

Census Region-West Recent Volume Changes

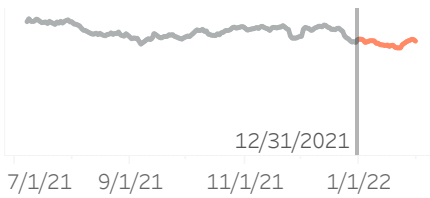
Data as of 1/31/2022

Inpatient Admissions
Current Month Volume

▼ -2.0% from Previous Month
▲ 4.0% from Previous Year

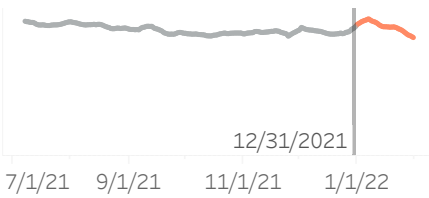
Observation Visits
Current Month Volume

▼ -10.0% from Previous Month
▲ 3.5% from Previous Year



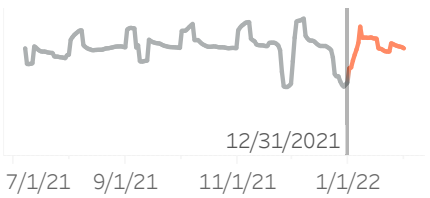
Emergency Visits
Current Month Volume

▲ 2.6% from Previous Month
▲ 21.4% from Previous Year



Outpatient Visits
Current Month Volume

▲ 4.5% from Previous Month
▲ 9.1% from Previous Year



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Section 3.2

Census Region-Midwest Volume Changes

Data as of 1/31/2022

Historical Data
New Data

Inpatient Admissions
Current Month Volume

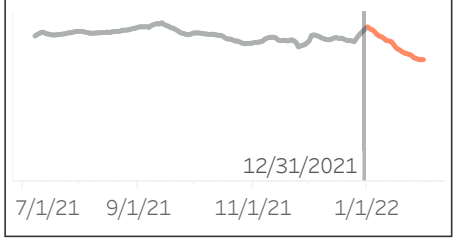
▼ -6.2% from Previous Month
▼ -1.8% from Previous Year

Observation Visits
Current Month Volume

▼ -9.5% from Previous Month
▼ -5.1% from Previous Year

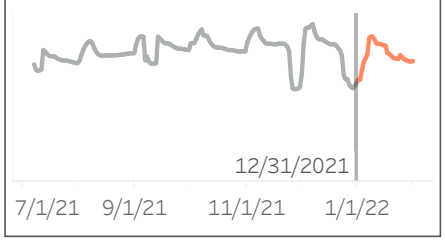
Emergency Visits
Current Month Volume

▼ -8.4% from Previous Month
▲ 15.0% from Previous Year



Outpatient Visits
Current Month Volume

▼ -3.7% from Previous Month
▲ 5.3% from Previous Year

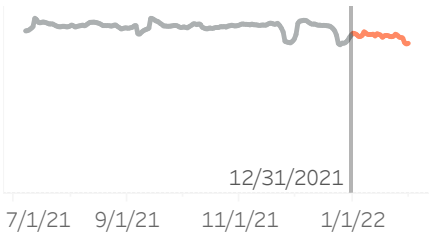


Census Region-Northeast Volume Changes

Data as of 1/31/2022

Inpatient Admissions
Current Month Volume

▼ -5.3% from Previous Month
▼ -2.1% from Previous Year

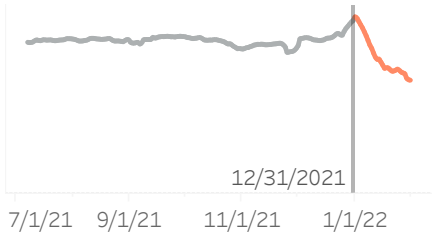


Observation Visits
Current Month Volume

▼ -21.5% from Previous Month
▲ 0.1% from Previous Year

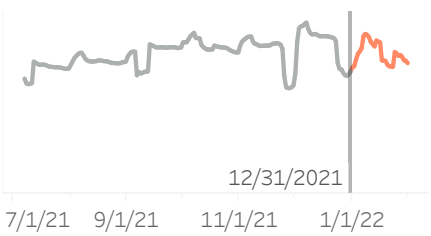
Emergency Visits
Current Month Volume

▼ -18.2% from Previous Month
▲ 6.3% from Previous Year



Outpatient Visits
Current Month Volume

▼ -9.2% from Previous Month
▲ 7.2% from Previous Year



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Section 4.1

National Volume Changes by Service Line (IP & OP)

Data as of 12/31/2021

2019 2021 2020

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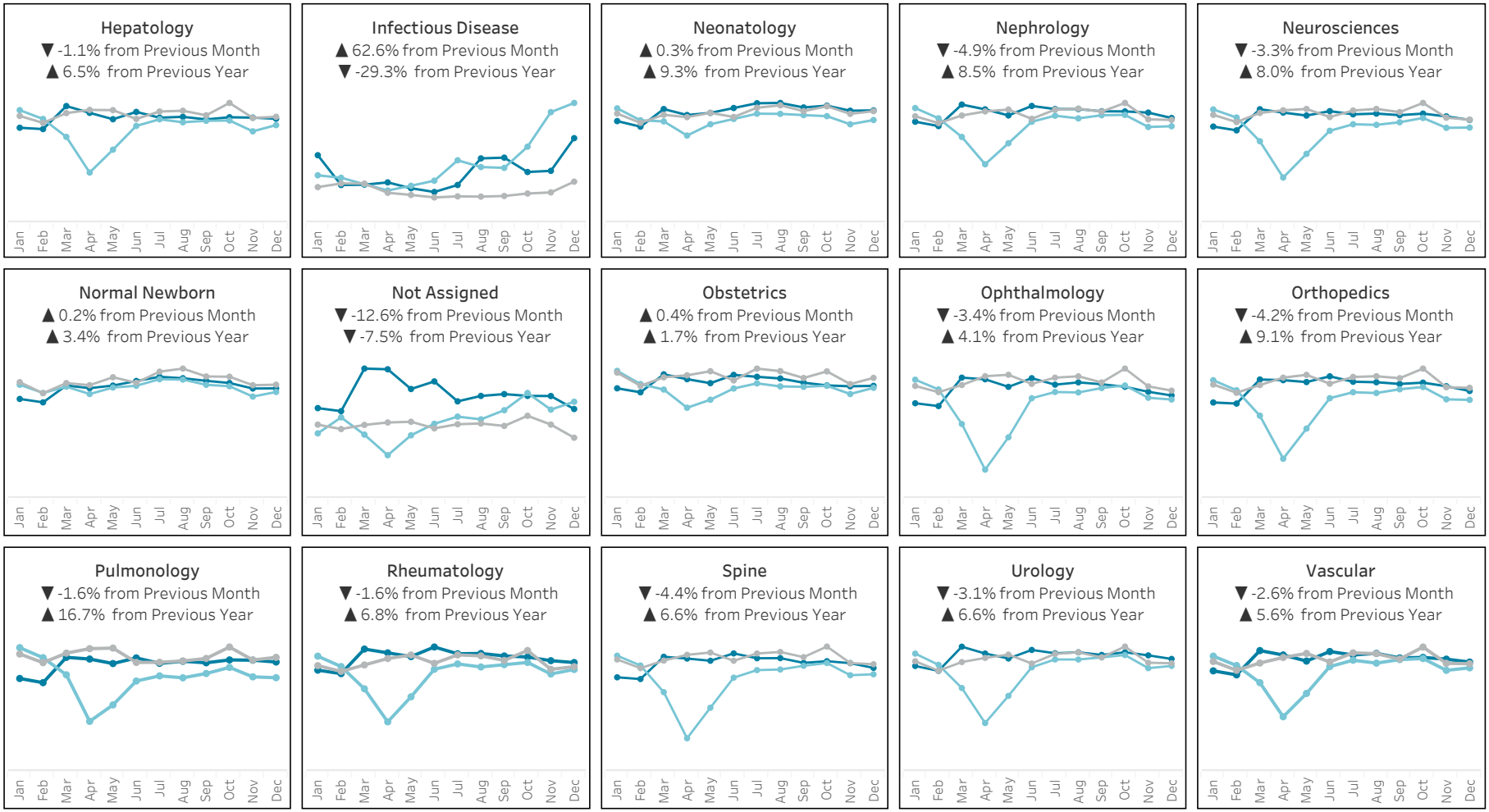
Section 4.2

National Volume Changes by Service Line (IP & OP)

Data as of 12/31/2021

2019 2021 2020



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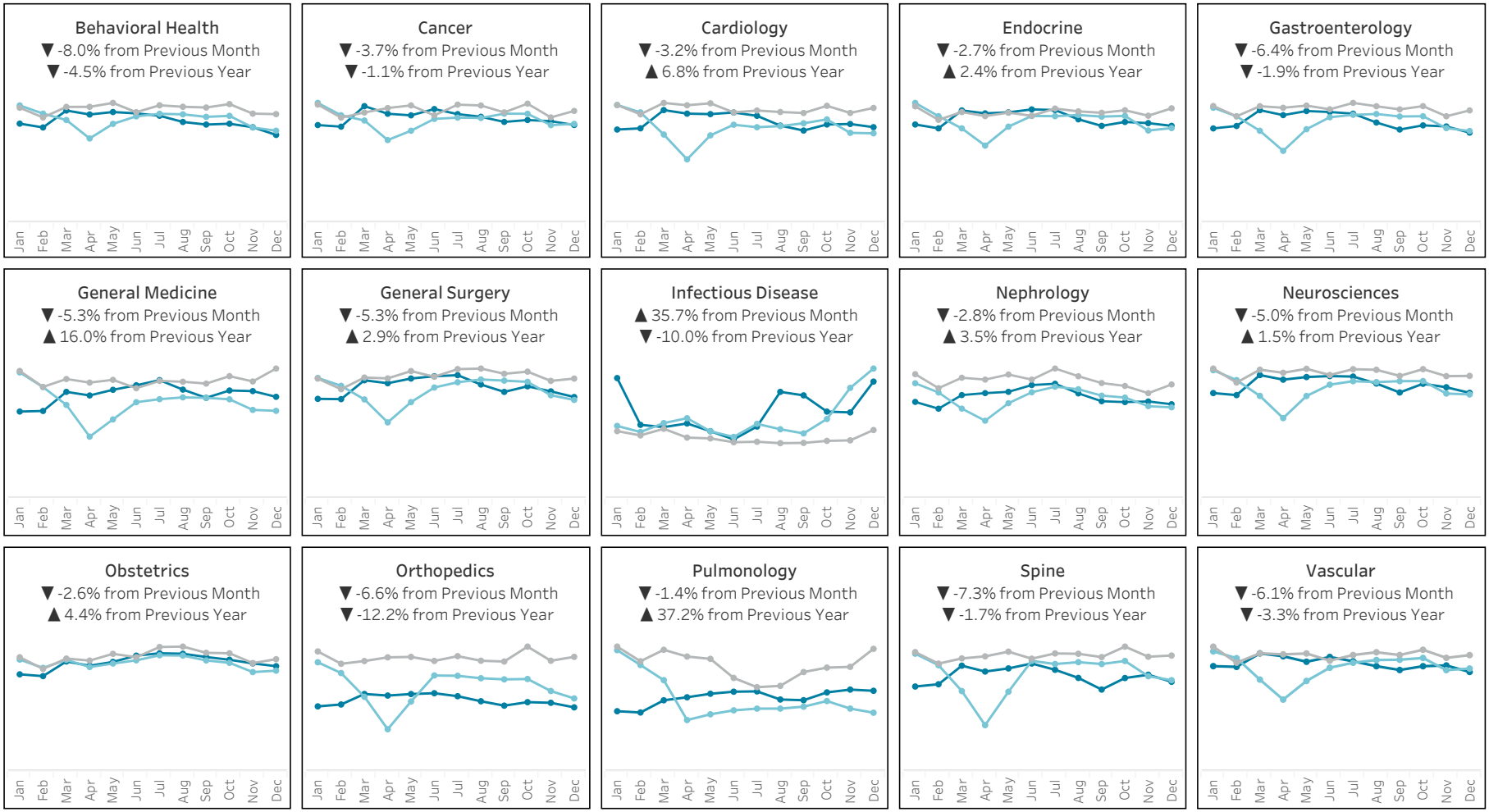
Section 4.3

National Volume Changes by Service Line (IP Only)

Data as of 12/31/2021

2019 2021 2020



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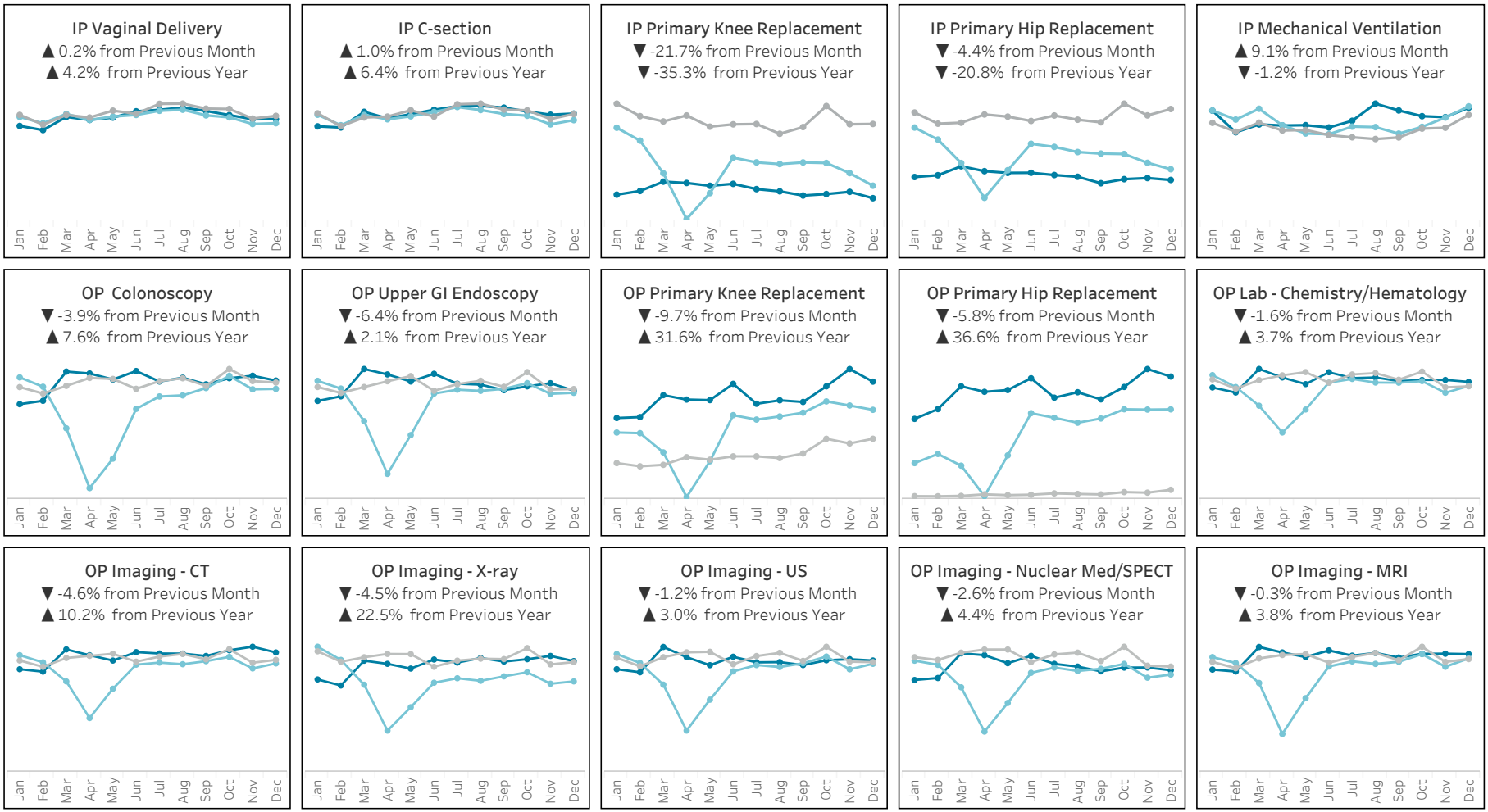
Section 5

National Volume Changes by Procedure Type

Data as of 12/31/2021

2019 2021
2020



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Section 6.1

COVID-19 Summary

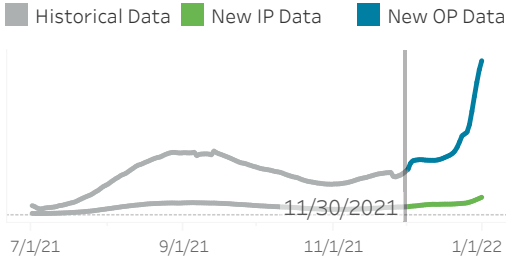
Data as of 12/31/2021

COVID-19 Infection

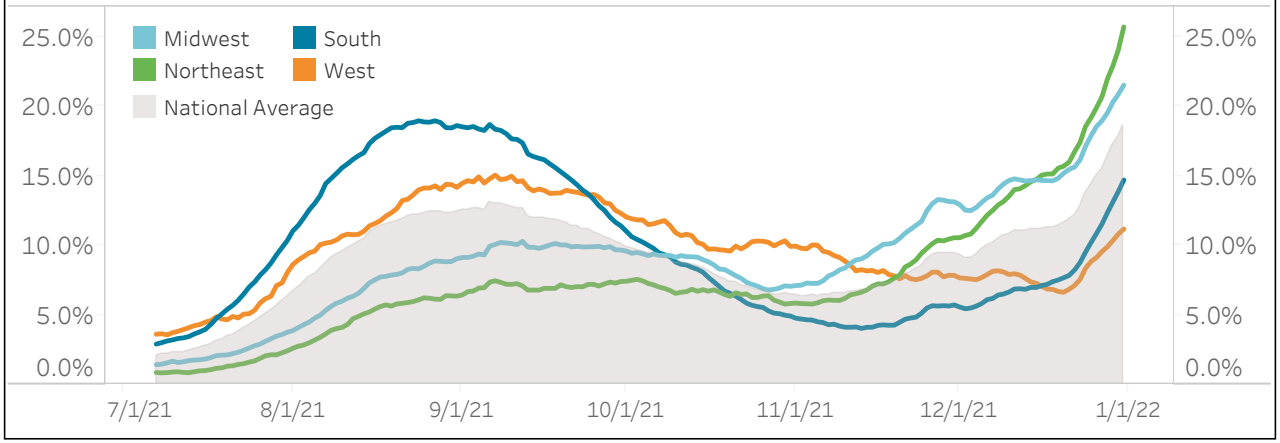
Current Month Volume

▲ 113.0% from Previous Month

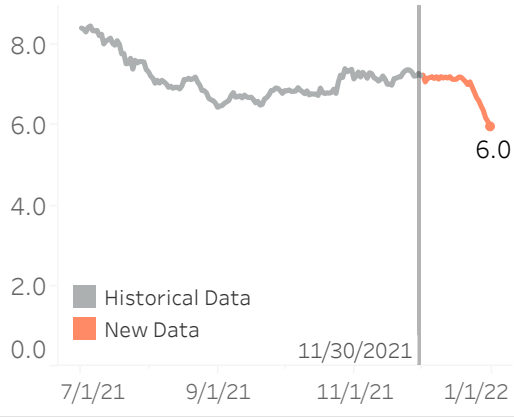
▲ 39.1% from Previous Year



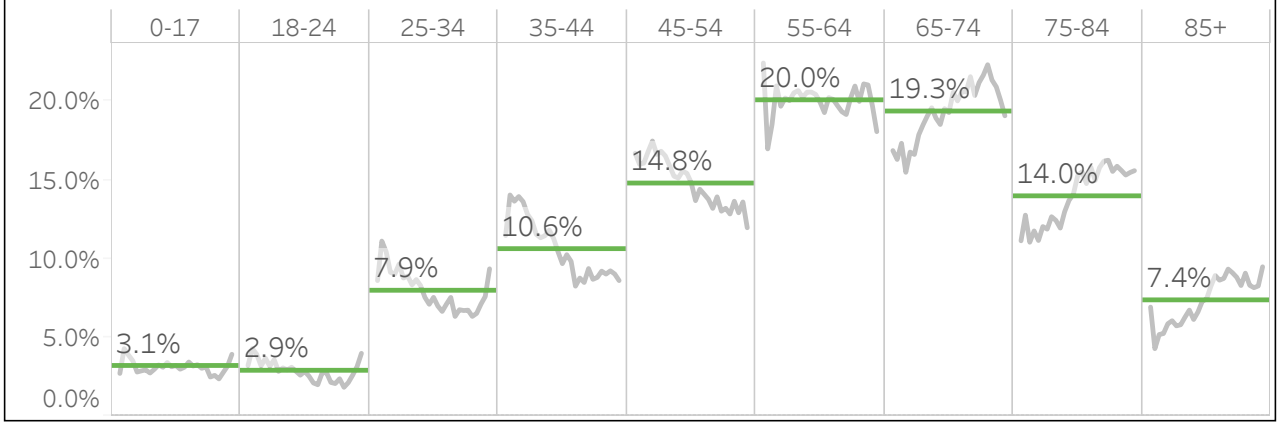
COVID-19 Hospitalizations as Proportion of All Hospitalizations by Census Region



GMLOS for COVID-19 Inpatients



COVID-19 Inpatients by Age Group



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Section 6.2

Children's Hospitals COVID-19 Summary

Childrens Hospital
17

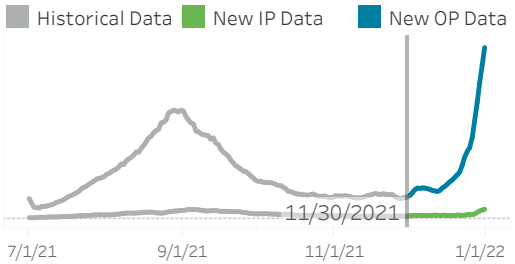
Data as of 12/31/2021

COVID-19 Infection

Current Month Volume

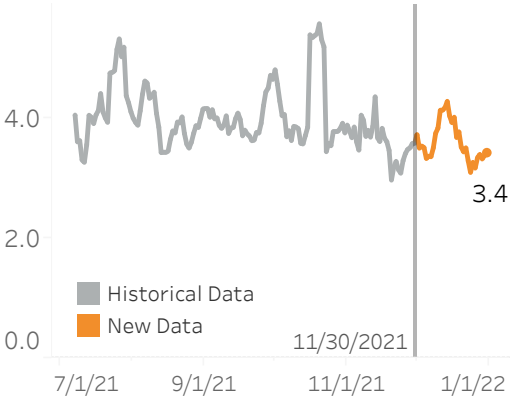
▲ 202.6% from Previous Month

▲ 52.3% from Previous Year

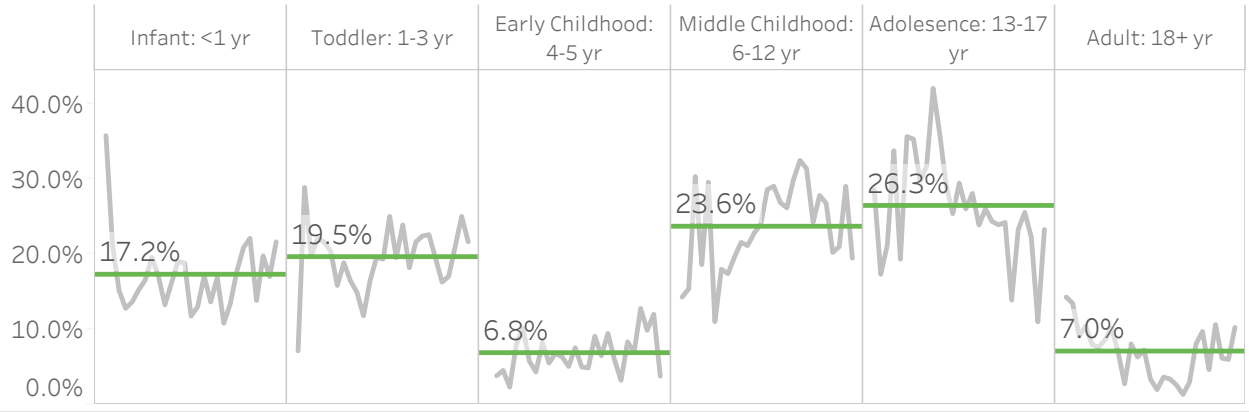


COVID-19 Hospitalizations as Proportion of All Hospitalizations

GMLOS for COVID-19 Inpatients



COVID-19 Inpatients by Age Group



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Methodology

Data Source: 101 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. Patient Types include inpatient, observation patient, emergency patient, outpatient and newborn, 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 from previous year.

For the service line and procedure graphs: Service line and procedure groups 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.

For the COVID-19 summary graphs: COVID-19 infection status provided by the Sg2 CARE Grouper. Only encounters with ICD-10 diagnosis code U07.1 (indicating verified infection) are included.

GMLOS (Geometric mean length of stay) represents the nth root of the product of the LOS values for every COVID-19 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.

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