



StrataSphere® Research Report:

Signals, Trends and KPIs: The Changing Face of Healthcare Finance

October 2022





Background: Overview

This special *StrataSphere® Research Report* provides an overview of the impact of COVID-19 on the financial and operational health of hospitals and health systems.

StrataSphere is a healthcare provider research and comparative analytics collaborative representing a cohort of over 1,100 hospitals from the Strata customer base of over 2,000 hospitals within over 400 health systems across the U.S. The report provides an aggregate view while additionally exploring specifics for Short Term Acute Hospitals, Academic Medical Centers and Children's Hospitals.

- **For Strata Customers:** Throughout this report, there are notes that indicate which metrics can be recreated within StrataSphere Compare which is available in the StrataJazz® platform. Follow the instructions to generate these metrics for your organization.
- **Open-Source Access to All Healthcare Stakeholders:** Additional information is available for free to all healthcare stakeholders via Strata's *National Patient and Procedure Volume Tracker*. The report is available monthly [here](#).

STRATASPHERE DATA COHORT

1,100+	Hospitals
180+	Healthcare Systems
340M	Patient Encounters
\$340B	Combined Annual Operating Expense
48	States

Please Note: The summary findings include data drawn from StrataSphere Compare, which may not be completely detailed in subsequent charts.



Executive Summary: Key Findings

1

Margins are down and expenses are increasing while revenue is flat

2

Labor, supply and drug costs are up while CMI is mostly flat

3

COVID-19 has shifted volumes with sustained impact

4

Key procedures and service lines continue to shift to the outpatient setting

Key Finding #1: *Margins are down and expenses are increasing while revenue is flat*



Total operating margins among StrataSphere institutions are down compared to 2019 pre-COVID-19 margins. 2022 median operating margin YTD is 4.6%. It was 7% in the baseline year of 2019 and 7.9% in 2021.

-58%

PATIENT
MARGINS

2022 YTD patient revenue margins are down 58% compared to 2019 pre-COVID-19 margins and down 68% compared to 2021. 2022 median patient margins per adjusted discharge are \$358.



The decrease in median operating margins can be partially attributed to government support receding. This demonstrates the importance of CARES Act funding and how many systems are struggling without this support.

-5%

MARGINS FOR
BOTTOM
QUARTILE

The bottom quartile of hospitals have operating margins of -5.4% in 2022 YTD, -1.6% in 2021, -3.6% in 2020 and 0.3% in 2019. The largest institutions (>\$1B) have fared better with lowest quartile operating margins at -0.7% in 2022 YTD, 1% in 2021, 4.4% in 2020 and 6.9% in 2019.



Expenses per adjusted discharge are up 25.9% in 2022 YTD compared to 2019, while revenue per adjusted discharge is up 19.3% for the same period. Compared to 2021, 2022 expenses per adjusted discharge are up 9.6% YTD, while revenue per adjusted discharge is up 2.6%.

Key Finding #2: *Labor, supply and drug costs are up while CMI is mostly flat*

+29%
IP COST PER
CASE

For short term acute care hospitals, the 2022 YTD median inpatient total costs per encounter are up 29.4% compared to 2019 and up 7.2% compared to 2021.

+470%
CONTRACT
LABOR

For short term acute care hospitals, the median labor expense direct cost per encounter is up 54.3% compared to 2019. Contract labor – typically far more expensive than employees – as a percent of total labor expense is up 471.4% from 1.4% in 2019 to 8.0% in 2022 YTD.

+\$300
PER
ENCOUNTER

For short term acute care hospitals, the median supply expense per encounter has increased 17% since 2019 and the median drug expense has increased 33% for the same period. This is an expense increase of \$300+ per encounter.



Case Mix Index (CMI) has had small increases year over year. The median 2022 YTD CMI is 1.45 compared to a 2019 median value of 1.38.



Average length of stay (ALOS) is increasing over time. 2022 YTD ALOS is 5.3 days, which is a 17.8% increase over 2019. Upon inspection, this increase can be attributed to patients being transferred to another facility.

Key Finding #3: *COVID-19 has shifted volumes with sustained impact*

-5-14%

INPATIENT
VOLUMES

Since March of 2020, inpatient(IP) volumes have not exceeded 2019 pre-COVID-19 volumes. In 2022, monthly IP volumes are down 5-14% compared to 2019. See Strata's [National Patient and Procedure Volume Tracker](#) for more detail.



COVID-19 hospitalizations push out other care. When hospitals experience COVID-19 waves, all other IP service line volumes decrease. In January 2022, at the peak of the Omicron wave, inpatient volumes were down 14.1% compared to 2019.



Outpatient volume has soared, but it is being driven by COVID-19 testing and vaccinations. If testing and vaccinations are removed, outpatient volumes didn't start to exceed 2019 levels until March 2021.

-3-19%

ED
VOLUMES

Emergency room visits have not exceeded 2019 pre-COVID-19 volumes. In 2022, monthly volumes are down 3-19% compared to 2019. Emergency room acuity has increased minimally.



Dermatology and ENT service lines have still not achieved 2019 pre-COVID-19 volumes.

Key Finding #4: *Key procedures and service lines continue to shift to the outpatient setting*



There is an accelerating shift of key, traditional inpatient procedures to the outpatient setting. This will have a profound impact on cost structures, margins and competition.

-80%
OSTEOARTHRITIS

Orthopedics volume is down compared to 2019. Inpatient (IP) volume for the Osteoarthritis CARE Family (where most total knee replacement patients are attributed) is down 80% in 2022 YTD compared to 2019.



Re-regulation slowed the trend of procedures shifting to outpatient. 298 procedures were removed from CMS's inpatient-only list in 2021 and returned to the inpatient-only list in 2022. Without regulation in 2021, these procedures started to shift to outpatient; the largest shifts occurred in orthopedic and spine procedures.

-37%
BREAST
CANCER

For short term acute care hospitals, cancer volumes are up in 2022 YTD. However, 2022 YTD IP volumes are down compared to 2019. Breast cancer IP volume is down 37% compared to 2019 and prostate cancer IP volume is down 41% for the same timeframe.

-11%
HEART
FAILURE

For short term acute care hospitals, congestive heart failure volume is up 5% in 2022 YTD compared to 2019; however IP volume is down 11.2% for the same timeframe.

Recommended Next Steps



- **Spend time on detailed scenario planning**

Run scenarios to account for the shifts in a) labor rates, supply and market forces, b) volume shifts and c) sites of care shifts. Leverage StrataSphere Compare and the *National Patient and Procedure Volume Tracker* to explore your trends versus your peer groups.



- **Leverage a rolling forecast approach**

Use a rolling forecast to reflect potential future waves of COVID-19, increasing labor costs and the volume shift to outpatient. Changes are coming fast; flexibility will be the key to accurate forecasting.



- **Drill into labor cost drivers in new ways**

Labor costs have increased significantly. A supply-driven labor market requires new thinking. For example, think about labor optimization not just productivity. Focus on task substitution and the elimination of non-value-added work. Consider overtime usage as a substitute for contract labor expenses.



- **Dive deep into margin, not just cost**

Are there service lines that you need to exit or consolidate to fewer locations? Can low margin cases be avoided with better community outreach? Are fixed costs really fixed? Overhead expenses are flat. With increased mergers and acquisitions, it would be expected to see overhead expenses decrease. It is time to look for economies of scale opportunities.

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DETAILED CHARTS AND FINDINGS



StrataSphere® Research Report

Short Term Acute Care Hospitals

National Patient and Procedure Volume Tracker – Volume Data

Financial KPI Metrics

Labor Expense Metrics

Overhead Expense Metrics

Cost Metrics

Service Line and CARE Family Volume Tracker

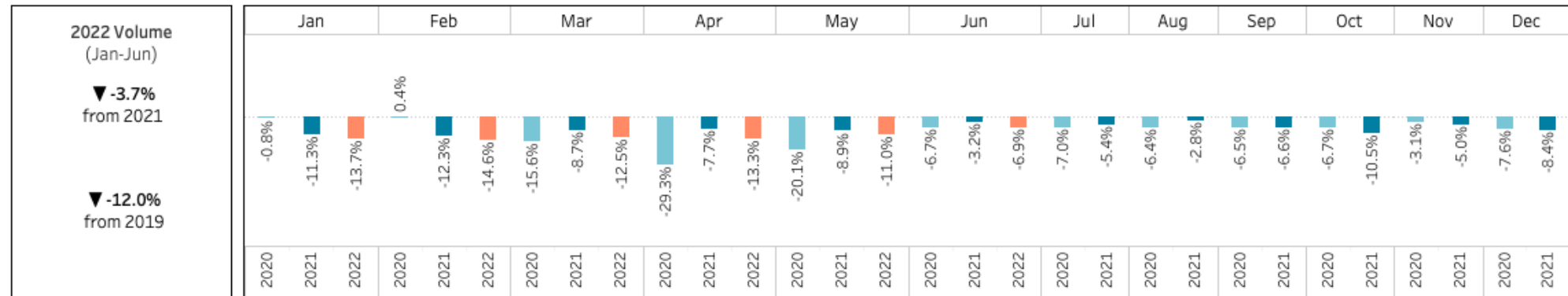


Short Term Acute Care Hospitals Monthly Volume Changes Compared to 2019

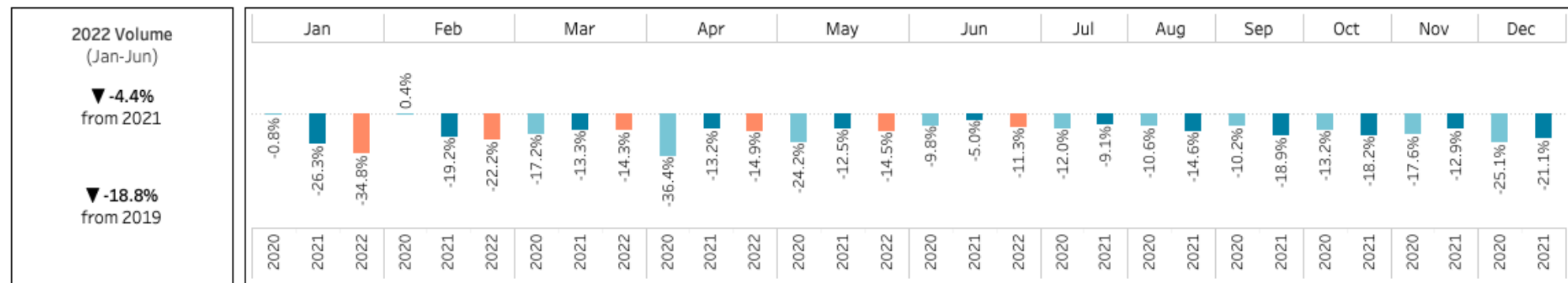
Data as of 6/30/2022

Inpatient volumes have yet to exceed pre-COVID-19 levels. In 2022, inpatient volumes have been down 7-14% compared to 2019. If COVID-19 admissions are excluded, the inpatient volumes are even lower compared to pre-COVID-19 levels. This data set represents 297 Short Term Acute Care Hospitals.

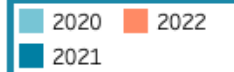
Inpatient Admissions (Including COVID-19)



Inpatient Admissions (Excluding COVID-19)



Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support receive a version of this report with their organization's data compared to the regional and national data set. This client-specific report is distributed quarterly by an email from Peter Tzioumis. If you would like a copy of your organization's report, please contact your Strata Team to be added to the distribution list.



Short Term Acute Care Hospitals Monthly Volume Changes Compared to 2019

Data as of 6/30/2022

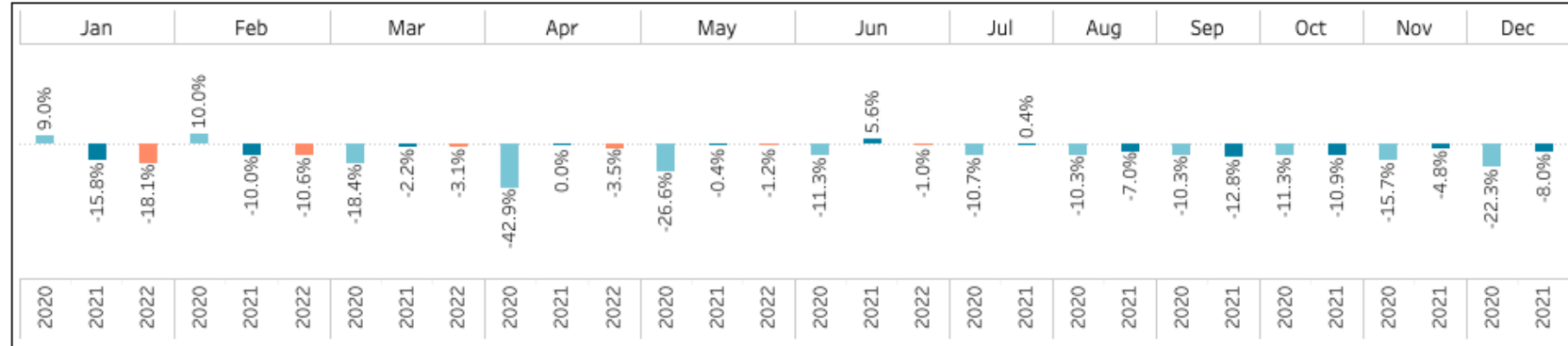
Observation visits in 2022 are approaching pre-COVID-19 levels. The only time observation visits exceeded 2019 levels was June and July 2021 when COVID-19 incidence were at their lowest. This data set represents 297 Short Term Acute Care Hospitals.

Observation Visits (Including COVID-19)

2022 Volume
(Jan-Jun)

▼ -2.5%
From 2021

▼ -6.2%
From 2019

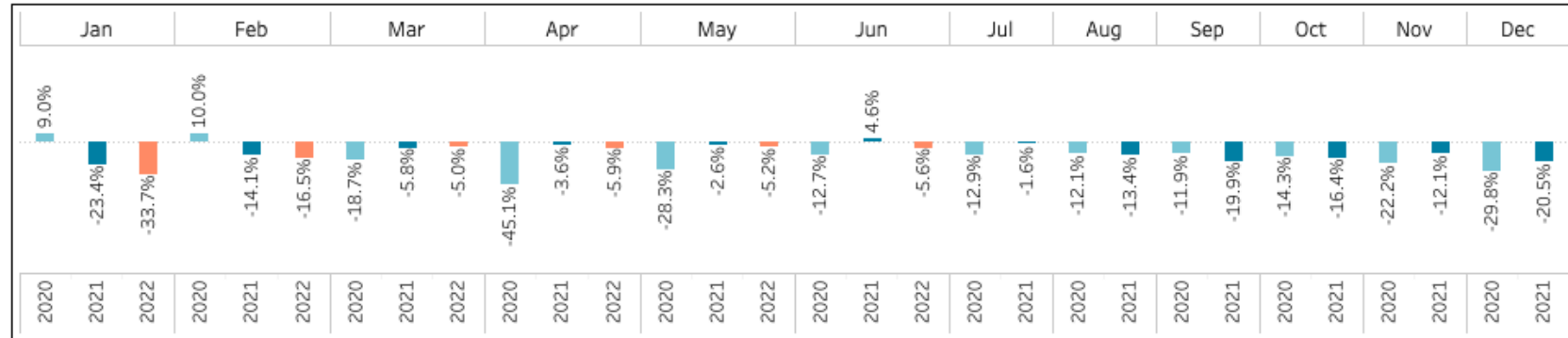


Observation Visits (Excluding COVID-19)

2022 Volume
(Jan-Jun)

▼ -4.9%
From 2021

▼ -11.9%
From 2019



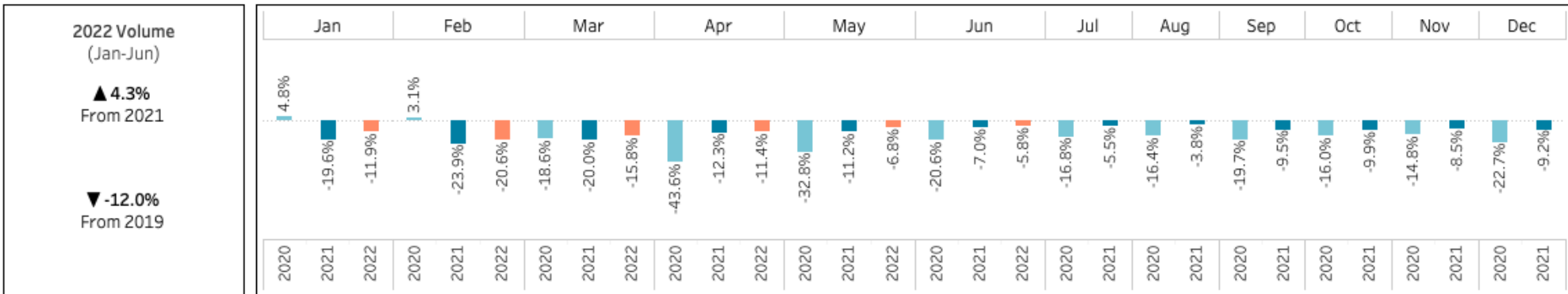
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Short Term Acute Care Hospitals Monthly Volume Changes Compared to 2019

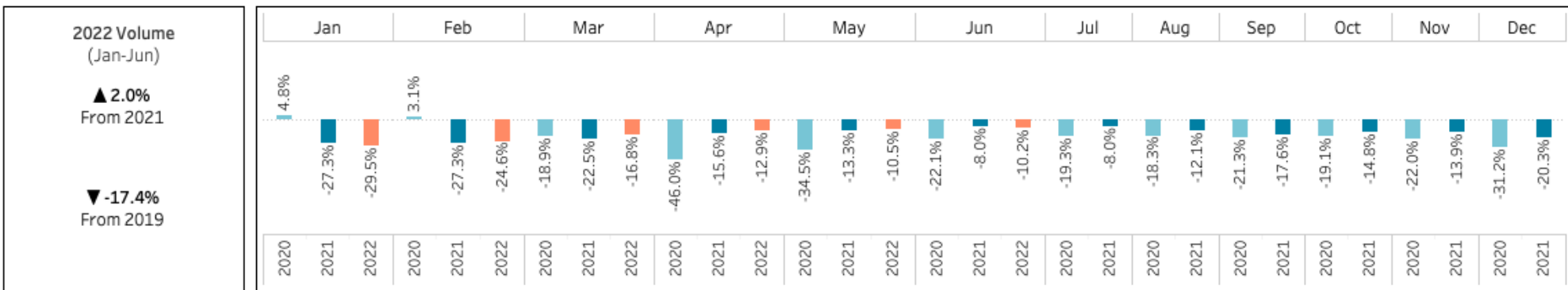
Data as of 6/30/2022

Emergency volumes have yet to exceed pre-COVID-19 levels. In 2022, emergency volumes have been down 6-20% compared to 2019. If COVID-19 encounters are excluded, the emergency volumes are even lower compared to pre-COVID-19 levels. This data set represents 296 Short Term Acute Care Hospitals.

Emergency Visits (Including COVID-19)



Emergency Visits (Excluding COVID-19)



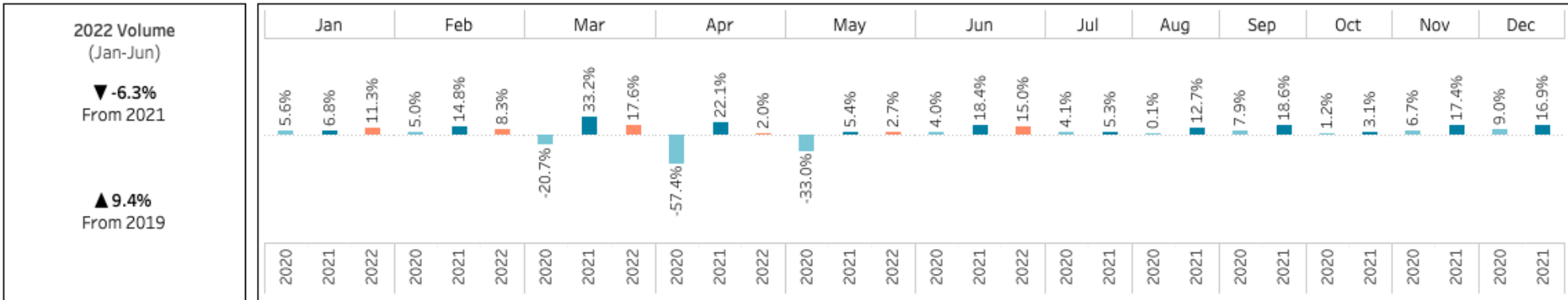
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Short Term Acute Care Hospitals Monthly Volume Changes Compared to 2019

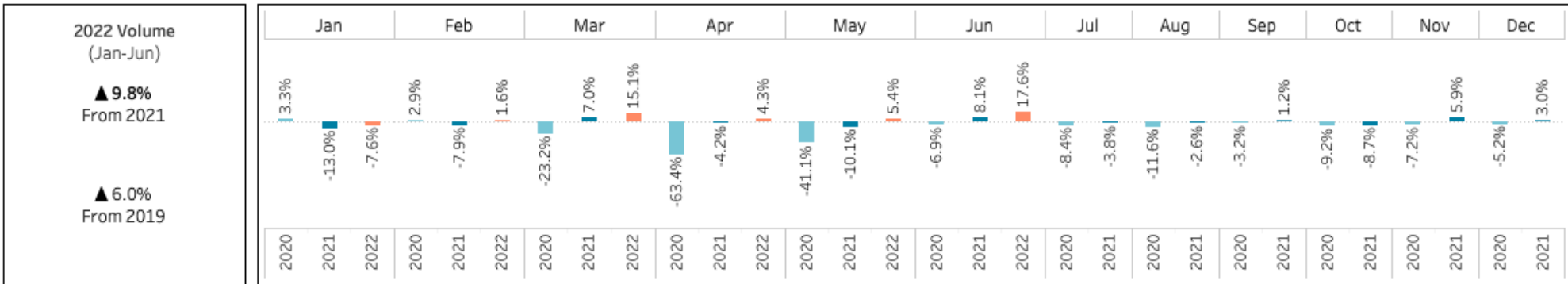
Data as of 6/30/2022

Outpatient volumes have exceeded pre-COVID-19 levels. However, most of the additional volume can be attributed to COVID-19 testing and vaccine administration. If these encounters are excluded, the outpatient volume did not consistently exceed 2019 levels until February 2022. This data set represents 297 Short Term Acute Care Hospitals.

Outpatient Visits (Including COVID-19)



Outpatient Visits (Excluding COVID-19)



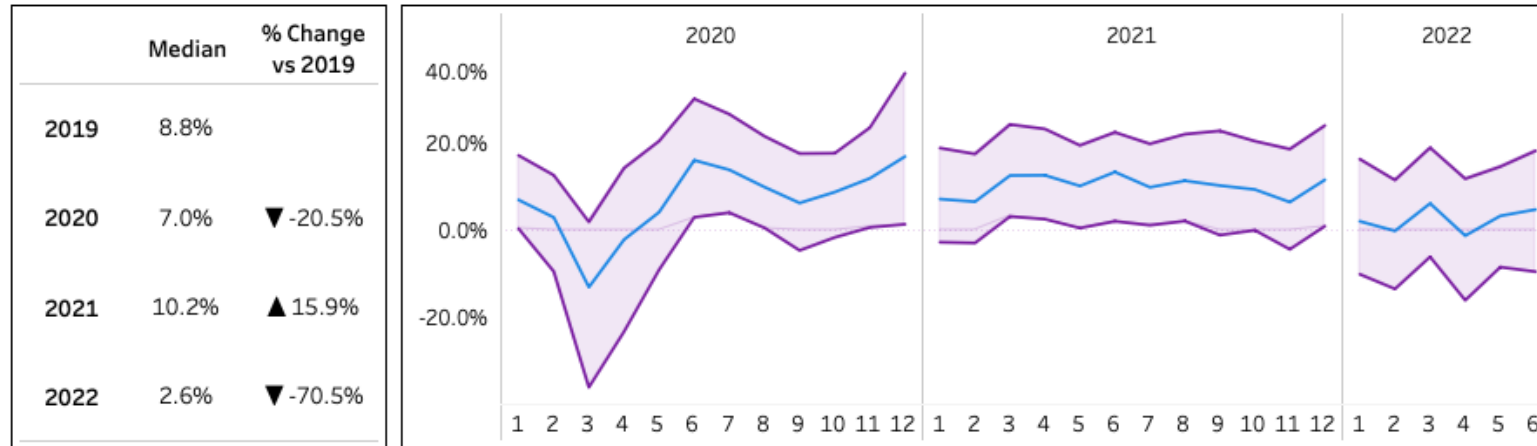
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Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

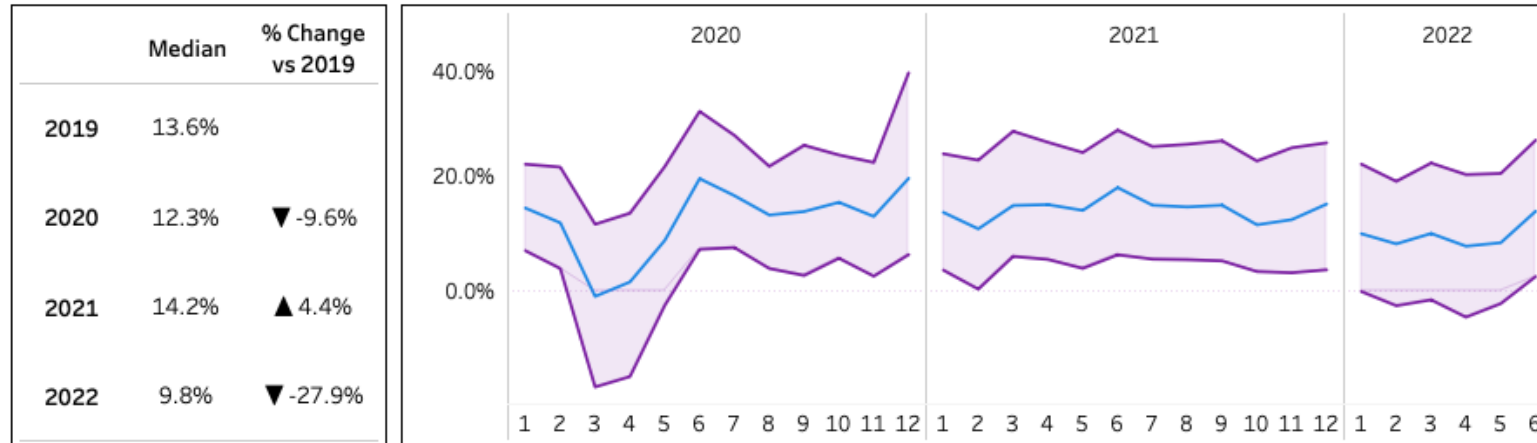
Net Income Margin



Margins are down in 2022 compared to 2021 and 2019. These metrics include CARES Act funding. In 2022, more hospitals are struggling than previous years.

- Reporting data from 116 StrataSphere® health systems including 451 Short Term Acute Care Hospitals.

EBITDA Margin



- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital" on the KPI tab.

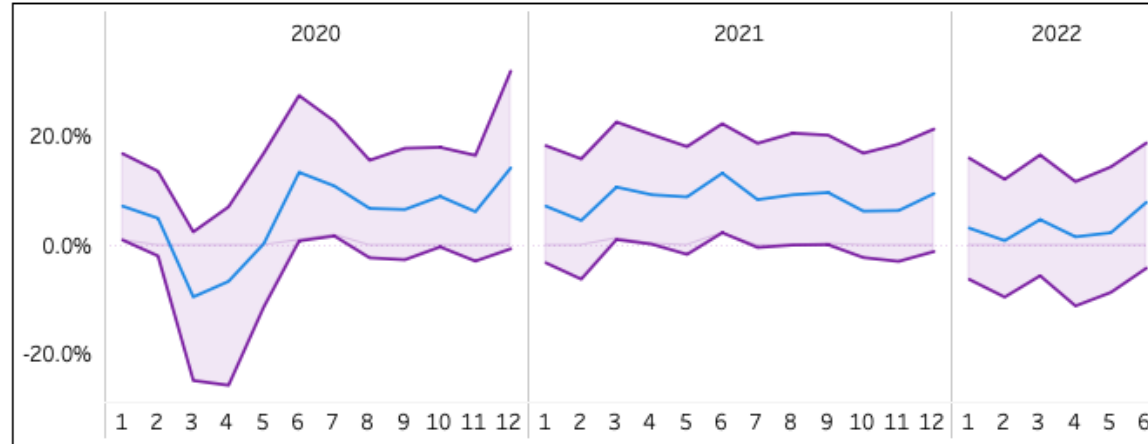
Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Operating Margin

	Median	% Change vs 2019
2019	7.2%	
2020	5.2%	▼ -27.8%
2021	8.5%	▲ 18.1%
2022	3.4%	▼ -52.8%



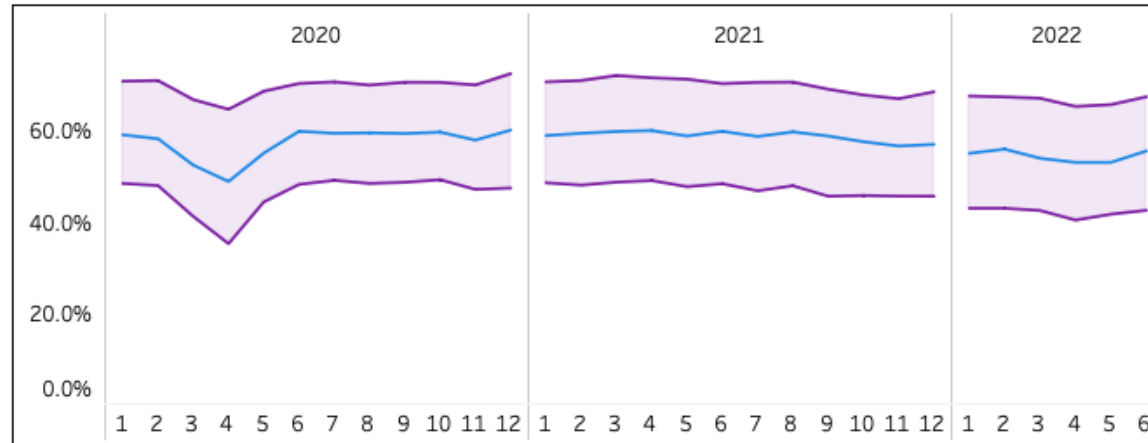
The median operating margin in 2022 is half of 2019's pre-COVID-19 operating margin. These metrics include CARES Act funding and demonstrate that many hospitals are struggling as support wanes.

- Reporting data from 116 StrataSphere® health systems including 451 Short Term Acute Care Hospitals.

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Contribution Margin

	Median	% Change vs 2019
2019	59.3%	
2020	57.6%	▼ -2.9%
2021	59.0%	▼ -0.5%
2022	54.6%	▼ -7.9%



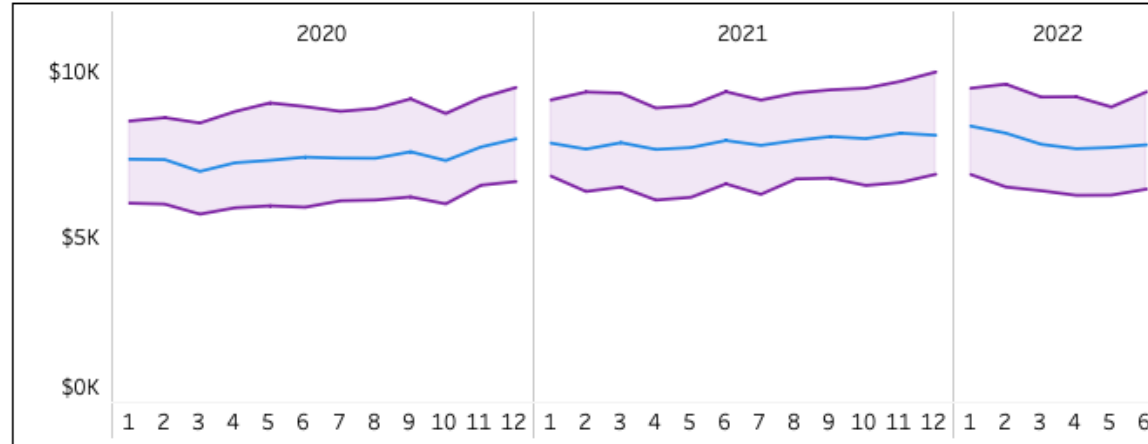
Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

NPR per Adjusted Discharge, CMI Adjusted

	Median	% Change vs 2019
2019	\$7,251	
2020	\$7,422	▲ 2.4%
2021	\$7,884	▲ 8.7%
2022	\$7,915	▲ 9.2%

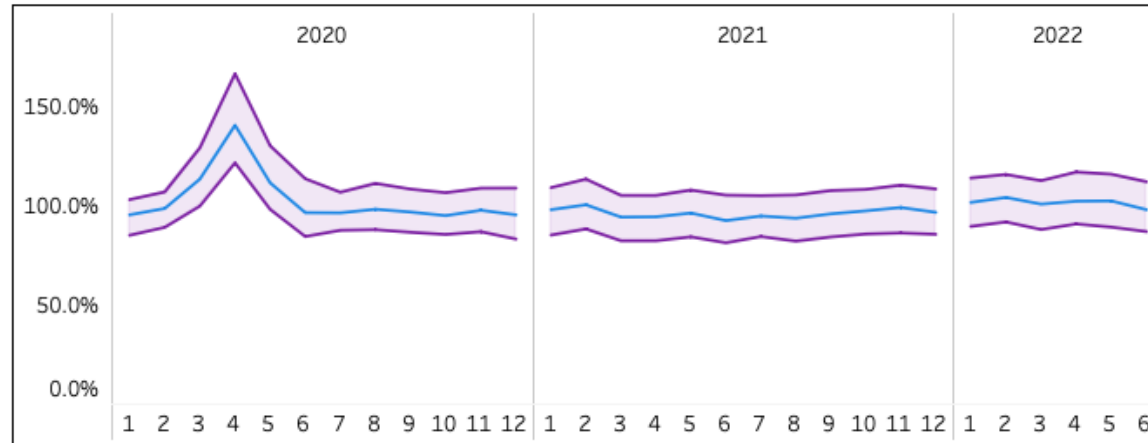


Expenses as a percentage of net patient revenue is more than 100% for more than 50% of Short Term Acute Care Hospitals.

- Reporting data from 116 StrataSphere® health systems including 451 Short Term Acute Care Hospitals.

Total Expense as a % of NPR

	Median	% Change vs 2019
2019	96.0%	
2020	102.9%	▲ 7.2%
2021	96.0%	► 0.0%
2022	101.4%	▲ 5.6%



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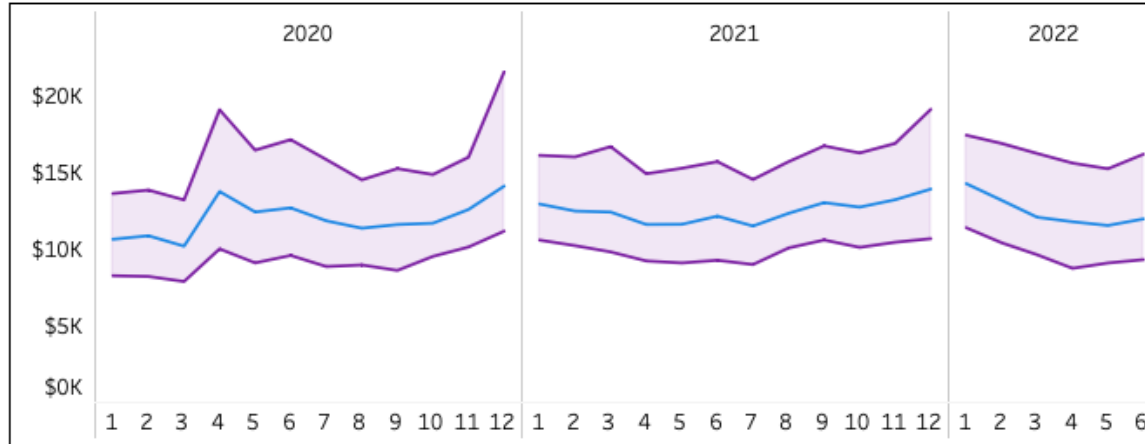
Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Operating Revenue per Adjusted Discharge

	Median	% Change vs 2019
2019	\$10,676	
2020	\$12,012	▲ 12.5%
2021	\$12,528	▲ 17.3%
2022	\$12,503	▲ 17.1%



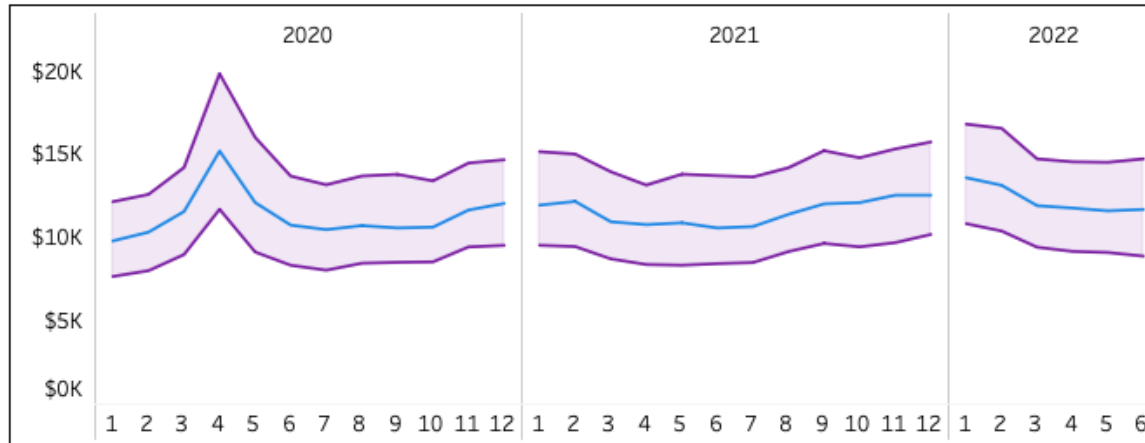
Expenses are growing faster than revenue. Margins for patient care are very slim.

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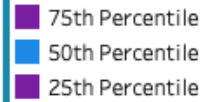
Total Expense per Adjusted Discharge

	Median	% Change vs 2019
2019	\$9,691	
2020	\$11,240	▲ 16.0%
2021	\$11,467	▲ 18.3%
2022	\$12,198	▲ 25.9%



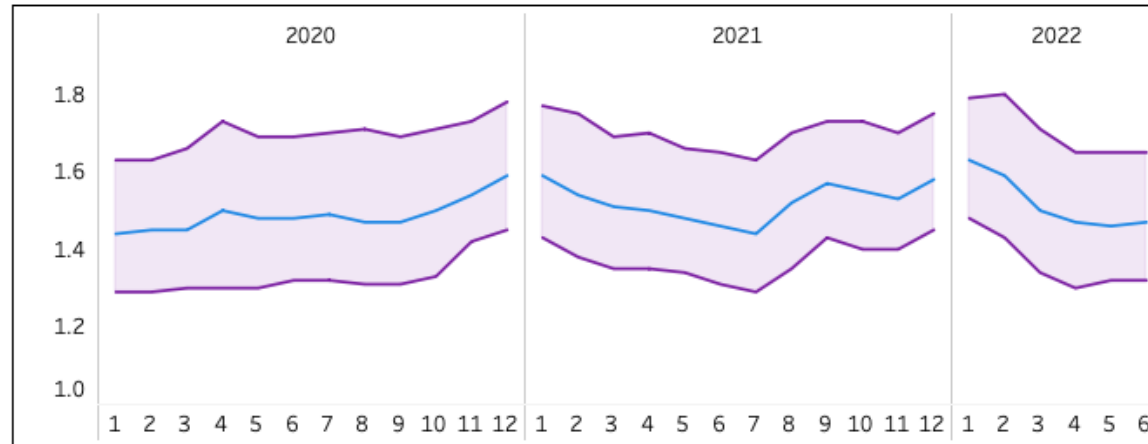
Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06



Case Mix Index (MS-DRG)

	Median	% Change vs 2019
2019	1.4	
2020	1.5	▲ 7.1%
2021	1.5	▲ 7.1%
2022	1.5	▲ 7.1%

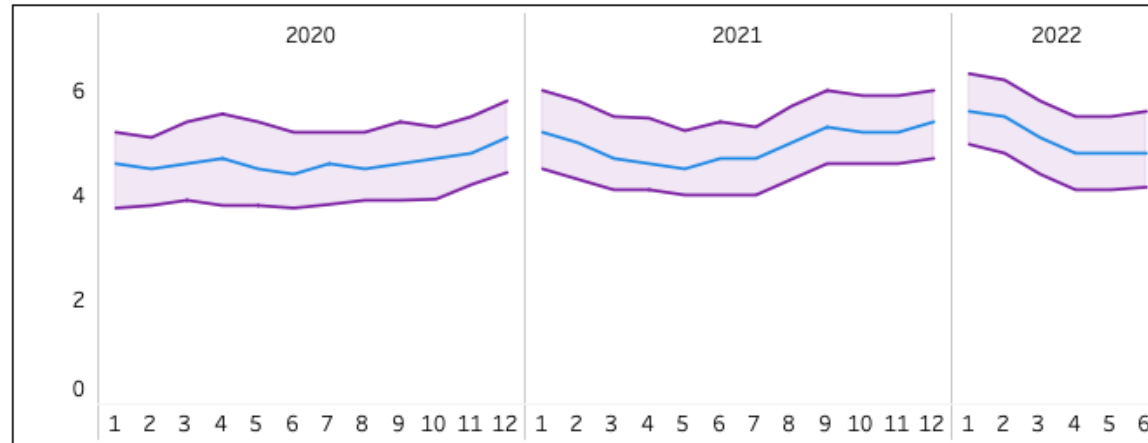


Case Mix Index has changed minimally in the past several years, however length of stay is increasing. The increase in length of stay can be attributed to patients waiting longer to be transferred to another facility.

- Reporting data from 116 StrataSphere® health systems including 451 Short Term Acute Care Hospitals.

Average Length of Stay (Date and Time)

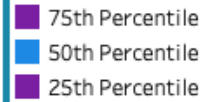
	Median	% Change vs 2019
2019	4.3	
2020	4.6	▲ 7.0%
2021	5.0	▲ 16.3%
2022	5.1	▲ 18.6%



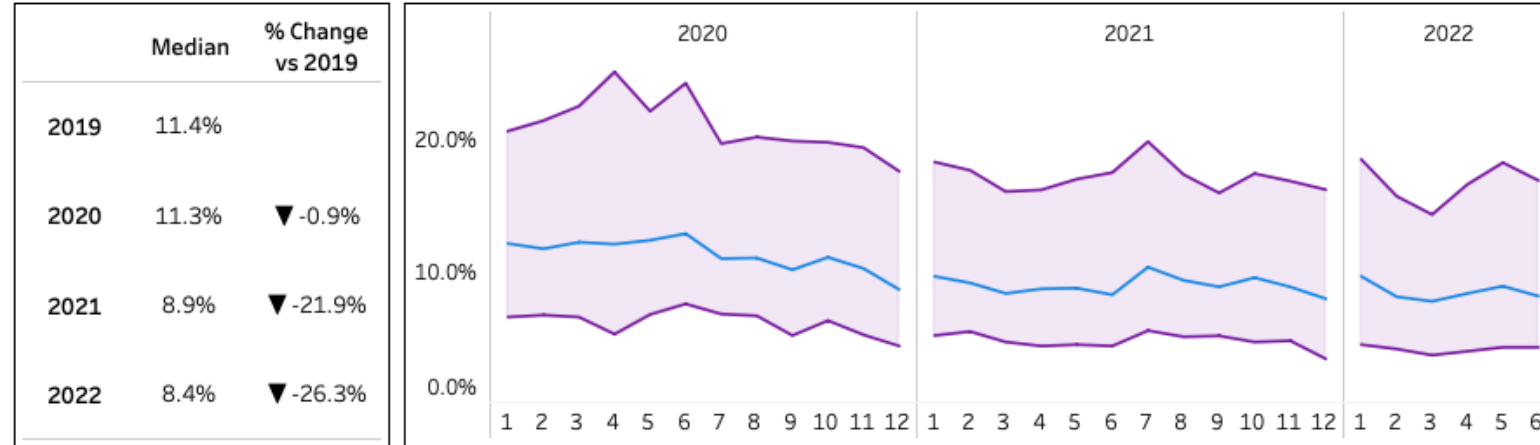
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Short Term Acute Care Hospitals Financial KPI Metrics

Data as of 2022/06



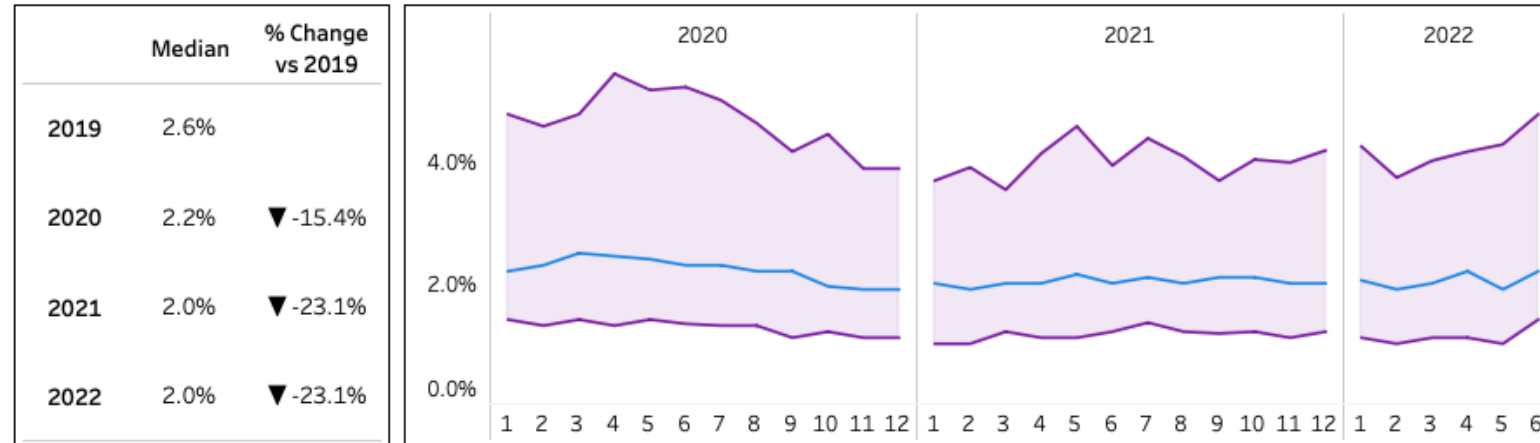
Bad Debt and Charity Care as a % of NPR



With expanded government funding and programs, uninsured volumes are down compared to pre-COVID-19 levels.

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% True Self Pay

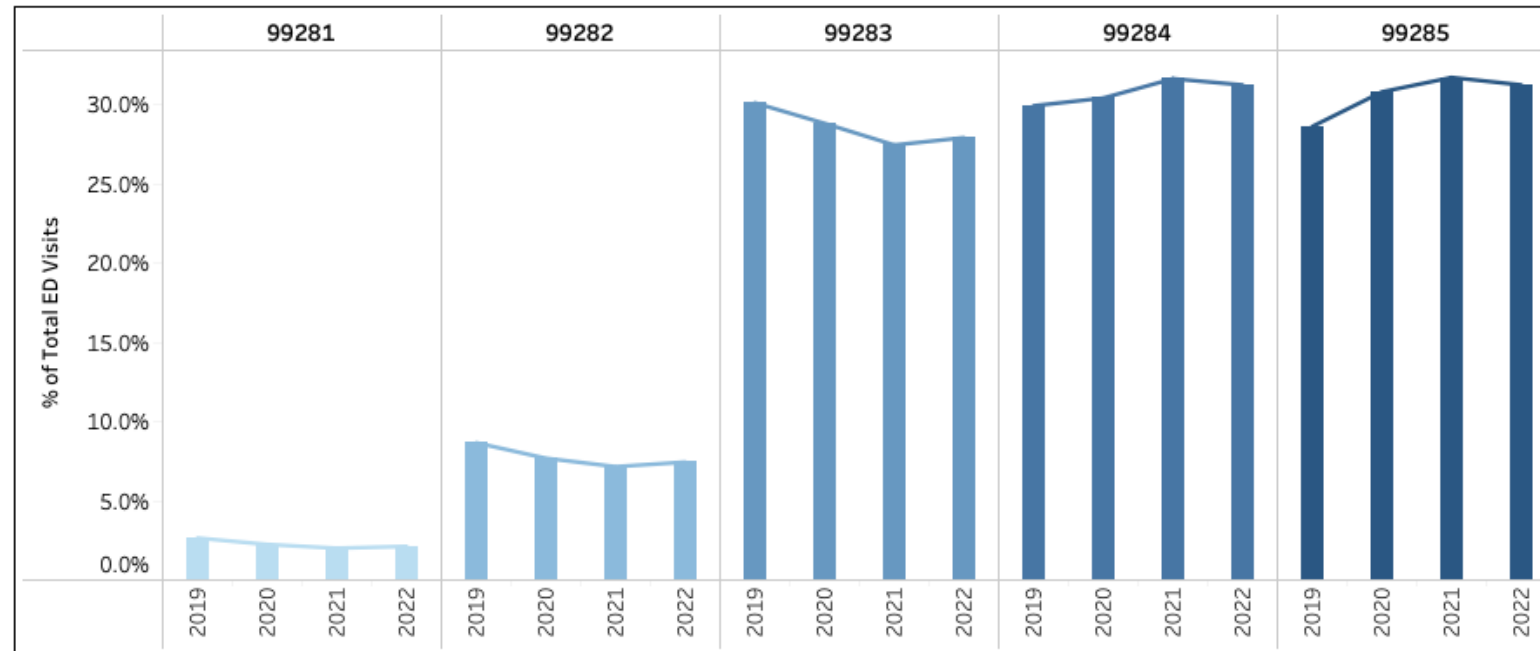


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Short Term Acute Care Hospitals Proportion of ED Visits by ED CPT Codes

Data as of 2022/06

	99281		99282		99283		99284		99285	
	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019
2019	2.7%		8.7%		30.1%		29.9%		28.6%	
2020	2.2%	▼ -18.5%	7.7%	▼ -11.5%	28.8%	▼ -4.3%	30.4%	▲ 1.7%	30.8%	▲ 7.7%
2021	2.0%	▼ -25.9%	7.2%	▼ -17.2%	27.5%	▼ -8.6%	31.6%	▲ 5.7%	31.7%	▲ 10.8%
2022	2.1%	▼ -22.2%	7.4%	▼ -14.9%	27.9%	▼ -7.3%	31.3%	▲ 4.7%	31.3%	▲ 9.4%



Upon reviewing the distribution of ED CPT Codes for ED encounters, the proportion of patients who are sickest (CPT code 99285) has increased minimally in the past three years. Note that ED volumes are down compared to pre-COVID-19 levels (see page 4 of this report).

- Reporting data from 82 StrataSphere® health systems including 306 Short Term Acute Care Hospitals.

- The CPT codes 99281-99285 are for reporting evaluation and management services in the emergency department. These CPT codes represent the 5 levels of emergency department services billed based on complexity, severity of the presenting problem, and performed work required by the presenting symptoms. CPT codes 99281 and 99282 represent low complexity, 99283 and 99284 represent moderate complexity, and 99285 represents high complexity visits.

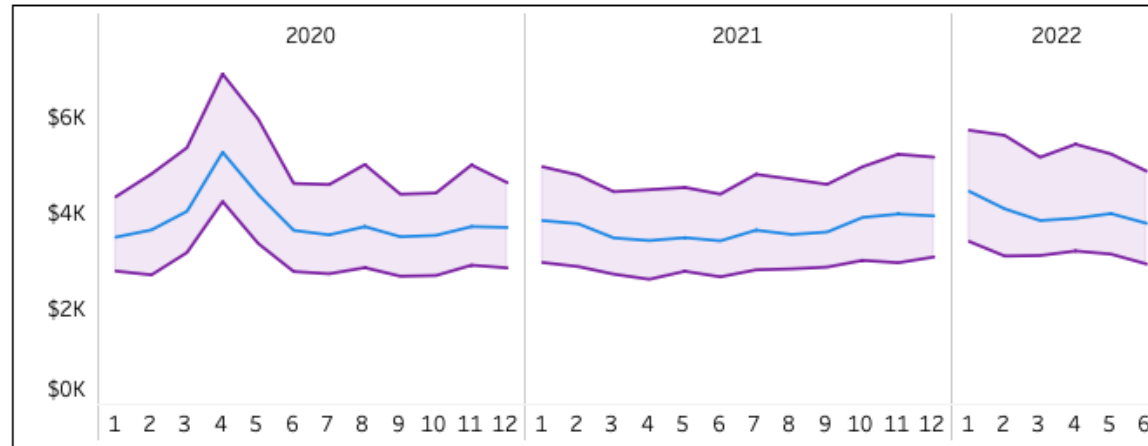
Short Term Acute Care Hospitals Labor Expense Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

Labor Expense per Adjusted Discharge, CMI Adjusted

	Median	% Change vs 2019
2019	\$3,546	
2020	\$3,839	▲ 8.3%
2021	\$3,662	▲ 3.3%
2022	\$3,998	▲ 12.7%

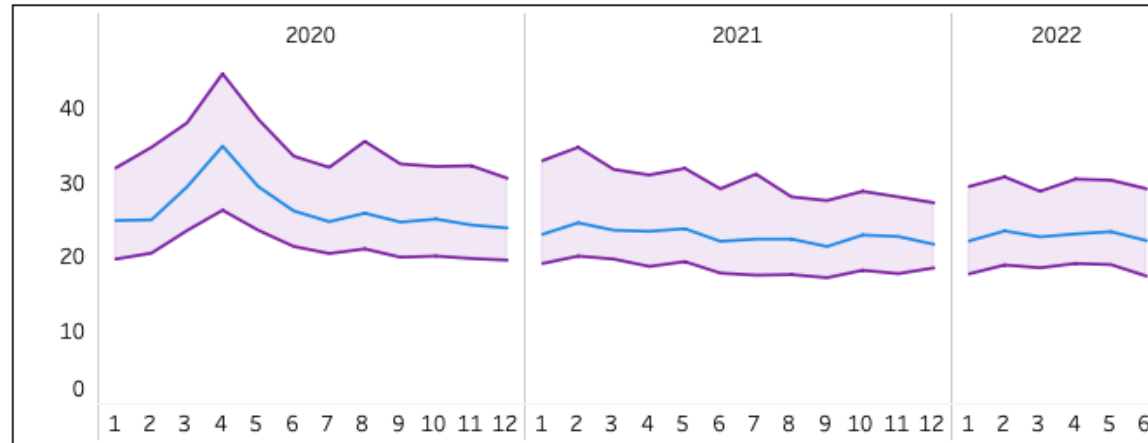


Labor expense per adjusted discharge, CMI adjusted has increased in 2022. This demonstrates that more expensive resources are being used per patient. Worked hours per adjusted patient day are down compared to pre-COVID-19 levels. This indicates that there are fewer staff per patient in 2022. Both of these metrics for overtime and contract labor show that organizations are having difficulty with staffing.

- Reporting data from 65 StrataSphere® health systems including 219 Short Term Acute Care Hospitals.

Worked Hours per Adjusted Patient Day (training, meeting, and orientation as non-productive)

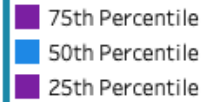
	Median	% Change vs 2019
2019	25.7	
2020	26.5	▲ 3.1%
2021	22.8	▼ -11.3%
2022	22.7	▼ -11.7%



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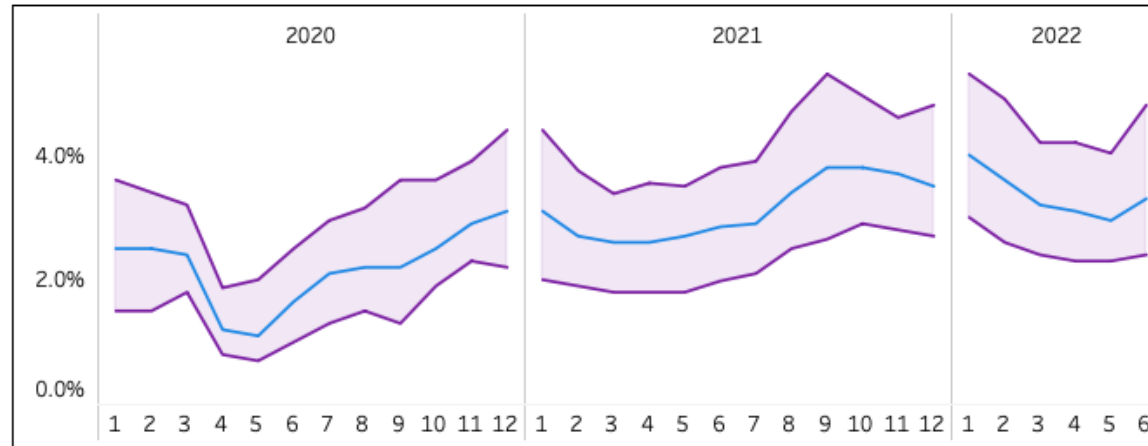
Short Term Acute Care Hospitals Labor Expense Metrics

Data as of 2022/06



Overtime Hours as a % of Paid Hours

	Median	% Change vs 2019
2019	2.4%	
2020	2.2%	▼ -8.3%
2021	3.1%	▲ 29.2%
2022	3.4%	▲ 41.7%



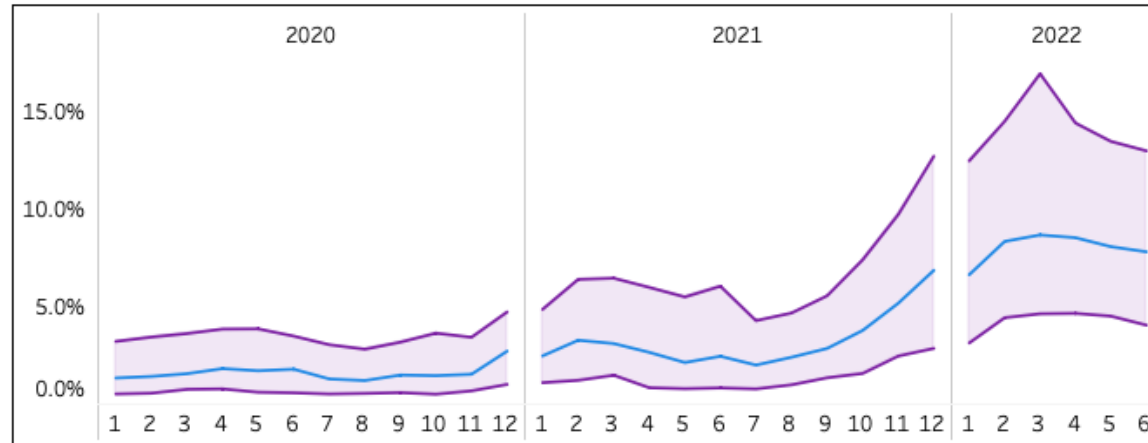
Compared to 2021, both overtime and contract hours in 2022 are up. Overtime is gradually replacing contract labor in 2022, but contract labor has increased 471% in 2022 compared to 2019.

- Reporting data from 65 StrataSphere® health systems including 219 Short Term Acute Care Hospitals.

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Contract Labor as a % of Total Labor Expense

	Median	% Change vs 2019
2019	1.4%	
2020	1.6%	▲ 14.3%
2021	3.3%	▲ 135.7%
2022	8.0%	▲ 471.4%

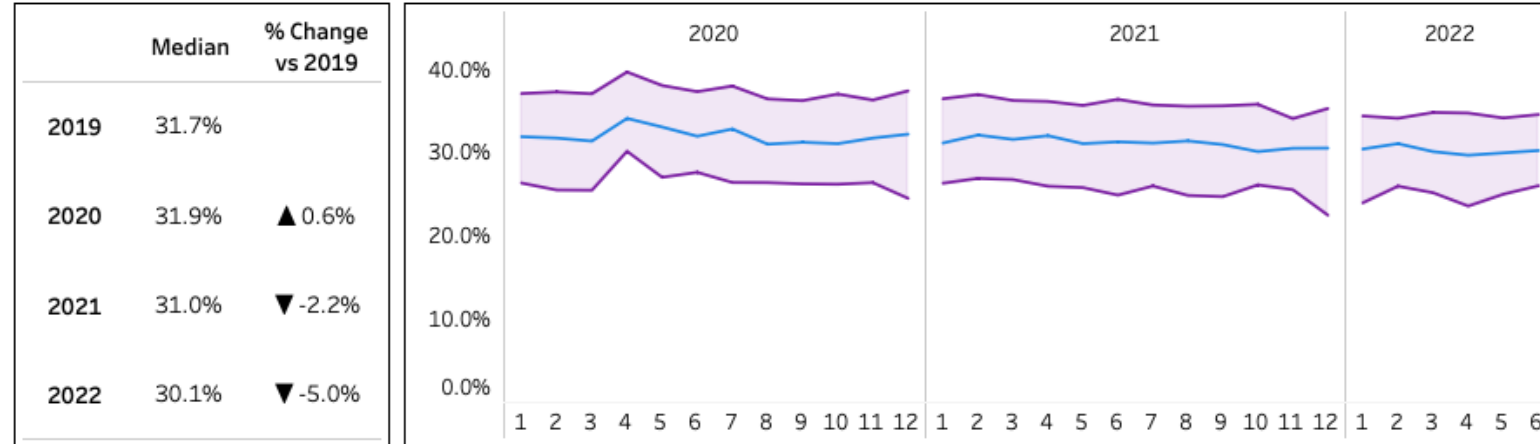


Short Term Acute Care Hospitals Overhead Expense Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

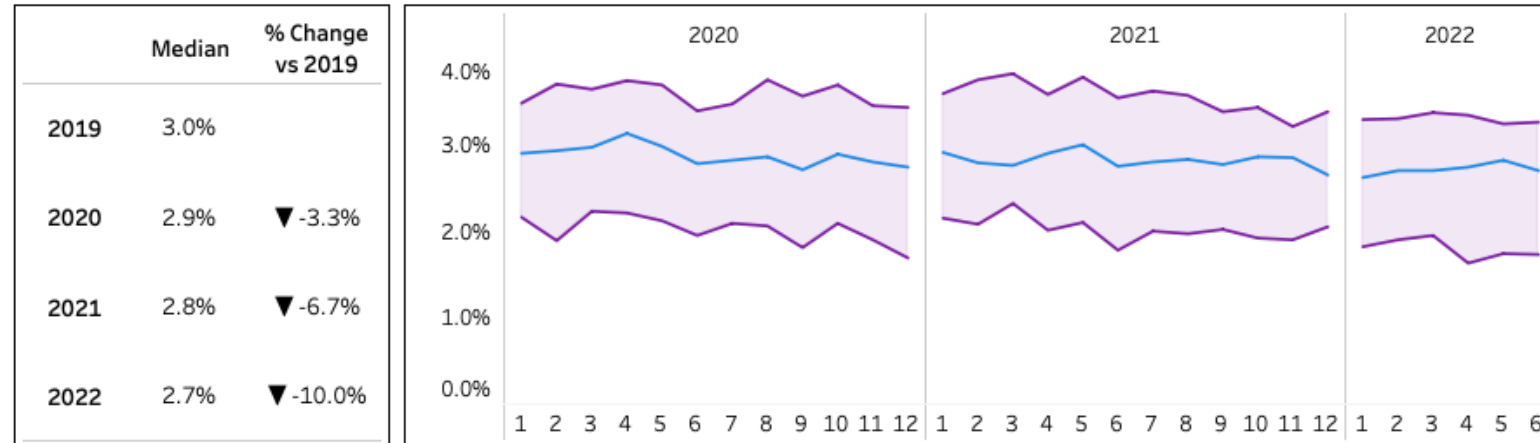
Total Overhead Expense as a % of Total Expense



Overhead expenses as a percentage of total expenses have decreased minimally. This metric could also indicate that overall overhead expenses increased but increased at a slower rate than total expenses. Revenue cycle expenses are a smaller proportion of total expenses in 2022 compared to 2019.

- Reporting data from 66 StrataSphere® health systems.

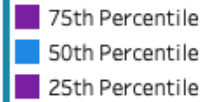
Revenue Cycle as a % of Total Expense



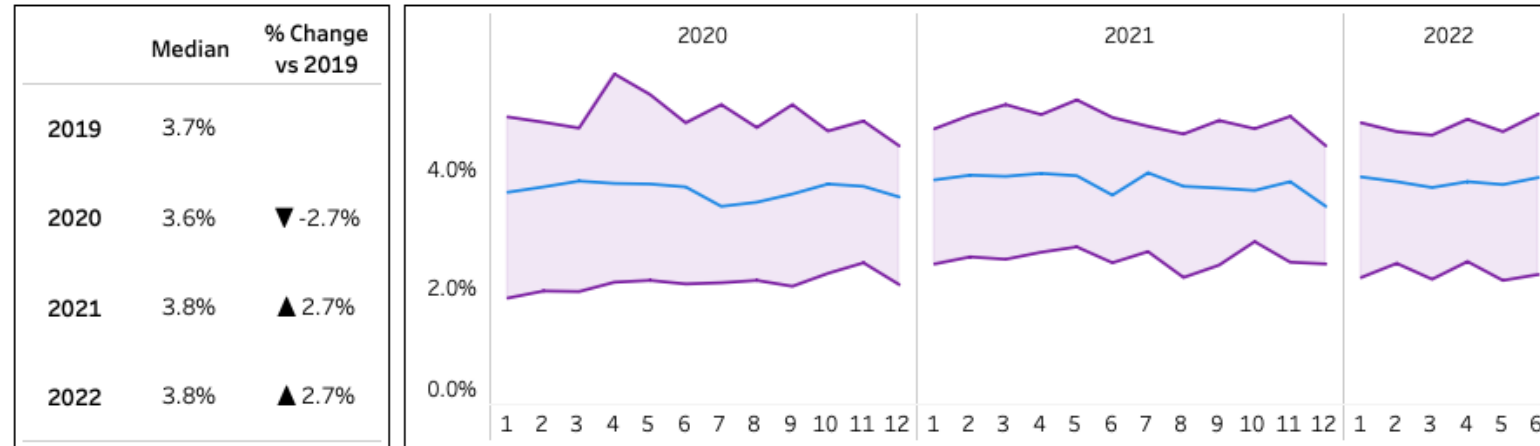
- Participating StrataSphere organizations who are fully implemented in one of the StrataJazz financial planning modules and StrataJazz Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report is closest replicated by using the Health System type filters "Multi Site Health System" and "Single Site Community Hospital" on the Overhead Expense tab.

Short Term Acute Care Hospitals Overhead Expense Metrics

Data as of 2022/06



Information Technology as a % of Total Expense



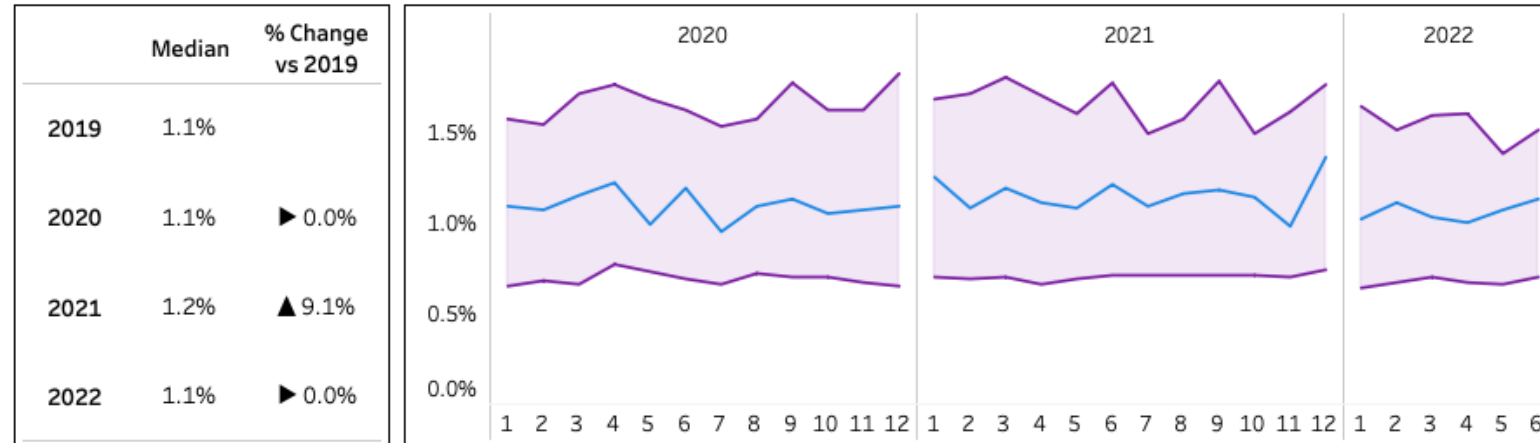
Information technology expenses are a higher proportion of total expenses in 2022, whereas supply chain expenses have remained unchanged.

- Reporting data from 66 StrataSphere® health systems.

- Supply Chain expenses do not include supplies expenses; instead they represent monthly expenses flowing through organization's Supply Chain departments.

- Participating StrataSphere organizations who are fully implemented in one of the StrataJazz financial planning modules and StrataJazz Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report is closest replicated by using the Health System type filters "Multi Site Health System" and "Single Site Community Hospital" on the Overhead Expense tab.

Supply Chain as a % of Total Expense



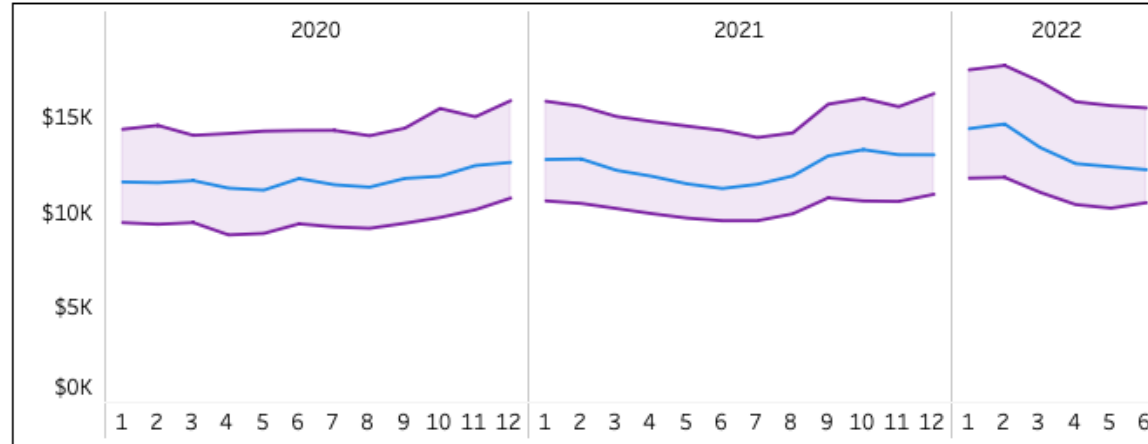
Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$10,187	
2020	\$11,776	▲ 15.6%
2021	\$12,290	▲ 20.6%
2022	\$13,183	▲ 29.4%



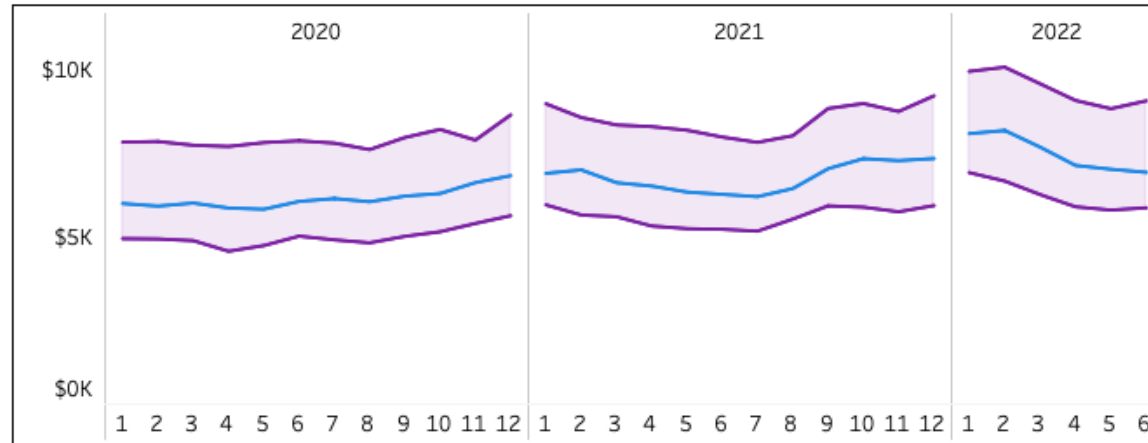
Inpatient costs per encounter are up 29% compared to 2019. Direct costs per encounter are up 36% compared to 2019.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital" and the Patient Type "Inpatient (cost per encounter)" on the Cost Compare Tab.

Inpatient Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$5,527	
2020	\$6,193	▲ 12.1%
2021	\$6,794	▲ 22.9%
2022	\$7,545	▲ 36.5%



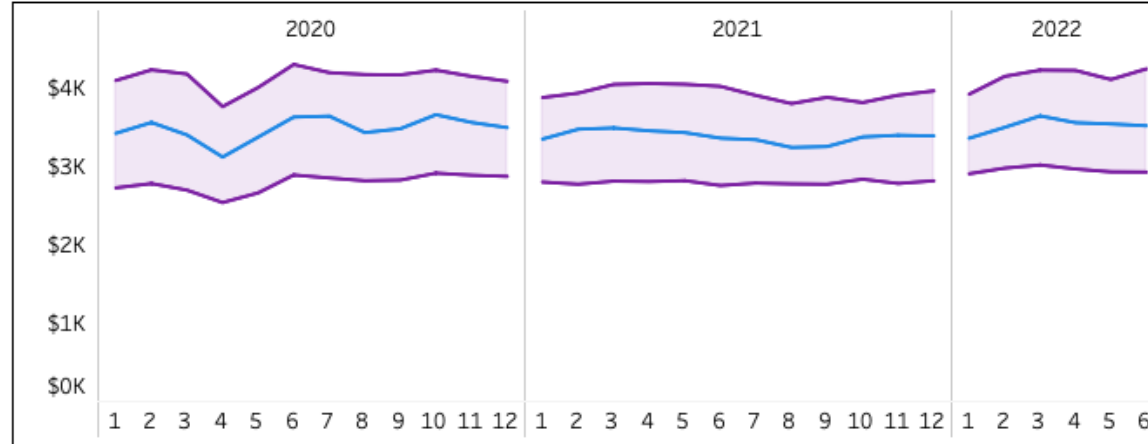
Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

Inpatient Cost per Day - Total

	Median	% Change vs 2019
2019	\$3,180	
2020	\$3,509	▲ 10.3%
2021	\$3,386	▲ 6.5%
2022	\$3,545	▲ 11.5%



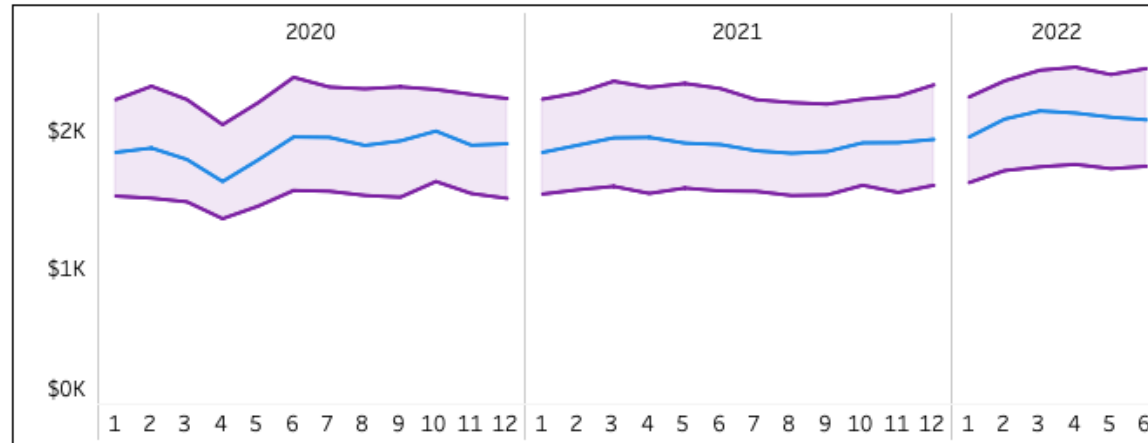
Inpatient costs per day are up 11% compared to 2019. Direct costs per day are up 18% compared to 2019.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital" and the Patient Type "Inpatient (cost per day)" on the Cost Compare Tab.

Inpatient Cost per Day - Direct

	Median	% Change vs 2019
2019	\$1,765	
2020	\$1,859	▲ 5.3%
2021	\$1,934	▲ 9.5%
2022	\$2,082	▲ 17.9%

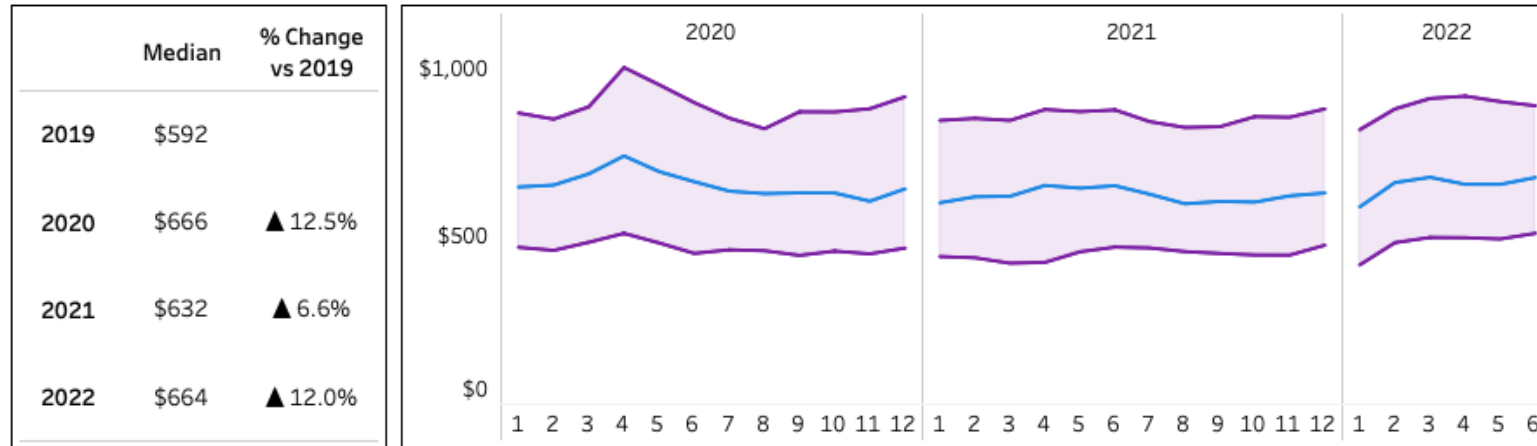


Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

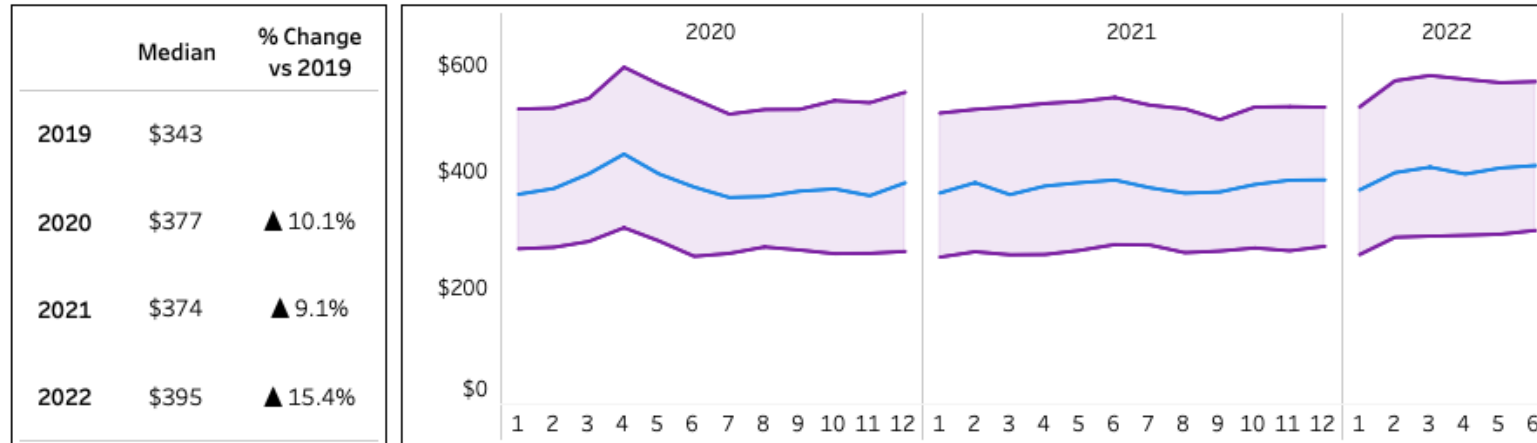
Outpatient Cost per Encounter - Total



Outpatient costs per encounter are up 12% compared to 2019. Direct costs per encounter are up 15% compared to 2019.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

Outpatient Cost per Encounter - Direct



- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital" and the Patient Type "Outpatient (cost per encounter)" on the Cost Compare Tab.

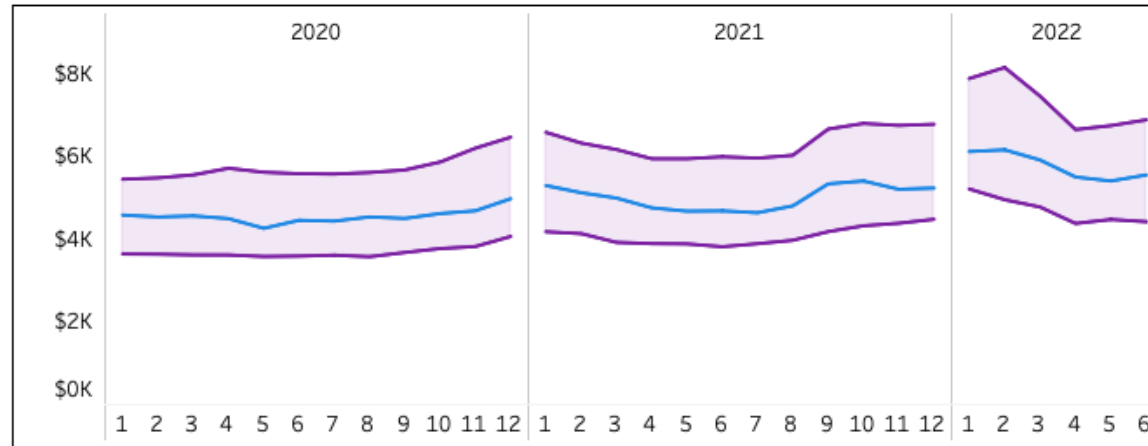
Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Labor Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$3,991	
2020	\$4,587	▲ 14.9%
2021	\$5,080	▲ 27.3%
2022	\$5,828	▲ 46.0%



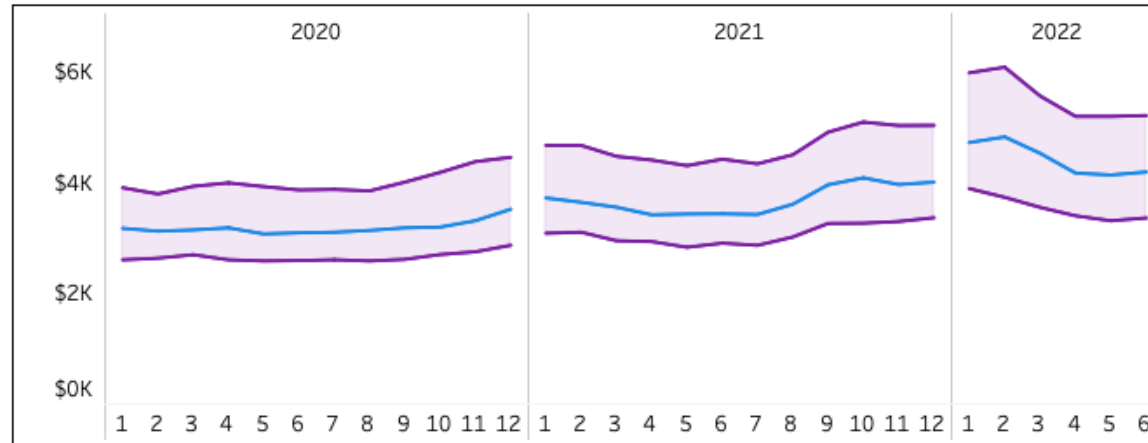
Inpatient labor costs per encounter are up 46% compared to 2019. Direct inpatient labor costs per encounter are up 54% compared to 2019.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital", the Patient Type "Inpatient (cost per encounter)", and "Salaries" for the StrataSphere Cost Component Rollup on the Cost Compare Tab.

Inpatient Labor Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$2,890	
2020	\$3,224	▲ 11.5%
2021	\$3,616	▲ 25.1%
2022	\$4,458	▲ 54.3%



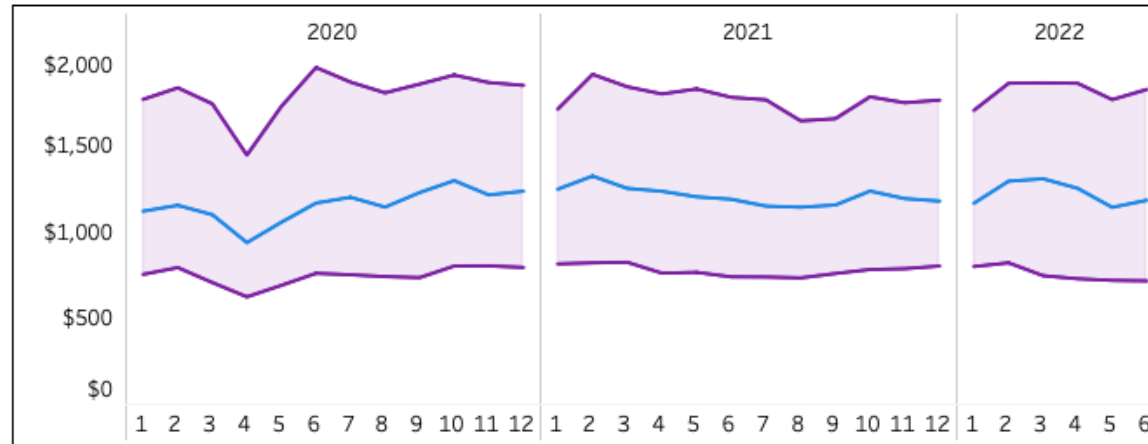
Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Supply Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$1,078	
2020	\$1,163	▲ 7.9%
2021	\$1,185	▲ 10.0%
2022	\$1,235	▲ 14.6%



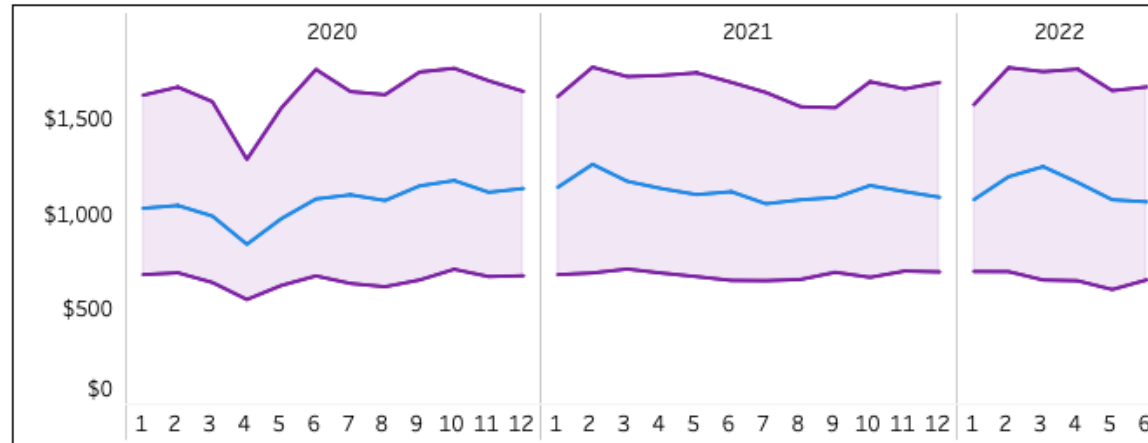
Inpatient supply costs per encounter are up 14% compared to 2019. Direct inpatient supply costs per encounter are up 17% compared to 2019.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital", the Patient Type "Inpatient (cost per encounter)", and "Supplies" + "Implants" for the StrataSphere Cost Component Rollups on the Cost Compare Tab.

Inpatient Supply Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$997	
2020	\$1,058	▲ 6.1%
2021	\$1,140	▲ 14.4%
2022	\$1,165	▲ 16.9%



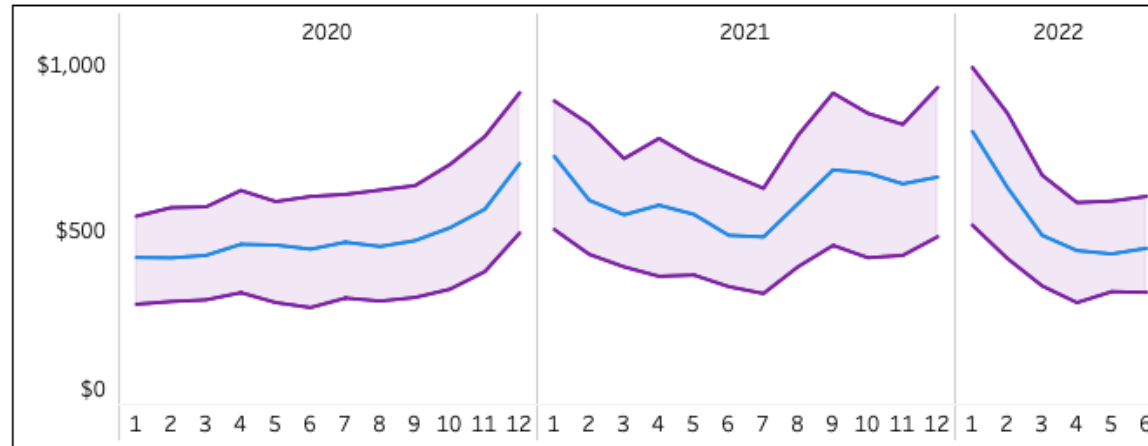
Short Term Acute Care Hospitals Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Drug Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$381	
2020	\$491	▲ 28.7%
2021	\$622	▲ 63.1%
2022	\$555	▲ 45.4%

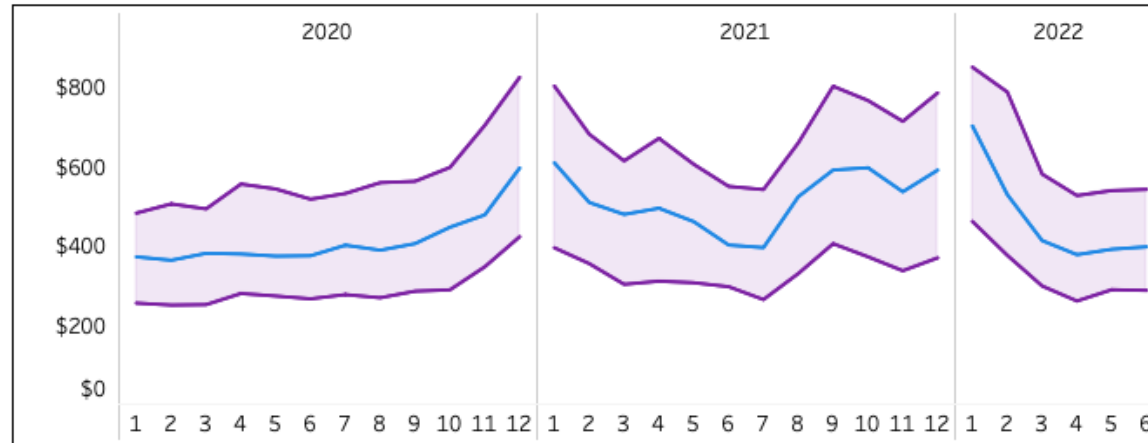


Inpatient drug costs per encounter are up 45% compared to 2019. Direct inpatient drug costs per encounter are up 32% compared to 2019. This is slightly down compared to 2021.

- Reporting data from 45 StrataSphere health systems including 176 Short Term Acute Care Hospitals.

Inpatient Drug Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$355	
2020	\$408	▲ 14.9%
2021	\$521	▲ 46.9%
2022	\$471	▲ 32.7%



- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the Hospital Type filter for "Short Term Acute Care Hospital", the Patient Type "Inpatient (cost per encounter)", and "Drugs" for the StrataSphere Cost Component Rollup on the Cost Compare Tab.



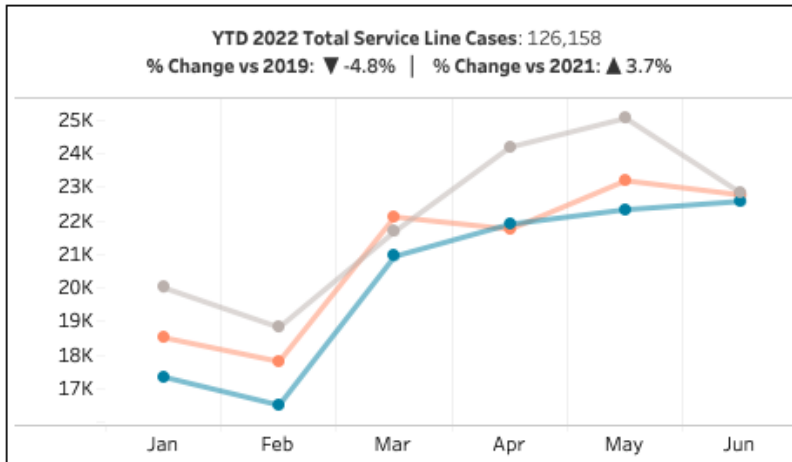
Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

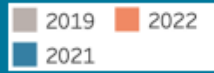
Commentary

This section looks at service line changes by volume to better understand if service lines are operating at the 2019 pre-COVID-19 levels or the 2021 post-COVID-19 levels (2020 volumes were excluded as that year is not comparable). Please note that the y axes of the following charts are scaled to the data and therefore are not consistent between charts. The top five Sg2 CARE Families by 2022 volumes are also shown for each service line to illustrate shifts in specific patient diagnosis groups (blanks may appear in these tables for instances in which 2022 or the comparison year had zero cases). Of note, many service lines are shifting to more outpatient care. This is demonstrated by reviewing the % Change vs 2019 (IP) and % Change vs 2021 (IP) metrics. For example, Cancer volumes are exceeding 2019 volumes, however, inpatient volumes are down compared to 2019. In 2022, Cancer, Genetics, Hematology, Nephrology and Urology have exceeded 2019 volumes. Conversely, Allergy, Burns and Wounds, Dermatology, ENT, General Surgery, Newborns, Obstetrics, Ophthalmology, Pulmonary and Spine have not yet achieved 2019 levels. This data set represents 297 Short Term Acute Care Hospitals.

Allergy and Immunology



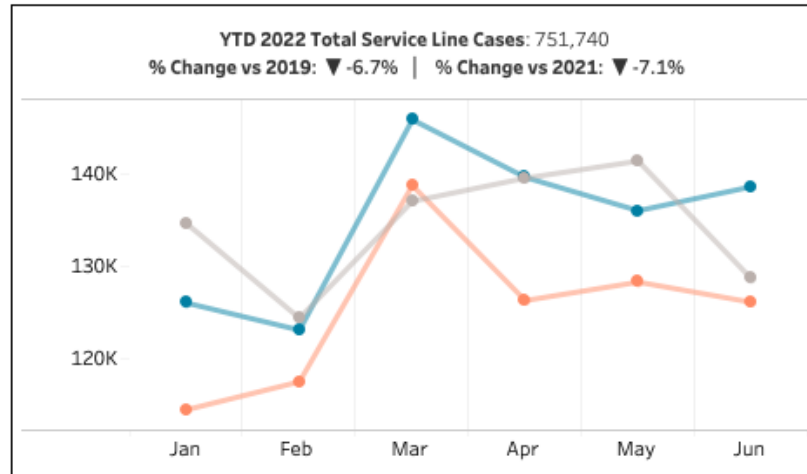
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Allergy	75,117	▼ -18.8%	▲ 1.7%	854	▼ -30.7%	▼ -14.3%
Transplant Aftercare	36,227	▲ 30.8%	▲ 5.4%	649	▲ 55.3%	▲ 11.5%
Immunological Deficiency	14,814	▲ 19.4%	▲ 10.8%	57	▲ 11.8%	▲ 21.3%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

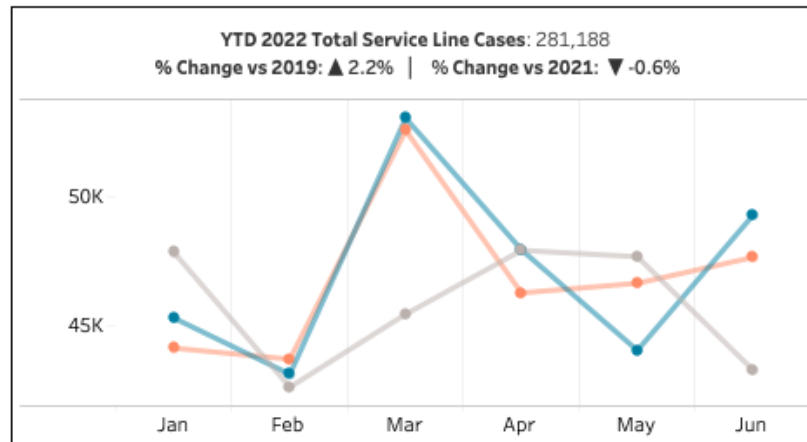
Data as of 6/30/2022

Behavioral Health



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Substance Use Disorders	177,664	▼ -11.9%	▼ -10.2%	18,161	▼ -8.8%	▼ -11.9%
Anxiety and Personality Disorders	135,907	▼ -2.2%	▼ -5.4%	1,880	▼ -16.9%	▼ -11.3%
Mood Disorders Episodic	93,199	▼ -9.7%	▼ -5.4%	6,887	▼ -31.2%	▼ -19.6%
Mood Disorders Persistent	81,141	▼ -7.3%	▼ -8.4%	13,414	▼ -22.9%	▼ -4.5%
Psychosis	71,301	▼ -11.8%	▼ -13.1%	14,197	▼ -7.1%	▼ -9.7%

Breast Health



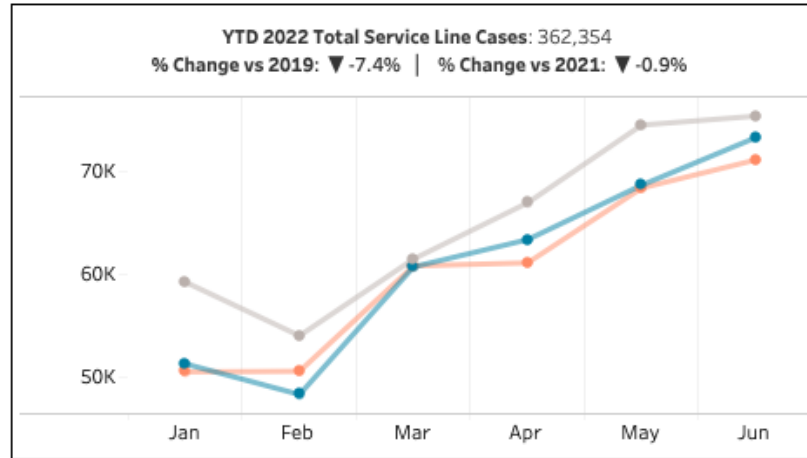
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Breast Conditions - Non-Cancer	281,188	▲ 2.2%	▼ -0.6%	614	▼ -21.2%	▼ -5.1%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

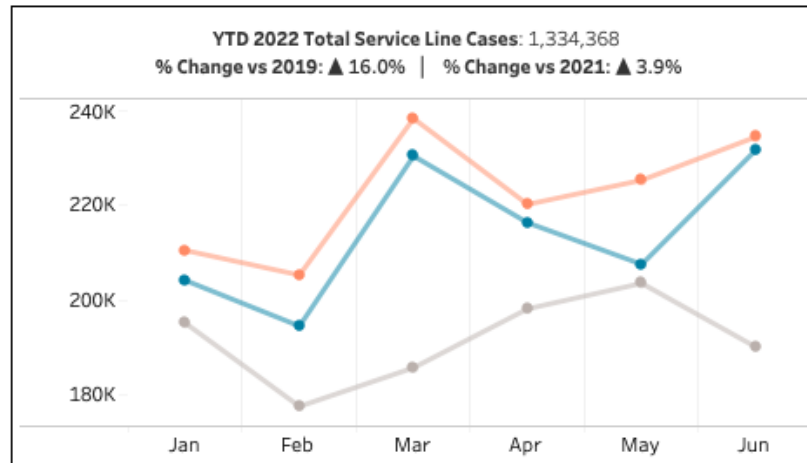
Data as of 6/30/2022

Burns and Wounds



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Open or Superficial Wounds	257,797	▼ -8.2%	▼ -0.6%	1,470	▼ -13.3%	▼ -6.0%
Soft Tissue Ulcers and Gangrene	88,654	▼ -2.4%	▲ 0.0%	2,130	▼ -8.5%	▼ -2.5%
Burns	15,903	▼ -19.0%	▼ -8.9%	329	▼ -10.1%	▼ -13.0%

Cancer



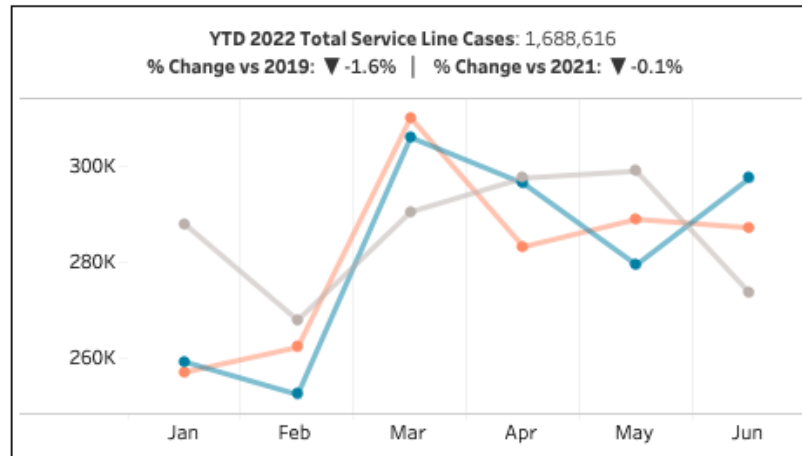
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Breast Cancer	278,520	▲ 18.8%	▲ 6.1%	904	▼ -37.1%	▼ -16.8%
Prostate Cancer	135,145	▲ 20.9%	▲ 8.4%	1,408	▼ -41.4%	▼ -16.3%
Lung Cancer	131,560	▲ 11.2%	▲ 1.4%	5,008	▼ -12.4%	▼ -7.1%
Not Otherwise Classified and Other Cancers	93,461	▲ 26.6%	▲ 6.6%	1,261	▲ 17.2%	▼ -2.7%
Colorectal Cancer	88,712	▲ 19.3%	▲ 5.2%	5,087	▼ -1.4%	▼ -1.0%

2019 2022
2021

Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

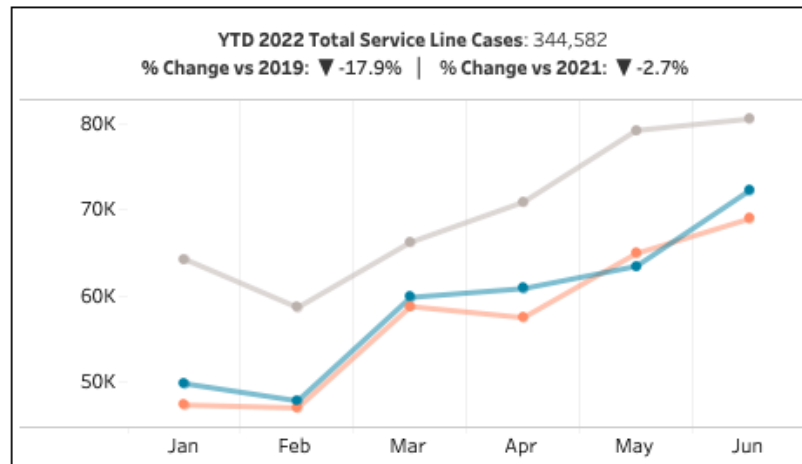
Data as of 6/30/2022

Cardiology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Dysrhythmia	590,995	▼ -0.9%	▼ -1.5%	31,294	▼ -14.8%	▼ -5.4%
Chest Pain - Noncardiac	346,904	▼ -9.2%	▼ -1.9%	4,408	▼ -49.1%	▼ -20.6%
Coronary Heart Disease	255,010	▼ -3.6%	▲ 0.4%	11,489	▼ -18.9%	▼ -9.6%
Congestive Heart Failure	196,884	▲ 5.1%	▲ 0.7%	48,116	▼ -11.2%	▼ -5.1%
Heart Valve Disease	122,155	▲ 9.5%	▲ 8.0%	6,550	▲ 8.9%	▼ -0.1%

Dermatology



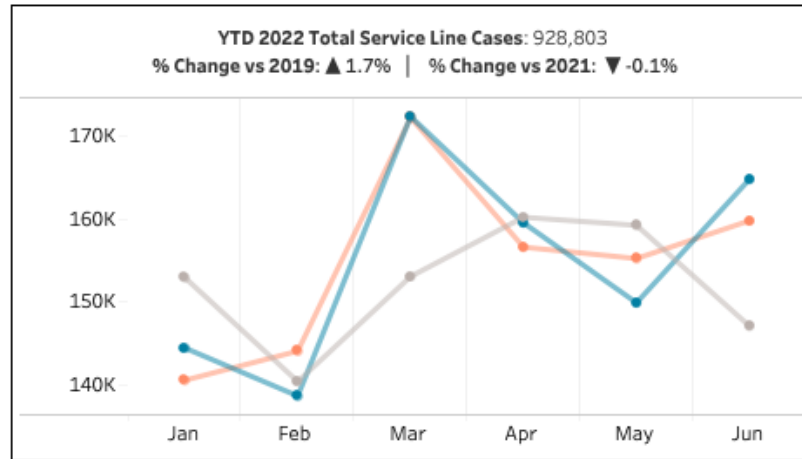
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Skin Infection	158,939	▼ -22.9%	▼ -5.8%	13,428	▼ -33.7%	▼ -13.6%
Dermatitis and Rashes	92,548	▼ -22.1%	▼ -0.4%	290	▼ -34.8%	▼ -3.0%
Dermatologic Disorders	61,031	▲ 1.8%	▼ -0.4%	441	▼ -13.7%	▼ -1.8%
Benign Skin Neoplasms	32,064	▼ -8.0%	▲ 2.7%	63	▼ -35.1%	▼ -14.9%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

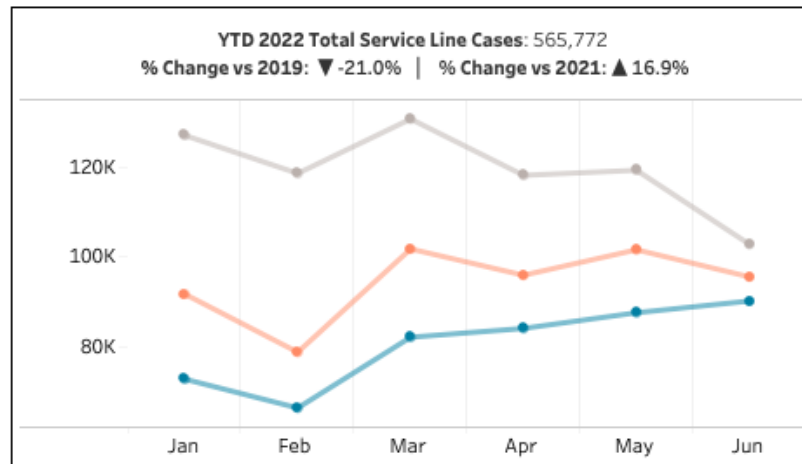
Data as of 6/30/2022

Endocrine



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Diabetes Mellitus	566,119	▲ 0.4%	▼ -0.3%	27,088	▼ -8.8%	▼ -6.2%
Thyroid Disorders	291,285	▲ 1.7%	▼ -0.5%	694	▼ -21.9%	▼ -10.0%
Other Endocrine Disorders	71,399	▲ 13.0%	▲ 2.6%	3,778	▲ 7.6%	▲ 1.5%

ENT



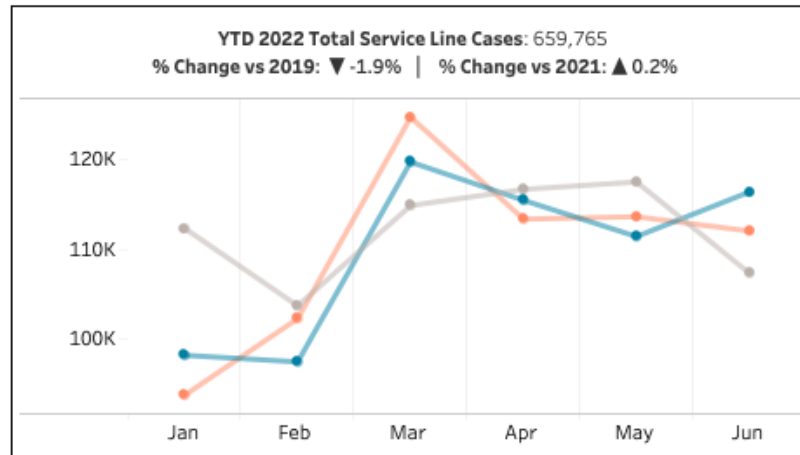
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Tonsillitis	161,470	▼ -32.0%	▲ 25.6%	266	▼ -48.6%	▼ -5.7%
Dizziness	118,025	▼ -0.4%	▲ 0.7%	1,425	▼ -23.8%	▼ -6.8%
Acute Otitis Media and Sinusitis	85,939	▼ -39.8%	▲ 59.6%	146	▼ -45.1%	▲ 32.7%
Chronic Otitis Media and Sinusitis	62,621	▼ -5.2%	▲ 13.6%	200	▼ -24.0%	▲ 22.7%
Other Ear Disease	51,730	▼ -11.2%	▲ 6.4%	143	▼ -27.4%	▲ 3.6%

2019 2022
2021

Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

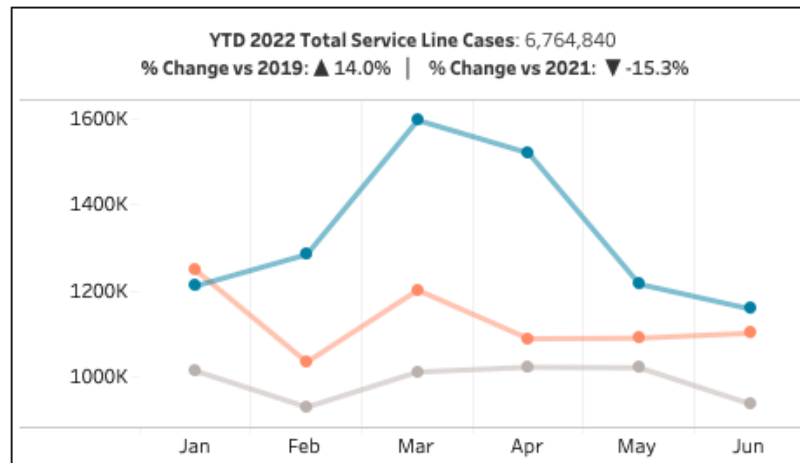
Data as of 6/30/2022

Gastroenterology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Other Gastrointestinal Diagnosis	157,861	▲ 6.3%	▲ 3.0%	5,852	▼ -5.7%	▼ -8.7%
Esophageal Disease Including GERD	156,143	▼ -2.9%	▼ -3.3%	4,204	▼ -3.5%	▼ -8.9%
Inflammatory Bowel Disease	117,205	▼ -3.0%	▲ 8.4%	6,736	▼ -19.6%	▼ -7.2%
Diseases of the Anus/Rectum	58,745	▼ -3.9%	▼ -1.3%	3,083	▼ -16.2%	▼ -5.7%
Gastritis and Gastroduodenal Ulcer	53,500	▼ -12.6%	▼ -6.7%	4,154	▼ -16.7%	▼ -13.3%

General Medicine



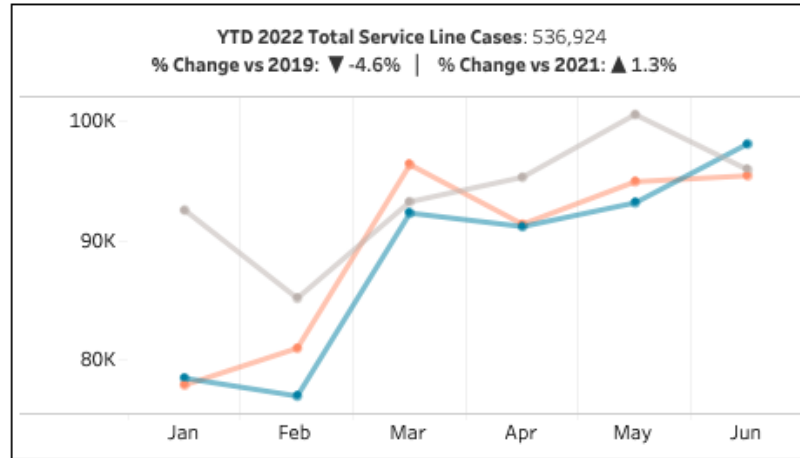
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Screenings and Follow-Up Encounters	3,091,855	▲ 44.9%	▼ -31.2%	389	▼ -16.5%	▼ -50.9%
Nonspecific Clinical and Laboratory Findings	490,253	▲ 5.6%	▲ 13.4%	877	▼ -41.2%	▼ -5.5%
Hypertension	472,451	▲ 1.2%	▼ -0.1%	5,884	▼ -13.7%	▼ -6.3%
Preventative Wellness Visits	456,246	▲ 7.0%	▼ -0.2%	3	▼ -91.4%	▲ 50.0%
Abdominal Pain	450,242	▼ -9.9%	▼ -0.6%	2,320	▼ -44.0%	▼ -19.6%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

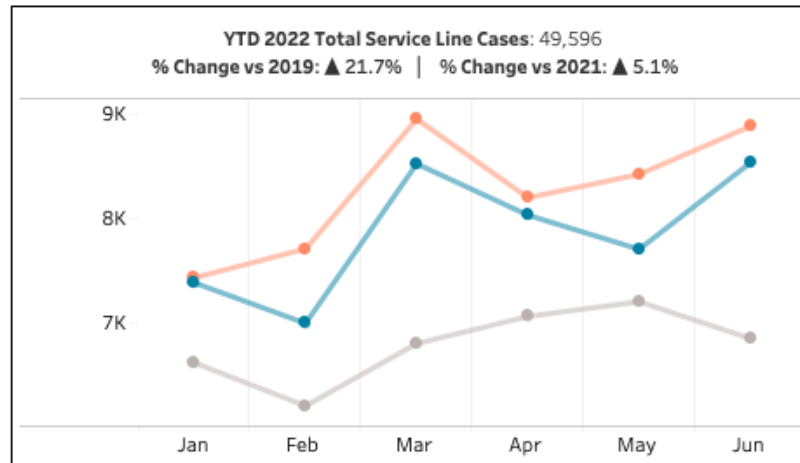
Data as of 6/30/2022

General Surgery



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Complications of Surgery Device Implant or Graft - Surgery	100,112	▲ 0.8%	▲ 1.9%	23,473	▲ 1.4%	▲ 0.5%
Blunt or Penetrating Injury	95,213	▼ -11.1%	▲ 5.4%	4,759	▲ 4.3%	▼ -4.0%
Biliary Disease including Cholecystitis	84,270	▼ -4.3%	▼ -0.4%	11,306	▼ -19.7%	▼ -7.1%
Intestinal Obstruction and Diverticular Disease	71,045	▼ -7.5%	▼ -2.5%	24,862	▼ -13.7%	▼ -7.3%
Hernia	69,213	▲ 0.5%	▲ 2.4%	4,335	▼ -18.8%	▼ -7.0%

Genetics



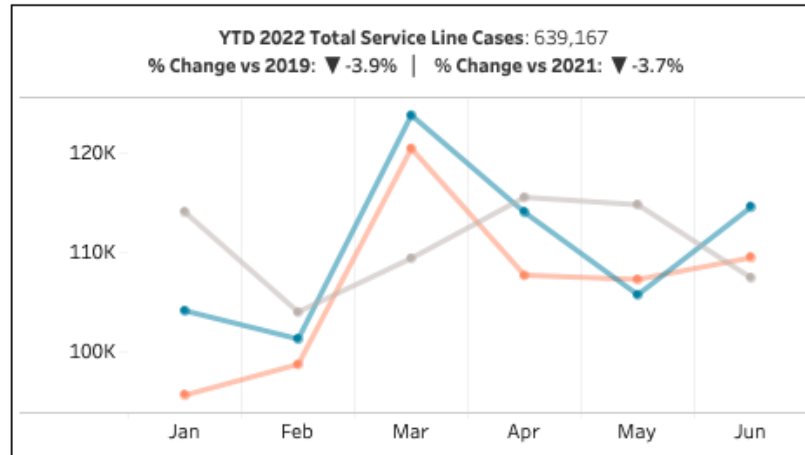
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Inborn Errors of Metabolism	36,568	▲ 16.8%	▲ 3.8%	551	▲ 7.8%	▼ -11.7%
Genetic Syndromes	13,028	▲ 37.9%	▲ 9.0%	167	▲ 10.6%	▼ -5.6%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

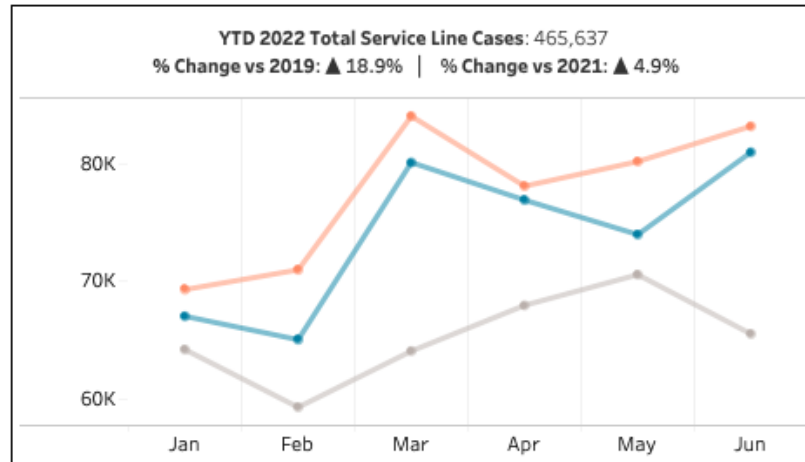
Data as of 6/30/2022

Gynecology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Gynecologic Wellness and Screening	219,634	▼ -11.0%	▼ -9.5%	0		
Benign Gynecologic Neoplasms	168,266	▼ -4.9%	▼ -1.4%	3,956	▼ -27.8%	▼ -14.0%
Gynecologic Hormonal Disorders	121,565	▲ 6.3%	▲ 0.3%	152	▼ -41.3%	▼ -20.4%
Pelvic Floor Disorders	59,407	▲ 24.0%	▲ 9.7%	605	▼ -32.3%	▼ -6.3%
Gynecologic Infectious Disease	37,611	▼ -16.5%	▼ -8.7%	713	▼ -21.4%	▼ -16.3%

Hematology



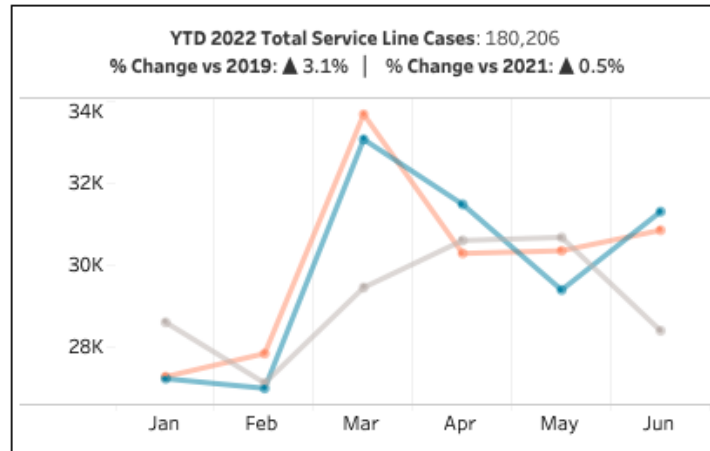
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Anemia	262,689	▲ 18.1%	▲ 5.4%	6,011	▼ -20.2%	▼ -10.0%
Other Hematologic Disorders	189,652	▲ 22.3%	▲ 4.6%	5,160	▼ -9.6%	▼ -1.7%
Disorders of Hemoglobin Including Sickle Cell	13,296	▼ -4.5%	▼ -1.6%	2,104	▼ -18.1%	▲ 1.1%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

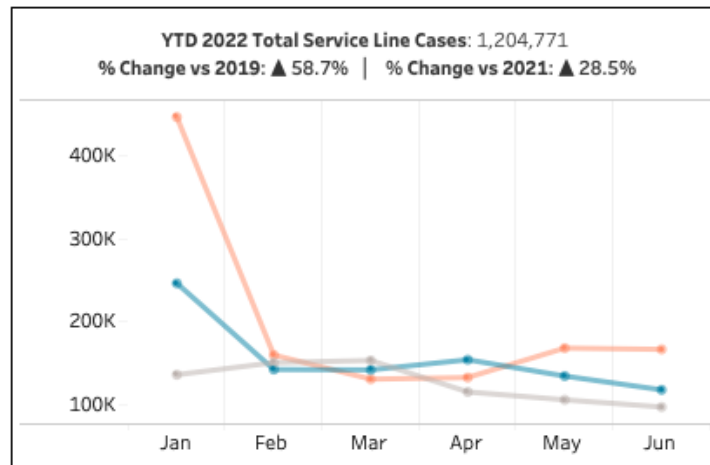
Data as of 6/30/2022

Hepatology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Liver Disease Noninfective	80,213	▼ -2.7%	▼ -1.3%	2,106	▼ -7.8%	▼ -15.3%
Advanced Liver Disease	54,304	▲ 20.7%	▲ 3.5%	8,165	▲ 8.3%	▼ -2.6%
Fatty Liver Disease	29,802	▲ 35.5%	▲ 10.6%	191	▼ -8.2%	▼ -14.0%
Hepatitis	15,887	▼ -37.3%	▼ -14.8%	266	▼ -66.2%	▼ -41.3%

Infectious Disease



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
COVID-19 Infection	593,947	▲ 1448551.2%	▲ 77.0%	90,374	▲ 9037300.0%	▲ 6.8%
Other Infectious and Parasitic Diseases	221,191	▲ 0.0%	▼ -16.8%	2,490	▼ -40.4%	▼ -6.8%
Septicemia	100,201	▼ -9.0%	▲ 1.0%	84,819	▼ -11.7%	▲ 1.4%
Gastroenteritis and Intestinal Infections	86,816	▼ -12.2%	▲ 14.0%	3,425	▼ -26.9%	▲ 17.9%
Pneumonia Including Aspiration Pneumonia	75,573	▼ -38.5%	▲ 17.2%	26,983	▼ -37.1%	▲ 14.7%

2019 2022
2021

Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

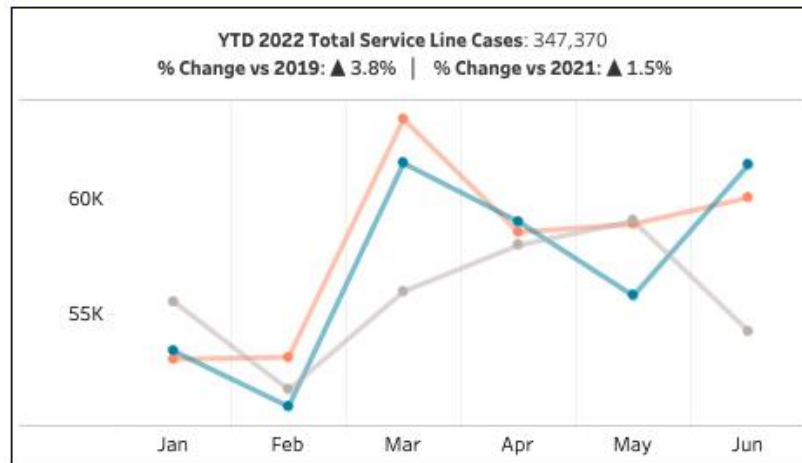
Data as of 6/30/2022

Neonatology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Prematurity (32-36 weeks gestation) and SGA	13,080	▲ 8.8%	▲ 0.2%	1,041	▼ -13.0%	▼ -8.4%
Neonate with Respiratory Condition	11,768	▲ 3.5%	▼ -3.8%	2,696	▼ -0.5%	▼ -1.4%
Neonate with Metabolic Condition	8,278	▲ 2.1%	▼ -4.0%	579	▼ -24.0%	▼ -11.1%
Neonatal Conditions - Other	7,066	▲ 8.2%	▲ 8.7%	380	▲ 6.7%	▲ 9.5%
Neonate Affected by Maternal Condition, Including NAS	4,682	▼ -1.0%	▼ -5.8%	127	▼ -20.1%	▼ -5.9%

Nephrology



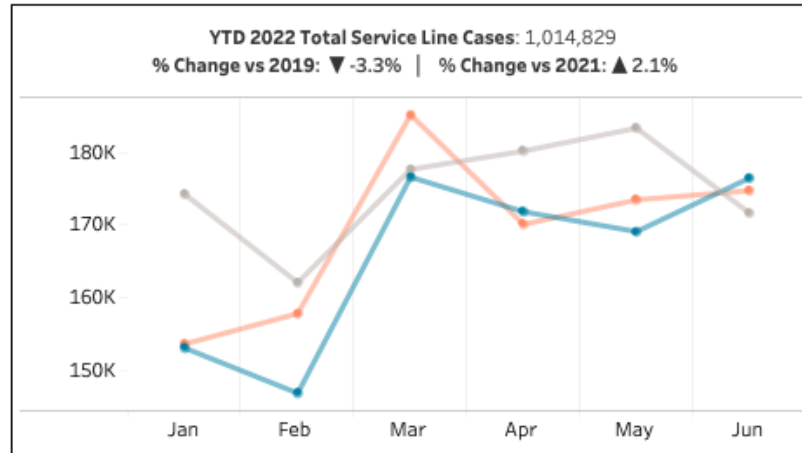
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Chronic Kidney Disease	182,152	▲ 15.7%	▲ 6.0%	742	▼ -21.6%	▼ -7.0%
Acute Kidney Injury and Nephritis	76,518	▼ -7.0%	▼ -1.5%	553	▼ -32.0%	▼ -11.0%
Acute Renal Failure	45,289	▼ -3.4%	▼ -1.9%	20,776	▼ -19.2%	▼ -4.2%
End Stage Renal Disease	43,411	▼ -9.8%	▼ -7.1%	5,821	▼ -11.7%	▼ -6.2%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

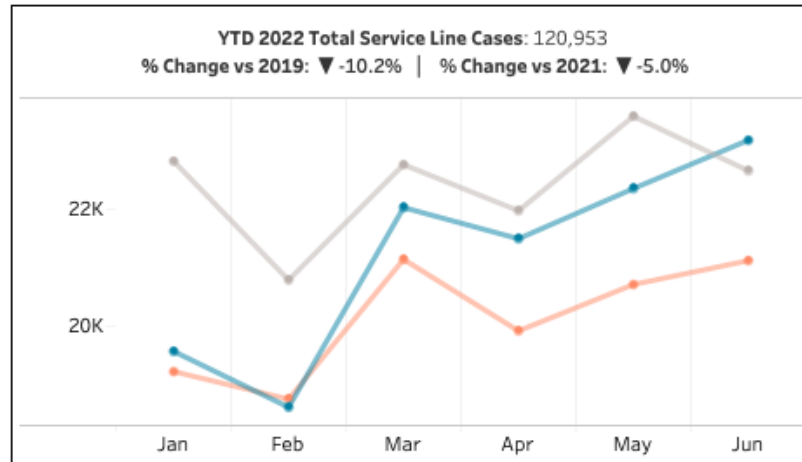
Data as of 6/30/2022

Neurosciences



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Headache/Migraine	171,132	▼ -15.3%	▼ -1.9%	1,511	▼ -34.5%	▼ -1.8%
Neuropathy and Pain Conditions	107,513	▼ -1.3%	▲ 4.8%	1,927	▼ -7.7%	▼ -6.5%
Concussion and Unspecified Head Injury	85,965	▼ -7.5%	▲ 14.4%	592	▼ -31.7%	▼ -12.3%
Epilepsy and Seizure Disorders	80,258	▼ -8.7%	▲ 0.3%	7,687	▼ -14.3%	▼ -6.1%
Neurologic Disease - Other	79,454	▲ 9.8%	▲ 0.6%	1,065	▼ -16.2%	▼ -3.3%

Normal Newborn



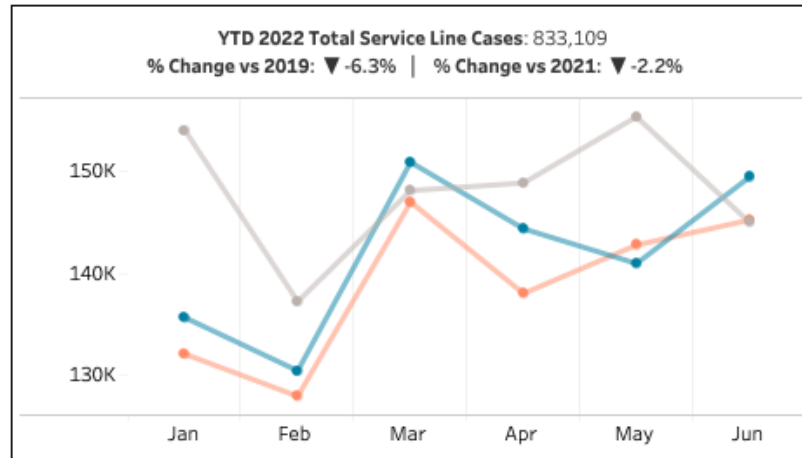
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Liveborn	98,079	▼ -10.0%	▼ -4.9%	918	▼ -10.8%	▼ -0.2%
Perinatal Jaundice	22,874	▼ -10.8%	▼ -5.5%	912	▼ -11.4%	▼ -5.7%

2019 2022
2021

Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

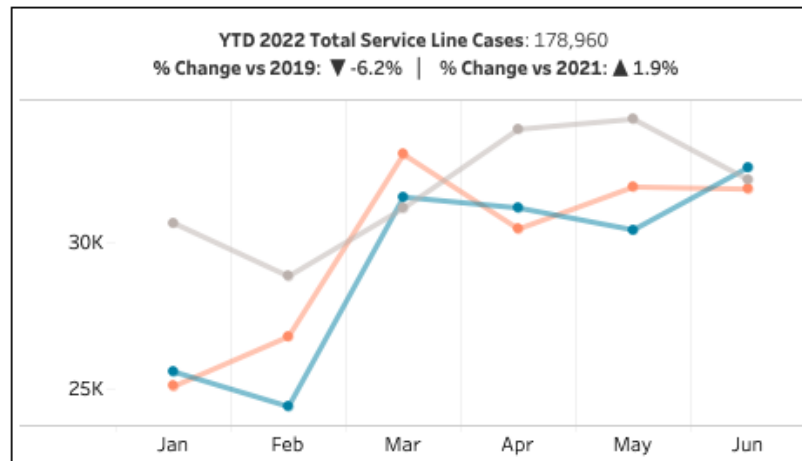
Data as of 6/30/2022

Obstetrics



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Normal Pregnancy/Delivery	395,800	▼ -6.6%	▼ -2.8%	54,436	▼ -10.7%	▼ -1.4%
Antepartum Conditions and High Risk Pregnancy	277,582	▼ -1.5%	▼ -0.4%	58,732	▲ 10.4%	▲ 0.0%
Early Pregnancy w/ Complication or Abortive Outcome	80,763	▲ 1.5%	▲ 0.0%	1,540	▼ -20.8%	▼ -7.6%
Complications of Labor Delivery or Postpartum Period	58,711	▼ -36.0%	▼ -8.3%	32,849	▼ -25.3%	▼ -8.9%
Infertility	20,253	▲ 68.8%	▼ -3.3%	8	▲ 33.3%	▼ -42.9%

Ophthalmology



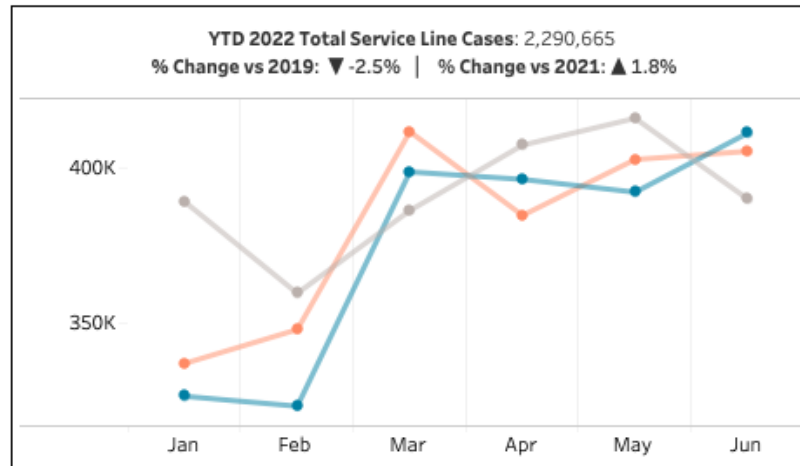
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Cataract	61,434	▼ -8.3%	▲ 1.3%	8	▲ 14.3%	▲ 60.0%
Eye and Vision Conditions	56,743	▼ -9.1%	▲ 1.8%	749	▼ -6.4%	▲ 0.1%
Retinal Conditions	31,564	▲ 13.1%	▲ 8.3%	175	▲ 24.1%	▼ -5.4%
Corneal Conditions	17,537	▼ -14.8%	▼ -4.0%	31	▼ -3.1%	▼ -6.1%
Glaucoma	11,682	▼ -9.1%	▼ -1.4%	16	▼ -27.3%	▼ -15.8%

2019 2022
2021

Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

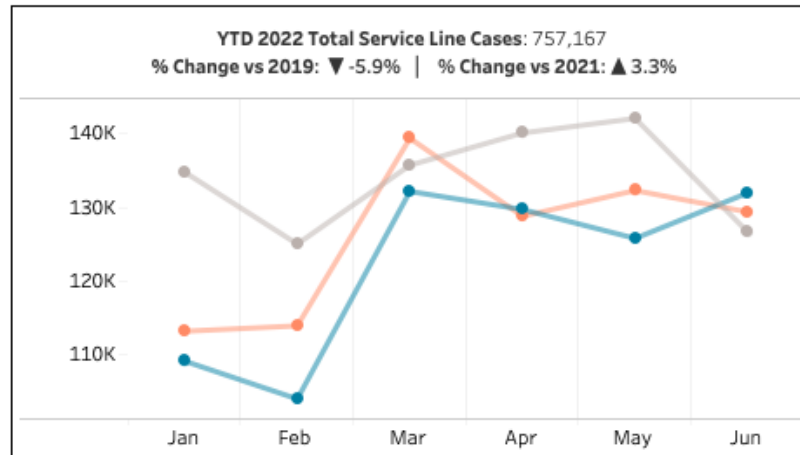
Data as of 6/30/2022

Orthopedics



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Musculoskeletal Injury - Shoulder/Elbow/Upper Arm	389,260	▼ -3.7%	▼ -1.2%	3,435	▼ -35.6%	▼ -11.8%
Musculoskeletal Injury - Lower Leg/Foot/Ankle	305,473	▼ -6.7%	▲ 1.3%	6,361	▼ -15.7%	▼ -7.4%
Musculoskeletal Injury - Knee	301,276	▼ -6.5%	▲ 1.7%	1,160	▼ -22.3%	▼ -4.1%
Osteoarthritis	291,979	▲ 4.4%	▲ 6.7%	11,128	▼ -80.0%	▼ -39.0%
Musculoskeletal Injury - Hand/Wrist/Forearm	270,059	▼ -6.6%	▲ 1.0%	1,774	▼ -8.7%	▼ -4.4%

Pulmonology



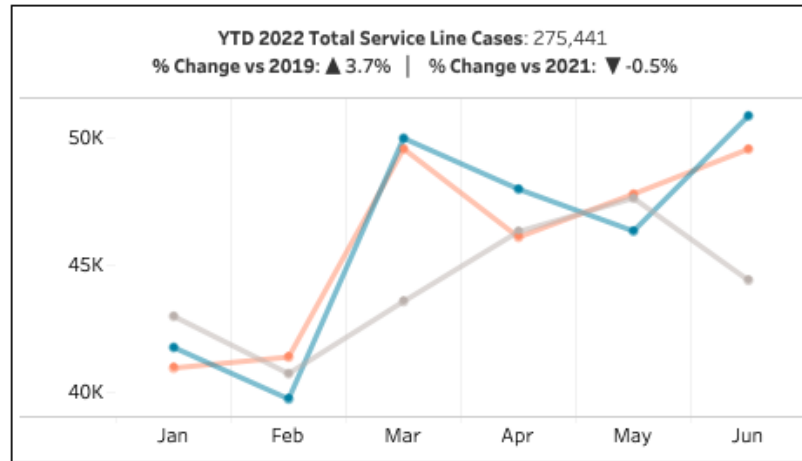
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Respiratory Conditions including Pleural Effusions	346,132	▲ 5.8%	▲ 0.6%	6,120	▼ -34.7%	▼ -10.4%
Chronic Obstructive Pulmonary Disease	115,496	▼ -26.6%	▲ 4.3%	13,914	▼ -49.8%	▼ -2.6%
Sleep Apnea	115,401	▲ 3.1%	▲ 3.5%	108	▼ -25.0%	▲ 38.5%
Asthma	90,431	▼ -20.2%	▲ 10.2%	3,546	▼ -40.8%	▲ 13.0%
Acute Respiratory Failure	35,090	▼ -21.7%	▲ 3.6%	17,116	▼ -37.2%	▼ -1.5%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

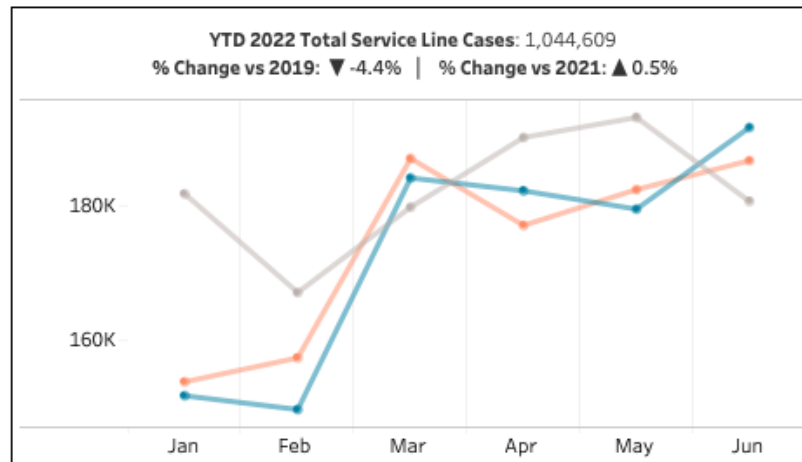
Data as of 6/30/2022

Rheumatology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Other Connective Tissue Disorders	101,666	▲ 3.7%	▼ -0.7%	682	▼ -11.5%	▼ -4.9%
Inflammatory and Autoimmune Diseases	96,481	▲ 1.5%	▲ 0.3%	1,235	▼ -28.4%	▼ -12.6%
Rheumatoid Arthritis	68,438	▲ 6.7%	▼ -0.8%	225	▼ -33.2%	▼ -6.6%
Vasculitis	8,856	▲ 4.9%	▼ -4.2%	415	▼ -11.7%	▼ -12.3%

Spine



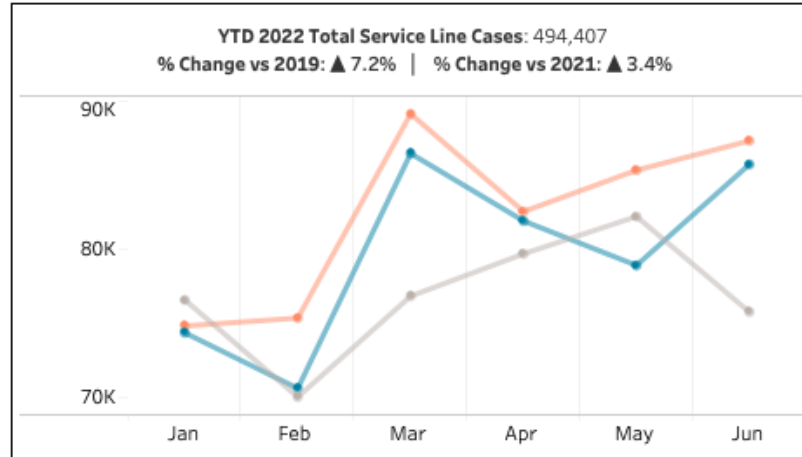
CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Nonspecific Back and Neck Pain	639,820	▼ -7.3%	▲ 0.0%	1,533	▼ -36.3%	▼ -6.4%
Degenerative Spine and Disc Injury	331,881	▲ 0.3%	▲ 1.1%	15,586	▼ -21.8%	▲ 0.8%
Spinal Fracture or Dislocation	40,467	▲ 5.6%	▲ 3.6%	6,217	▼ -1.2%	▼ -0.8%
Deformities and Curvature of Spine	14,715	▼ -11.8%	▼ -6.5%	336	▼ -14.5%	▼ -11.1%
Complication of Device Implant or Graft - Spine	9,412	▼ -9.1%	▲ 1.0%	708	▼ -12.4%	▼ -4.5%



Short Term Acute Care Hospitals Service Line and CARE Family Volume Tracker

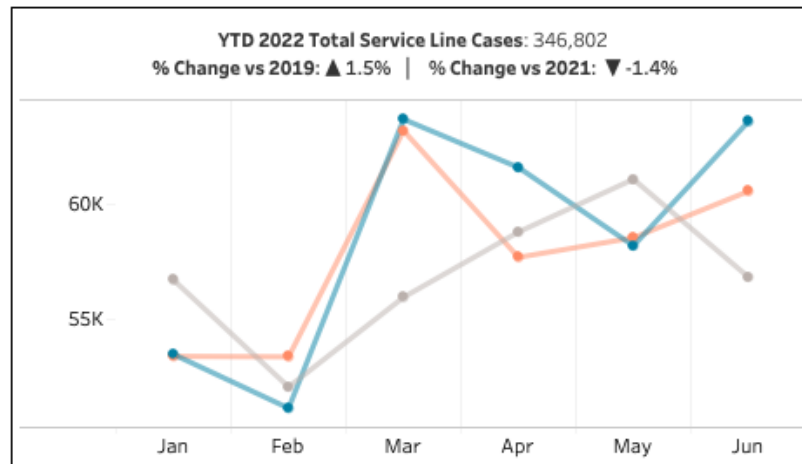
Data as of 6/30/2022

Urology



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Other Kidney Bladder and Genitourinary Disease	156,955	▲ 9.8%	▲ 2.9%	2,826	▼ -18.1%	▼ -10.8%
Urinary Calculus	154,591	▼ -0.2%	▲ 0.8%	3,276	▼ -20.7%	▼ -9.4%
Incontinence	89,624	▲ 10.2%	▲ 6.4%	193	▼ -31.3%	▼ -19.6%
Benign Prostatic Hyperplasia	53,101	▲ 14.8%	▲ 7.7%	1,028	▼ -8.6%	▼ -2.2%
Mens Reproductive Health	31,798	▲ 16.9%	▲ 6.1%	33	▼ -13.2%	▲ 3.1%

Vascular



CARE Family*	2022 Cases	% Change vs 2019	% Change vs 2021	2022 Cases (IP)	% Change vs 2019 (IP)	% Change vs 2021 (IP)
Peripheral Vascular Disease	105,251	▲ 2.5%	▲ 1.8%	4,418	▼ -10.3%	▼ -7.3%
Disease of Venous System (Varicose Veins Phlebitis Hemorrhoids)	105,243	▲ 9.1%	▼ -1.4%	692	▼ -14.4%	▼ -12.4%
Venous Thromboembolism	79,365	▼ -6.5%	▼ -5.8%	10,269	▼ -15.5%	▼ -11.8%
Aneurysms	39,681	▲ 8.7%	▲ 4.6%	2,778	▼ -6.3%	▼ -0.4%
Complications of Surgery Device Implant or Graft - Vascular	13,759	▼ -19.5%	▼ -11.5%	2,438	▼ -6.6%	▼ -3.8%

StrataSphere® Research Report

Academic Medical Centers

National Patient and Procedure Volume Tracker – Volume Data

Financial KPI Metrics

Labor Expense Metrics

Overhead Expense Metrics

Cost Metrics

Service Line and CARE Family Volume Tracker

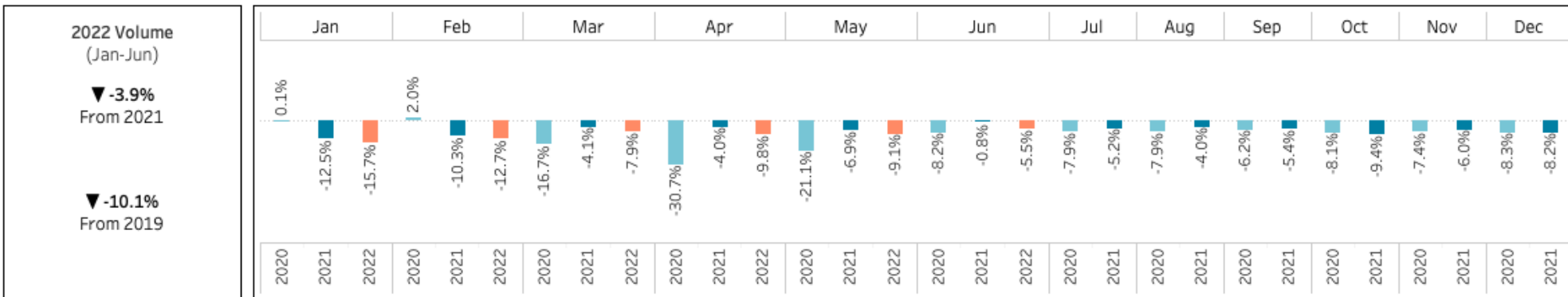


Academic Medical Centers Monthly Volume Changes Compared to 2019

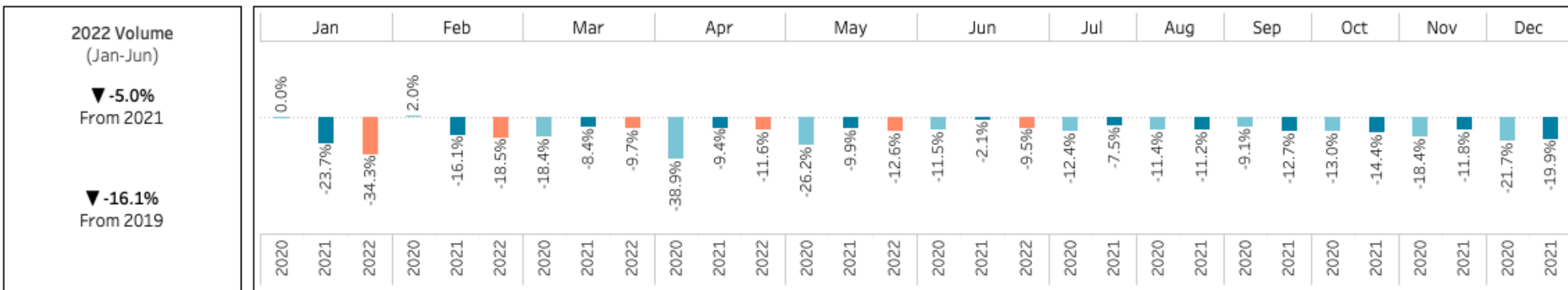
Data as of 6/30/2022

Inpatient volumes have yet to exceed pre-COVID-19 levels. In 2022, inpatient volumes have been down 5-16% compared to 2019. If COVID-19 admissions are excluded, the inpatient volumes are even lower compared to pre-COVID-19 levels. This data set represents 50 Academic Medical Centers.

Inpatient Admissions (Including COVID-19)



Inpatient Admissions (Excluding COVID-19)



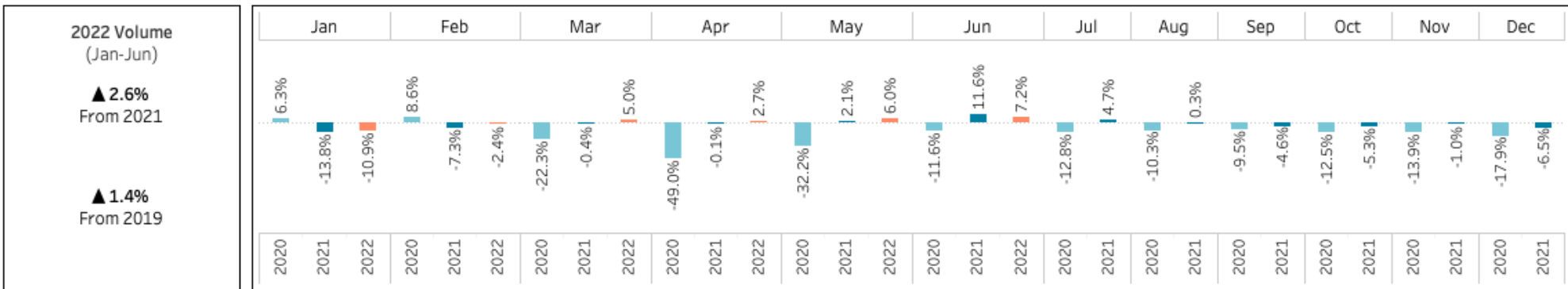
Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support receive a version of this report with their organization's data compared to the regional and national data set. This client-specific report is distributed quarterly by an email from Peter Tzioumis. If you would like a copy of your organization's report, please contact your Strata Team to be added to the distribution list.

Academic Medical Centers Monthly Volume Changes Compared to 2019

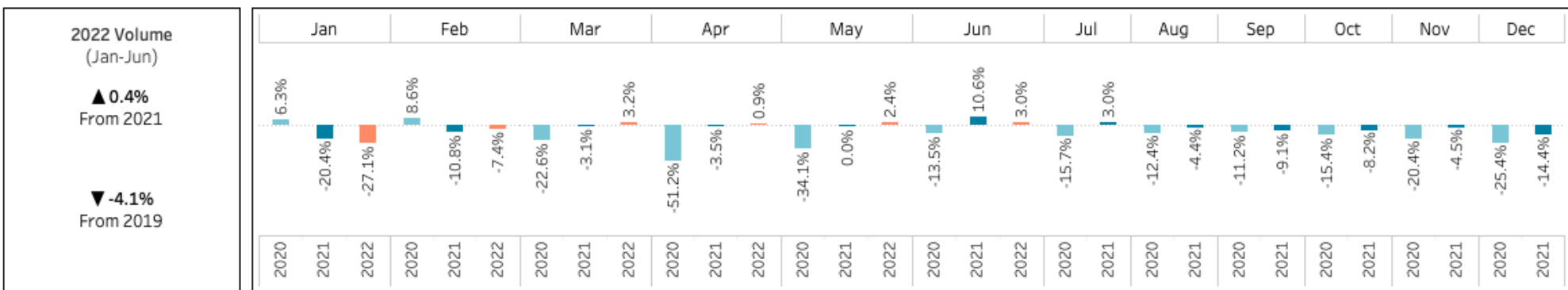
Data as of 6/30/2022

Observation visits in 2022 are starting to exceed pre-COVID-19 levels. In 2021, the only time observation visits exceeded 2019 levels was May - August when COVID-19 incidence were at their lowest. This data set represents 50 Academic Medical Centers.

Observation Visits (Including COVID-19)



Observation Visits (Excluding COVID-19)



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Academic Medical Centers Monthly Volume Changes Compared to 2019

Data as of 6/30/2022

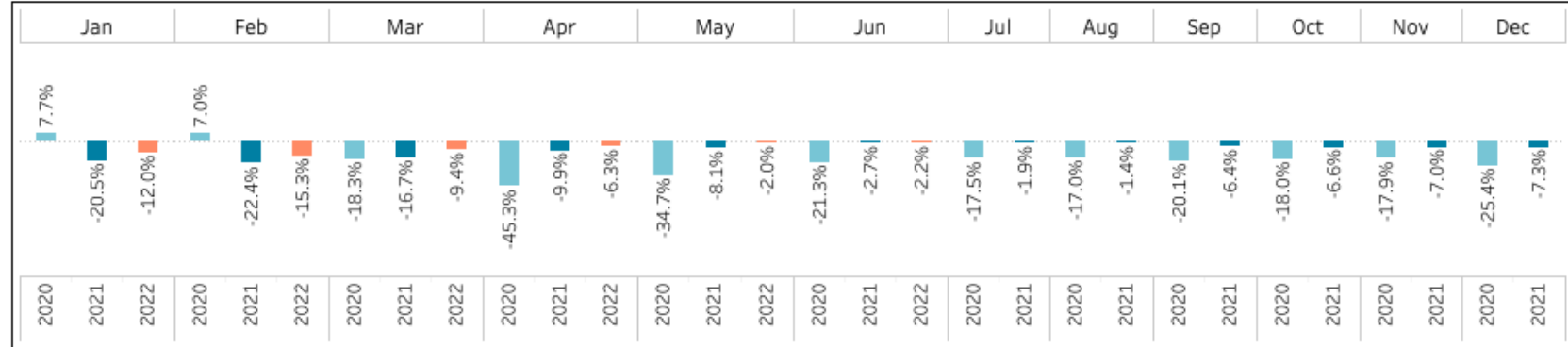
Emergency volumes have yet to exceed pre-COVID-19 levels. In 2022, emergency volumes have been down 2-15% compared to 2019. If COVID-19 encounters are excluded, the emergency volumes are even lower compared to pre-COVID-19 levels. This data set represents 48 Academic Medical Centers.

Emergency Visits (Including COVID-19)

2022 Volume
(Jan-Jun)

▲ 6.4%
From 2021

▼ -7.8%
From 2019

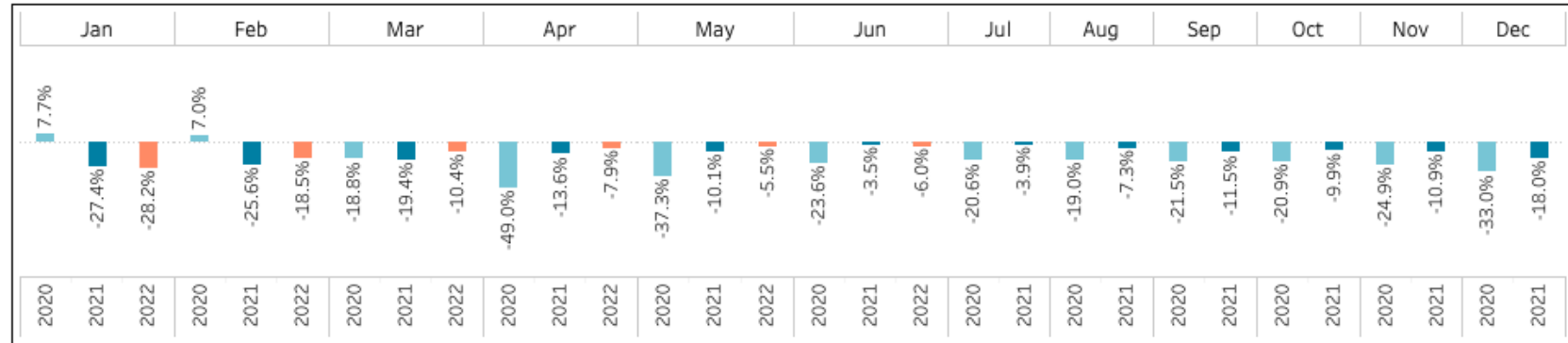


Emergency Visits (Excluding COVID-19)

2022 Volume
(Jan-Jun)

▲ 4.6%
From 2021

▼ -12.7%
From 2019



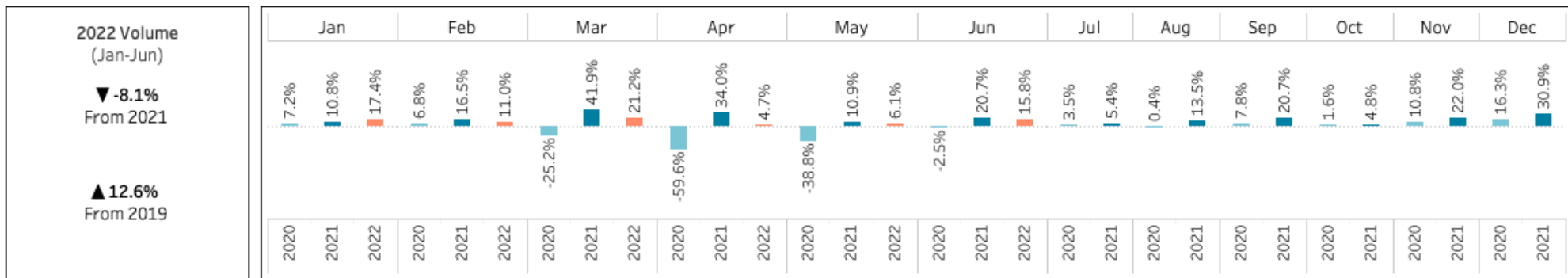
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Academic Medical Centers Monthly Volume Changes Compared to 2019

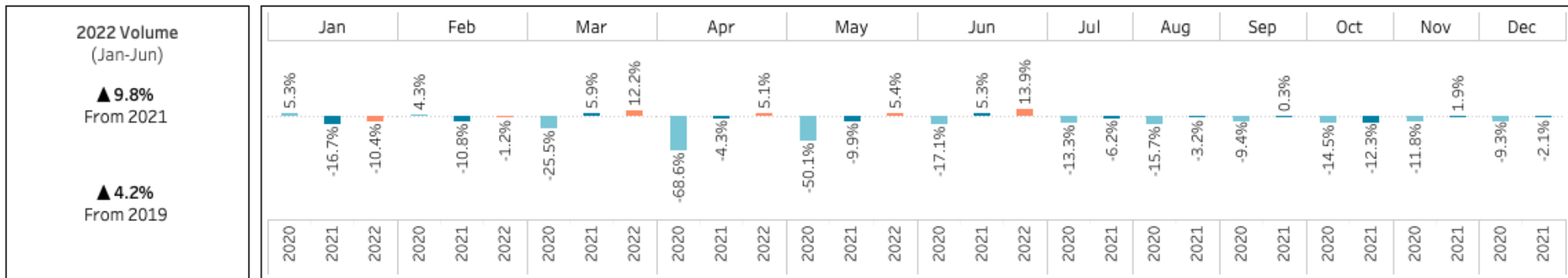
Data as of 6/30/2022

Outpatient volumes have exceeded pre-COVID-19 levels. However, most of the additional volume can be attributed to COVID-19 testing and vaccine administration. If these encounters are excluded, the outpatient volume did not consistently exceed 2019 levels until March 2022. This data set represents 50 Academic Medical Centers.

Outpatient Visits (Including COVID-19)



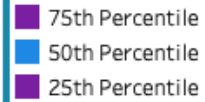
Outpatient Visits (Excluding COVID-19)



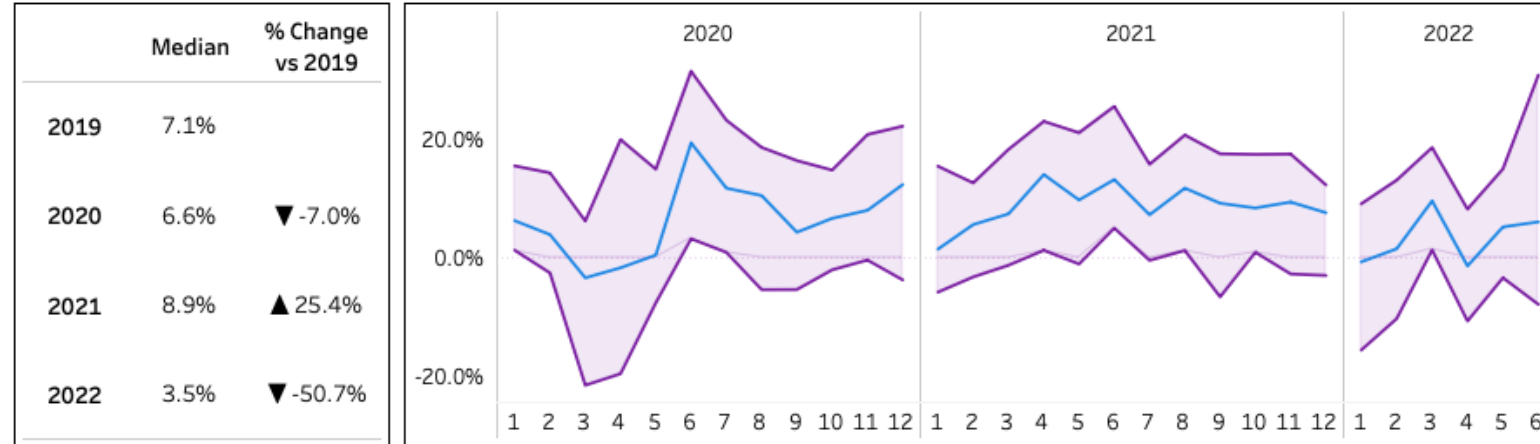
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Academic Medical Centers Financial KPI Metrics

Data as of 2022/06



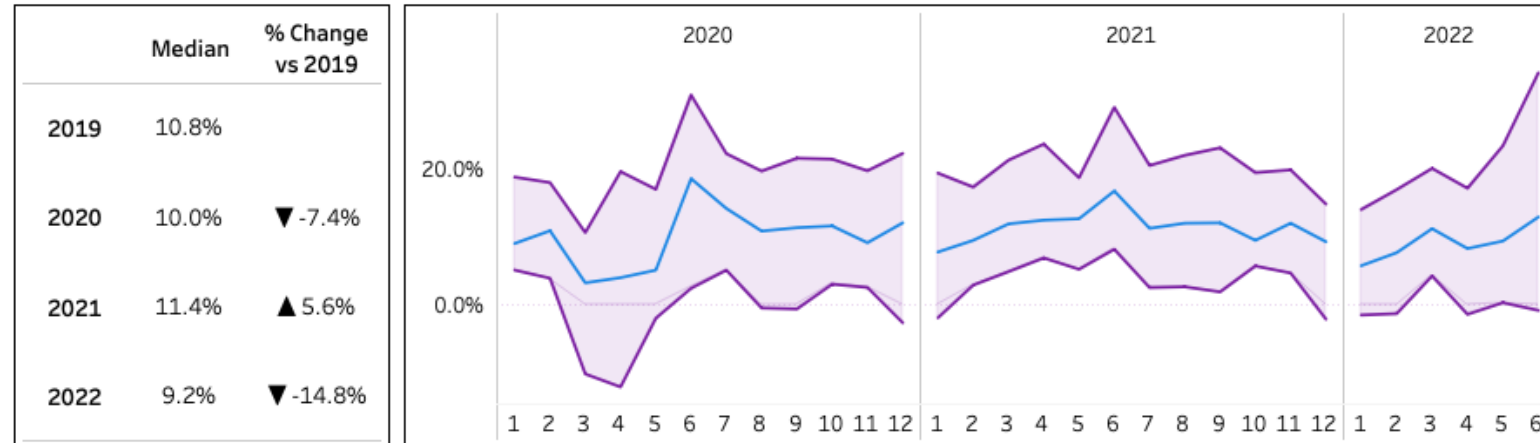
Net Income Margin



Margins are down in 2022 compared to 2021 and 2019. These metrics include CARES Act funding. In 2022, more hospitals are struggling than previous years.

- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

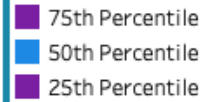
EBITDA Margin



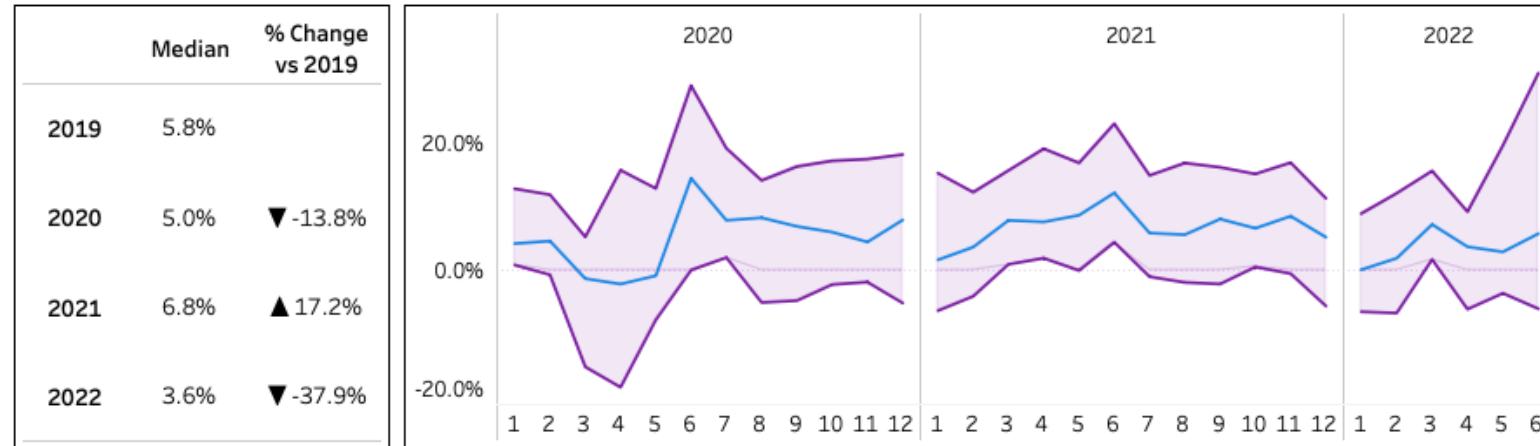
- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMCT Type filter for "Academic Medical Centers" on the KPI tab.

Academic Medical Centers Financial KPI Metrics

Data as of 2022/06

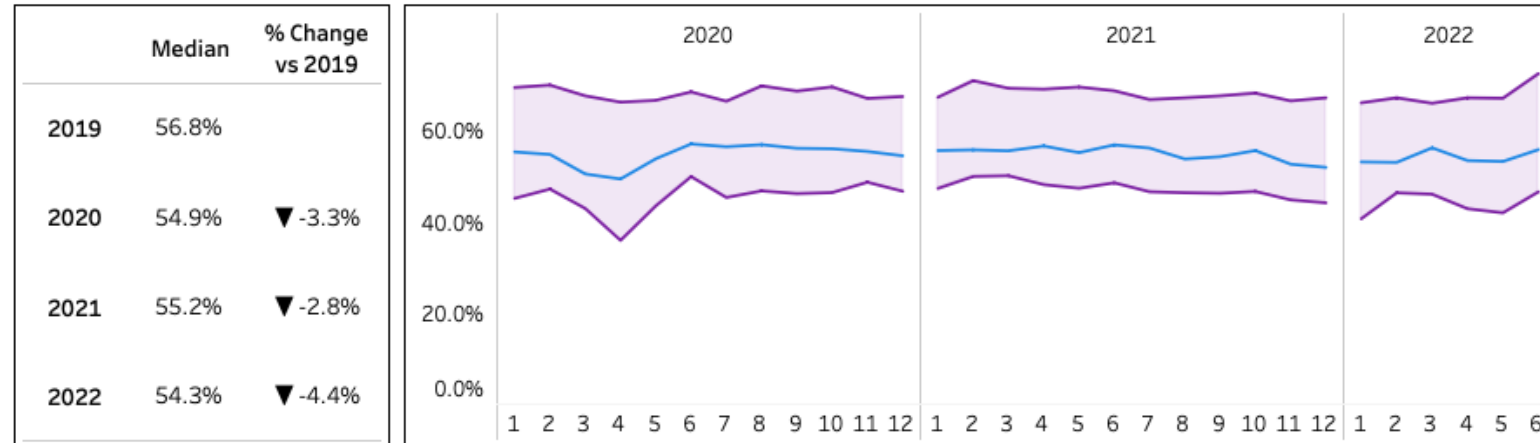


Operating Margin



The median operating margin in 2022 is down 38% compared to 2019's pre-COVID-19 operating margin. These metrics include CARES Act funding and demonstrate that many hospitals are struggling as support wanes. Acute Care Hospitals have margins that are half of 2019 levels. AMCs tend to be larger than Acute Care Hospitals and this appears to have lessened the impact, but there are still more than a third of AMCs that have negative operating margins in 2022 YTD.

Contribution Margin

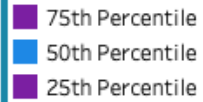


- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

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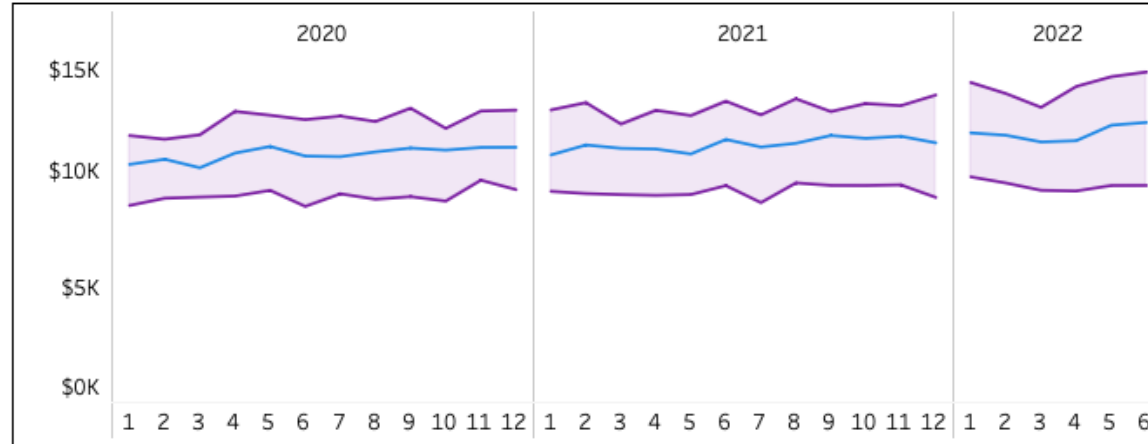
Academic Medical Centers Financial KPI Metrics

Data as of 2022/06



NPR per Adjusted Discharge, CMI Adjusted

	Median	% Change vs 2019
2019	\$10,355	
2020	\$10,743	▲ 3.7%
2021	\$11,156	▲ 7.7%
2022	\$11,649	▲ 12.5%



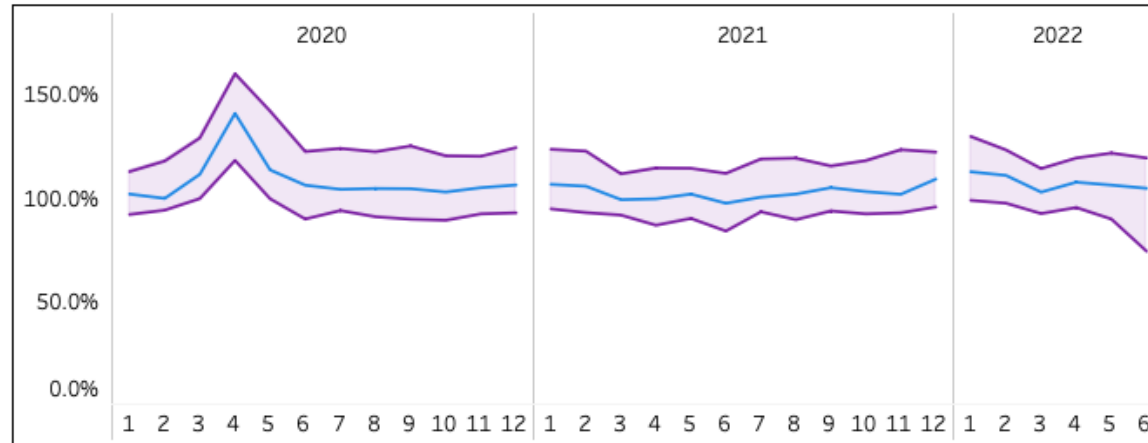
Expenses as a percentage of net patient revenue is more than 100% for more than half of Academic Medical Centers and is increasing.

- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" on the KPI tab.

Total Expense as a % of NPR

	Median	% Change vs 2019
2019	101.4%	
2020	108.4%	▲ 6.9%
2021	102.6%	▲ 1.1%
2022	107.4%	▲ 5.9%

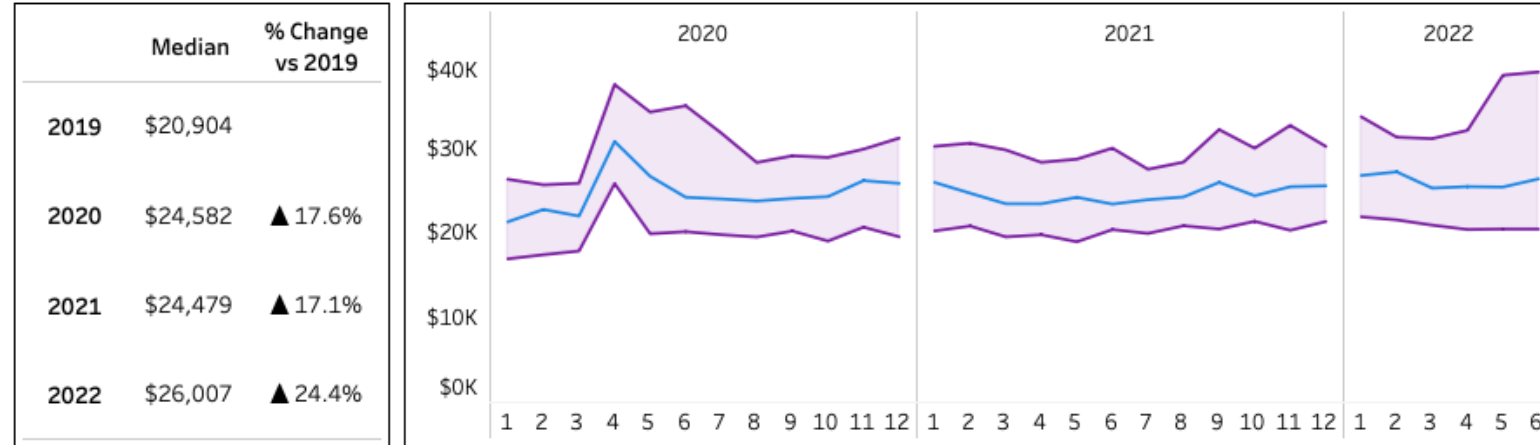


Academic Medical Centers Financial KPI Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

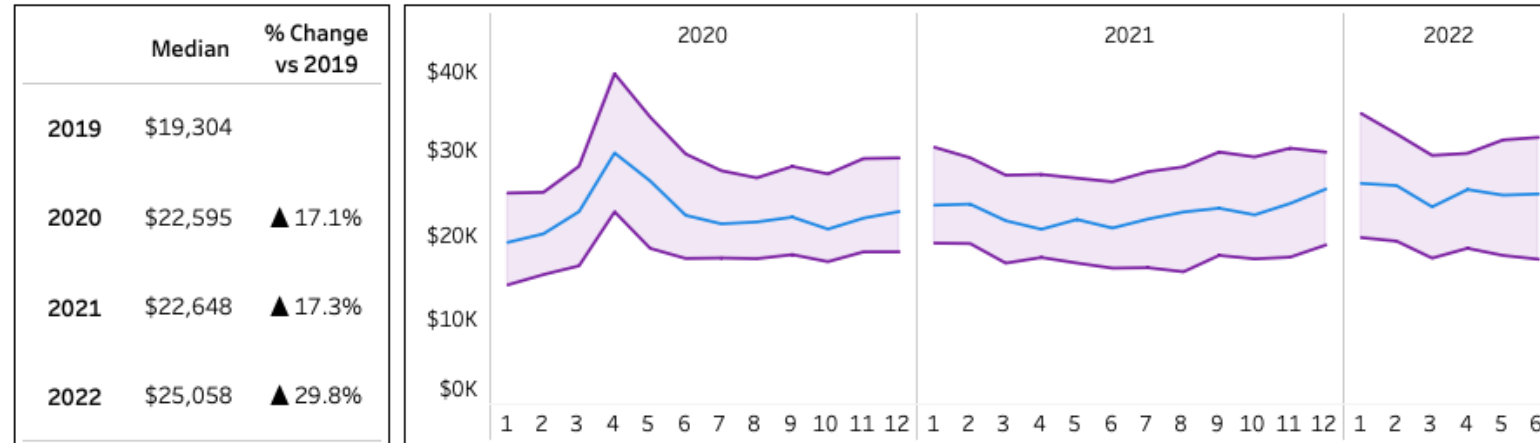
Operating Revenue per Adjusted Discharge



Expenses are growing faster than revenue. Margins for patient care are very slim, but slightly better for Academic Medical Centers than Acute Care Hospitals.

- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

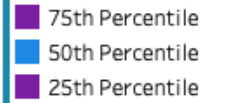
Total Expense per Adjusted Discharge



- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" on the KPI tab.

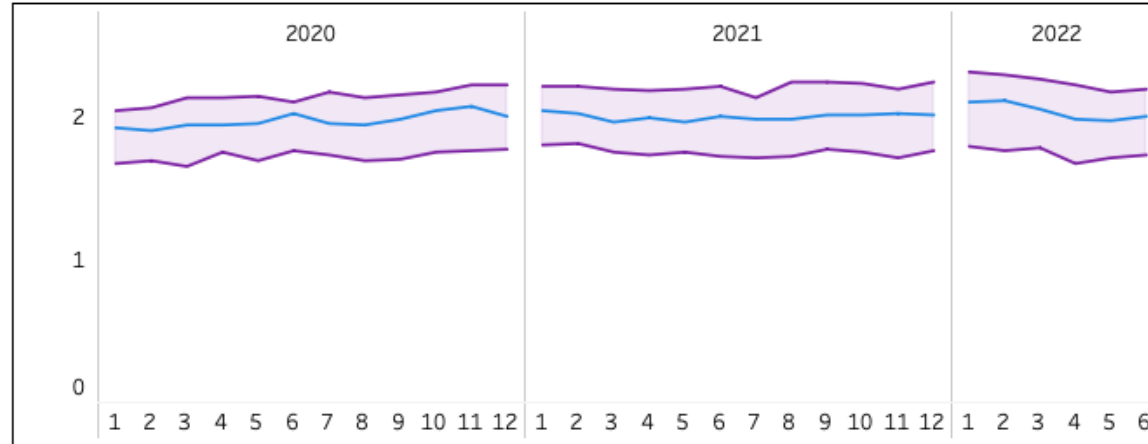
Academic Medical Centers Financial KPI Metrics

Data as of 2022/06



Case Mix Index (MS-DRG)

	Median	% Change vs 2019
2019	1.9	
2020	2.0	▲ 5.3%
2021	2.0	▲ 5.3%
2022	2.0	▲ 5.3%

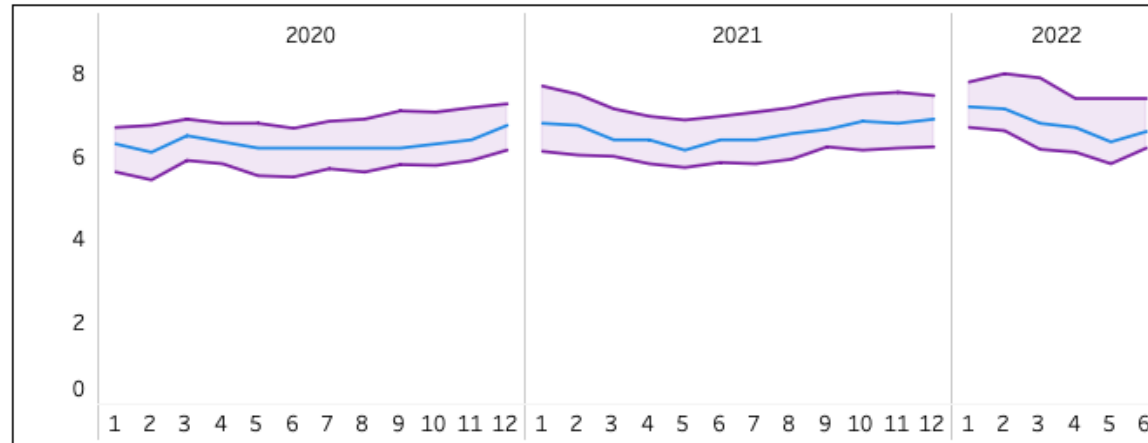


Case Mix Index has changed minimally in the past several years, however length of stay is increasing. The increase in length of stay can be attributed to patients waiting longer to be transferred to another facility.

- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

Average Length of Stay (Date and Time)

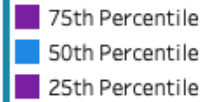
	Median	% Change vs 2019
2019	6.0	
2020	6.3	▲ 5.0%
2021	6.6	▲ 10.0%
2022	6.8	▲ 13.3%



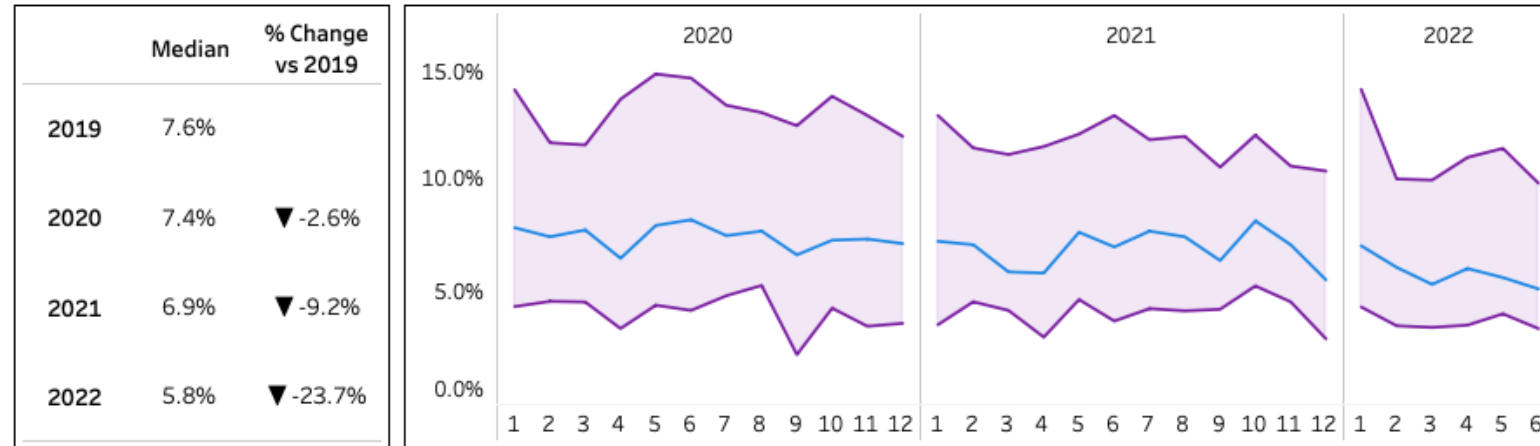
- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" on the KPI tab.

Academic Medical Centers Financial KPI Metrics

Data as of 2022/06



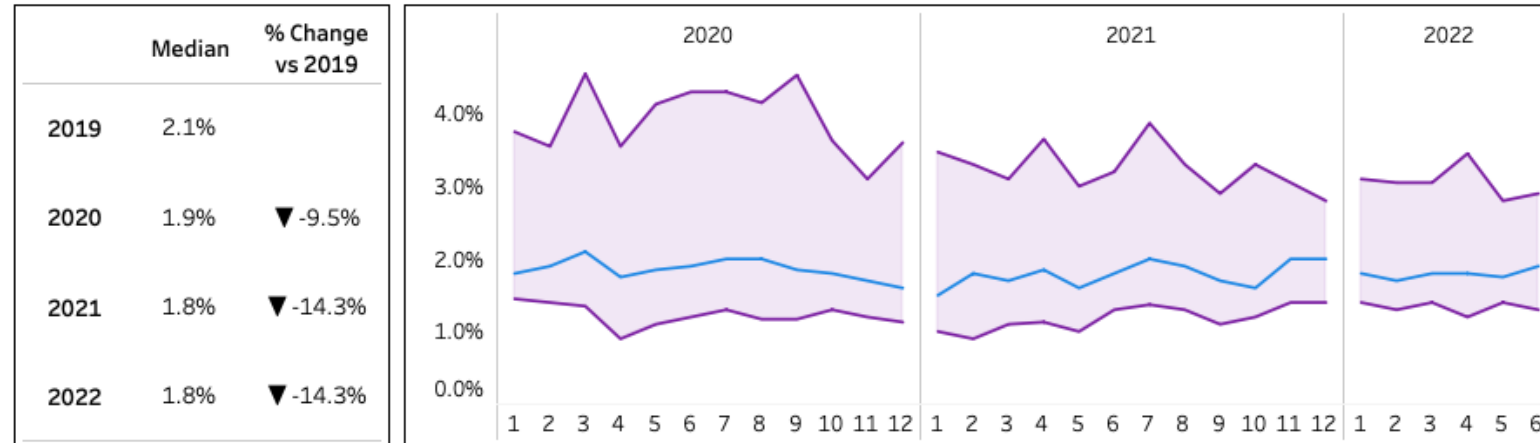
Bad Debt and Charity Care as a % of NPR



With expanded government funding and programs, uninsured volumes are down compared to pre-COVID-19 levels.

- Reporting data from 47 StrataSphere® health systems including 61 Academic Medical Centers.

% True Self Pay

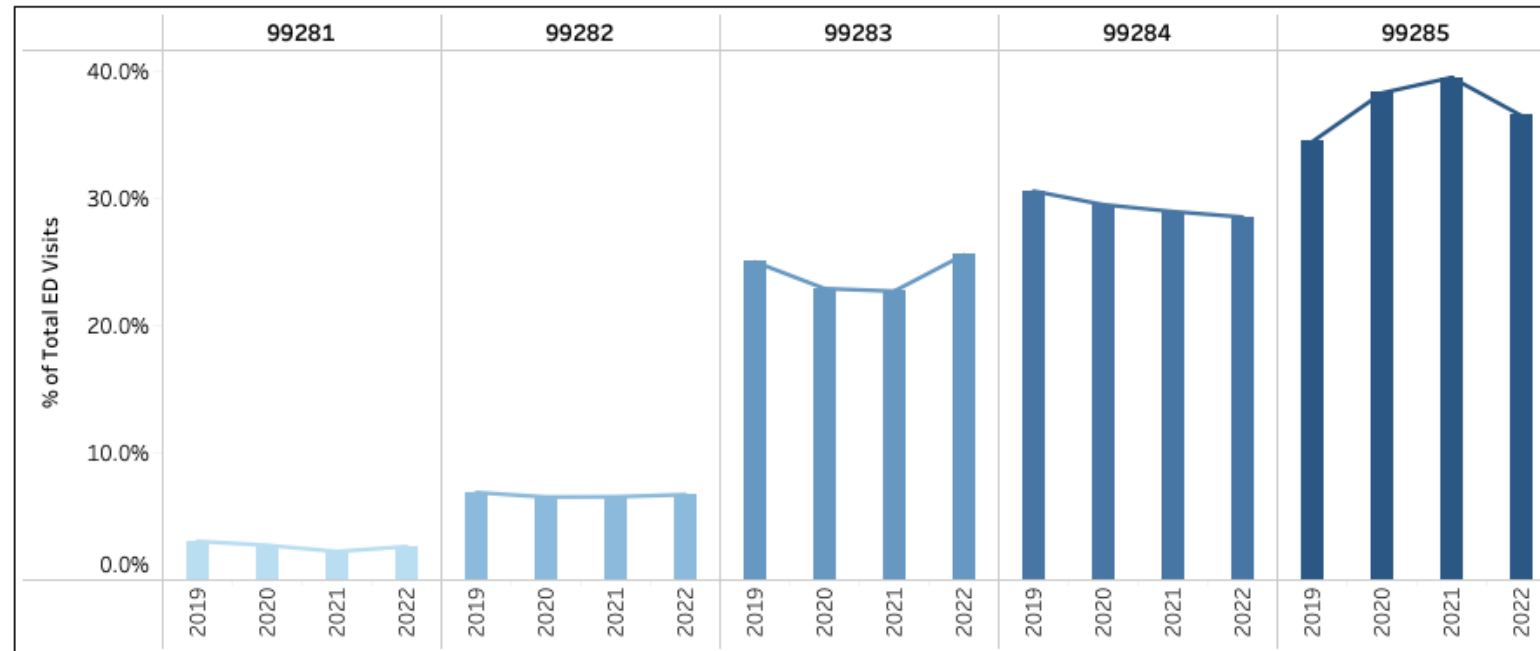


- Participating StrataSphere organizations who are fully implemented in one StrataJazz Financial Planning module are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" on the KPI tab.

Academic Medical Centers Proportion of ED Visits by ED CPT Codes

Data as of 2022/06

	99281		99282		99283		99284		99285	
	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019	% of Total ED Visits	% Change vs 2019
2019	3.0%		6.9%		25.0%		30.6%		34.5%	
2020	2.7%	▼ -10.0%	6.5%	▼ -5.8%	22.9%	▼ -8.4%	29.5%	▼ -3.6%	38.3%	▲ 11.0%
2021	2.2%	▼ -26.7%	6.5%	▼ -5.8%	22.7%	▼ -9.2%	29.0%	▼ -5.2%	39.5%	▲ 14.5%
2022	2.6%	▼ -13.3%	6.7%	▼ -2.9%	25.6%	▲ 2.4%	28.5%	▼ -6.9%	36.5%	▲ 5.8%



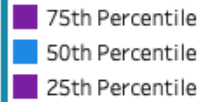
Upon reviewing the distribution of ED CPT Codes for ED encounters, the proportion of patients who are sickest (CPT code 99285) increased early in the pandemic but has decreased recently to 2% higher than 2019 levels. Note that ED volumes are down compared to pre-COVID-19 levels (see page 41 of this report).

- Reporting data from 37 StrataSphere® health systems including 45 Academic Medical Centers.

- The CPT codes 99281-99285 are for reporting evaluation and management services in the emergency department. These CPT codes represent the 5 levels of emergency department services billed based on complexity, severity of the presenting problem, and performed work required by the presenting symptoms. CPT codes 99281 and 99282 represent low complexity, and 99283 and 99284 represent moderate complexity, 99285 represents high complexity visits.

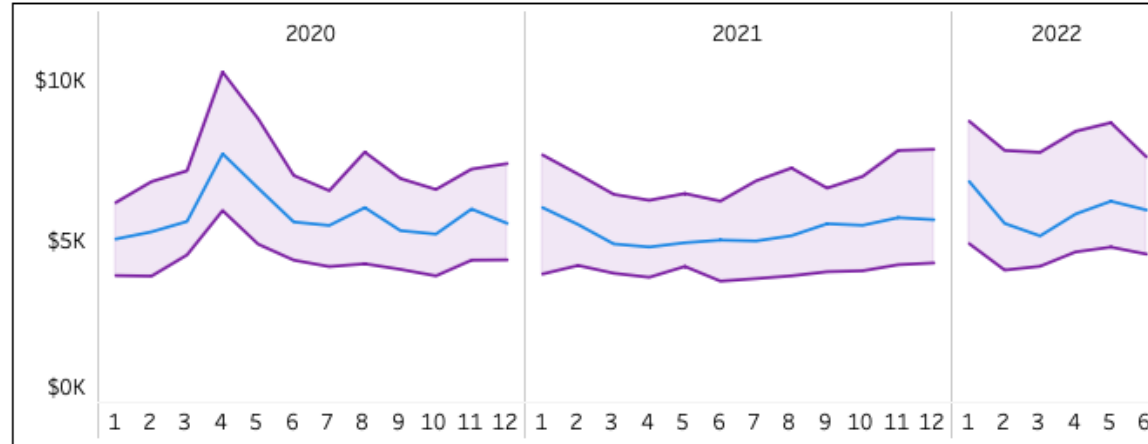
Academic Medical Centers Labor Expense Metrics

Data as of 2022/06



Labor Expense per Adjusted Discharge, CMI Adjusted

	Median	% Change vs 2019
2019	\$5,167	
2020	\$5,797	▲ 12.2%
2021	\$5,325	▲ 3.1%
2022	\$5,937	▲ 14.9%



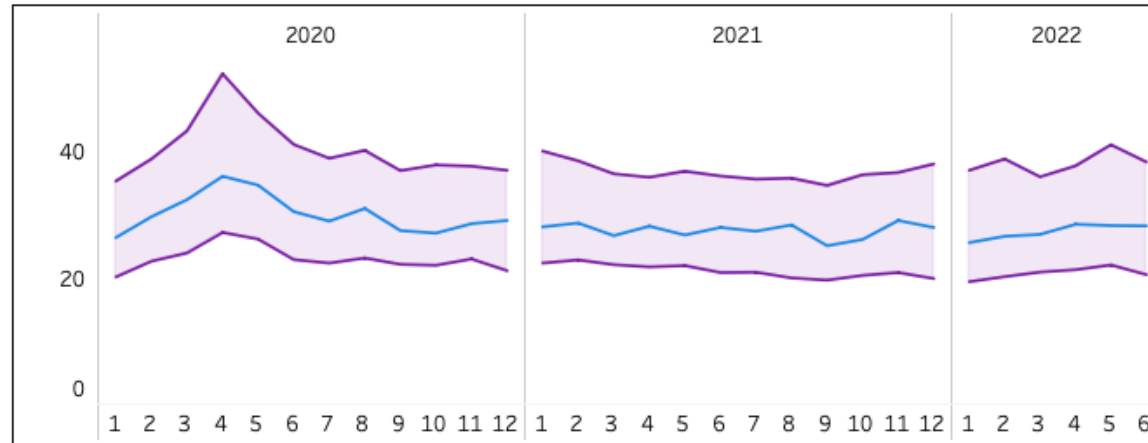
Labor expense per adjusted discharge, CMI adjusted has increased in 2022. Worked hours per adjusted patient day are back to pre-COVID-19 levels. This demonstrates that more expensive resources (such as contract labor) are being used per patient, and to staff Academic Medical Centers.

- Reporting data from 30 StrataSphere® health systems including 39 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Management Reporting and Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Center" on the Labor Expense tab.

Worked Hours per Adjusted Patient Day (training, meeting, and orientation as non-productive)

	Median	% Change vs 2019
2019	27.3	
2020	30.2	▲ 10.6%
2021	27.6	▲ 1.1%
2022	27.4	▲ 0.4%

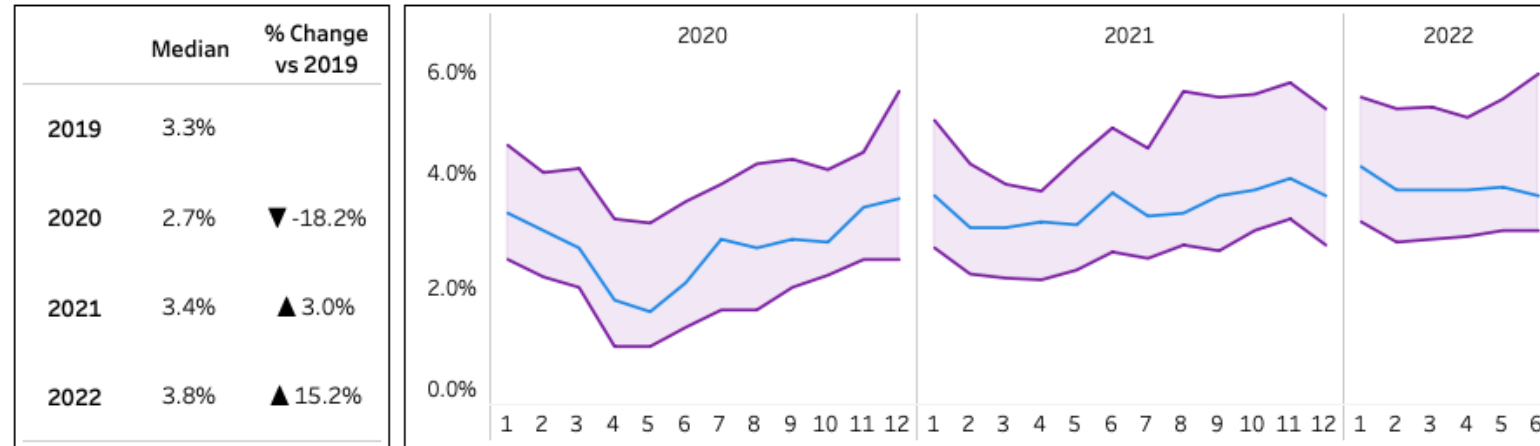


Academic Medical Centers Labor Expense Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

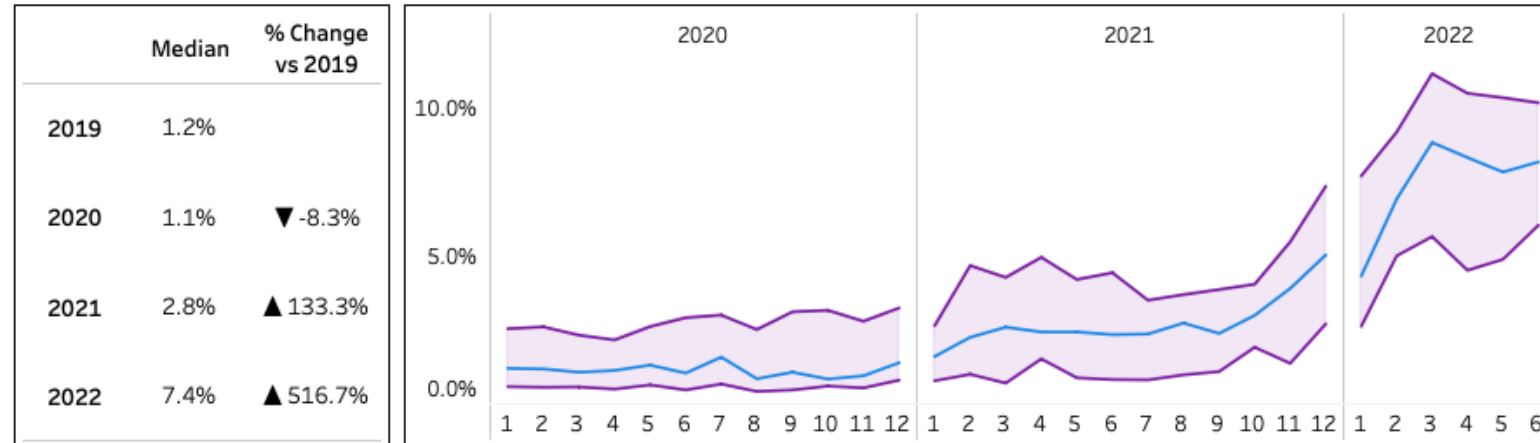
Overtime Hours as a % of Paid Hours



Contract labor has increased 516% in 2022 compared to 2019. Overtime trends appear to be slowly decreasing in 2022 YTD.

- Reporting data from 30 StrataSphere® health systems including 39 Academic Medical Centers.

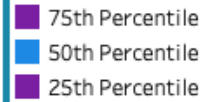
Contract Labor as a % of Total Labor Expense



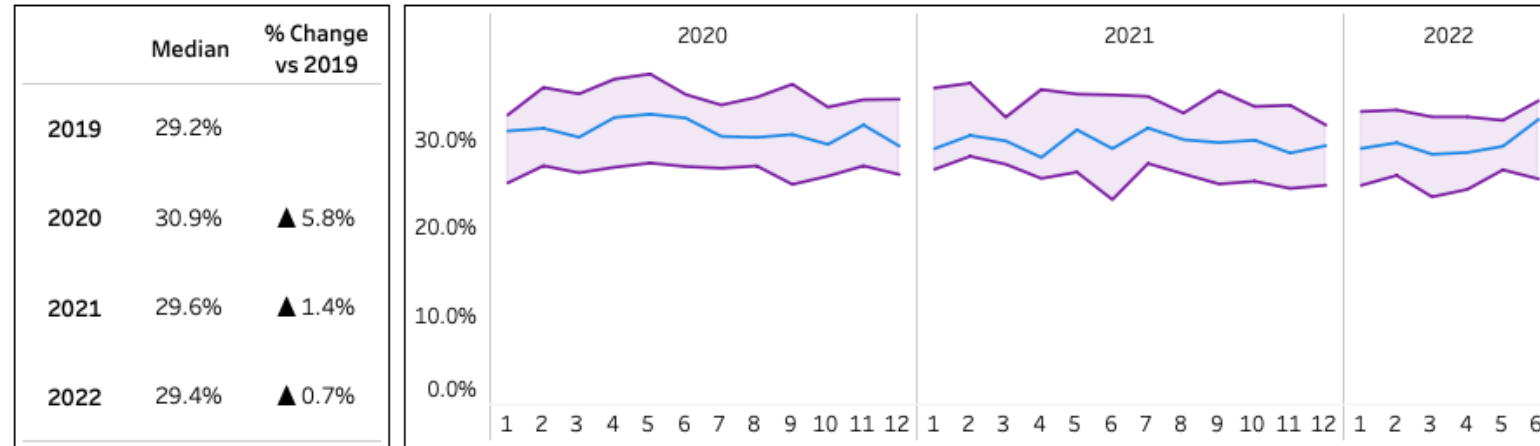
- Participating StrataSphere organizations who are fully implemented in StrataJazz Management Reporting and Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Center" on the Labor Expense tab.

Academic Medical Centers Overhead Expense Metrics

Data as of 2022/06



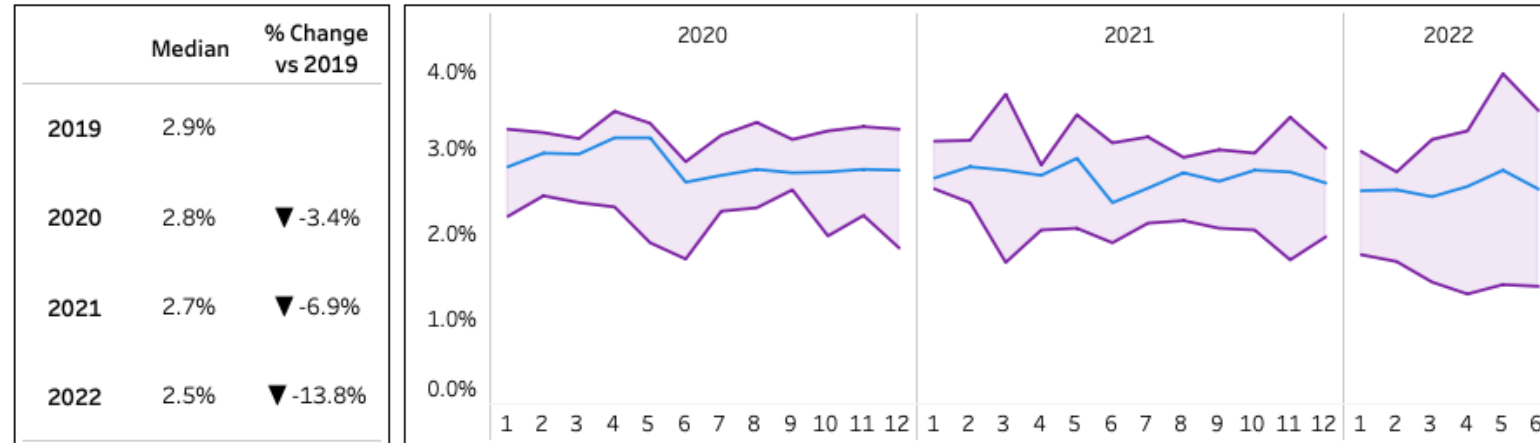
Total Overhead Expense as a % of Total Expense



Overhead expenses as a percentage of total expenses have returned to 2019 levels. This metric could also indicate that overall overhead expenses increased but increased at the same rate as total expenses. Revenue cycle expenses are a smaller proportion of total expenses in 2022 compared to 2019.

• Reporting data from 17 StrataSphere® health systems.

Revenue Cycle as a % of Total Expense



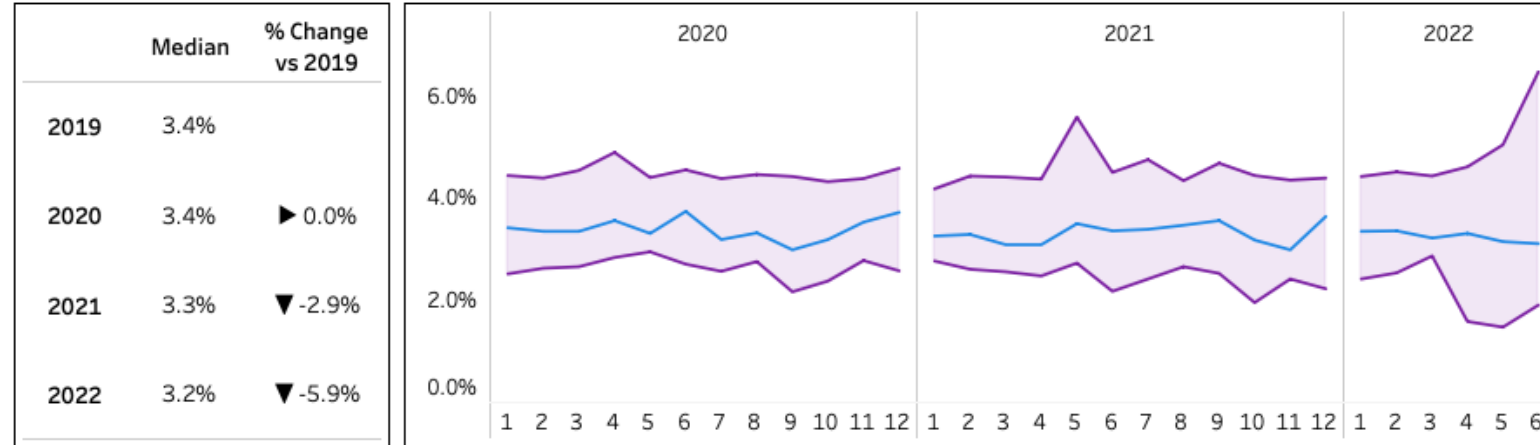
• Participating StrataSphere organizations who are fully implemented in one of the StrataJazz financial planning modules and StrataJazz Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report uses the Health System Type filter for "Academic Hospital or Health System" on the Overhead Expense tab.

Academic Medical Centers Overhead Expense Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

Information Technology as a % of Total Expense

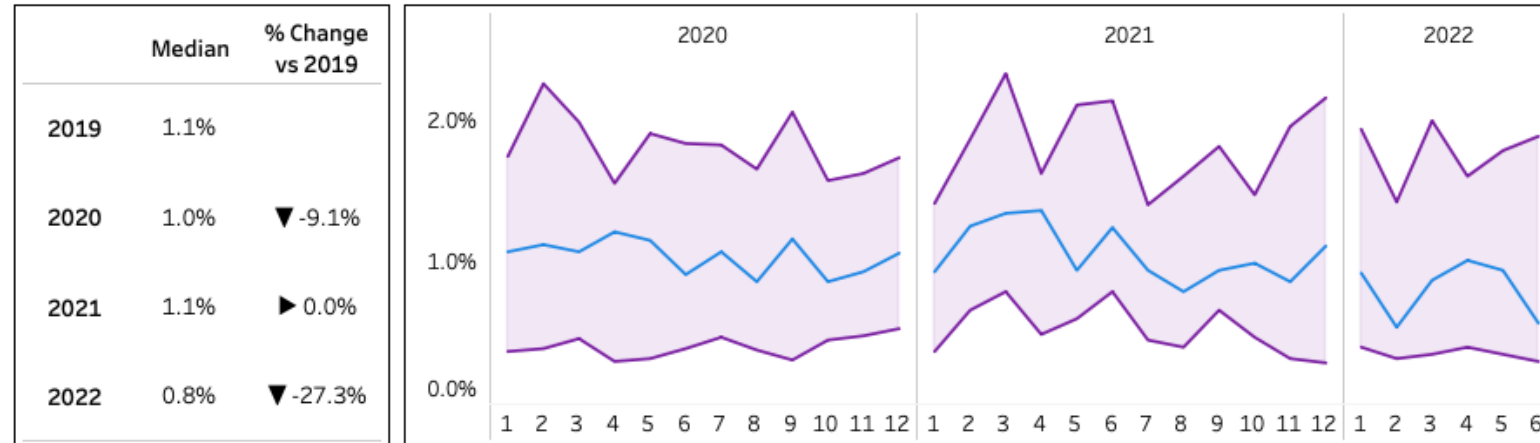


Information technology and supply chain expenses are a lower proportion of total expenses in 2022.

- Reporting data from 17 StrataSphere® health systems.

- Supply Chain expenses do not include supplies expenses; instead they represent monthly expense flowing through organization's Supply Chain departments.

Supply Chain as a % of Total Expense



- Participating StrataSphere organizations who are fully implemented in one of the StrataJazz financial planning modules and StrataJazz Decision Support are able to generate their organization's metrics in StrataSphere Compare. This report uses the Health System Type filter for "Academic Hospital or Health System" on the Overhead Expense tab.

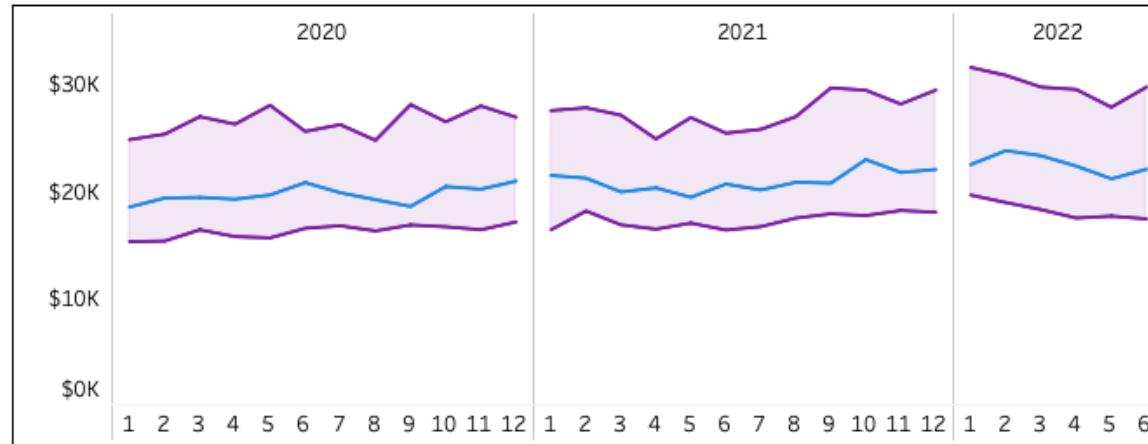
Academic Medical Centers Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$16,774	
2020	\$20,107	▲ 19.9%
2021	\$20,583	▲ 22.7%
2022	\$22,426	▲ 33.7%

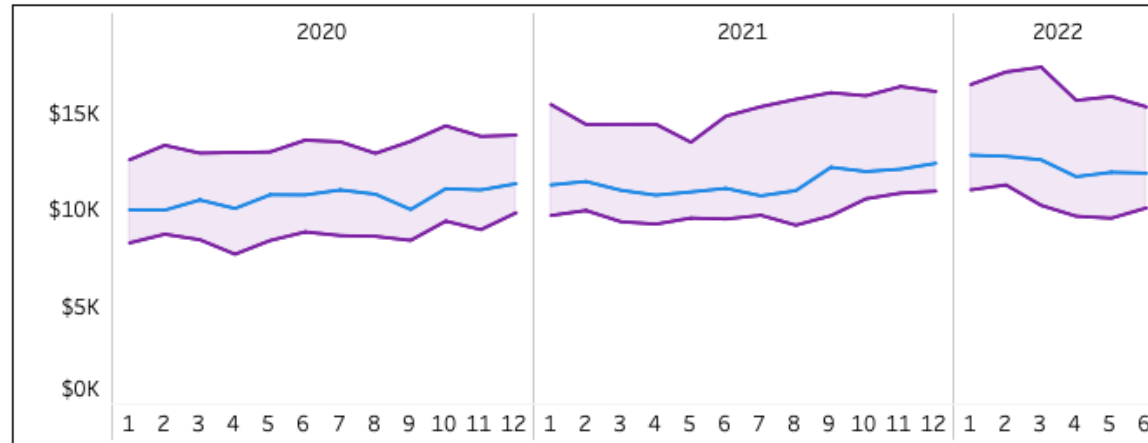


Inpatient costs per encounter are up 34% compared to 2019. Direct costs per encounter are up 41% compared to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

Inpatient Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$8,821	
2020	\$10,712	▲ 21.4%
2021	\$11,103	▲ 25.9%
2022	\$12,484	▲ 41.5%



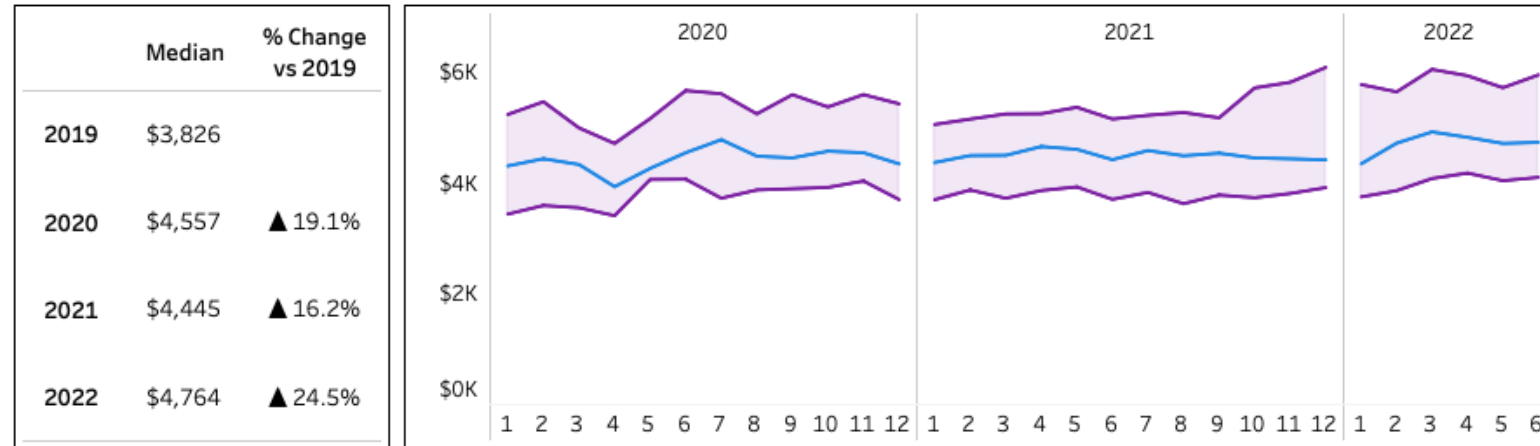
- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" and the Patient Type "Inpatient (cost per encounter)" on the Cost Compare Tab.

Academic Medical Centers Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Cost per Day - Total

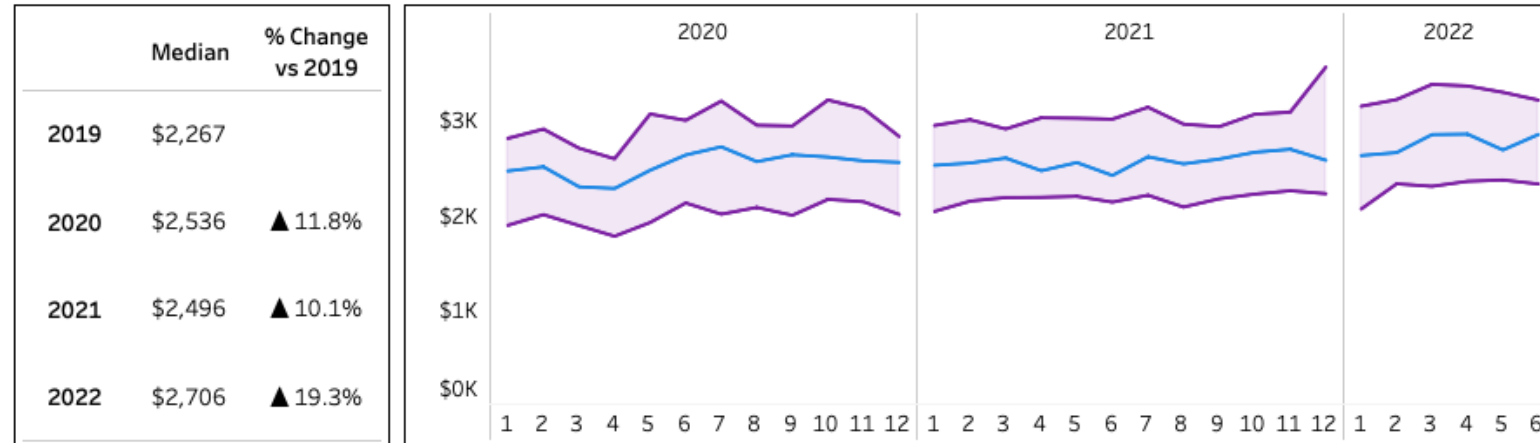


Inpatient costs per day are up 24% compared to 2019. Direct costs per day are up 19% compared to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

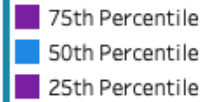
- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers" and the Patient Type "Inpatient (cost per day)" on the Cost Compare Tab.

Inpatient Cost per Day - Direct



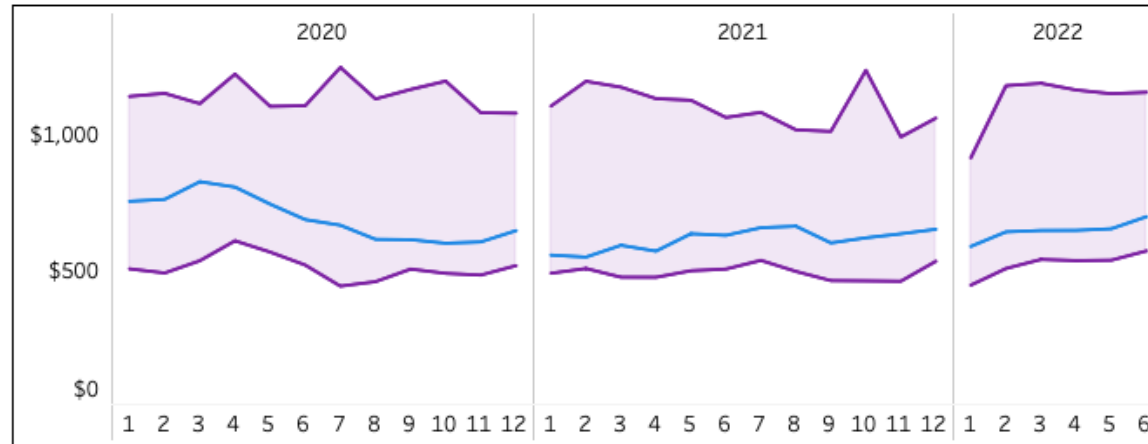
Academic Medical Centers Cost Metrics

Data as of 2022/06



Outpatient Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$679	
2020	\$753	▲ 10.9%
2021	\$606	▼ -10.7%
2022	\$668	▼ -1.6%



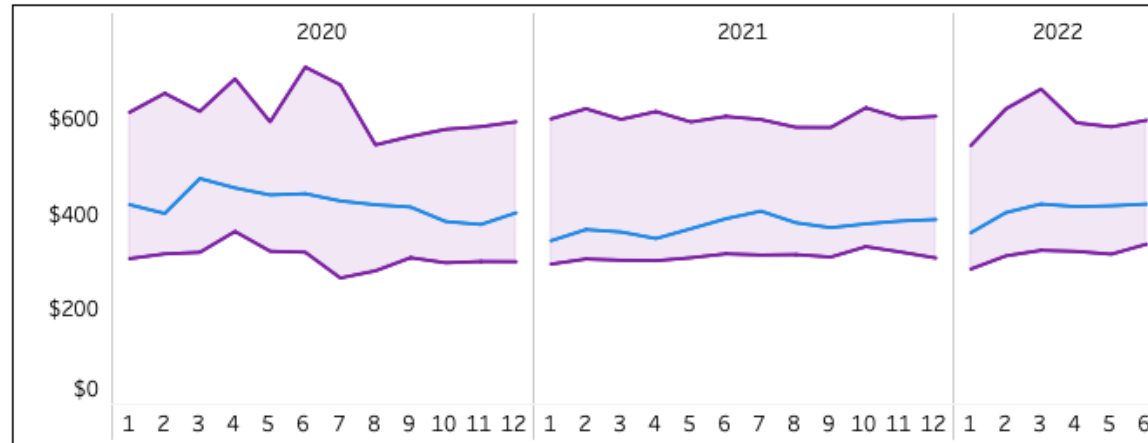
Outpatient costs per encounter are down 1.6% compared to 2019. Direct costs per encounter are equal to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMCT Type filter for "Academic Medical Centers" and the Patient Type "Outpatient (cost per encounter)" on the Cost Compare Tab.

Outpatient Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$405	
2020	\$454	▲ 12.0%
2021	\$384	▼ -5.1%
2022	\$403	▼ -0.6%



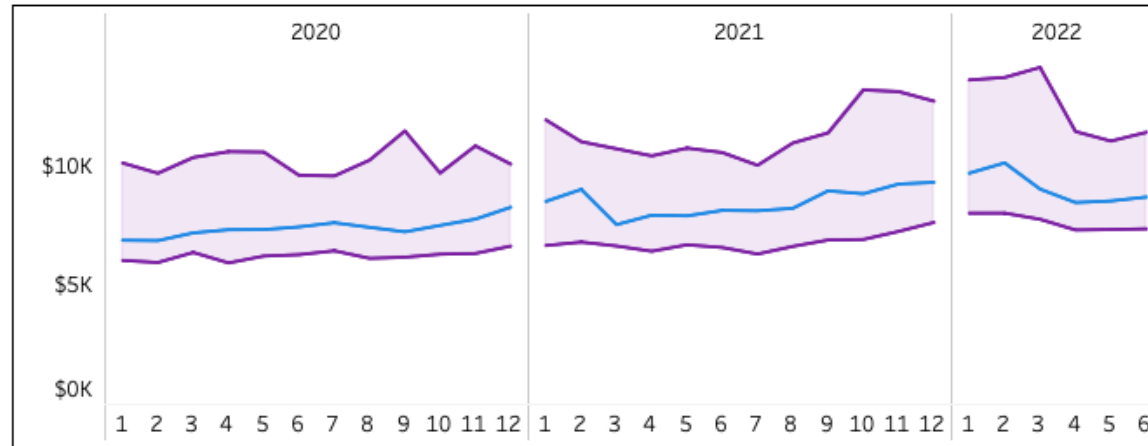
Academic Medical Centers Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Labor Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$6,438	
2020	\$7,232	▲ 12.3%
2021	\$8,445	▲ 31.2%
2022	\$9,045	▲ 40.5%



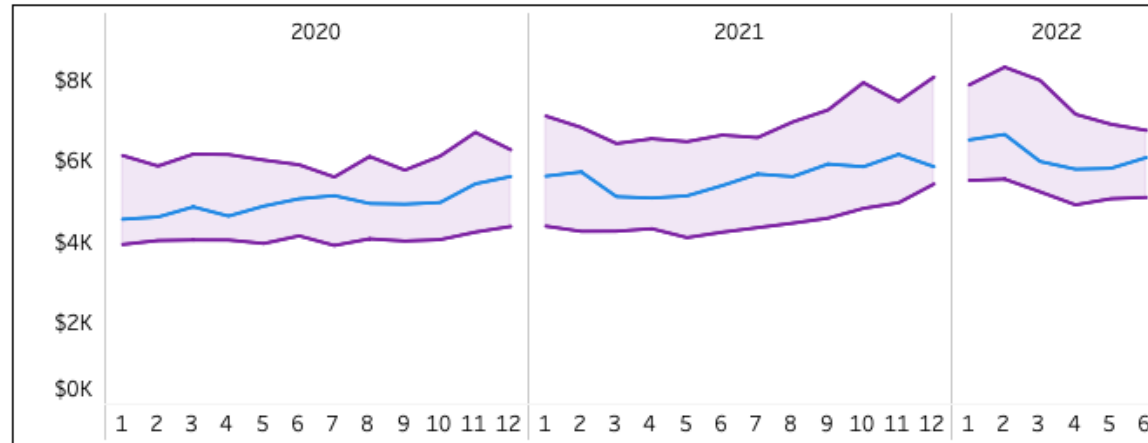
Inpatient labor costs per encounter are up 40% compared to 2019. Direct inpatient labor costs per encounter are up 44% compared to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers", the Patient Type "Inpatient (cost per encounter)", and "Salaries" for the StrataSphere Cost Component Rollup on the Cost Compare Tab.

Inpatient Labor Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$4,349	
2020	\$4,993	▲ 14.8%
2021	\$5,738	▲ 31.9%
2022	\$6,263	▲ 44.0%

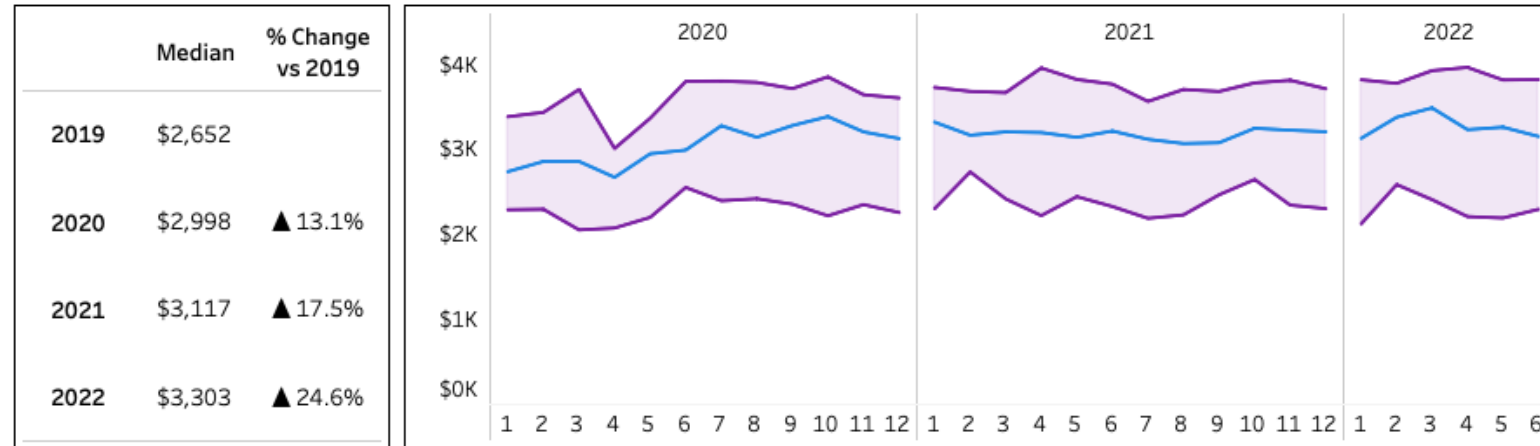


Academic Medical Centers Cost Metrics

Data as of 2022/06

- 75th Percentile
- 50th Percentile
- 25th Percentile

Inpatient Supply Cost per Encounter - Total

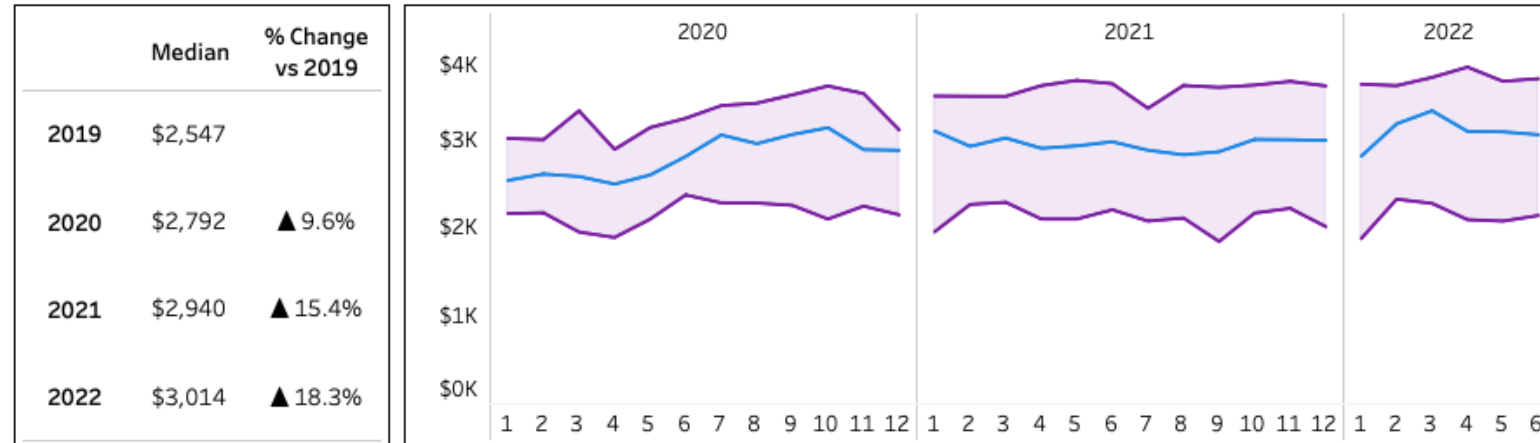


Inpatient supply costs per encounter are up 25% compared to 2019. Direct inpatient supply costs per encounter are up 18% compared to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMCType filter for "Academic Medical Centers", the Patient Type "Inpatient (cost per encounter)", and "Supplies" + "Implants" for the StrataSphere Cost Component Rollups on the Cost Compare Tab.

Inpatient Supply Cost per Encounter - Direct



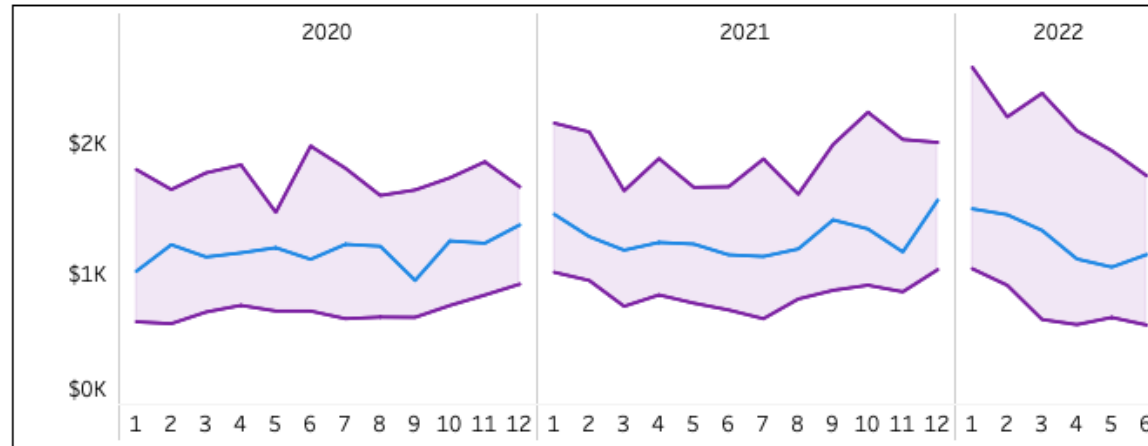
Academic Medical Centers Cost Metrics

Data as of 2022/06

75th Percentile
50th Percentile
25th Percentile

Inpatient Drug Cost per Encounter - Total

	Median	% Change vs 2019
2019	\$963	
2020	\$1,168	▲ 21.3%
2021	\$1,234	▲ 28.1%
2022	\$1,242	▲ 29.0%



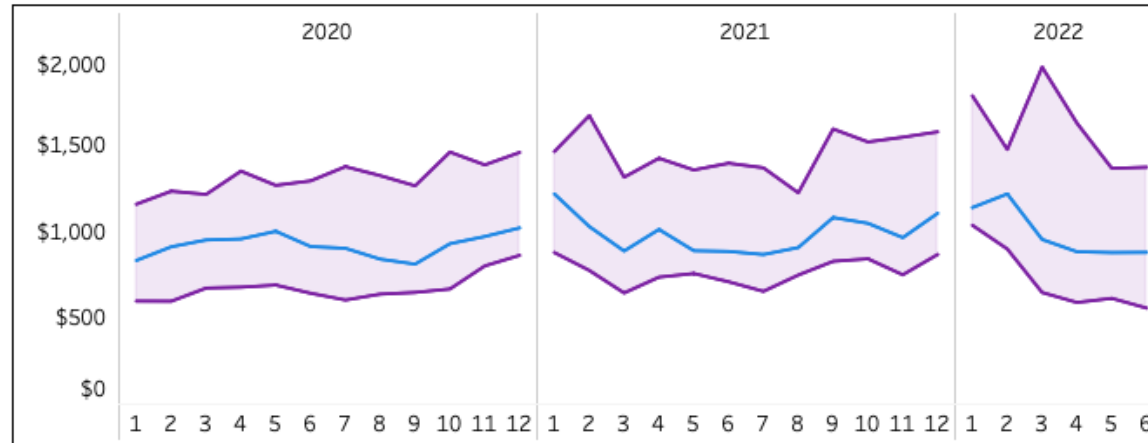
Inpatient drug costs per encounter are up 29% compared to 2019. Direct inpatient drug costs per encounter are up 23% compared to 2019.

- Reporting data from 20 StrataSphere health systems including 25 Academic Medical Centers.

- Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support and are L2 or above for supplies are able to generate their organization's metrics in StrataSphere Compare. This report uses the AMC Type filter for "Academic Medical Centers", the Patient Type "Inpatient (cost per encounter)", and "Drugs" for the StrataSphere Cost Component Rollup on the Cost Compare Tab.

Inpatient Drug Cost per Encounter - Direct

	Median	% Change vs 2019
2019	\$809	
2020	\$925	▲ 14.3%
2021	\$986	▲ 21.8%
2022	\$996	▲ 23.0%



2019 2022
2021

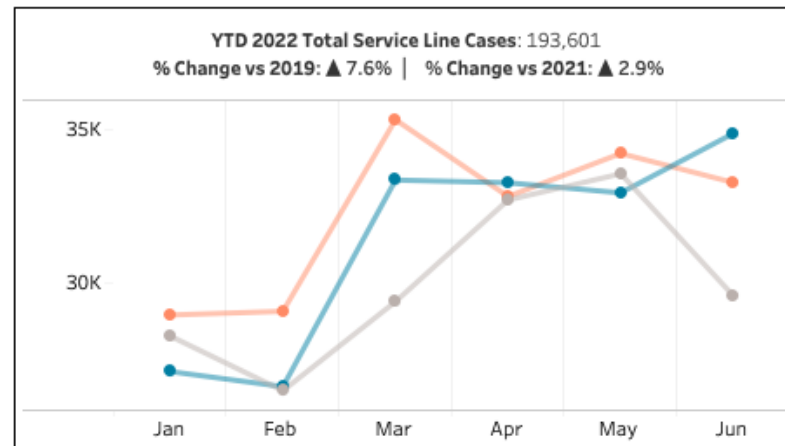
Academic Medical Centers Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

Commentary

This section looks at service line changes by volume to better understand if service lines are operating at the 2019 pre-COVID-19 levels or the 2021 post-COVID-19 levels (2020 volumes were excluded as that year is not comparable). Please note that the y axes of the following charts are scaled to the data and therefore are not consistent between charts. The top five Sg2 CARE Families by 2022 volumes are also shown for each service line to illustrate shifts in specific patient diagnosis groups (blanks may appear in these tables for instances in which 2022 or the comparison year had zero cases). Of note, many service lines are shifting to more outpatient care. This is demonstrated by reviewing the % Change vs 2019 (IP) and % Change vs 2021 (IP) metrics. For example, Cancer volumes are exceeding 2019 volumes, however, inpatient volumes are down compared to 2019. In 2022, Allergy, Behavioral Health, Breast Health, Cancer, Genetics, Nephrology, Rheumatology and Urology have exceeded 2019 volumes. Conversely, Burns and Wounds, Dermatology, ENT, General Surgery, Hematology, Newborns, and Pulmonary have not yet achieved 2019 levels. This data set represents 50 Academic Medical Centers.

Allergy and Immunology



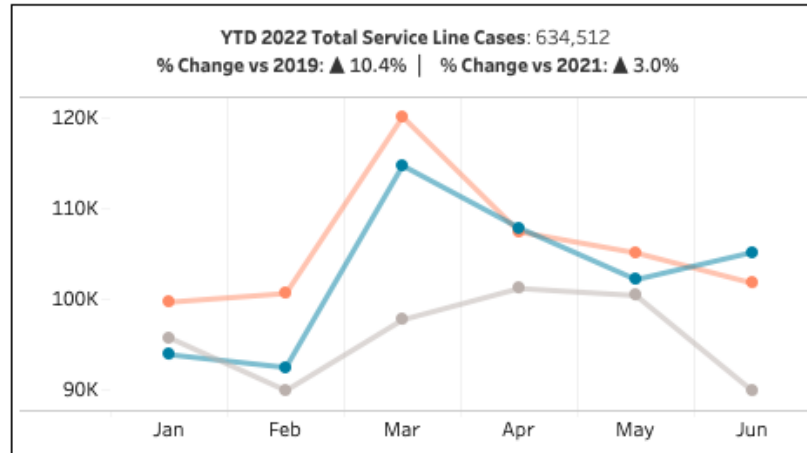
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Transplant Aftercare	106,167	▲ 13.5%	▲ 0.8%	2,611	▼ -2.1%	▼ -8.0%
Allergy	71,120	▼ -3.5%	▲ 3.4%	423	▼ -29.4%	▼ -21.2%
Immunological Deficiency	16,314	▲ 28.5%	▲ 16.7%	68	▲ 13.3%	▲ 9.7%

2019 2022
2021

Academic Medical Centers Service Line and CARE Family Volume Tracker

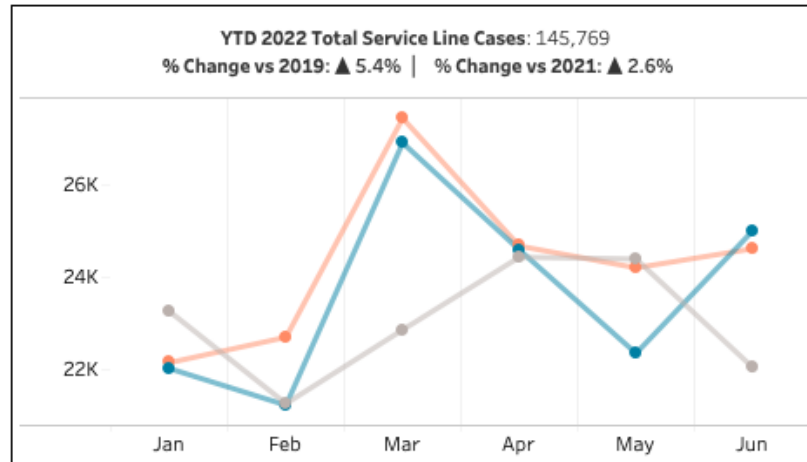
Data as of 6/30/2022

Behavioral Health



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Anxiety and Personality Disorders	120,012	▲ 19.5%	▲ 1.7%	1,458	▼ -24.6%	▼ -16.9%
Substance Use Disorders	114,394	▲ 18.5%	▲ 10.6%	6,989	▼ -18.7%	▼ -19.9%
Mood Disorders Persistent	87,637	▲ 10.4%	▲ 3.9%	4,105	▼ -23.7%	▼ -10.1%
Psychosis	63,554	▼ -2.7%	▲ 0.4%	4,152	▼ -19.5%	▼ -16.8%
Mood Disorders Episodic	63,460	▼ -4.9%	▼ -2.8%	2,490	▼ -29.2%	▼ -11.1%

Breast Health



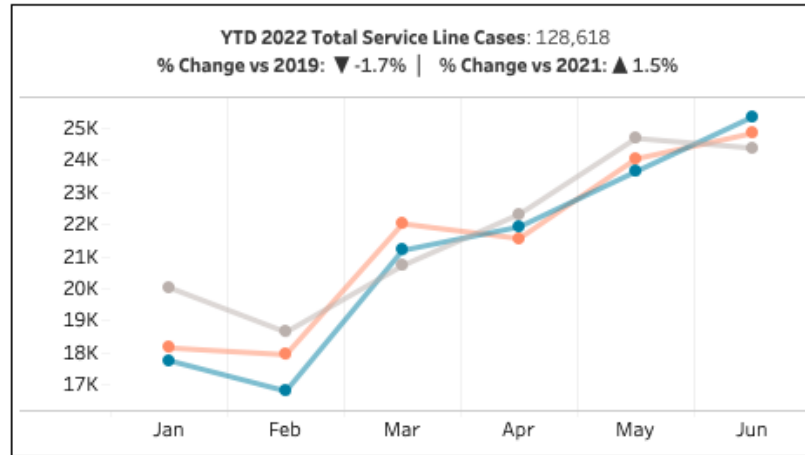
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Breast Conditions - Non-Cancer	145,769	▲ 5.4%	▲ 2.6%	488	▼ -17.8%	▼ -10.9%



Academic Medical Centers Service Line and CARE Family Volume Tracker

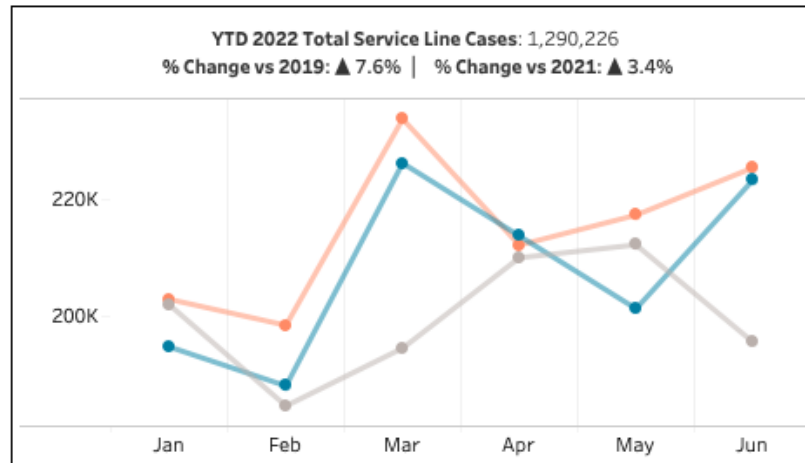
Data as of 6/30/2022

Burns and Wounds



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Open or Superficial Wounds	89,575	▼ -1.2%	▲ 0.5%	1,256	▼ -5.4%	▼ -12.5%
Soft Tissue Ulcers and Gangrene	23,159	▼ -2.7%	▲ 5.9%	877	▼ -13.4%	▼ -12.2%
Burns	15,884	▼ -2.7%	▲ 1.1%	1,392	▼ -17.2%	▼ -3.4%

Cancer



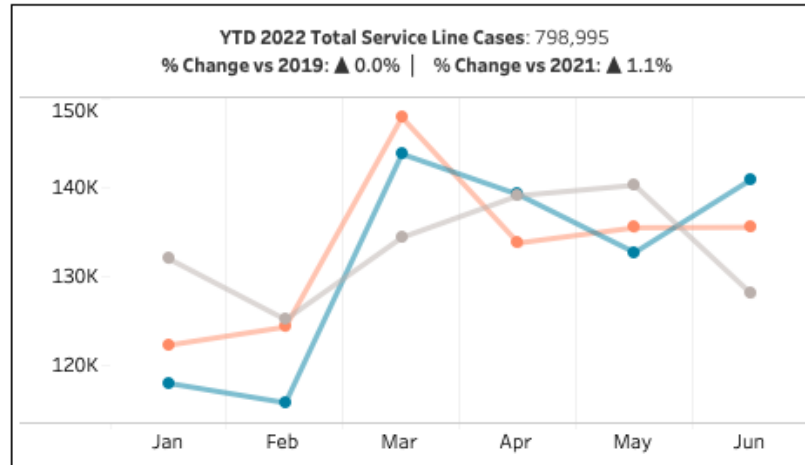
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Breast Cancer	224,012	▲ 12.1%	▲ 5.6%	607	▼ -40.3%	▼ -9.3%
Not Otherwise Classified and Other Cancers	103,856	▲ 6.5%	▲ 4.8%	1,754	▼ -15.4%	▼ -3.8%
Prostate Cancer	103,617	▲ 18.2%	▲ 9.1%	942	▼ -27.5%	▼ -6.0%
Lung Cancer	89,050	▲ 4.4%	▲ 2.3%	3,659	▼ -7.1%	▼ -3.4%
Leukemias	75,989	▲ 6.2%	▼ -1.1%	2,790	▼ -4.5%	▼ -2.0%

2019 2022
2021

Academic Medical Centers Service Line and CARE Family Volume Tracker

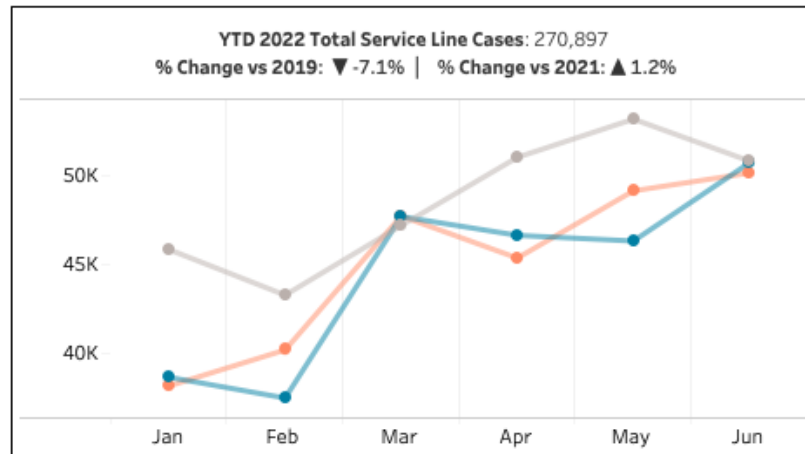
Data as of 6/30/2022

Cardiology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Dysrhythmia	284,266	▲ 2.3%	▲ 0.8%	12,558	▼ -9.8%	▼ -4.7%
Chest Pain - Noncardiac	119,352	▼ -5.0%	▼ -1.1%	1,306	▼ -49.5%	▼ -26.2%
Coronary Heart Disease	110,584	▼ -3.8%	▲ 1.8%	5,539	▼ -20.9%	▼ -13.2%
Congestive Heart Failure	107,372	▲ 6.0%	▲ 2.7%	18,099	▼ -12.4%	▼ -4.5%
Heart Valve Disease	70,099	▲ 4.6%	▲ 6.8%	5,939	▲ 2.6%	▲ 4.0%

Dermatology



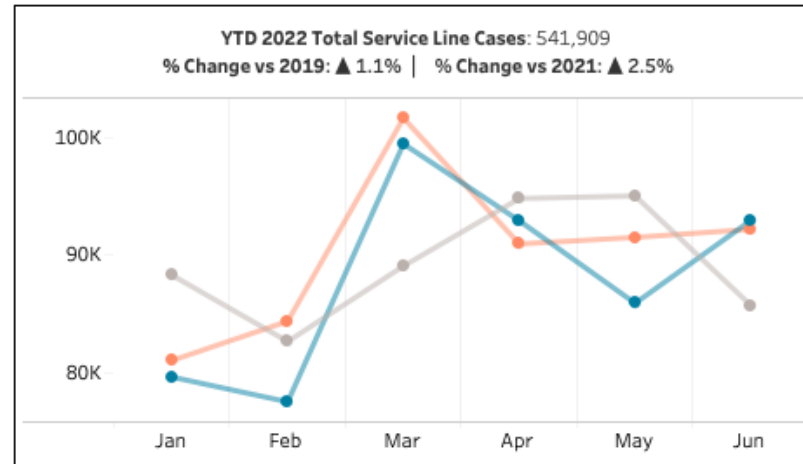
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Dermatitis and Rashes	85,411	▼ -8.2%	▲ 0.3%	240	▼ -41.9%	▼ -0.8%
Dermatologic Disorders	82,727	▲ 2.8%	▲ 3.2%	470	▼ -22.1%	▼ -9.3%
Skin Infection	71,523	▼ -16.5%	▲ 0.1%	5,218	▼ -26.0%	▼ -8.7%
Benign Skin Neoplasms	31,236	▼ -3.6%	▲ 0.9%	82	▼ -33.9%	▼ -17.2%

2019 2022
2021

Academic Medical Centers Service Line and CARE Family Volume Tracker

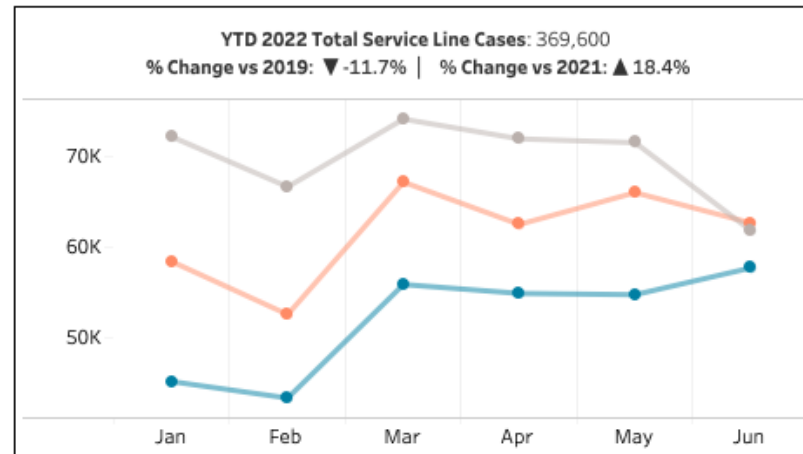
Data as of 6/30/2022

Endocrine



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Diabetes Mellitus	321,918	▲ 2.9%	▲ 2.0%	11,015	▼ -8.6%	▼ -7.5%
Thyroid Disorders	156,526	▼ -5.4%	▲ 1.6%	558	▼ -32.3%	▼ -7.9%
Other Endocrine Disorders	63,465	▲ 10.5%	▲ 7.5%	2,056	▲ 2.7%	▲ 0.1%

ENT



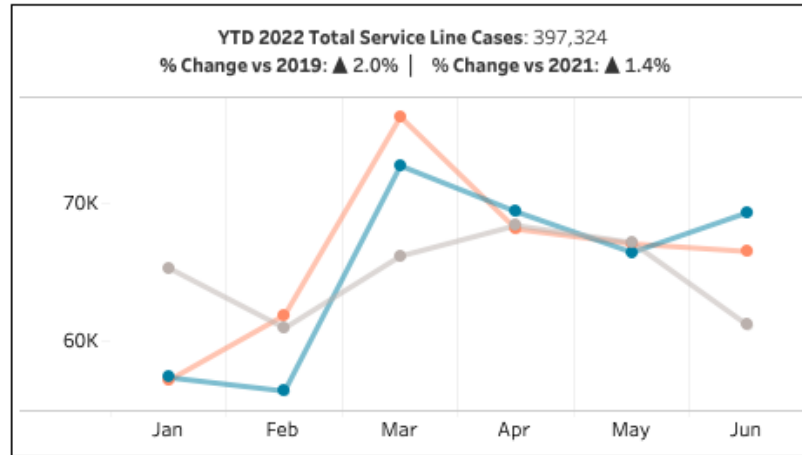
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Tonsillitis	83,779	▼ -26.3%	▲ 32.8%	216	▼ -47.7%	▼ -13.3%
Chronic Otitis Media and Sinusitis	55,672	▲ 15.5%	▲ 22.6%	240	▼ -32.4%	▲ 4.8%
Dizziness	48,473	▲ 1.7%	▼ -0.5%	432	▼ -29.3%	▼ -23.0%
Other Ear Disease	45,229	▼ -2.9%	▲ 5.3%	125	▼ -13.2%	▲ 3.3%
Acute Otitis Media and Sinusitis	43,883	▼ -35.7%	▲ 77.7%	137	▼ -37.2%	▲ 41.2%

2019 2022
2021

Academic Medical Centers Service Line and CARE Family Volume Tracker

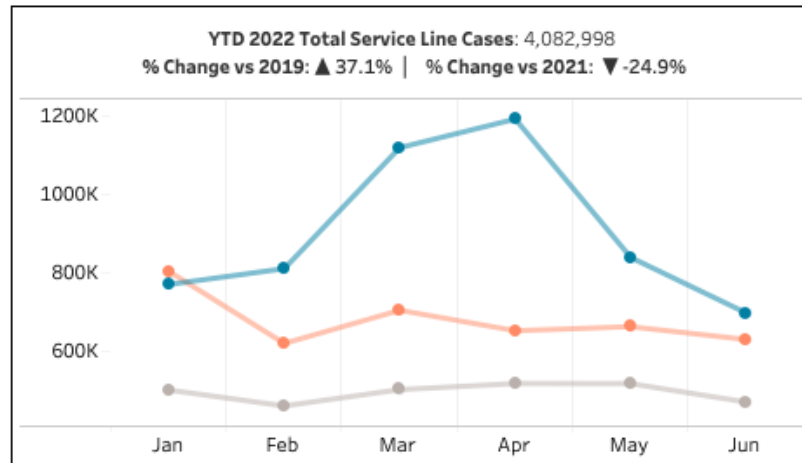
Data as of 6/30/2022

Gastroenterology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Gastrointestinal Diagnosis	101,443	▲ 8.7%	▲ 4.8%	3,684	▼ -11.1%	▼ -7.1%
Esophageal Disease Including GERD	96,257	▲ 0.7%	▼ -1.5%	2,206	▼ -6.1%	▼ -5.8%
Inflammatory Bowel Disease	82,528	▲ 3.6%	▲ 7.4%	3,337	▼ -14.5%	▼ -11.4%
Diseases of the Anus/Rectum	35,251	▲ 0.6%	▼ -3.8%	1,300	▼ -16.4%	▼ -6.5%
Gastritis and Gastroduodenal Ulcer	21,270	▼ -14.8%	▼ -8.3%	1,502	▼ -14.7%	▼ -15.8%

General Medicine



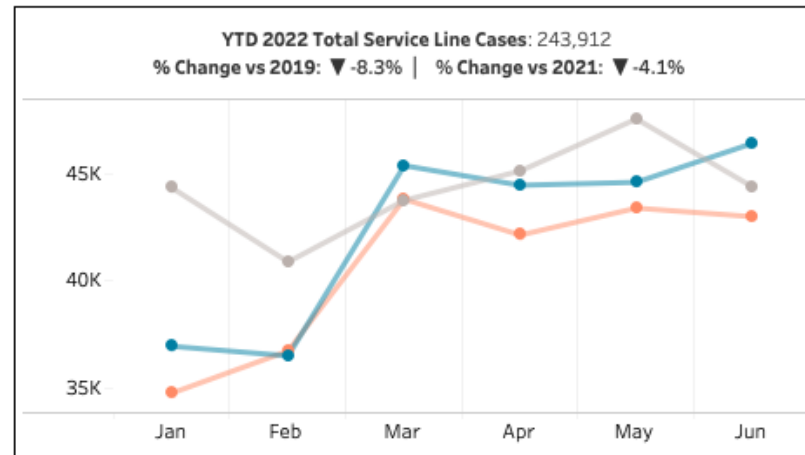
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Screenings and Follow-Up Encounters	2,020,990	▲ 102.3%	▼ -42.2%	653	▲ 8.5%	▲ 8.5%
Preventative Wellness Visits	427,145	▲ 13.2%	▼ -0.3%	1	▼ -50.0%	
Nonspecific Clinical and Laboratory Findings	275,857	▲ 18.7%	▲ 15.9%	372	▼ -25.9%	▼ -7.9%
Hypertension	255,508	▼ -1.2%	▲ 1.3%	2,384	▼ -22.2%	▼ -6.4%
Abdominal Pain	173,118	▼ -5.1%	▲ 1.4%	614	▼ -38.8%	▼ -22.0%



Academic Medical Centers Service Line and CARE Family Volume Tracker

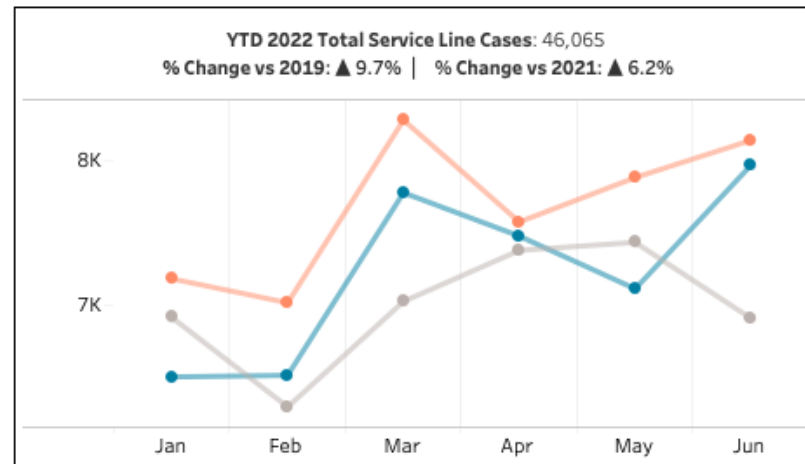
Data as of 6/30/2022

General Surgery



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Complications of Surgery Device Implant or Graft - Surgery	47,363	▼ -6.9%	▼ -2.0%	13,698	▼ -9.0%	▼ -6.2%
Blunt or Penetrating Injury	38,608	▼ -5.8%	▲ 6.1%	5,028	▲ 0.6%	▼ -2.0%
Other Postsurgical Care Including Device/Prosthesis Fitting	33,840	▼ -30.1%	▼ -25.2%	307	▼ -18.8%	▼ -5.5%
Hernia	32,382	▼ -4.5%	▲ 0.9%	2,122	▼ -20.5%	▼ -1.4%
Biliary Disease including Cholecystitis	31,467	▼ -1.0%	▼ -0.9%	4,527	▼ -20.7%	▼ -11.5%

Genetics



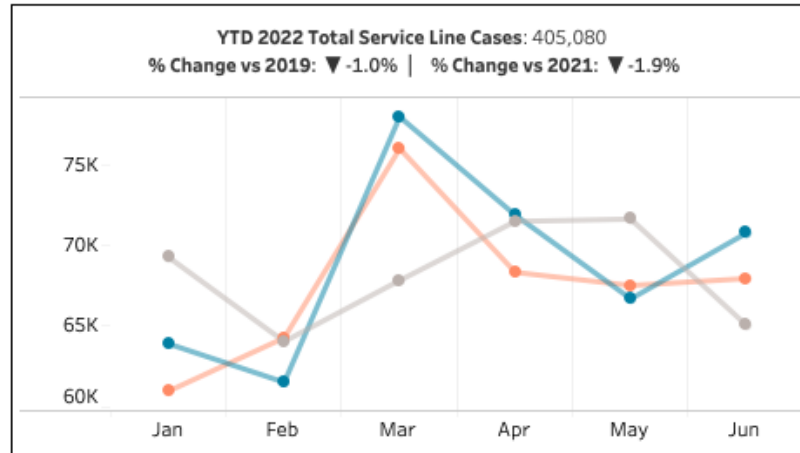
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Inborn Errors of Metabolism	23,217	▲ 4.4%	▲ 1.4%	306	▼ -7.3%	▲ 10.5%
Genetic Syndromes	22,848	▲ 15.7%	▲ 11.6%	255	▲ 4.1%	▲ 0.4%



Academic Medical Centers Service Line and CARE Family Volume Tracker

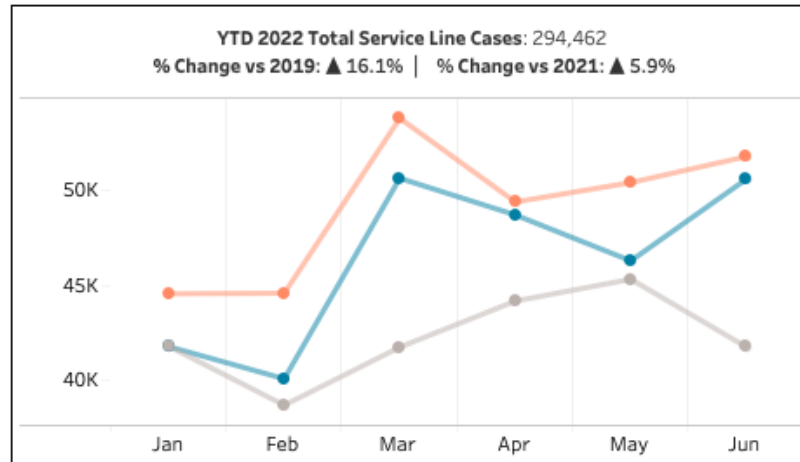
Data as of 6/30/2022

Gynecology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Gynecologic Wellness and Screening	140,266	▲ 2.4%	▼ -0.7%	0		
Benign Gynecologic Neoplasms	91,891	▼ -4.0%	▼ -2.3%	2,031	▼ -24.2%	▼ -7.4%
Gynecologic Hormonal Disorders	68,784	▲ 6.1%	▼ -1.8%	47	▼ -13.0%	▼ -9.6%
Pelvic Floor Disorders	41,155	▲ 9.5%	▲ 9.2%	264	▼ -35.8%	▼ -2.9%
Contraception	40,220	▼ -14.3%	▼ -10.6%	16	▲ 300.0%	▼ -15.8%

Hematology



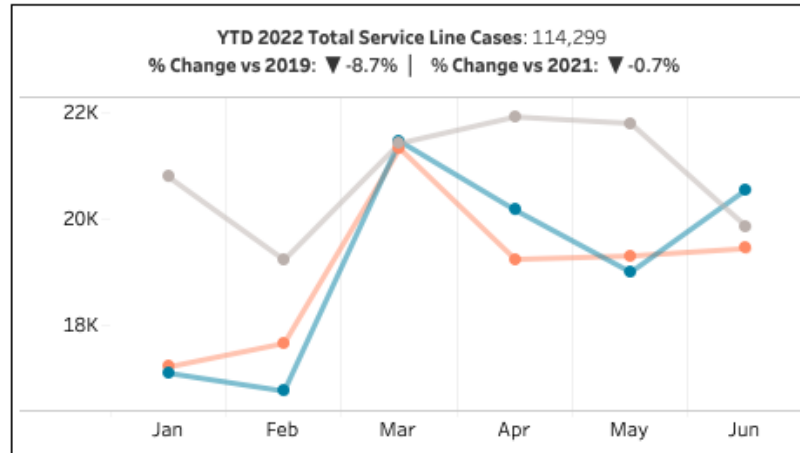
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Hematologic Disorders	137,296	▲ 19.9%	▲ 5.4%	3,138	▼ -19.2%	▼ -5.0%
Anemia	130,196	▲ 15.6%	▲ 7.2%	2,290	▼ -18.9%	▼ -14.8%
Disorders of Hemoglobin Including Sickle Cell	26,970	▲ 2.1%	▲ 2.6%	3,053	▼ -7.0%	▲ 5.6%



Academic Medical Centers Service Line and CARE Family Volume Tracker

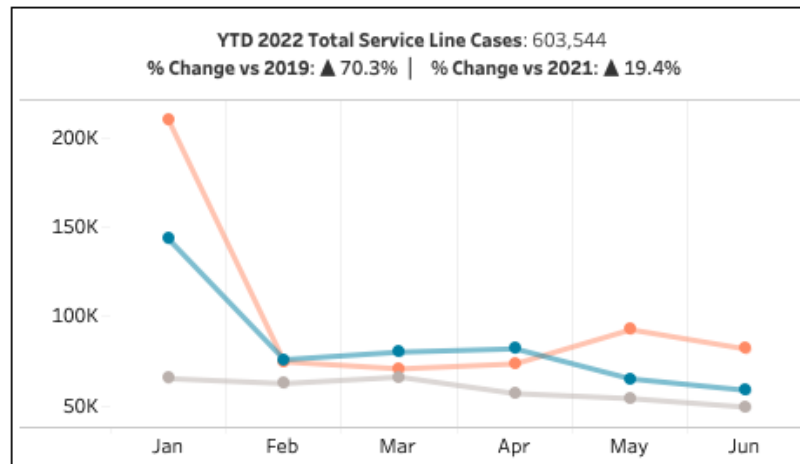
Data as of 6/30/2022

Hepatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Liver Disease Noninfective	42,964	▼ -4.3%	▼ -0.2%	1,301	▼ -10.7%	▼ -14.5%
Advanced Liver Disease	35,175	▼ -1.5%	▼ -1.1%	4,561	▼ -4.7%	▼ -10.6%
Fatty Liver Disease	19,322	▲ 24.1%	▲ 6.8%	107	▼ -13.0%	▼ -18.3%
Hepatitis	16,838	▼ -41.9%	▼ -8.7%	200	▼ -51.5%	▲ 22.7%

Infectious Disease



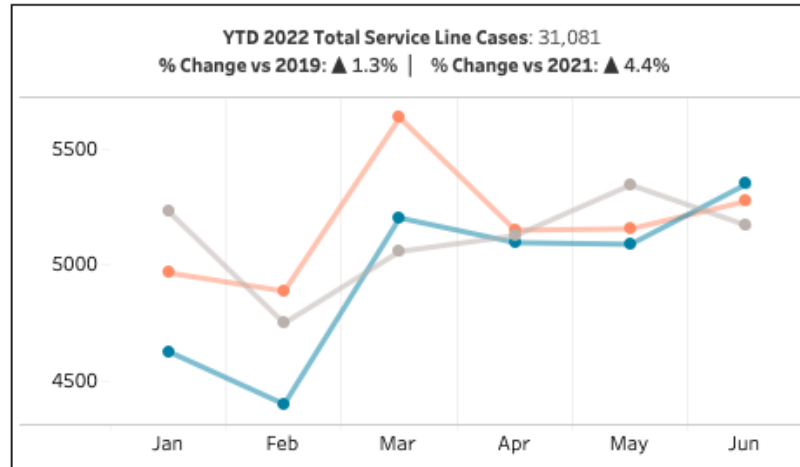
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
COVID-19 Infection	279,057		▲ 72.9%	36,479		▲ 15.1%
Other Infectious and Parasitic Diseases	126,387	▲ 12.9%	▼ -25.5%	1,843	▼ -31.8%	▼ -5.1%
Gastroenteritis and Intestinal Infections	44,511	▼ -6.3%	▲ 16.7%	1,832	▼ -21.7%	▲ 28.9%
HIV Infection	35,302	▼ -16.7%	▲ 1.4%	299	▼ -47.4%	▼ -12.3%
Septicemia	33,013	▼ -13.2%	▲ 0.0%	28,378	▼ -16.6%	▼ -0.3%

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Academic Medical Centers Service Line and CARE Family Volume Tracker

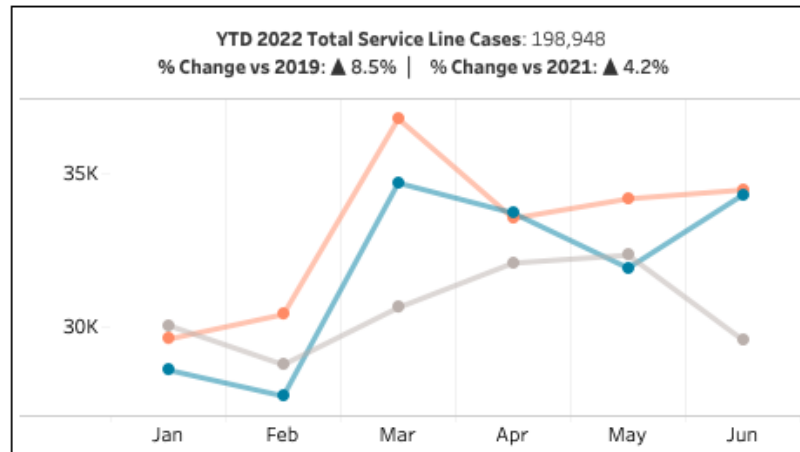
Data as of 6/30/2022

Neonatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Neonate with Respiratory Condition	6,501	▼ -1.5%	▲ 5.2%	1,971	▼ -10.4%	▲ 2.1%
Prematurity (32-36 weeks gestation) and SGA	6,298	▼ -0.5%	▲ 1.8%	839	▼ -24.2%	▼ -16.1%
Neonatal Conditions - Other	4,774	▲ 1.7%	▼ -0.1%	526	▲ 8.5%	▲ 5.2%
Neonate with Metabolic Condition	3,974	▼ -0.5%	▲ 4.8%	807	▼ -15.1%	▼ -4.5%
Neonate Affected by Maternal Condition, Including NAS	2,294	▲ 11.9%	▲ 12.8%	155	▼ -33.8%	▼ -16.7%

Nephrology



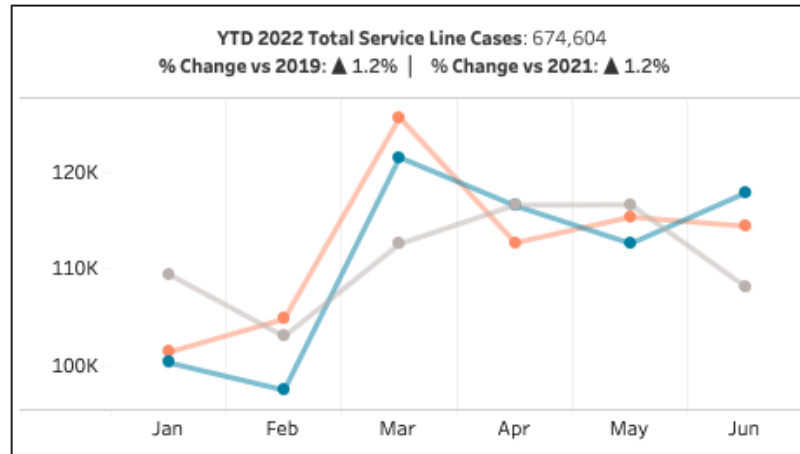
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Chronic Kidney Disease	103,078	▲ 14.0%	▲ 6.4%	623	▼ -10.2%	▲ 1.5%
Acute Kidney Injury and Nephritis	41,131	▲ 2.8%	▲ 4.4%	248	▼ -29.7%	▼ -3.1%
End Stage Renal Disease	36,776	▲ 3.7%	▼ -0.5%	3,782	▼ -5.5%	▼ -3.4%
Acute Renal Failure	17,963	▲ 3.0%	▲ 1.8%	6,365	▼ -20.7%	▼ -4.5%

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Academic Medical Centers Service Line and CARE Family Volume Tracker

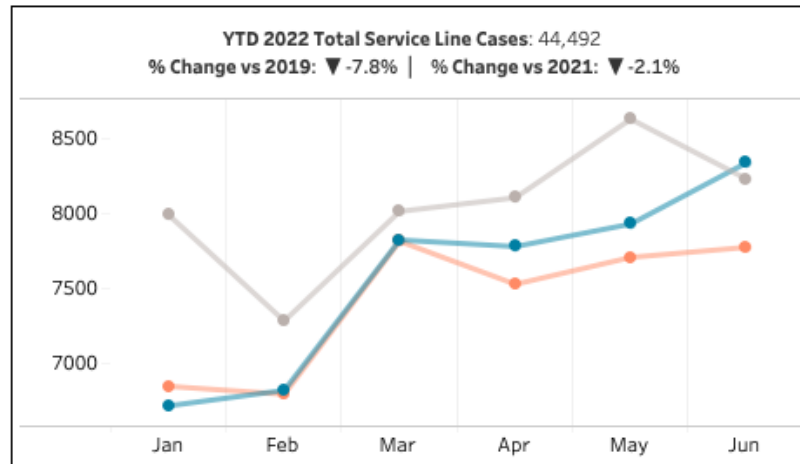
Data as of 6/30/2022

Neurosciences



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Headache/Migraine	99,856	▼ -7.3%	▼ -1.9%	800	▼ -42.1%	▼ -18.2%
Neuropathy and Pain Conditions	79,665	▲ 4.1%	▲ 0.5%	1,537	▼ -13.8%	▼ -7.1%
Epilepsy and Seizure Disorders	71,238	▼ -5.7%	▲ 0.5%	6,157	▼ -18.9%	▼ -10.6%
Neurologic Disease - Other	53,340	▲ 19.4%	▲ 2.6%	549	▼ -20.5%	▼ -14.1%
Abnormal Gait and Movement Disorders	45,412	▲ 9.8%	▲ 5.0%	701	▼ -19.7%	▼ -18.3%

Normal Newborn



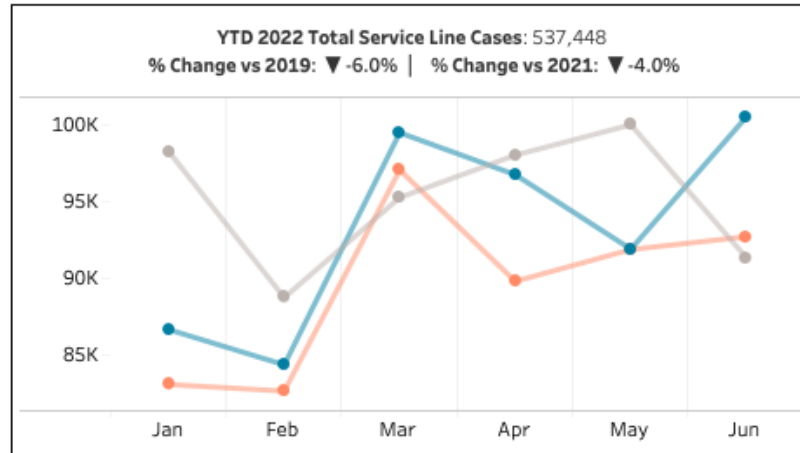
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Liveborn	35,208	▼ -10.0%	▼ -1.2%	3,773	▼ -16.0%	▼ -12.6%
Perinatal Jaundice	9,284	▲ 1.3%	▼ -5.2%	767	▲ 4.4%	▼ -5.3%

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Academic Medical Centers Service Line and CARE Family Volume Tracker

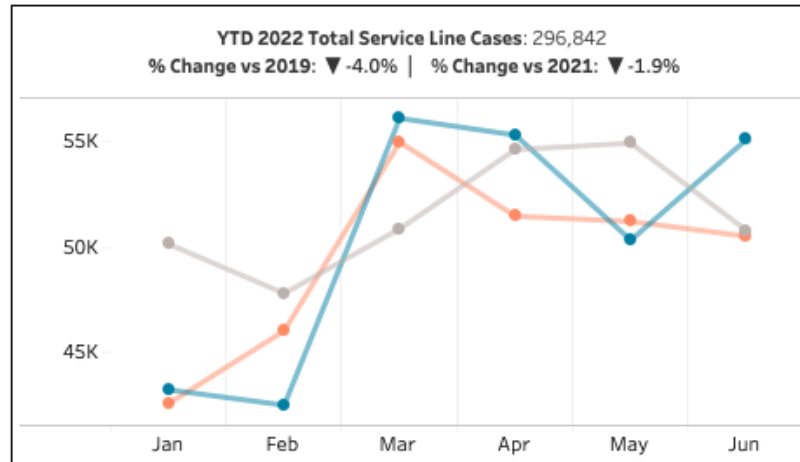
Data as of 6/30/2022

Obstetrics



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Normal Pregnancy/Delivery	268,603	▼ -9.9%	▼ -4.3%	21,330	▼ -7.0%	▲ 3.7%
Antepartum Conditions and High Risk Pregnancy	177,876	▲ 3.8%	▼ -3.0%	26,023	▲ 4.7%	▲ 0.4%
Early Pregnancy w/ Complication or Abortive Outcome	38,061	▲ 2.0%	▼ -2.6%	749	▼ -9.3%	▼ -9.2%
Infertility	28,500	▲ 10.4%	▼ -7.0%	4	▲ 0.0%	▼ -20.0%
Complications of Labor Delivery or Postpartum Period	24,408	▼ -37.7%	▼ -7.0%	11,349	▼ -21.5%	▼ -7.6%

Ophthalmology



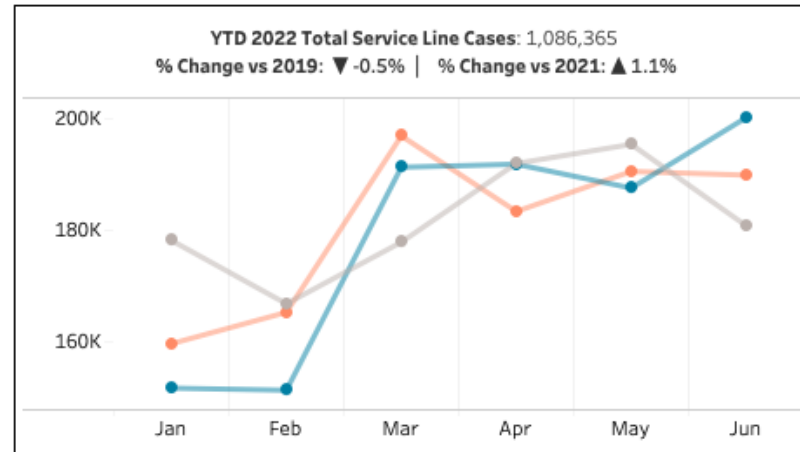
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Eye and Vision Conditions	106,766	▼ -3.4%	▲ 0.4%	952	▲ 8.9%	▲ 12.5%
Retinal Conditions	72,740	▼ -0.9%	▼ -2.4%	226	▲ 4.6%	▲ 22.2%
Cataract	50,067	▼ -1.8%	▼ -2.2%	11	▼ -15.4%	▼ -21.4%
Glaucoma	44,851	▼ -10.2%	▼ -5.4%	36	▲ 9.1%	▼ -28.0%
Corneal Conditions	22,418	▼ -7.9%	▼ -3.5%	106	▼ -8.6%	▼ -19.7%



Academic Medical Centers Service Line and CARE Family Volume Tracker

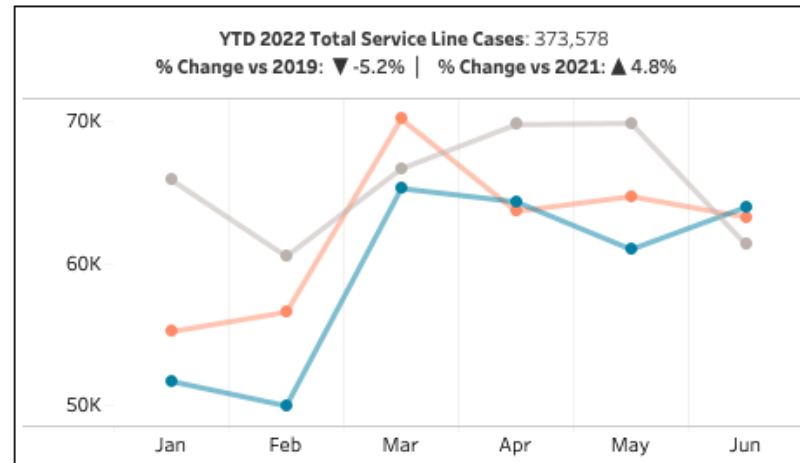
Data as of 6/30/2022

Orthopedics



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Musculoskeletal Injury - Shoulder/Elbow/Upper Arm	164,149	▼ -4.6%	▼ -3.8%	1,700	▼ -31.3%	▼ -15.4%
Other Musculoskeletal Injuries and Conditions	143,575	▲ 13.4%	▲ 5.8%	2,885	▼ -16.8%	▼ -13.2%
Musculoskeletal Injury - Lower Leg/Foot/Ankle	142,563	▼ -4.1%	▲ 1.6%	4,157	▼ -8.4%	▼ -5.8%
Musculoskeletal Injury - Knee	139,296	▼ -2.7%	▲ 2.5%	563	▼ -19.0%	▼ -8.8%
Musculoskeletal Injury - Hand/Wrist/Forearm	133,631	▼ -1.3%	▲ 1.6%	1,306	▼ -10.5%	▼ -13.9%

Pulmonology



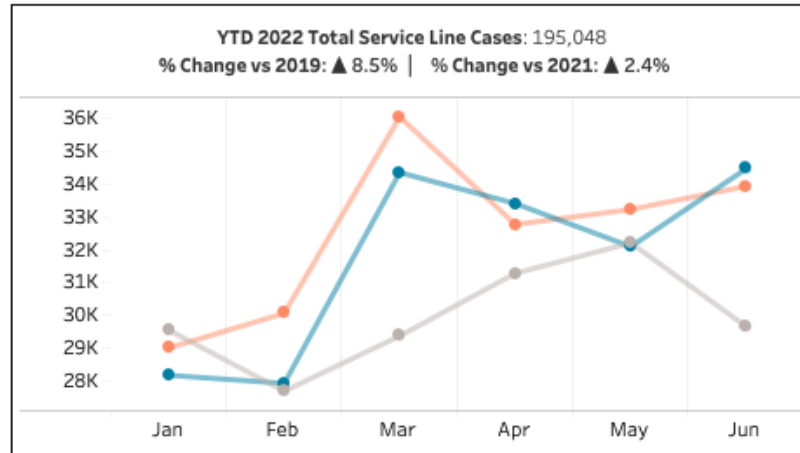
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Respiratory Conditions including Pleural Effusions	153,186	▲ 13.3%	▲ 2.3%	2,571	▼ -14.2%	▼ -2.1%
Asthma	66,424	▼ -14.4%	▲ 12.0%	2,661	▼ -31.4%	▲ 16.1%
Sleep Apnea	59,733	▼ -19.5%	▲ 0.2%	177	▼ -42.0%	▼ -24.4%
Chronic Obstructive Pulmonary Disease	41,181	▼ -22.9%	▲ 6.5%	3,603	▼ -48.5%	▼ -5.7%
Chronic Lung Disease	20,828	▲ 10.2%	▲ 11.4%	1,253	▼ -2.9%	▼ -6.6%

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Academic Medical Centers Service Line and CARE Family Volume Tracker

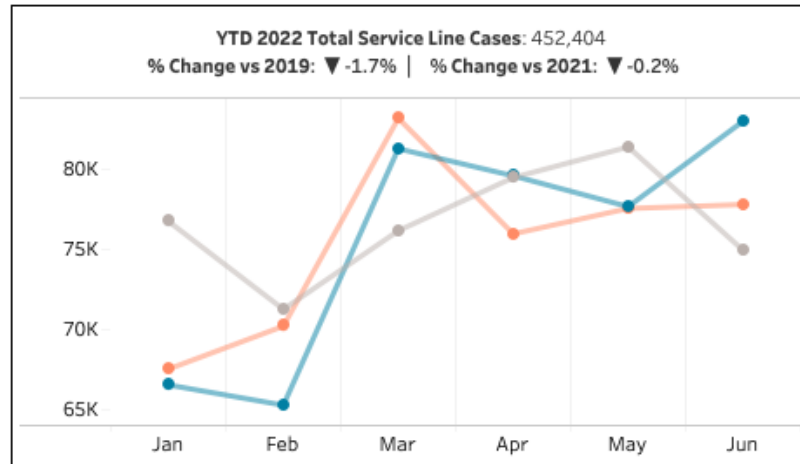
Data as of 6/30/2022

Rheumatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Inflammatory and Autoimmune Diseases	74,366	▲ 7.0%	▲ 1.4%	941	▼ -29.1%	▼ -13.7%
Other Connective Tissue Disorders	68,848	▲ 9.0%	▲ 3.4%	321	▼ -25.7%	▼ -18.1%
Rheumatoid Arthritis	42,087	▲ 11.4%	▲ 2.0%	138	▼ -32.0%	▲ 0.7%
Vasculitis	9,747	▲ 5.4%	▲ 5.2%	451	▼ -16.9%	▲ 4.4%

Spine



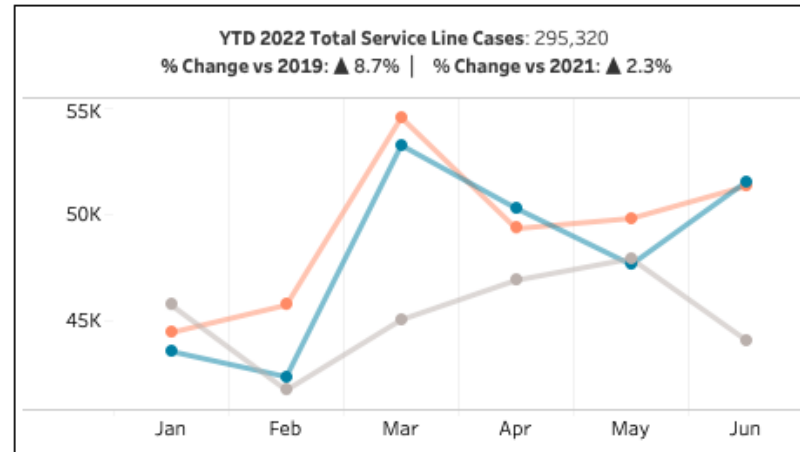
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Nonspecific Back and Neck Pain	274,374	▼ -2.1%	▲ 0.9%	736	▼ -22.9%	▼ -9.0%
Degenerative Spine and Disc Injury	137,423	▼ -1.6%	▼ -2.3%	7,523	▼ -15.2%	▼ -2.8%
Spinal Fracture or Dislocation	17,480	▲ 7.1%	▲ 1.3%	3,620	▼ -4.6%	▼ -0.7%
Deformities and Curvature of Spine	12,153	▼ -8.8%	▼ -3.7%	506	▼ -0.8%	▼ -13.5%
Spinal Cord Conditions	4,617	▲ 17.7%	▲ 4.0%	260	▼ -22.4%	▼ -13.6%



Academic Medical Centers Service Line and CARE Family Volume Tracker

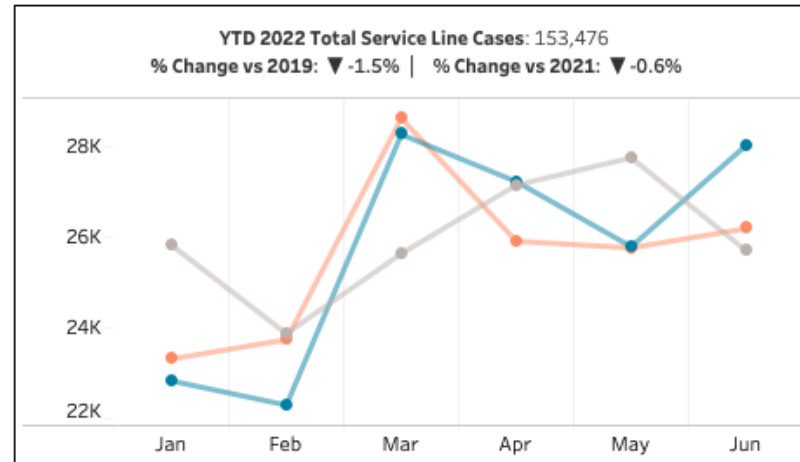
Data as of 6/30/2022

Urology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Kidney Bladder and Genitourinary Disease	114,735	▲ 11.1%	▲ 2.8%	1,618	▼ -19.3%	▼ -13.6%
Incontinence	59,940	▲ 7.8%	▲ 2.2%	122	▼ -20.3%	▼ -13.5%
Urinary Calculus	54,407	▲ 5.6%	▲ 2.2%	1,283	▼ -18.6%	▼ -13.7%
Benign Prostatic Hyperplasia	28,034	▲ 25.5%	▲ 5.7%	350	▼ -17.8%	▼ -11.2%
Mens Reproductive Health	22,806	▼ -0.3%	▼ -0.2%	37	▼ -5.1%	▲ 8.8%

Vascular



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Peripheral Vascular Disease	45,658	▲ 0.5%	▲ 0.9%	2,073	▼ -5.2%	▼ -7.7%
Disease of Venous System (Varicose Veins Phlebitis Hemorrhoids)	38,229	▲ 3.4%	▼ -1.7%	515	▼ -11.4%	▼ -5.9%
Venous Thromboembolism	37,432	▼ -9.3%	▼ -2.5%	4,010	▼ -18.6%	▼ -16.0%
Aneurysms	23,135	▲ 8.8%	▲ 4.8%	2,515	▼ -7.3%	▲ 0.5%
Complications of Surgery Device Implant or Graft - Vascular	7,224	▼ -18.0%	▼ -8.5%	1,831	▼ -16.4%	▼ -12.3%

StrataSphere® Research Report

Children's Hospitals

National Patient and Procedure Volume Tracker – Volume Data
Service Line and CARE Family Volume Tracker

The Children's Hospitals' financial data will be shared with our participating Children's Hospitals in a separate report.

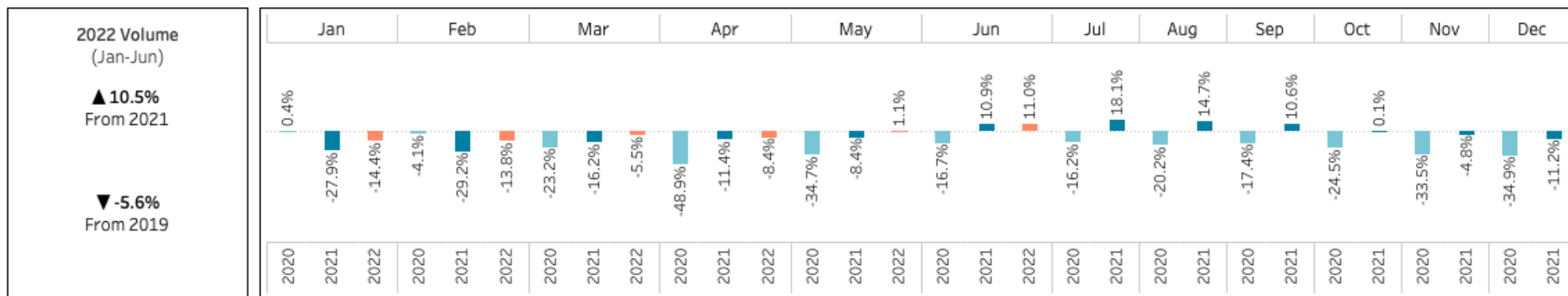


Children's Hospitals Monthly Volume Changes Compared to 2019

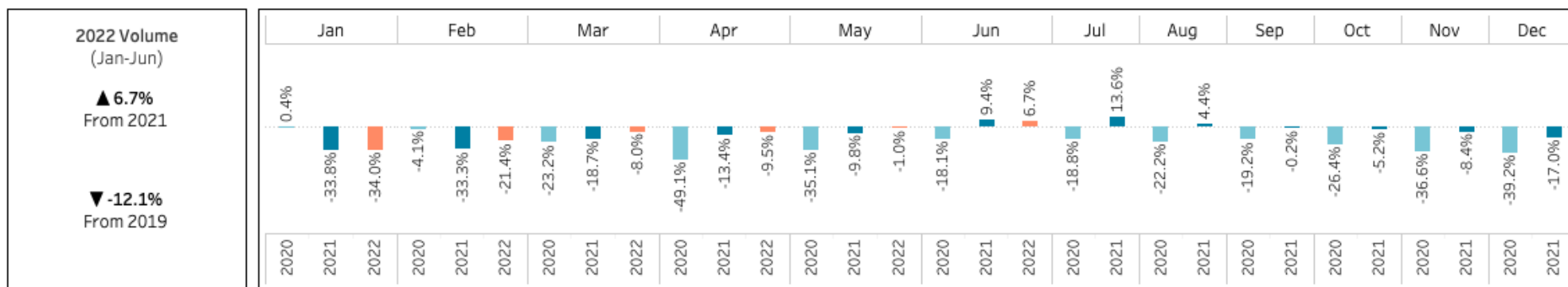
Data as of 6/30/2022

Inpatient volumes started to exceed pre-COVID-19 levels in June 2021. If COVID-19 admissions are excluded, the inpatient volumes do continue to exceed pre-COVID-19 levels, but for a smaller timeframe. This data set represents 15 Children's Hospitals.

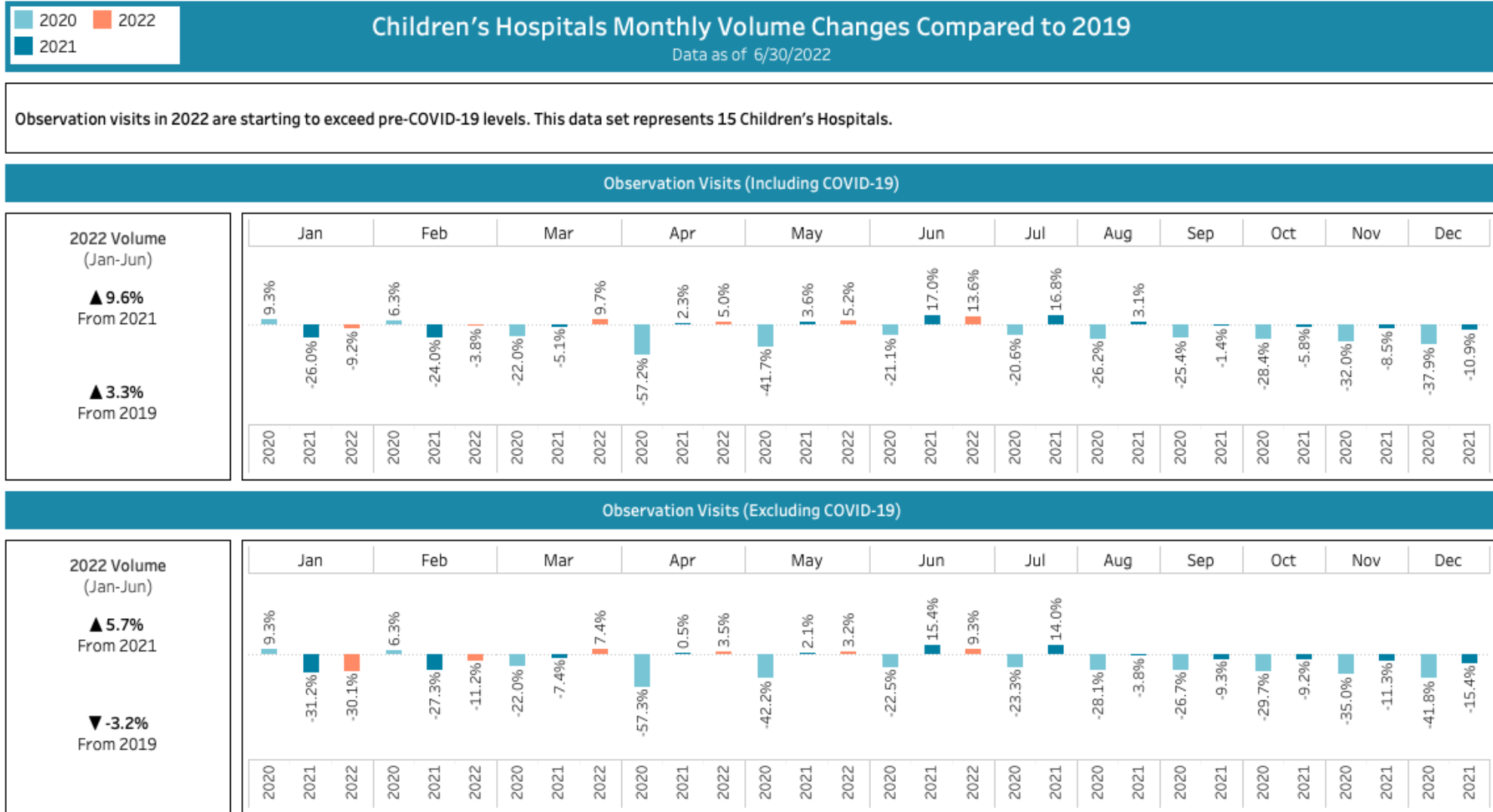
Inpatient Admissions (Including COVID-19)



Inpatient Admissions (Excluding COVID-19)



Participating StrataSphere organizations who are fully implemented in StrataJazz Decision Support receive a version of this report with their organization's data compared to the regional and national data set. This client-specific report is distributed quarterly by an email from Peter Tzioumis. If you would like a copy of your organization's report, please contact your Strata Team to be added to the distribution list.



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Children's Hospitals Monthly Volume Changes Compared to 2019

Data as of 6/30/2022

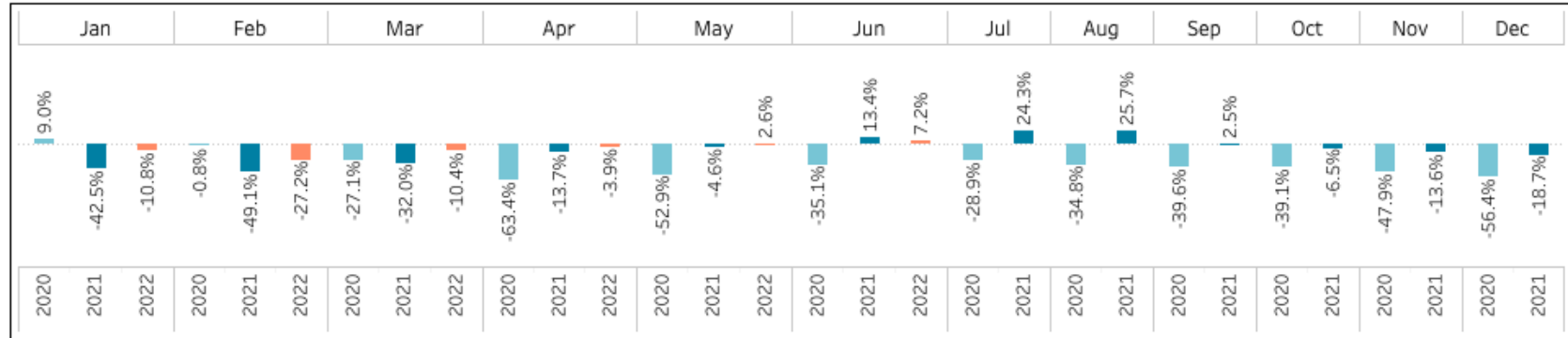
Emergency volumes in 2022 have just started to exceed pre-COVID-19 levels. This is true even when COVID-19 encounters are removed from the data set. This data set represents 15 Children's Hospitals.

Emergency Visits (Including COVID-19)

2022 Volume
(Jan-Jun)

▲ 20.1%
From 2021

▼ -7.9%
From 2019

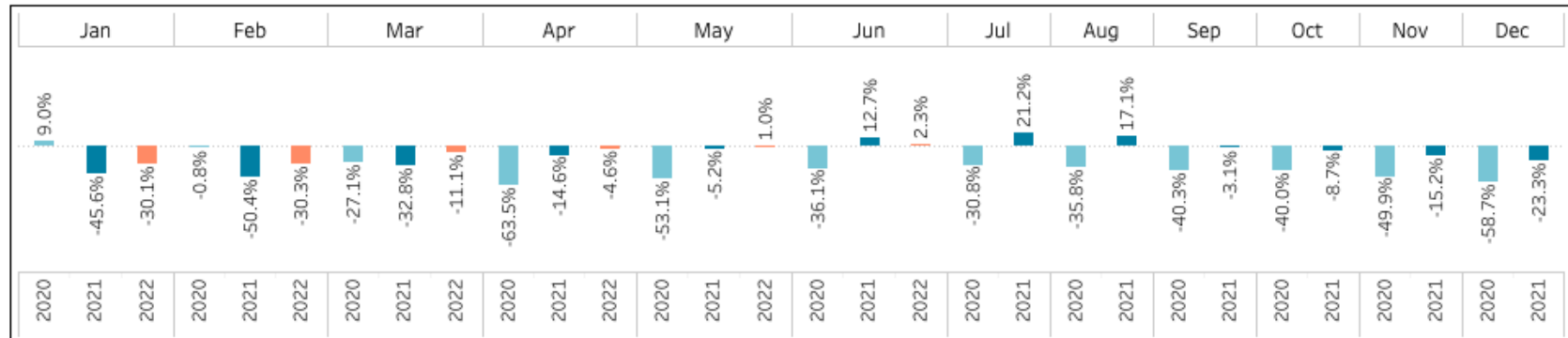


Emergency Visits (Excluding COVID-19)

2022 Volume
(Jan-Jun)

▲ 15.3%
From 2021

▼ -13.0%
From 2019



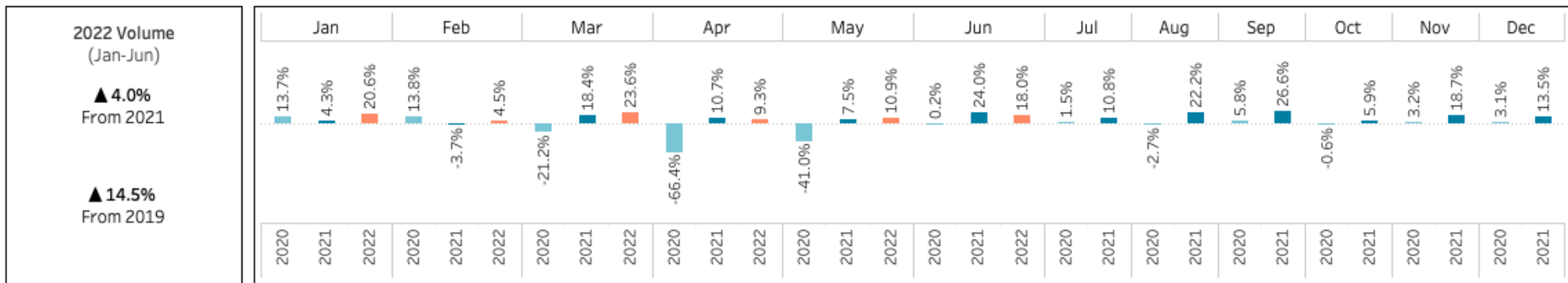
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Children's Hospitals Monthly Volume Changes Compared to 2019

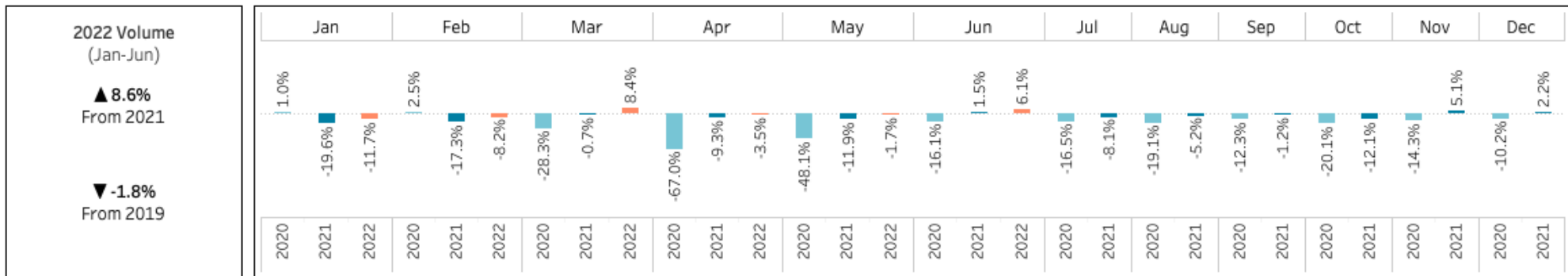
Data as of 6/30/2022

Outpatient volumes have exceeded pre-COVID-19 levels. However, most of the additional volume can be attributed to COVID-19 testing and possibly some vaccine administration. If these encounters are excluded, only two months in 2022 have exceeded 2019 volumes. This data set represents 15 Children's Hospitals.

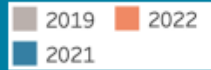
Outpatient Visits (Including COVID-19)



Outpatient Visits (Excluding COVID-19)



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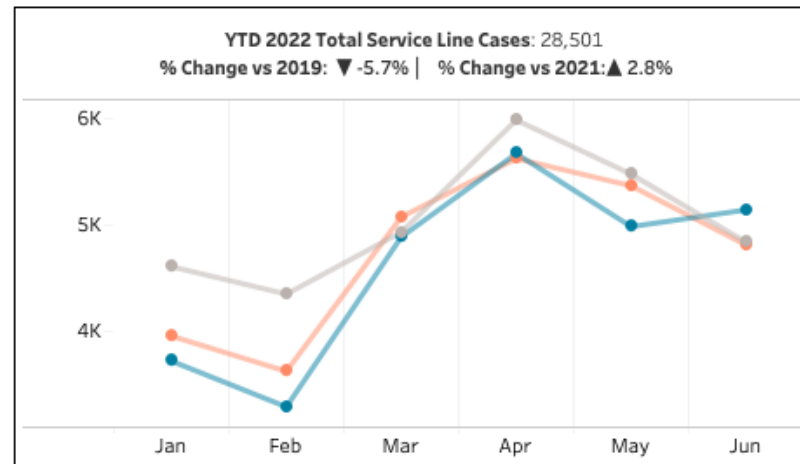
Children's Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

Commentary

This section looks at service line changes by volume to better understand if service lines are operating at the 2019 pre-COVID-19 levels or the 2021 post-COVID-19 levels (2020 volumes were excluded as that year is not comparable). Please note that the y axes of the following charts are scaled to the data and therefore are not consistent between charts. The top five Sg2 CARE Families by 2022 volumes are also shown for each service line to illustrate shifts in specific patient diagnosis groups (blanks may appear in these tables for instances in which 2022 or the comparison year had zero cases). Of note, many service lines are shifting to more outpatient care. This is demonstrated by reviewing the % Change vs 2019 (IP) and % Change vs 2021 (IP) metrics. For example, Endocrine volumes are exceeding 2019 volumes, however, inpatient volumes are down compared to 2019. In 2022, Behavioral Health, Endocrine, Genetics, and Orthopedics have exceeded 2019 volumes. Conversely, Allergy and Immunology, Breast Health, Dermatology, ENT, Nephrology, and Obstetrics have not yet achieved 2019 levels. This data set represents 15 Children's Hospitals.

Allergy and Immunology



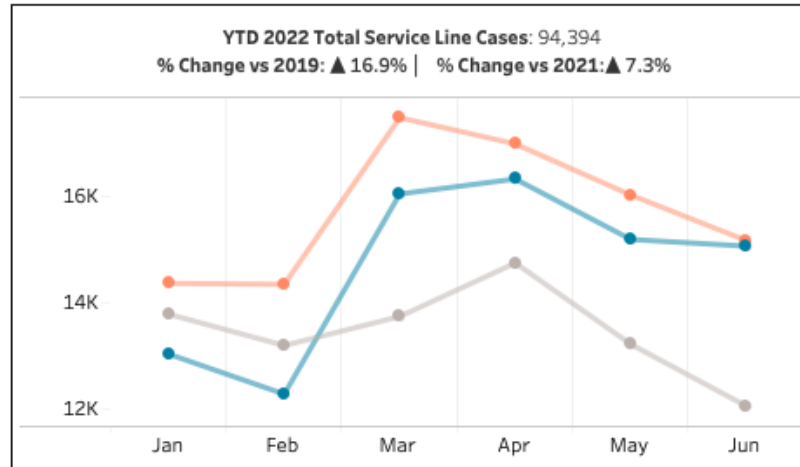
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Allergy	21,824	▼ -3.3%	▲ 2.9%	52	▲ 6.1%	▲ 2.0%
Transplant Aftercare	4,567	▼ -11.9%	▼ -1.1%	95	▼ -40.6%	▼ -35.4%
Immunological Deficiency	2,110	▼ -15.2%	▲ 10.6%	7	▼ -30.0%	▼ -12.5%



Children's Hospitals Service Line and CARE Family Volume Tracker

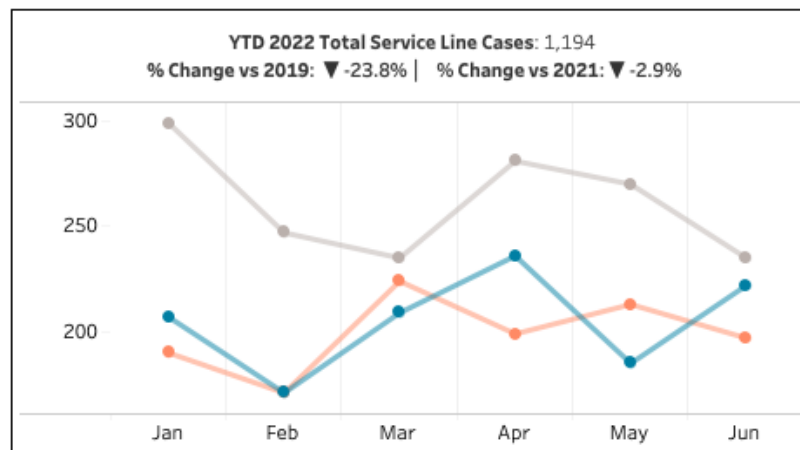
Data as of 6/30/2022

Behavioral Health



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Learning Disorders	34,420	▲ 28.6%	▲ 11.6%	6	▲ 100.0%	▲ 20.0%
Anxiety and Personality Disorders	13,852	▲ 8.6%	▲ 2.0%	201	▲ 22.6%	▼ -22.1%
Autism	12,061	▲ 37.2%	▲ 17.6%	15	▲ 150.0%	▲ 0.0%
Mood Disorders Episodic	11,432	▲ 16.4%	▼ -2.2%	1,060	▲ 112.9%	▲ 7.2%
Attention Deficit Hyperactivity Disorder	9,302	▼ -5.7%	▲ 14.1%	11	▲ 37.5%	▼ -54.2%

Breast Health



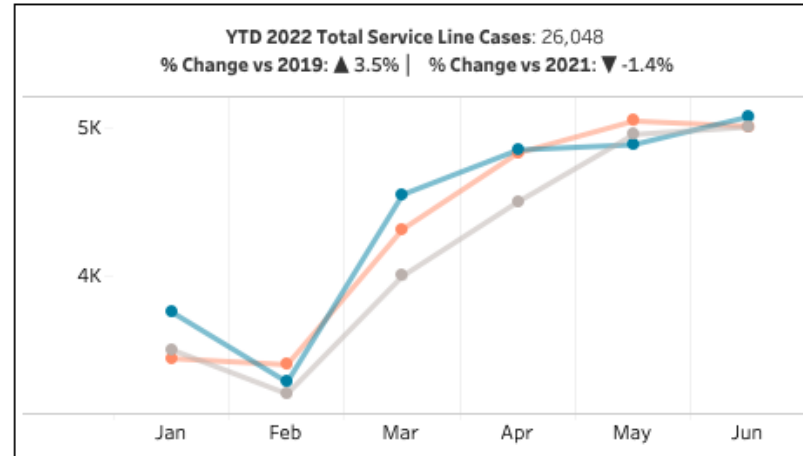
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Breast Conditions - Non-Cancer	1,194	▼ -23.8%	▼ -2.9%	10	▼ -28.6%	▲ 42.9%



Children's Hospitals Service Line and CARE Family Volume Tracker

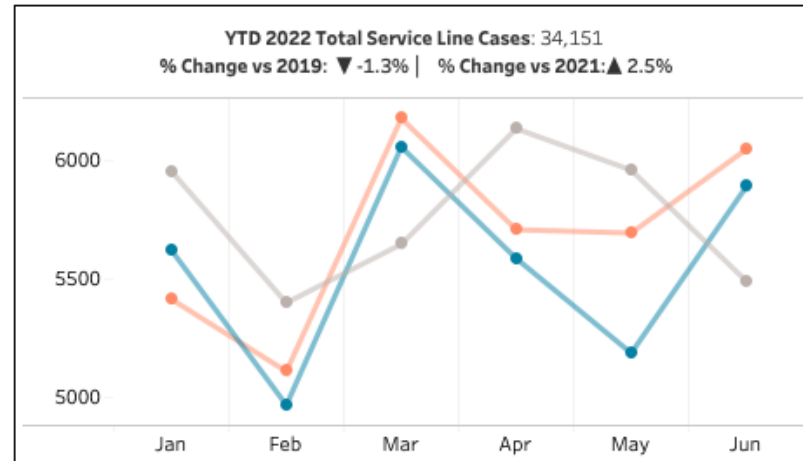
Data as of 6/30/2022

Burns and Wounds



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Open or Superficial Wounds	22,246	▲ 1.5%	▼ -1.0%	127	▲ 33.7%	▲ 5.0%
Burns	3,399	▲ 14.5%	▼ -5.3%	114	▼ -7.3%	▼ -12.3%
Soft Tissue Ulcers and Gangrene	403	▲ 46.5%	▲ 19.9%	17	▼ -22.7%	▼ -19.0%

Cancer



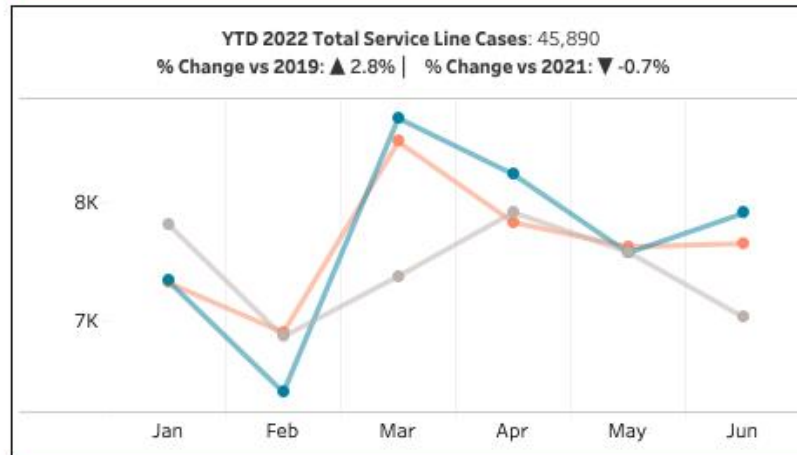
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Leukemias	15,312	▲ 0.1%	▲ 5.1%	762	▲ 14.6%	▲ 20.4%
Bone Cancer and Other Sarcomas	4,104	▼ -3.9%	▲ 4.5%	371	▼ -25.4%	▼ -17.6%
Brain/CNS Cancer	4,061	▼ -4.7%	▼ -3.2%	255	▲ 14.3%	▼ -0.8%
Not Otherwise Classified and Other Cancers	1,987	▼ -3.5%	▲ 2.5%	504	▲ 22.6%	▲ 7.9%
Non-Hodgkin Lymphoma	1,955	▲ 11.5%	▲ 21.3%	156	▲ 13.9%	▲ 38.1%



Children's Hospitals Service Line and CARE Family Volume Tracker

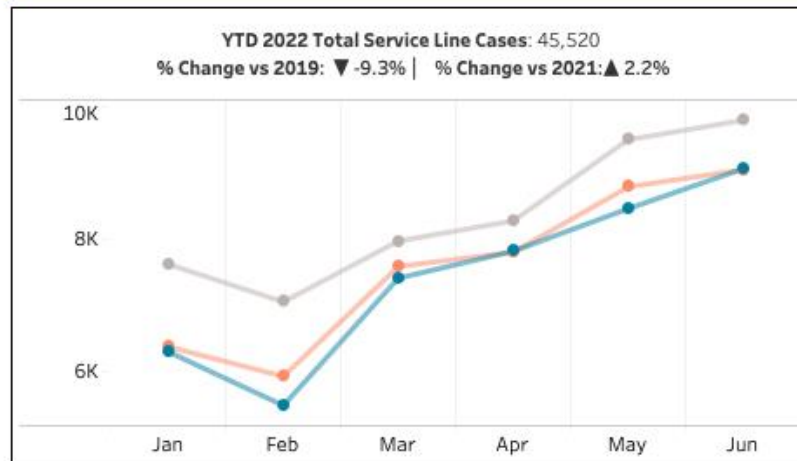
Data as of 6/30/2022

Cardiology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Dysrhythmia	9,984	▼ -2.9%	▼ -1.7%	205	▼ -15.3%	▼ -5.5%
Heart Valve Disease	7,696	▼ -5.2%	▼ -5.2%	119	▼ -9.2%	▲ 9.2%
Chest Pain - Noncardiac	6,844	▲ 8.0%	▲ 3.4%	11	▼ -26.7%	▲ 22.2%
Cardiac Anomaly - Other	6,356	▲ 3.1%	▲ 1.6%	311	▼ -14.3%	▼ -2.5%
Cardiac Anomaly - Septal Defects	5,914	▲ 7.6%	▼ -4.8%	230	▼ -8.4%	▼ -4.2%

Dermatology



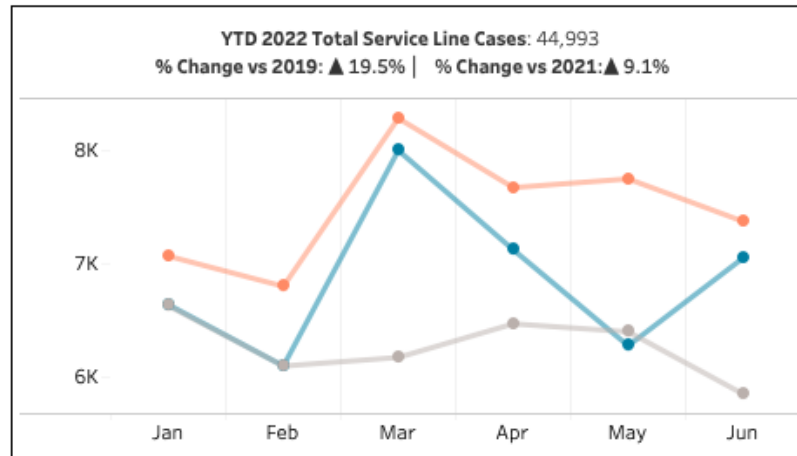
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Dermatitis and Rashes	18,975	▼ -9.2%	▲ 4.7%	40	▼ -48.7%	▲ 5.3%
Skin Infection	13,080	▼ -19.1%	▲ 1.2%	660	▼ -29.9%	▲ 11.9%
Dermatologic Disorders	8,777	▲ 6.7%	▲ 2.1%	41	▼ -10.9%	▲ 41.4%
Benign Skin Neoplasms	4,688	▼ -4.4%	▼ -3.9%	14	▼ -53.3%	▼ -26.3%



Children's Hospitals Service Line and CARE Family Volume Tracker

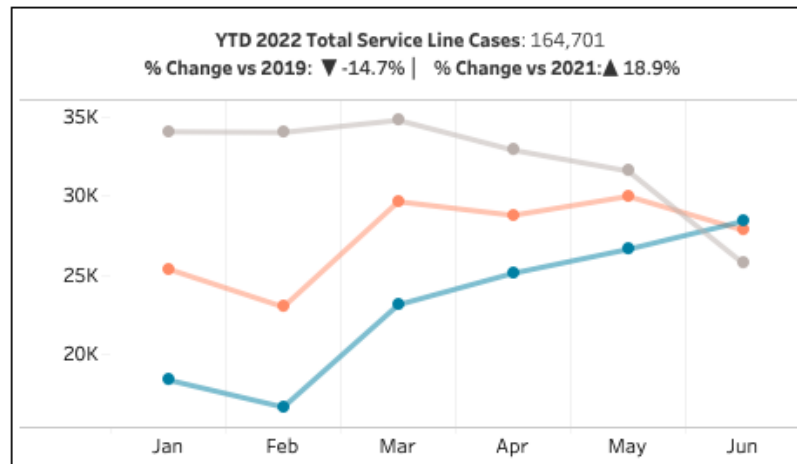
Data as of 6/30/2022

Endocrine



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Diabetes Mellitus	20,414	▲ 26.1%	▲ 7.7%	1,056	▼ -13.9%	▼ -23.3%
Thyroid Disorders	12,407	▲ 11.6%	▲ 11.8%	22	▼ -4.3%	▲ 10.0%
Other Endocrine Disorders	12,172	▲ 17.5%	▲ 8.9%	116	▲ 8.4%	▲ 17.2%

ENT



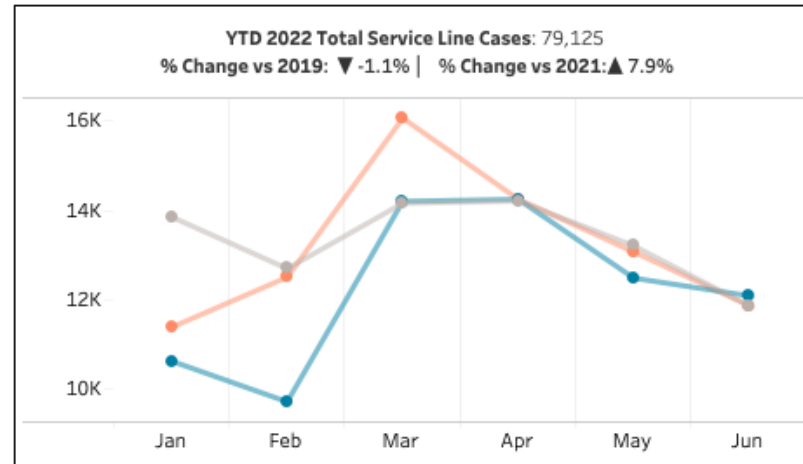
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Acute Otitis Media and Sinusitis	45,139	▼ -15.2%	▲ 66.6%	70	▲ 12.9%	▲ 150.0%
Tonsillitis	24,649	▼ -50.1%	▼ -2.1%	90	▼ -44.8%	▼ -1.1%
Other Ear Disease	21,759	▲ 15.8%	▲ 21.5%	18	▼ -30.8%	▼ -10.0%
Airway Abnormality Including Peritonsillar Abscess	21,230	▼ -3.5%	▲ 5.0%	354	▼ -24.7%	▲ 21.6%
Hearing Loss	16,783	▲ 21.2%	▲ 9.3%	69	▲ 6800.0%	▲ 6800.0%



Children's Hospitals Service Line and CARE Family Volume Tracker

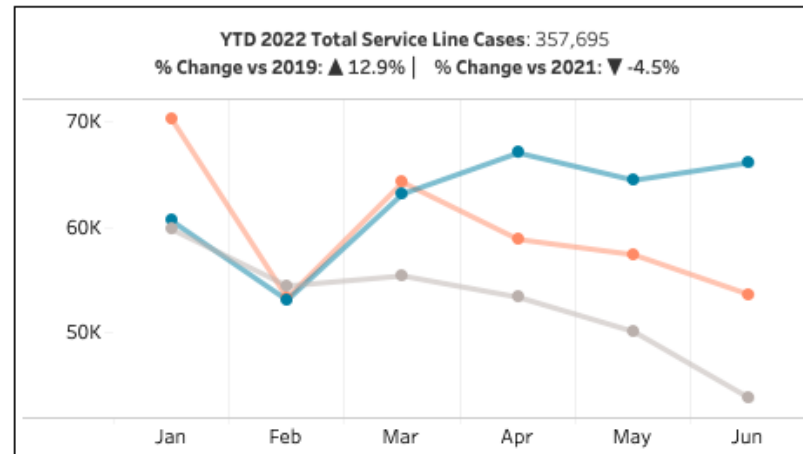
Data as of 6/30/2022

Gastroenterology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Gastrointestinal Diagnosis	32,513	▼ -5.8%	▲ 5.1%	584	▼ -14.7%	▼ -4.4%
Inflammatory Bowel Disease	20,172	▲ 15.5%	▲ 29.6%	382	▲ 1.1%	▼ -7.1%
Esophageal Disease Including GERD	16,619	▼ -6.3%	▼ -5.6%	232	▼ -21.4%	▼ -1.7%
Gastritis and Gastroduodenal Ulcer	2,859	▼ -4.2%	▲ 18.4%	105	▲ 1.0%	▲ 15.4%
Gastrointestinal Congenital Anomaly	2,728	▲ 2.3%	▲ 6.4%	388	▼ -4.0%	▲ 15.5%

General Medicine



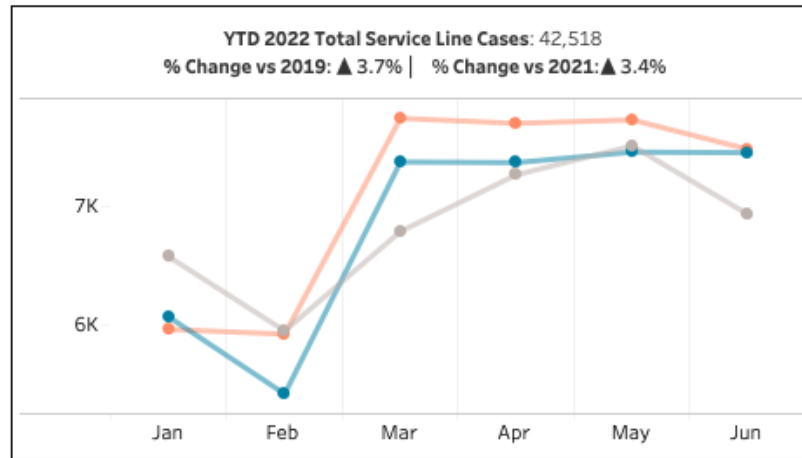
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Screenings and Follow-Up Encounters	79,667	▲ 82.2%	▼ -30.9%	50	▼ -36.7%	▲ 11.1%
Bronchitis and Other Upper Respiratory Disease	50,479	▼ -17.8%	▲ 23.9%	1,831	▼ -45.3%	▲ 60.3%
Nutritional Deficiencies	30,919	▲ 8.0%	▲ 10.8%	898	▲ 8.5%	▲ 5.9%
Nonspecific Clinical and Laboratory Findings	30,608	▲ 6.0%	▲ 6.1%	46	▼ -13.2%	▲ 4.5%
Preventative Wellness Visits	29,158	▲ 75.7%	▲ 0.4%	0		



Children's Hospitals Service Line and CARE Family Volume Tracker

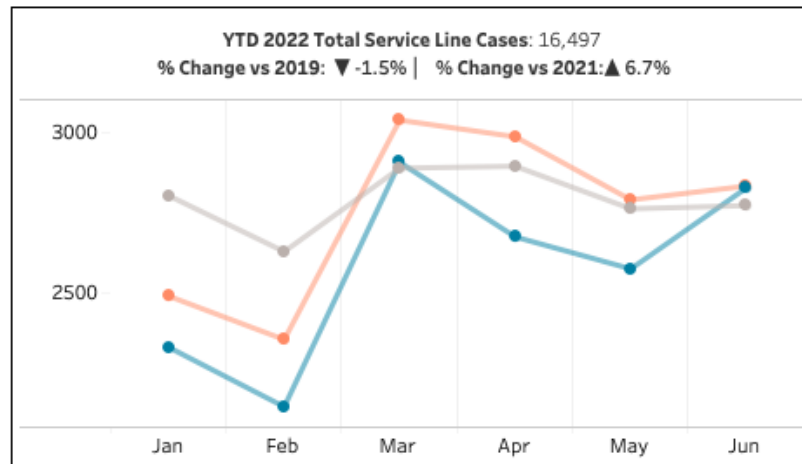
Data as of 6/30/2022

General Surgery



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Blunt or Penetrating Injury	10,191	▲ 6.3%	▲ 10.2%	225	▲ 13.6%	▼ -3.0%
Other Injury Not Otherwise Specified	9,916	▼ -0.2%	▲ 0.9%	161	▼ -11.5%	▼ -18.3%
Other Postsurgical Care Including Device/Prosthesis Fitting	7,878	▲ 39.0%	▲ 14.7%	46	▲ 7.0%	▼ -9.8%
Complications of Surgery Device Implant or Graft - Surgery	5,226	▼ -12.8%	▼ -5.1%	565	▼ -16.3%	▼ -7.1%
Hernia	3,706	▼ -9.3%	▼ -5.2%	29	▼ -31.0%	▼ -9.4%

Genetics



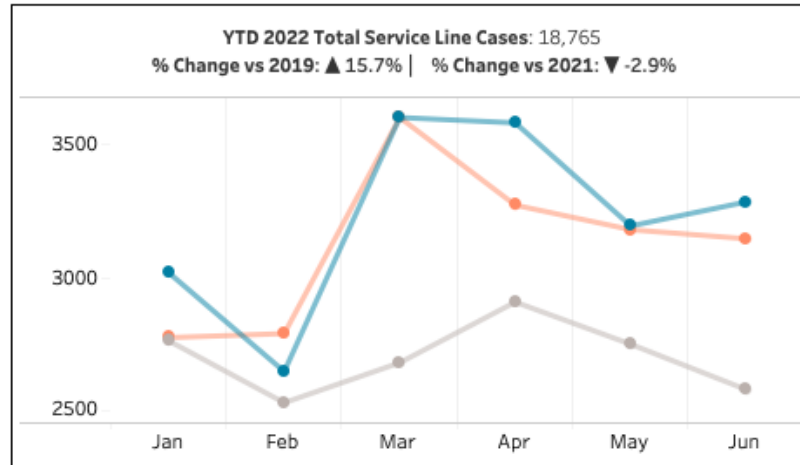
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Genetic Syndromes	11,455	▲ 1.4%	▲ 4.8%	30	▼ -6.3%	▲ 11.1%
Inborn Errors of Metabolism	5,042	▼ -7.7%	▲ 11.3%	61	▼ -29.9%	▼ -15.3%



Children's Hospitals Service Line and CARE Family Volume Tracker

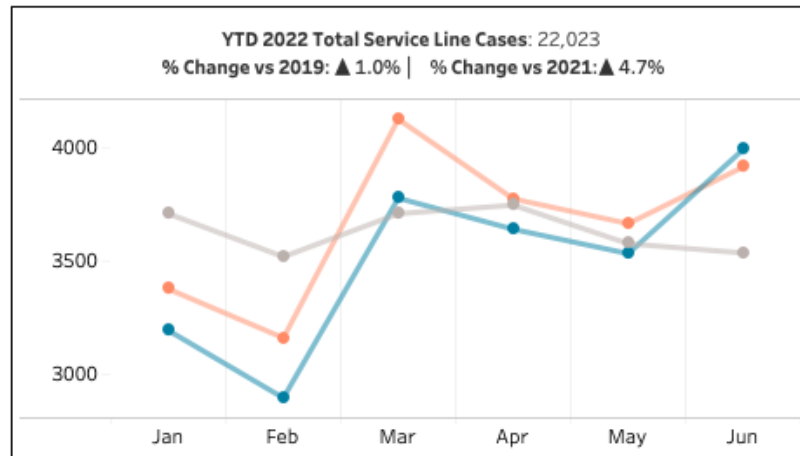
Data as of 6/30/2022

Gynecology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Benign Gynecologic Neoplasms	5,559	▲ 23.5%	▼ -1.7%	82	▼ -9.9%	▲ 22.4%
Gynecologic Hormonal Disorders	5,548	▲ 22.4%	▼ -1.8%	0		
Contraception	2,950	▲ 16.5%	▼ -4.2%	1		▲ 0.0%
Gynecologic Wellness and Screening	1,906	▲ 13.3%	▲ 10.0%	0		
Gynecologic Infectious Disease	1,499	▼ -16.8%	▼ -11.4%	31	▼ -45.6%	▼ -8.8%

Hematology



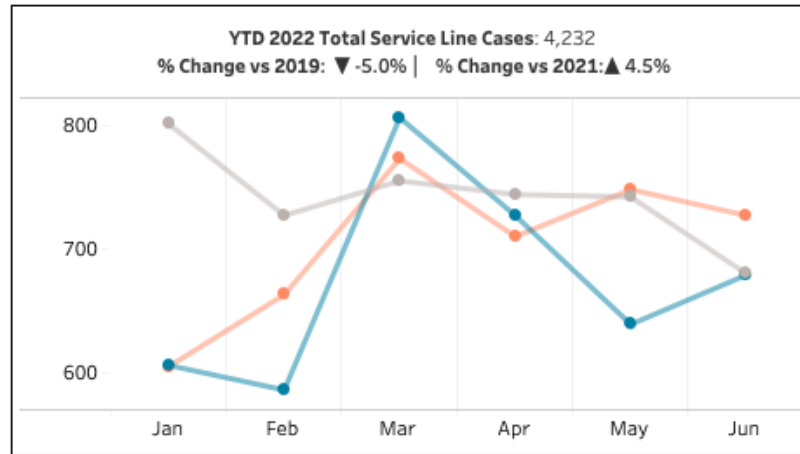
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Hematologic Disorders	8,773	▼ -3.7%	▼ -1.2%	702	▼ -4.9%	▲ 12.1%
Disorders of Hemoglobin Including Sickle Cell	6,771	▼ -0.2%	▲ 6.4%	477	▼ -20.5%	▼ -2.3%
Anemia	6,479	▲ 9.8%	▲ 12.0%	174	▼ -7.9%	▼ -9.8%



Children's Hospitals Service Line and CARE Family Volume Tracker

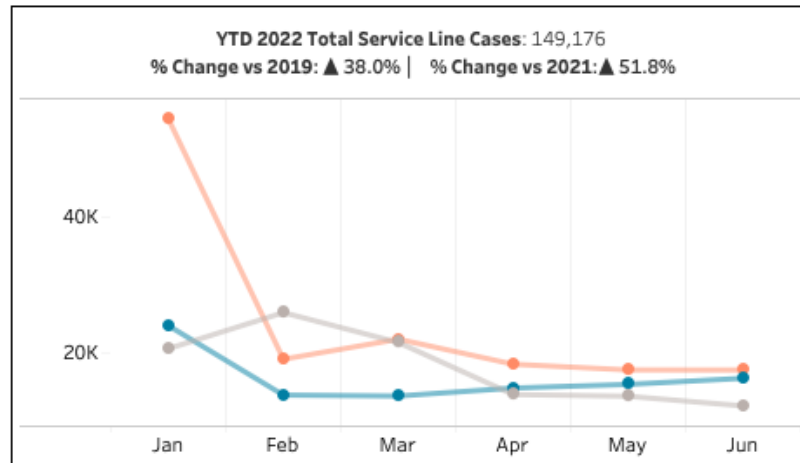
Data as of 6/30/2022

Hepatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Liver Disease Noninfective	2,954	▲ 1.5%	▲ 5.5%	59	▲ 9.3%	▲ 68.6%
Fatty Liver Disease	840	▼ -17.0%	▼ -4.5%	1	▲ 0.0%	
Hepatitis	303	▼ -19.6%	▲ 11.0%	18	▲ 28.6%	▲ 100.0%
Advanced Liver Disease	135	▼ -14.0%	▲ 40.6%	32	▲ 18.5%	▲ 33.3%

Infectious Disease



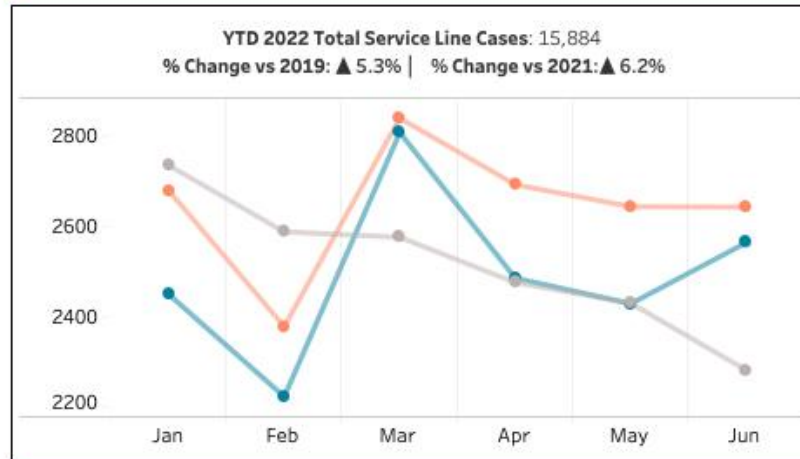
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Infectious and Parasitic Diseases	70,308	▲ 22.1%	▲ 9.3%	695	▼ -20.3%	▲ 8.4%
COVID-19 Infection	41,169		▲ 174.7%	3,084		▲ 115.5%
Influenza	15,124	▼ -37.5%	▲ 11186.6%	220	▼ -63.4%	▲ 4300.0%
Gastroenteritis and Intestinal Infections	12,024	▼ -4.8%	▲ 16.9%	635	▼ -1.7%	▲ 33.7%
Pneumonia Including Aspiration Pneumonia	4,732	▼ -37.0%	▲ 74.5%	1,267	▼ -30.7%	▲ 62.6%



Children's Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

Neonatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Neonatal Conditions - Other	3,588	▲ 12.1%	▲ 7.1%	240	▼ -22.1%	▼ -3.2%
Neonate with Respiratory Condition	3,067	▲ 10.4%	▲ 10.1%	403	▼ -26.5%	▲ 10.1%
Prematurity (<32 weeks gestation) and VLBW (<1500g)	1,966	▲ 6.5%	▼ -7.9%	38	▼ -42.4%	▼ -11.6%
Neonatal Birth Injury	1,439	▼ -1.9%	▲ 31.9%	11	▲ 0.0%	▼ -15.4%
Prematurity (32-36 weeks gestation) and SGA	1,288	▼ -2.1%	▼ -2.9%	17	▼ -71.2%	▼ -22.7%

Nephrology



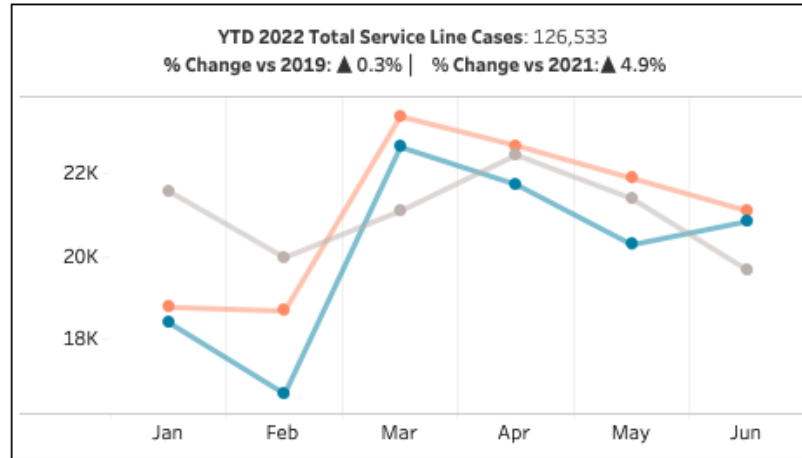
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Chronic Kidney Disease	3,680	▼ -18.1%	▲ 0.7%	139	▼ -15.2%	▼ -5.4%
Acute Kidney Injury and Nephritis	2,912	▼ -14.4%	▲ 0.1%	19	▼ -53.7%	▲ 46.2%
End Stage Renal Disease	1,765	▼ -18.6%	▼ -11.8%	54	▼ -36.5%	▼ -32.5%
Acute Renal Failure	373	▼ -7.4%	▼ -14.8%	93	▼ -32.6%	▲ 2.2%



Children's Hospitals Service Line and CARE Family Volume Tracker

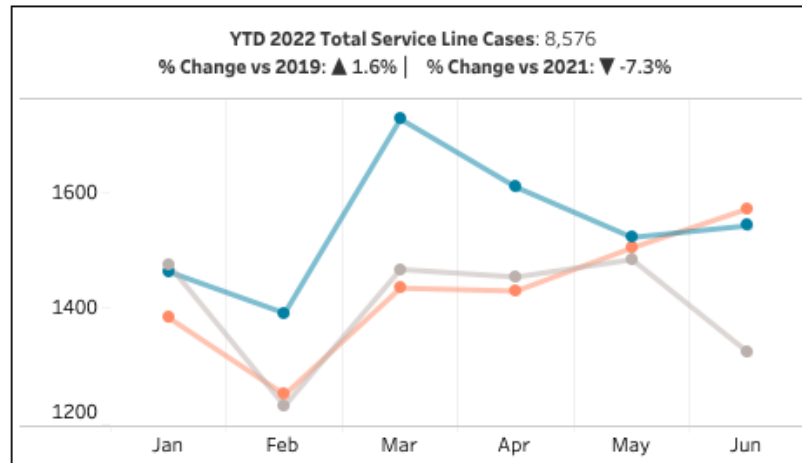
Data as of 6/30/2022

Neurosciences



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Epilepsy and Seizure Disorders	31,489	▼ -3.0%	▲ 6.2%	1,783	▼ -13.9%	▼ -1.4%
Headache/Migraine	16,332	▼ -14.1%	▲ 5.8%	173	▼ -41.8%	▲ 8.8%
Concussion and Unspecified Head Injury	11,236	▲ 5.1%	▲ 19.1%	49	▲ 6.5%	▲ 2.1%
Cerebral Palsy and Plegias	10,439	▼ -1.8%	▼ -0.6%	77	▼ -14.4%	▼ -10.5%
Abnormal Gait and Movement Disorders	10,217	▲ 8.8%	▲ 2.6%	133	▼ -11.3%	▲ 0.8%

Normal Newborn



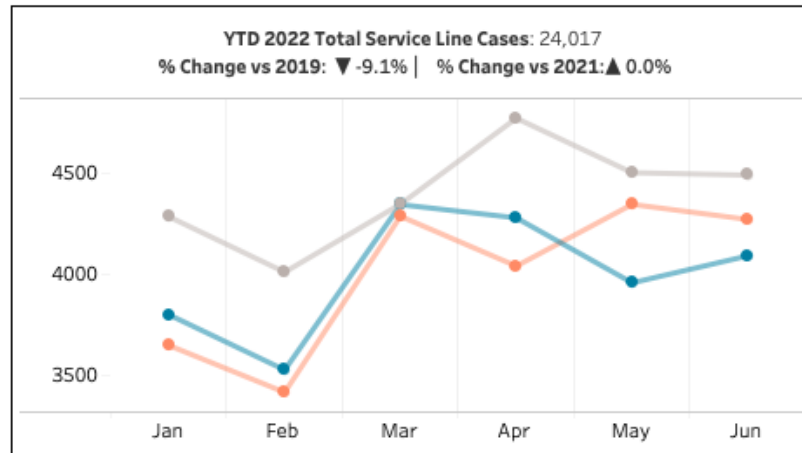
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Perinatal Jaundice	5,729	▼ -1.5%	▼ -9.5%	360	▼ -0.3%	▼ -11.5%
Liveborn	2,847	▲ 8.7%	▼ -2.5%	74	▼ -33.9%	▼ -22.1%

Children's Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

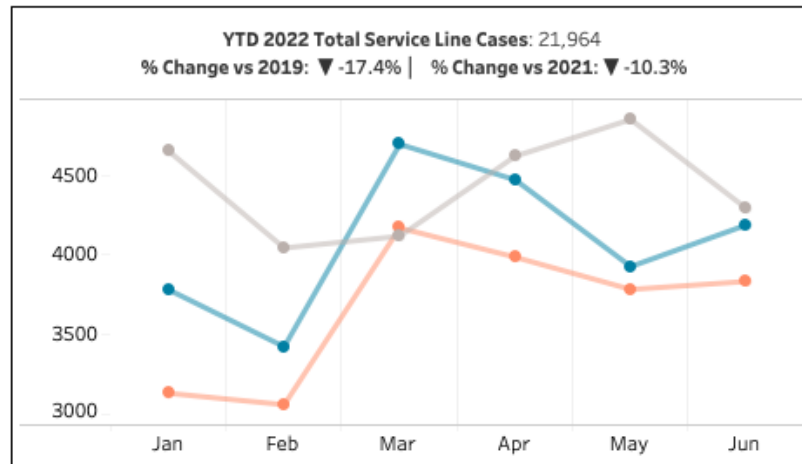
2019 2022
2021

Obstetrics



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Normal Pregnancy/Delivery	10,663	▼ -10.1%	▲ 2.8%	528	▲ 19.7%	▼ -2.4%
Antepartum Conditions and High Risk Pregnancy	10,587	▼ -7.5%	▼ -1.6%	983	▼ -6.4%	▼ -2.2%
Complications of Labor Delivery or Postpartum Period	1,113	▼ -29.0%	▼ -3.0%	301	▼ -15.4%	▼ -9.3%
Early Pregnancy w/ Complication or Abortive Outcome	889	▲ 7.6%	▼ -2.3%	20	▲ 0.0%	▲ 11.1%
Infertility	765	▲ 6.3%	▼ -6.0%	0		

Ophthalmology



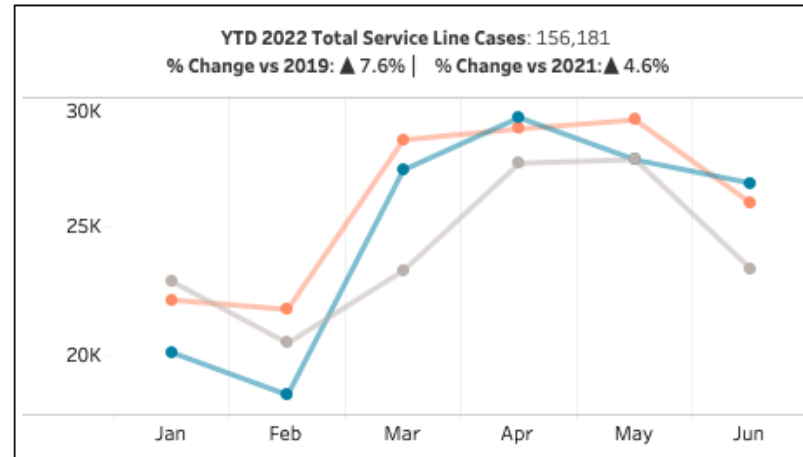
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Eye and Vision Conditions	18,136	▼ -16.3%	▼ -10.4%	176	▲ 6.7%	▲ 63.0%
Corneal Conditions	1,642	▲ 3.6%	▼ -3.2%	4	▼ -42.9%	▼ -33.3%
Retinal Conditions	1,300	▼ -0.3%	▼ -12.6%	8	▼ -46.7%	▼ -38.5%
Glaucoma	513	▼ -27.9%	▼ -15.2%	2	▲ 100.0%	
Cataract	373	▼ -71.8%	▼ -19.8%	3	▲ 200.0%	

Children's Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

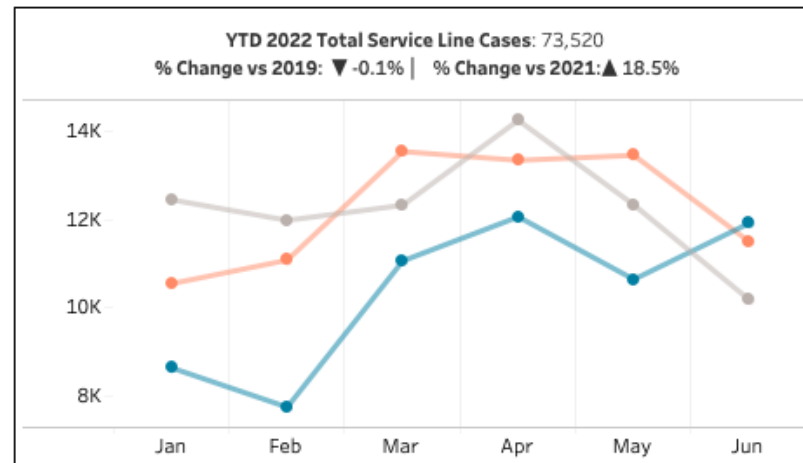
2019 2022
2021

Orthopedics



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Musculoskeletal Injury - Hand/Wrist/Forearm	37,245	▲ 4.0%	▲ 3.1%	62	▼ -10.1%	▼ -15.1%
Musculoskeletal Injury - Lower Leg/Foot/Ankle	33,839	▲ 8.7%	▲ 6.0%	186	▼ -19.1%	▼ -6.5%
Musculoskeletal Injury - Shoulder/Elbow/Upper Arm	20,570	▲ 6.4%	▲ 1.5%	58	▼ -50.8%	▼ -26.6%
Musculoskeletal Injury - Knee	15,356	▲ 9.9%	▲ 5.9%	102	▲ 25.9%	▲ 70.0%
Other Musculoskeletal Injuries and Conditions	14,706	▲ 13.5%	▲ 11.6%	137	▼ -16.0%	▼ -8.1%

Pulmonology



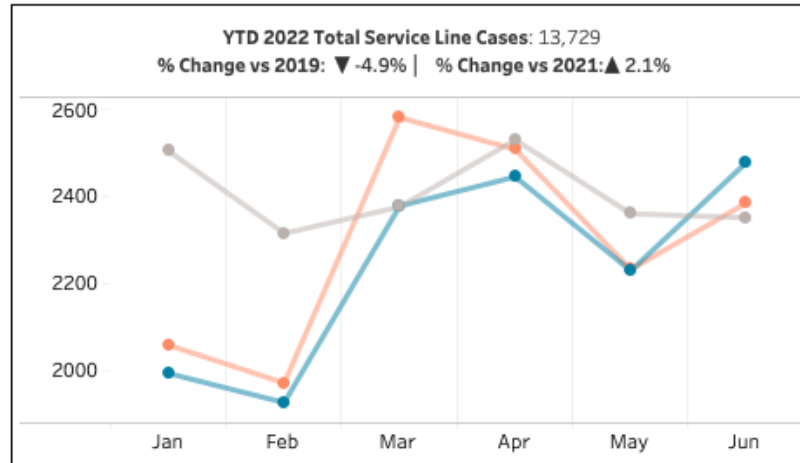
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Asthma	34,813	▲ 1.7%	▲ 31.1%	1,136	▼ -7.2%	▲ 57.6%
Respiratory Conditions including Pleural Effusions	12,247	▼ -1.1%	▼ -0.4%	194	▼ -13.8%	▲ 22.8%
Sleep Apnea	10,311	▼ -8.7%	▲ 9.7%	108	▼ -1.8%	▲ 10.2%
Acute Respiratory Failure	4,969	▲ 2.6%	▲ 39.8%	2,760	▼ -4.6%	▲ 42.9%
Cystic Fibrosis	4,963	▼ -16.3%	▲ 3.1%	155	▼ -54.8%	▲ 6.2%

Children's Hospitals Service Line and CARE Family Volume Tracker

Data as of 6/30/2022

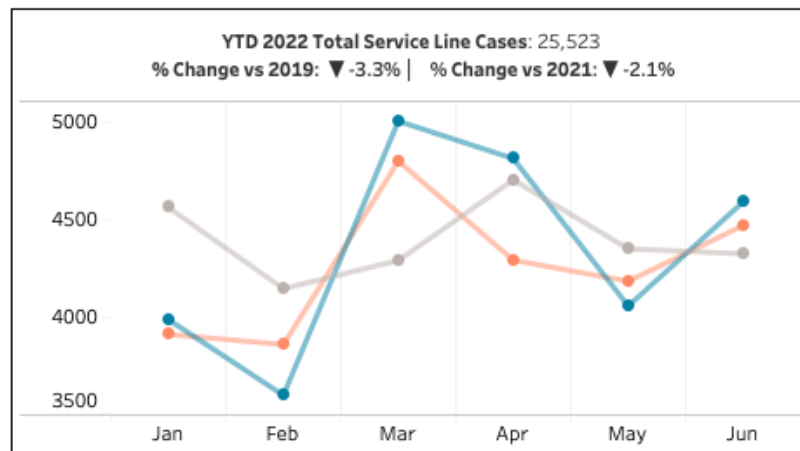
2019 2022
2021

Rheumatology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Connective Tissue Disorders	5,443	▼ -0.3%	▲ 7.1%	26	▼ -33.3%	▲ 30.0%
Inflammatory and Autoimmune Diseases	3,884	▼ -9.0%	▼ -3.2%	87	▼ -37.9%	▼ -24.3%
Rheumatoid Arthritis	3,044	▼ -2.8%	▼ -5.3%	22	▲ 4.8%	▼ -15.4%
Vasculitis	1,358	▼ -13.7%	▲ 19.6%	199	▼ -3.4%	▲ 70.1%

Spine



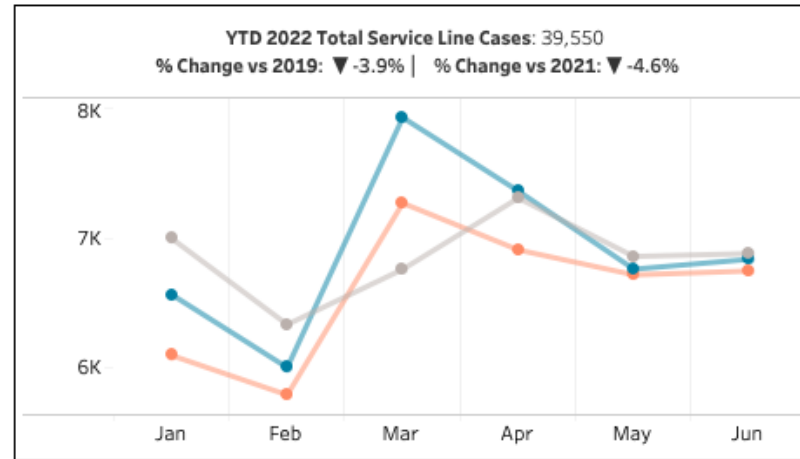
CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Nonspecific Back and Neck Pain	11,827	▲ 2.2%	▲ 4.6%	17	▲ 6.3%	▲ 13.3%
Deformities and Curvature of Spine	9,408	▼ -8.7%	▼ -8.8%	441	▲ 4.8%	▼ -9.3%
Degenerative Spine and Disc Injury	1,869	▼ -10.9%	▲ 0.5%	71	▲ 24.6%	▲ 2.9%
Spine Congenital Anomaly	894	▼ -2.2%	▼ -7.3%	36	▲ 9.1%	▼ -12.2%
Spinal Fracture or Dislocation	762	▲ 2.8%	▼ -7.6%	55	▼ -1.8%	▼ -20.3%



Children's Hospitals Service Line and CARE Family Volume Tracker

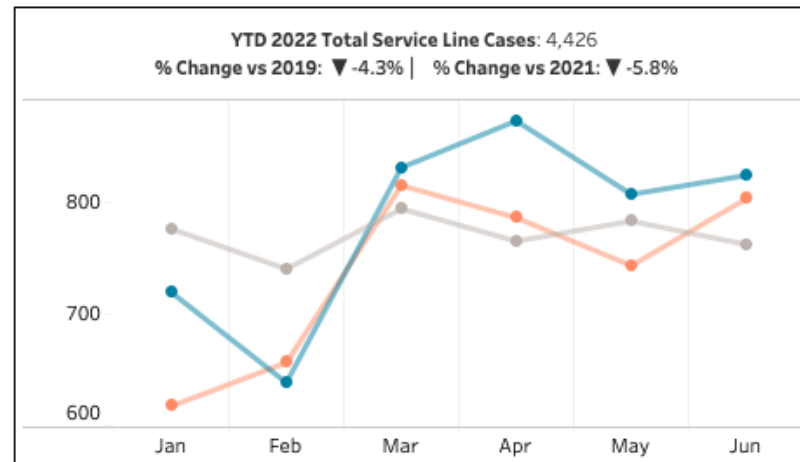
Data as of 6/30/2022

Urology



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Other Kidney Bladder and Genitourinary Disease	15,601	▼ -4.6%	▼ -1.9%	142	▼ -27.6%	▼ -10.7%
Genitourinary Congenital Anomaly	13,548	▼ -3.4%	▼ -5.9%	111	▲ 2.8%	▲ 16.8%
Incontinence	8,164	▲ 1.0%	▼ -3.2%	27	▼ -46.0%	▼ -38.6%
Urinary Calculus	1,732	▼ -14.9%	▼ -20.2%	40	▼ -28.6%	▼ -46.7%
Mens Reproductive Health	472	▼ -15.0%	▼ -13.2%	2	▼ -50.0%	▲ 0.0%

Vascular



CARE Family*	2022 Cases	% Change Vs 2019	% Change Vs 2021	2022 Cases (IP)	% Change Vs 2019 (IP)	% Change Vs 2021 (IP)
Peripheral Vascular Disease	2,176	▲ 0.0%	▼ -7.0%	58	▲ 52.6%	▼ -10.8%
Disease of Venous System (Varicose Veins Phlebitis Hemorrhoids)	944	▲ 1.8%	▼ -0.2%	11	▼ -15.4%	▼ -45.0%
Venous Thromboembolism	829	▼ -14.2%	▼ -9.2%	57	▼ -13.6%	▼ -5.0%
Aneurysms	359	▼ -0.6%	▲ 4.4%	6	▼ -14.3%	▲ 50.0%
Complications of Surgery Device Implant or Graft - Vascular	100	▼ -33.3%	▼ -19.4%	19	▼ -20.8%	▼ -34.5%



Background: Data Sources

National Patient and Procedure Volume Tracker - Volume Data

- *Data Source:* StrataJazz Decision Support hospital billing monthly encounters with non-zero charges from 1/1/2019 to 6/30/2022. Monthly distinct encounter counts for 2020 - 2022 were compared to pre-COVID-19 volumes in 2019. For a full description of our methodology, please see the [National Patient and Procedure Volume Tracker](#) on Strata's website.

Financial KPI Metrics

- *Data Source:* StrataJazz Decision Support hospital billing monthly encounters with non-zero charges from 1/1/2019 to 6/30/2022. General ledger data are used for calculating financial metrics. General ledger accounts are normalized with a proprietary machine learning model to ensure consistency across health systems. Encounters are determined to be inpatient based on the presence of specific UB revenue codes in the patient billing detail data; normal newborns are excluded from our inpatient encounter calculations. For a full description of our methodology for Strata customers, please see our User Guide in StrataSphere® Compare.

Emergency Department Metrics

- *Data Source:* StrataJazz Decision Support hospital billing monthly encounters with non-zero charges from 1/1/2019 to 6/30/2022. Annual distinct emergency encounter counts stratified by ED CPT code (99281-99285) for the first 6 months of years 2020 – 2022 were compared to pre-COVID-19 volumes for the first 6 months of 2019. Encounters are determined to be emergency based on the presence of specific UB revenue codes in the patient billing detail data.



Background: Data Sources

Labor Expense Metrics

- *Data Source:* StrataJazz Decision Support hospital billing monthly encounters, general ledger, and StrataJazz Management Reporting payroll extract from 1/1/2019 to 6/30/2022. Departments, job codes and pay code groups are normalized with a proprietary machine learning model to ensure consistency across health systems. “Worked Hours” includes hours where the StrataSphere productive class is “Productive” (excludes training, meeting, and orientation). “FTE” includes hours in both “Productive” and “Non-Productive” StrataSphere productive classes. “Adjusted Patient Days” are inpatient patient days (units of service) adjusted by the ratio of gross outpatient and inpatient revenue. Encounters are determined to be inpatient based on the presence of specific UB revenue codes in the patient billing detail data; normal newborns are excluded from our inpatient encounter calculations. For a full description of our methodology for Strata customers, please see our User Guide in StrataSphere Compare.

Overhead Expense Metrics

- *Data Source:* Each metric is the percentage of total monthly expenses associated with all of the departments assigned to each StrataSphere Department Rollup. Both the department expenses and total expenses refer to the monthly sum of general ledger line items from accounts assigned to the StrataSphere “Expense” category. The StrataSphere Department Rollup assignments are the validated output of a proprietary machine learning model that normalizes departments using data about each department’s description, staffing and account types. For a full description of our methodology, please see our User Guide in StrataSphere® Compare.



Background: Data Sources

Hospital Cost Metrics

- *Data Source:* StrataJazz Decision Support hospital billing monthly encounters with non-zero charges from 1/1/2019 to 6/30/2022. Costs were calculated using the StrataSphere Cost Model. "Supply" cost includes chargeable medical supplies, non-chargeable medical supplies, implants, and non-medical supplies. "Labor" cost includes all payroll cost components and contract labor but excludes benefits.
- For more information on the StrataSphere Cost Model used in these calculations, please refer to the StrataSphere Cost Model page in Help Center.

Service Line and Care Family Monthly Volume Metrics

- *Data Source:* StrataJazz® Decision Support hospital billing monthly encounters with non-zero charges from 1/1/2019 to 6/30/2022. Encounter counts from January-June of 2022 are compared to the same time period of 2019 and 2021.
- *Note:* 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. 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.