U.S. HEALTHCARE DYNAMICS: AN IN-DEPTH ANALYSIS (2019-2020)

Welcome to our meticulously crafted U.S. Healthcare Analytics Dashboard, where we commence on a profound exploration of the healthcare landscape spanning from 2019 to 2020. This project is meticulously designed to provide an insightful analysis of key facets within the U.S. healthcare system. Unfolding as a narrative, each page of this dashboard reveals a different chapter, offering profound insights and valuable learnings within the intricate world of U.S. healthcare. Join me on this journey into the heartbeat of healthcare, where every word is carefully chosen to provide a meaningful exploration of the evolving landscape from 2019 to 2020.

1. Executive Summary: Begin your journey with a high-level overview of pivotal trends and metrics that have shaped the U.S. healthcare landscape during the years 2019 to 2020. This section provides a snapshot of the overarching insights derived from our comprehensive analysis.

2. Hospital Analysis: Dive into a thorough examination of healthcare institutions, scrutinizing performance metrics, patient outcomes, and operational efficiency. Discover patterns that can guide strategic decision-making for healthcare providers.

3. Patient Analysis: Explore patient-centric data to unravel demographic trends, treatment effectiveness, and overall patient experience. This section aims to enhance the understanding of healthcare delivery from the perspective of those receiving care.

4. Payer-Provider Analysis: Delve into the intricate dynamics between payers and healthcare providers. Analyze financial interactions, reimbursement trends, and collaborative opportunities for a nuanced perspective on the industry.

5. Monthly Expenses Overview: Obtain a comprehensive snapshot of monthly expenses across various facets of the healthcare system. Identify areas for optimization and efficiency, fostering informed financial management within the industry.

This data analysis project, titled "U.S. Healthcare Dynamics," is driven by the goal of providing valuable insights to healthcare stakeholders. By deciphering complex trends and patterns, the objective is to empower decision-makers, healthcare professionals, and policymakers to make informed choices that enhance the overall efficiency and effectiveness of the U.S. healthcare system.

Thank you for joining me on this insightful journey. Your active engagement with these findings is instrumental in shaping the future of healthcare. Together, we're not just analyzing data; we're fostering a collective understanding that will influence meaningful change. Your thoughtful consideration and involvement humanize the impact of these insights, contributing to a healthcare landscape that prioritizes efficiency, compassion, and progress. I appreciate your commitment to this shared endeavor, as we navigate towards a healthier and more resilient future for all.

U.S. Healthcare Dynamics: 2019-2020

HEALTHCARE

13.0M	7.5M	1.5M	5117	9.0M
TOTAL EXPENSES	INSURANCE REVENUE	PATIENT REVENUE	TOTAL PATIENTS	TOTAL PAYMENT

Monthly Expenses Trends

4.5M, 2.7M, 1.7M, 1.0M, 1.3M, 0.7M, 0.2M, 0.5M, 0.3M, 0.1M, 0.3M, 0.2M, 0.2M, 0.1M, 1.0M, 0.6M, 0.2M
Jan 2020, Apr 2020, Jul 2020, Oct 2020
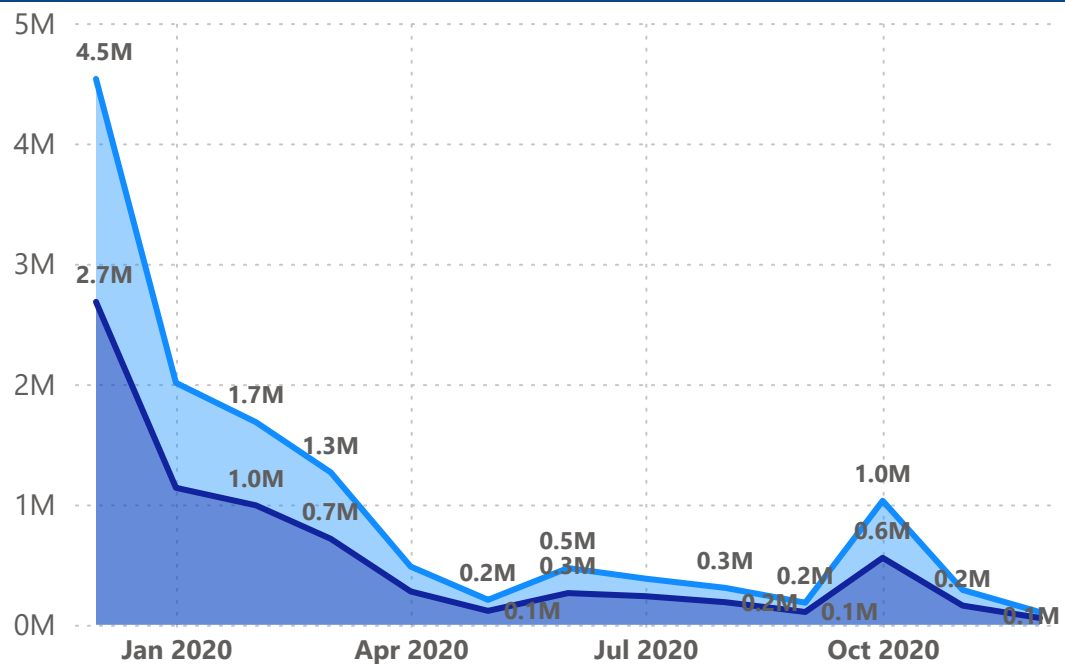
CPT Units Monthly Distribution

88K, 25K, 6K, 11K, 6K, 3K, 12K, 1K
Jan 2020, Apr 2020, Jul 2020, Oct 2020

Patient Growth Over Time

4.8K, 2.5K, 2.0K, 0.5K, 0.9K, 0.7K, 0.3K, 0.9K, 0.2K
Jan 2020, Apr 2020, Jul 2020, Oct 2020

Payer-wise CPT Units

Payer	Units
Medicare	122K
Commercial	108K
Medicaid	8K
Other	2K

0K, 50K, 100K
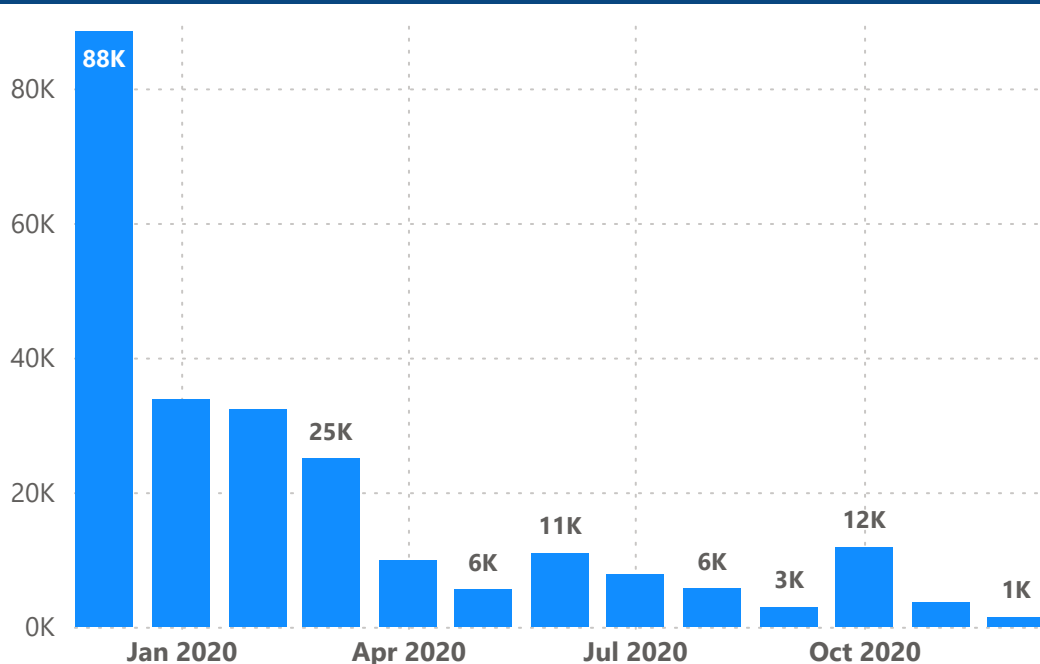
Monthly Patient Revenue
13.9K
Goal: 201.2K (-93.08%)

Monthly Net Revenue
70.4K
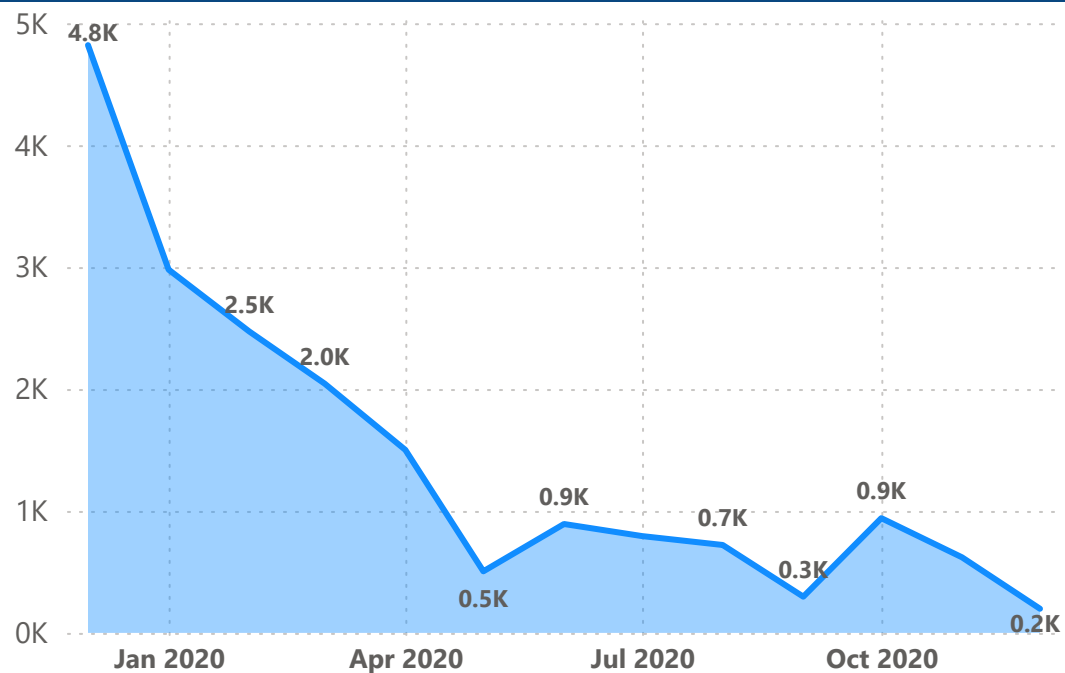Goal: 201.2K (-65.01%)

Monthly Procedure Volume
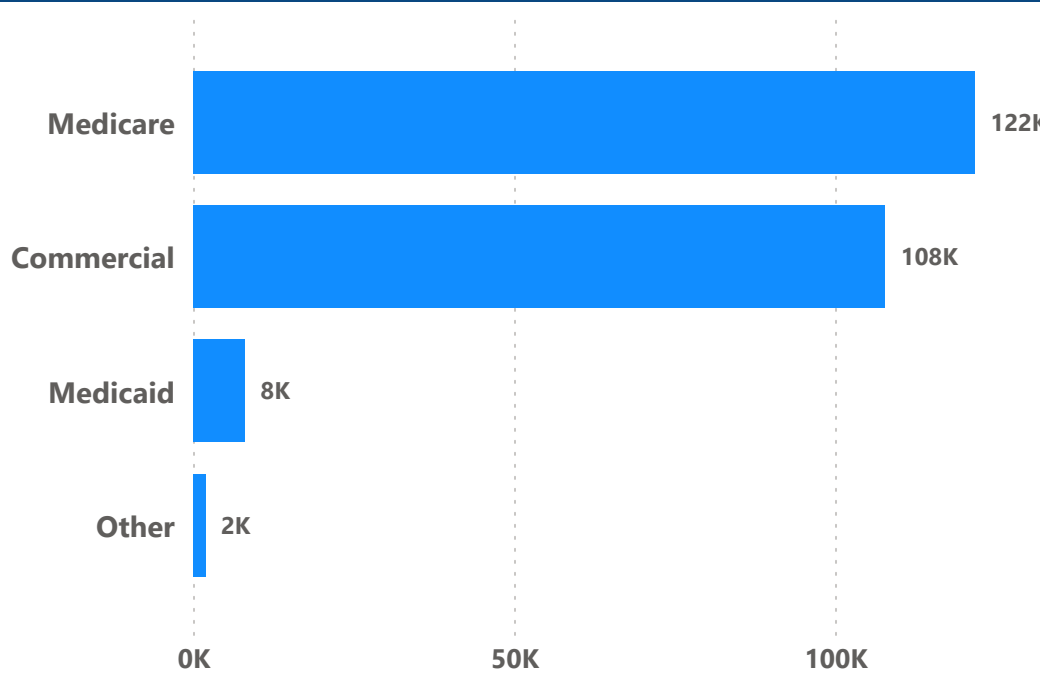**1457**
Goal: 201,153 (-99.28%)

Monthly Insurance Revenue
56.5K
Goal: 201.2K (-71.93%)

Yearly Avg. Patient Payment Trend
19.44
Goal: 8.92M (-100%)

Monthly Payment Performance
5.83M
Goal: 201.15K (+2796.28%)

Optimized Quarterly Expenditure
5.96M
Goal: 1.03M (+477.44%)

Deficit Reduction Efficiency - Monthly
1.41M
Goal: 201.15K (+600.75%)

Hospital Performance Overview

HEALTHCARE

HOSPITAL INSIGHTS

4.0M	11	239K	10
ACCOUNT RECEIVABLE	HOSPITAL COUNT	PROCEDURE COUNT (CPT UNITS)	CPT GROUPING

Hospital

- ☐ Angelstone C...
- ☐ Big Heart Co...
- ☐ Evergreen Cli...
- ☐ Fairmont Hos...
- ☐ Fairview Gene...
- ☐ Genesis Hospi...
- ☐ Guardian Me...
- ☐ Memorial Me...
- ☐ Pioneer Clinic
- ☐ Principal Med...
- ☐ Twin Mountai...

Monthly ARGE Ratio Trend

ARGE Ratio: 30%, 31%, 31%, 31%, 33%, 26%, 30%, 30%, 32%, 31%, 33%
(Jan 2020 – Nov 2020)
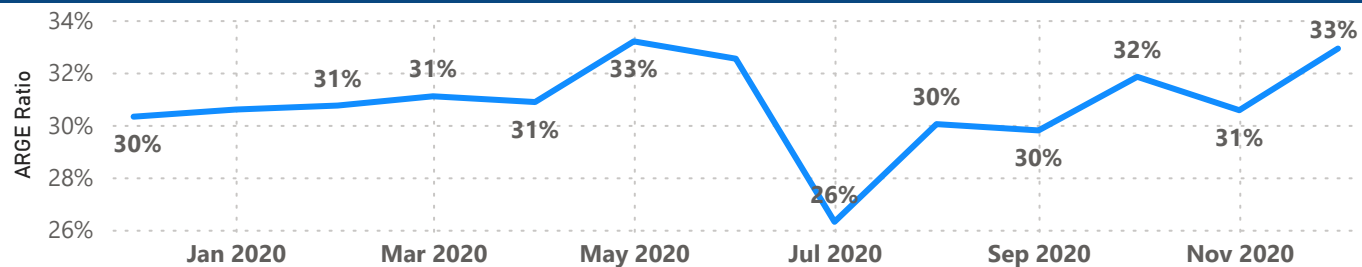
Monthly IPTP Ratio Trend

IPTP Ratio: 85%, 82%, 85%, 82%, 83%, 83%, 83%, 84%, 87%, 79%, 80%
(Jan 2020 – Nov 2020)
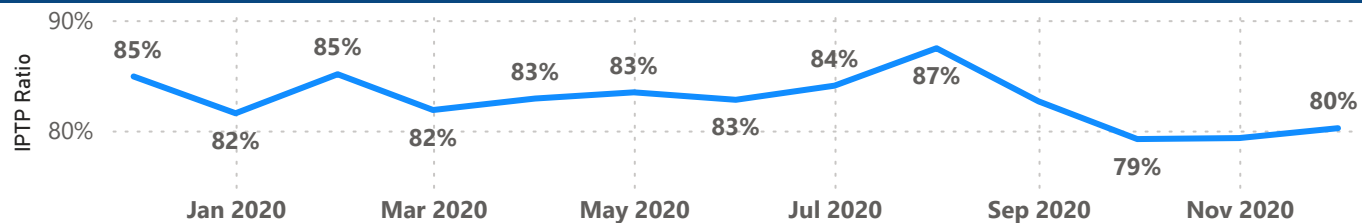
Gross Expenses by CptGrouping

- 7.34M (56.65%)
- 1.41M (10.88%)
- 1.38M (10.68%)
- 1.36M (10.46%)
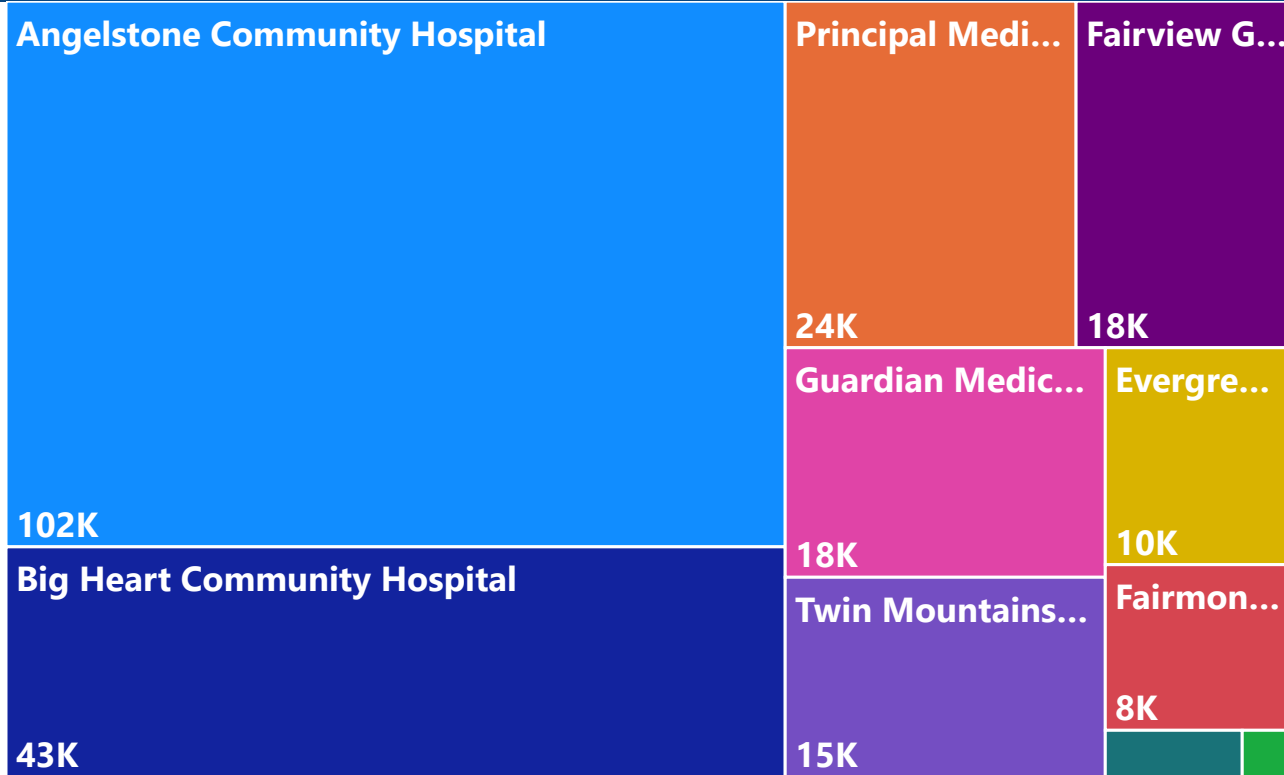- 0.42M (3.21%)
- 0.32M (2.5%)
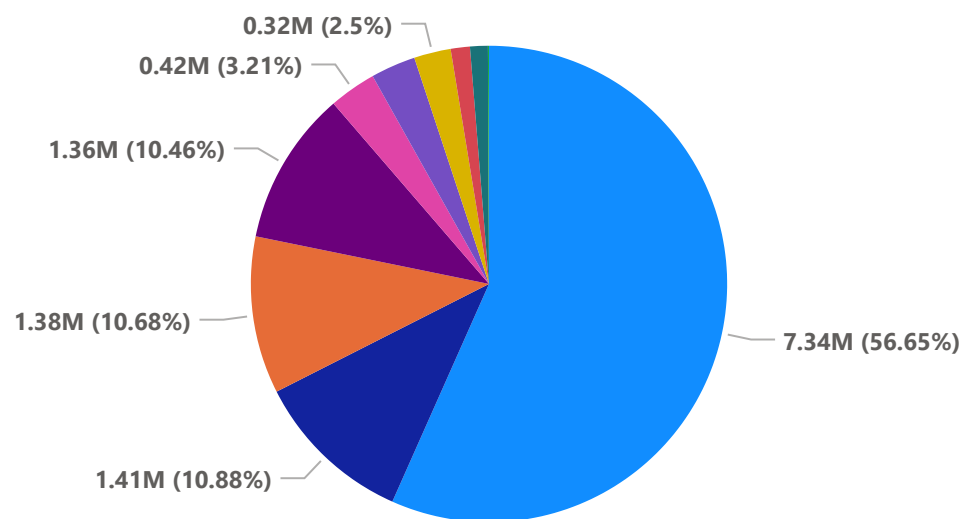
Critical Hospital Metrics Overview

Table presenting critical metrics for hospitals requiring attention.

Hospital Name	AR	IPTP Ratio	ARGE Ratio	BadDebts
Angelstone Community Hospital	🟢 1,707,407.24	83%	31%	1,514.62
Big Heart Community Hospital	🔶 777,247.26	85%	30%	
Evergreen Clinic	🔴 230,188.85	83%	31%	1,439.00
Fairmont Hospital Center	🔴 78,005.78	84%	29%	
Fairview General Hospital	🔴 266,246.44	83%	31%	
Genesis Hospital Center	🔴 360.50	90%	19%	
Guardian Medical Clinic	🔴 347,571.56	82%	31%	
Total	**3,971,801.76**	**83%**	**31%**	**2,968.48**

CPT Units Distribution by Hospital

- Angelstone Community Hospital — 102K
- Big Heart Community Hospital — 43K
- Principal Medi... — 24K
- Fairview G... — 18K
- Guardian Medic... — 18K
- Evergre... — 10K
- Twin Mountains... — 15K
- Fairmon... — 8K

Region

- ☐ Select all
- ☐ Midwest
- ☐ Northeast
- ☐ South
- ☐ West

This slicer allows you to dynamically filter data, providing insights tailored to specific geographical areas.

Patient Outcome Analysis

HEALTHCARE

PATIENT ANALYSIS

5117	84.0K	49	531	44
DISTINCT PATIENTS	TOTAL PATIENTS ENROLLED	TOTAL STATES	TOTAL CITIES	AVERAGE PATIENT AGE

Patient by Tobacco
- 1K (12%)
- 5K (88%)

Patient By Exercise
- 2K (35%)
- 3K (65%)

Patient by Diet
- 1K (25%)
- 4K (75%)
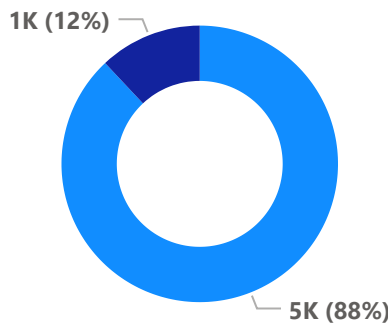
Patient by Alcohol
- 2K (36.99%)
- 3K (63.01%)
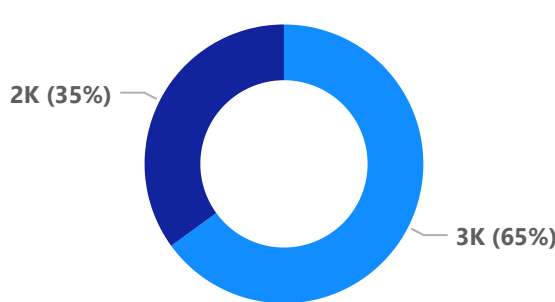
Distribution of Patient by State

Microsoft Bing
© 2024 TomTom, © 2024 Microsoft Corporation
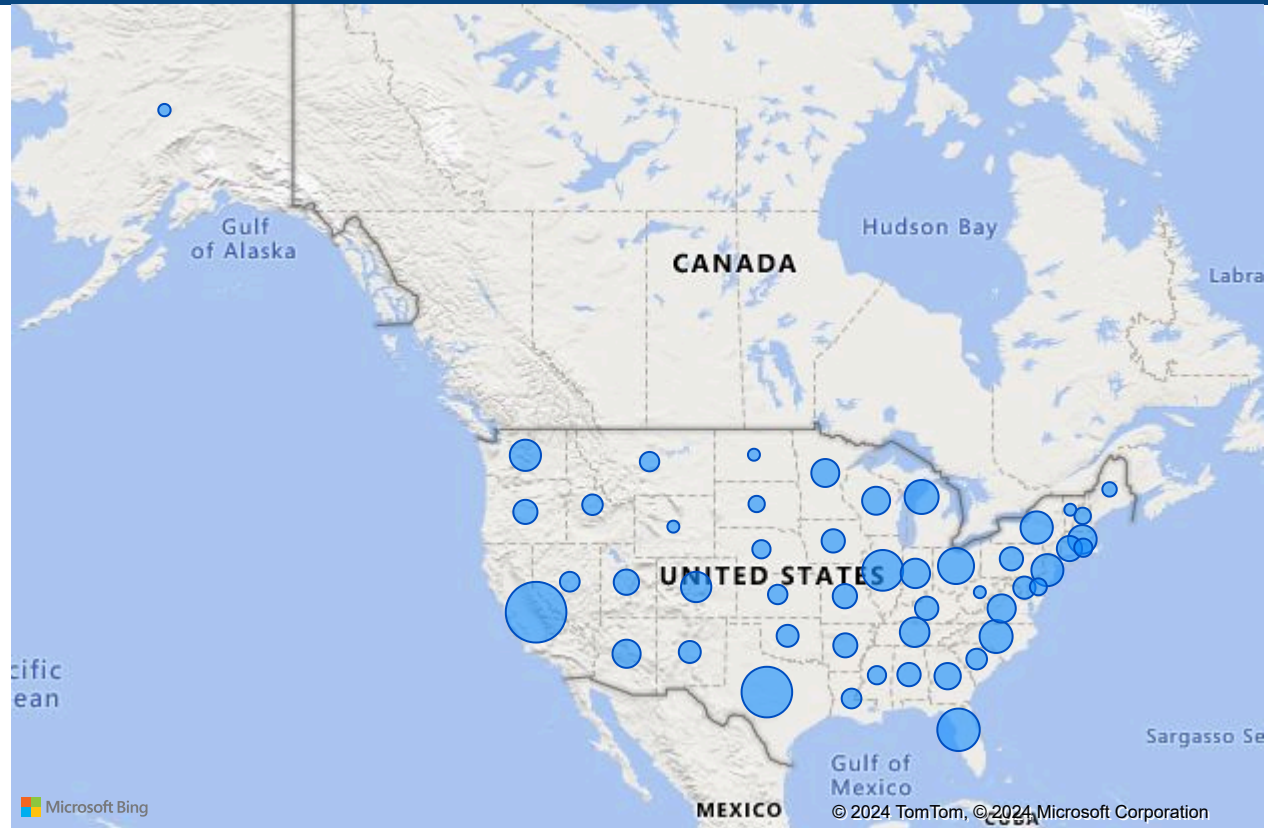
Gender
Female | Male

Region
- [ ] Select all
- [ ] Midwest
- [ ] Northeast
- [ ] South
- [ ] West
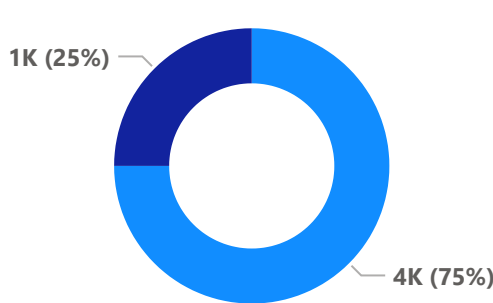
Blood Group
- [ ] A-
- [ ] A+
- [ ] AB-
- [ ] AB+
- [ ] B-
- [ ] B+
- [ ] O-
- [ ] O+
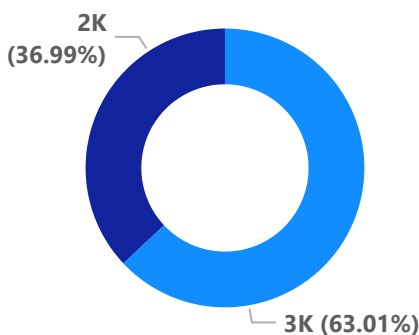
Distinct Patients by BloodGroup

BloodGroup	Count
O+	1944
A+	1740
B+	460
O-	358
A-	307
AB+	154
B-	103
AB-	51
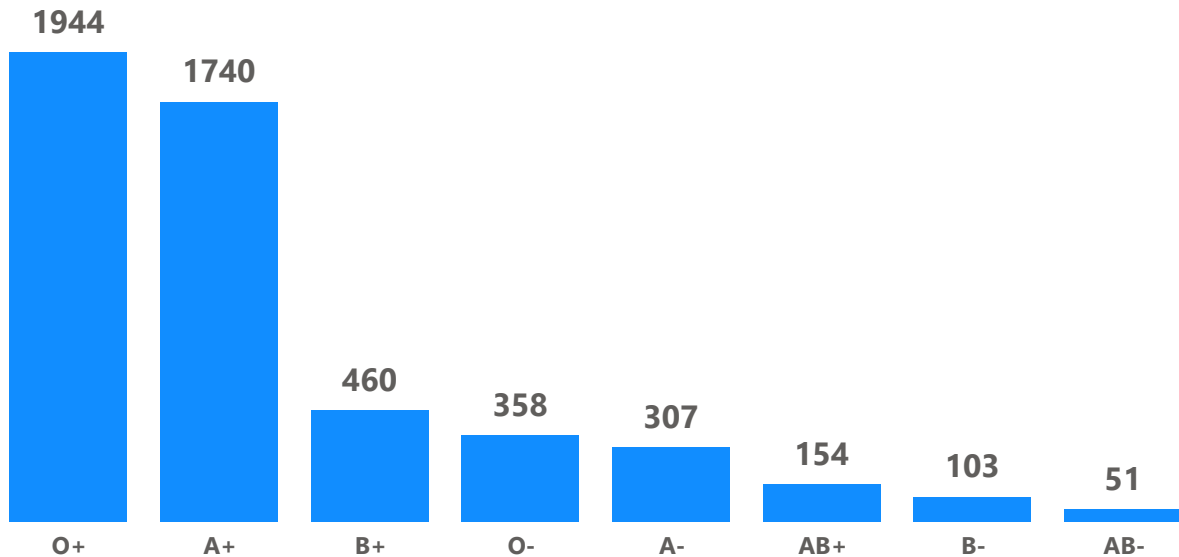
Patient Gender Distribution by State

State	Female	Male
Alabama	34	34
Alaska	7	2
Arizona	60	52
Arkansas	39	35
California	396	289
Colorado	67	68
Connecticut	46	38
Total	**3006**	**2111**

Healthcare Provider Metrics

931	712	34	531
DISTINCT PROVIDER	**TOTAL FTE EMPLOYEES**	**SPECIALITY PROVIDER COUNT**	**CITY COUNT**

Payer
- ☐ Select all
- ☐ Commercial
- ☐ Medicaid
- ☐ Medicare
- ☐ Other

Blood Group
- ☐ Select all
- ☐ A-
- ☐ A+
- ☐ AB-
- ☐ AB+
- ☐ B-
- ☐ B+
- ☐ O-
- ☐ O+

Region Code
- ☐ Select all
- ☐ MW
- ☐ NE
- ☐ S
- ☐ W

Regional Physician Count Analysis

S: 693
W: 662
MW: 627
NE: 486
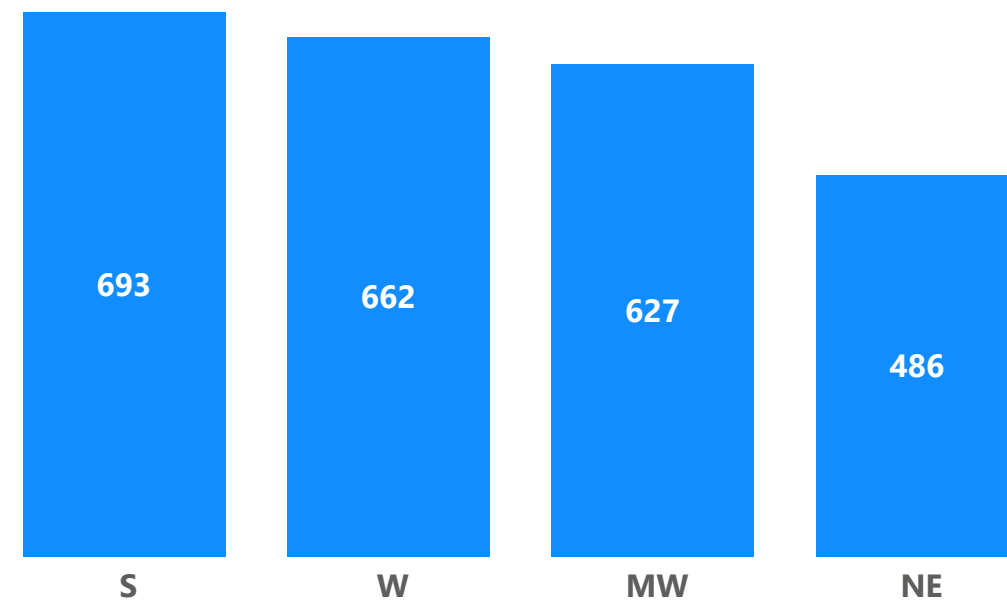
Monthly Provider Activity Overview and CPT Units

● Sum of CPTUnits ● Count of ProviderName
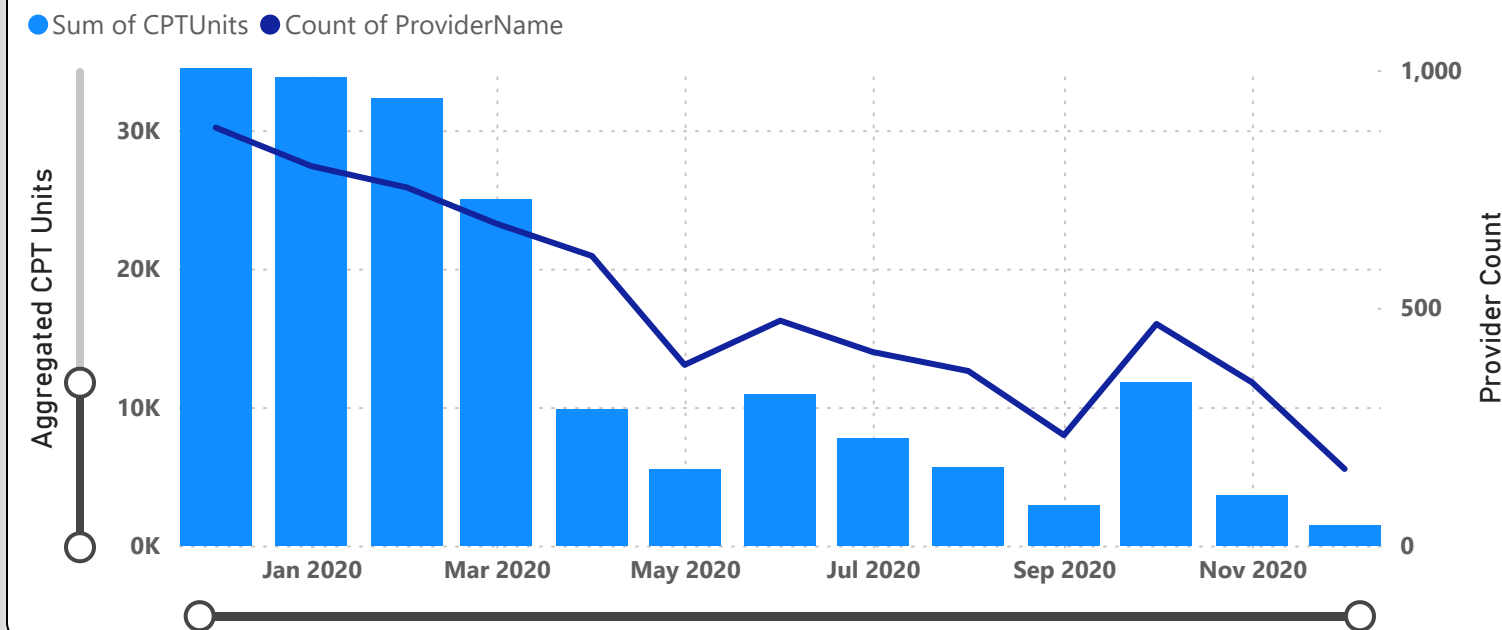
Regional Breakdown of Provider Specialties

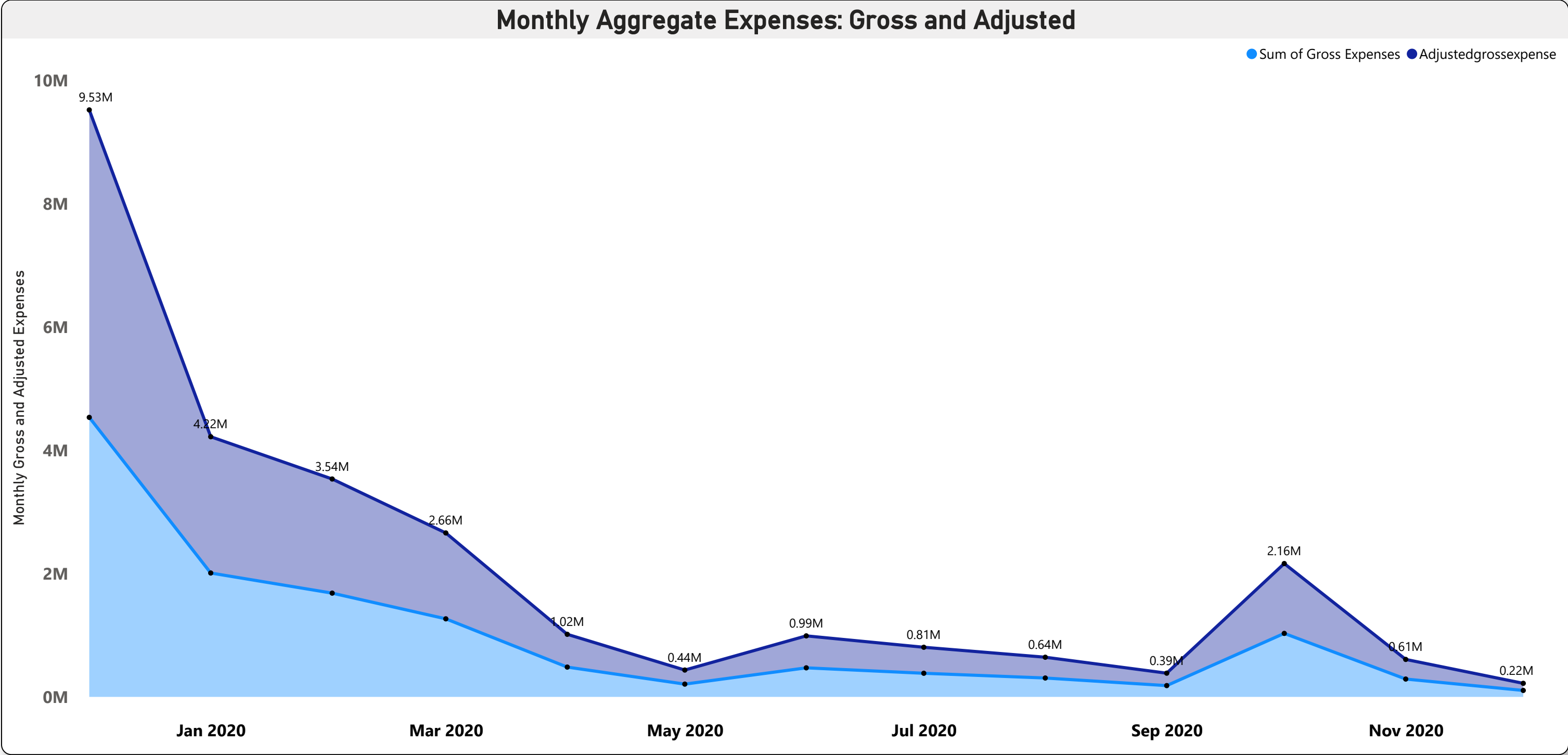MW: (Blank) 2, NPP Specialty 86, Physici... Specialty 539
NE: (Blank) 2, NPP Specialty 52, Physici... Specialty 432
S: (Blank) 3, NPP Specialty 107, Physici... Specialty 583
W: (Blank) 3, NPP Specialty 105, Physici... Specialty 554
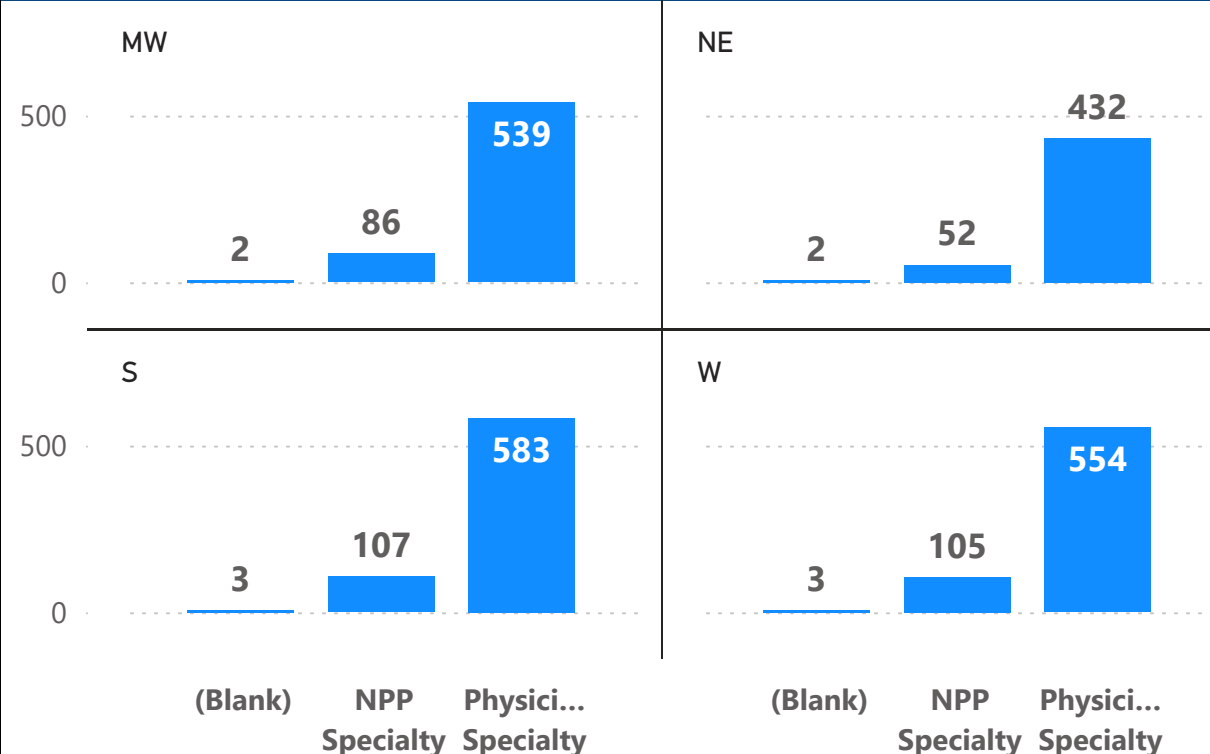
Holistic Provider Performance Matrix

SpecialityType	Count of Providers ▼	Sum of CPTUnits	Sum of ProviderFTE
⊟ Physician Specialty	**742**	**216642**	**558.03**
Internal Medicine	224	75510	🟢 170.05
Family Medicine	120	40111	🔺 94.52
Diagnostic Radiology	97	42534	🔺 77.94
Pediatrics	59	11756	🔷 45.56
Obstetrics & Gynecology	45	8181	🔷 33.88
Emergency Medicine	40	11828	🔷 36.30
Pathology	34	6211	🔷 21.81
Surgery	23	2940	🔷 18.38
Psychiatry & Neurology	17	2452	🔷 11.27
Total	**931**	**239445**	**711.74**

Monthly Aggregate Expenses: Gross and Adjusted

● Sum of Gross Expenses ● Adjustedgrossexpense

Monthly Gross and Adjusted Expenses

9.53M
4.22M
3.54M
2.66M
1.02M
0.44M
0.99M
0.81M
0.64M
0.39M
2.16M
0.61M
0.22M

Jan 2020   Mar 2020   May 2020   Jul 2020   Sep 2020   Nov 2020

Adjustment factor (%)

0.10