Meaningful Data Analysis in the Healthcare Delivery Sector

March 2025

Abraham Gage MBA, MS, CMPE, FACHE, FHFMA



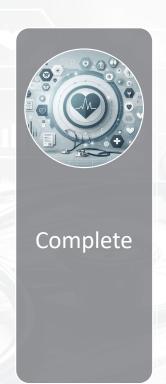




Know your data

Value in using your data

Unless otherwise noted, all images in this presentation were created using Microsoft Copilot's Designer GPT found at copilot.microsoft.com

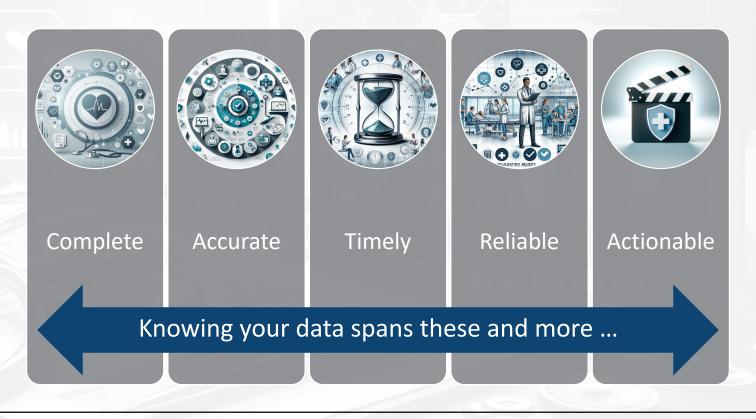










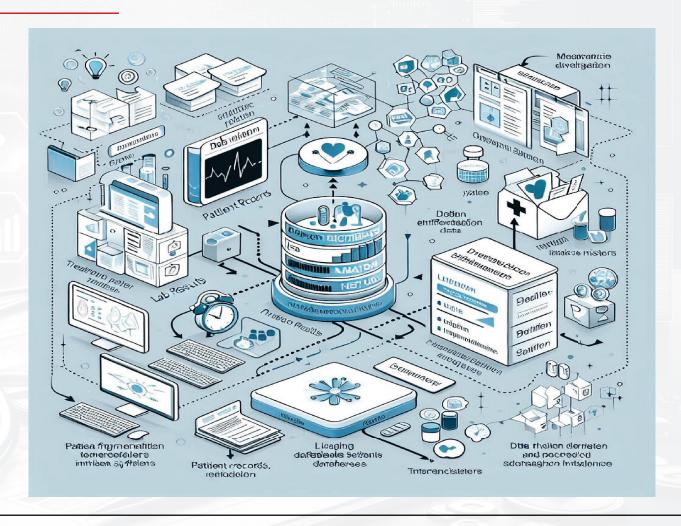


Common Sources of Data



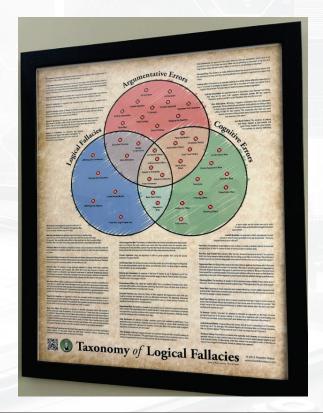
Data Lake (e.g., MSFT, AWS, et al)

Common Sources of Data



Common Sources of Data

Fragmented Systems + Poor Data Literacy = Risk of Argumentative Errors, Logical Fallacies, and Cognitive Errors in Decision Making





Know your data

Value in using your data

Unless otherwise noted, all images in this presentation were created using Microsoft Copilot's Designer GPT found at copilot.microsoft.com

Configuring Strategic Insights

Objective 2: Participants will come away with a better understanding of how to generate value from payor price transparency data, claims data, and quality data.



Configuring Strategic Insights

Objective 2: Participants will come away with a better understanding of how to generate value from payor price transparency data, claims data, and quality data.

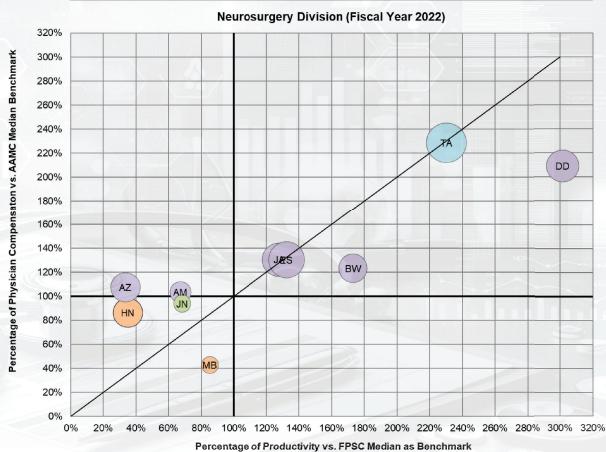
High Value Strategic Data:

- Proprietary service maturity matrices/indices (e.g., service line specific matrices for categorization—CPTs, DRGs, etc.)
- Publicly available census, quality, bond issuance, disease prevalence, etc.
- Many vendors willing to sell data and insights from data be careful
- Advisory Board Suite of Tools Market Scenario Planner, et al
- KHA Claims Data (IP and OP Hospital Data)
- Payor Price Transparency Data

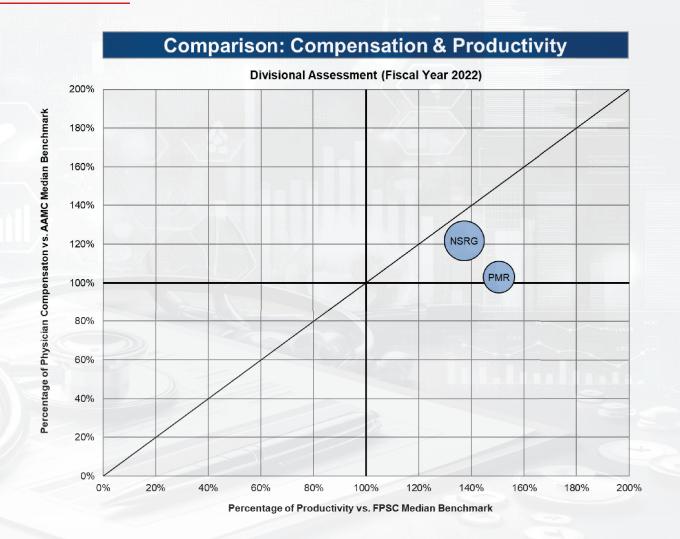


Bubble Chart Assessment: Productivity & Compensation



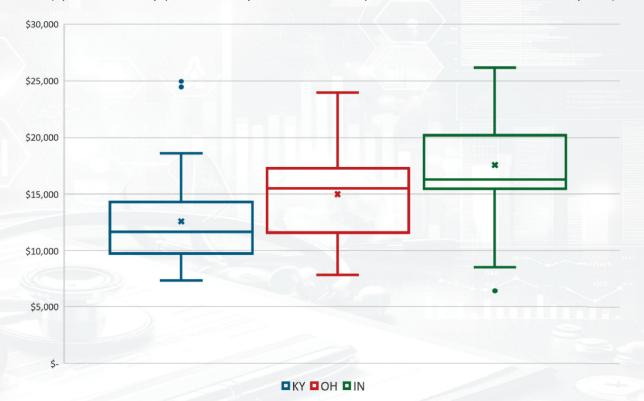


Bubble Chart Assessment: Productivity & Compensation





Average Negotiated In-Network MS-DRG Base Rates with Anthem by State (Spine DRGs only | Anthem July 2024 PPO MRFs | n = 217 General Acute Care Hospitals)



For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction+" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.

Average In-Network Negotiated MS-DRG Base Rates with Anthem (Indiana, Kentucky, & Ohio)

Spine DRGs only | Anthem July 2024 PPO MRFs | n=217 General Acute Care Hospitals, 55 with BCBSA Distinction or Distinction+ in Spine Care

F-Test Two-Sample for Variances

一直到到过度的现在	Mean Base Rate	Mean Base Rate
Mean	17462.77686	14669.50449
Variance	20597470.32	18293322.4
Observations	55	162
df	54	161
F	1.125955683	
P(F<=f) one-tail	0.282940972	0.565881943
F Critical one-tail	1.417498626	

t-Test: Two-Sample Assuming Equal Variances

	Mean Base Rate	Mean Base Rate
Mean	17462.77686	14669.50449
Variance	20597470.32	18293322.4
Observations	55	162
Pooled Variance	18872038.62	
Hypothesized Mean Difference	0	
df	215	
t Stat	4.120148434	
P(T<=t) one-tail	0.00002702	
t Critical one-tail	1.651971748	
P(T<=t) two-tail	0.00005403	
t Critical two-tail	1.971059122	

Average In-Network Negotiated MS-DRG Base Rates with Anthem (Kentucky only)

Spine DRGs only | Anthem July 2024 KY PPO MRF | n = 49 General Acute Care Hospitals, 14 with BCBSA Distinction or Distinction+ in Spine Care

F-Test Two-Sample for Variances

	Mean Base Rate	Mean Base Rate			
Mean	16046.77273	11215.06494			
Variance	34941736.15	7204163.254			
Observations	14	35			
df	13	34			
F	4.850214372				
P(F<=f) one-tail	0.000104618	0.000209236			
F Critical one-tail	2.020663866				

t-Test: Two-Sample Assuming Unequal Variances

target and the same of the sam	NEW YEAR	H (79)
The state of the s	Mean Base Rate	Mean Base Rate
Mean	16046.77273	11215.06494
Variance	34941736.15	7204163.254
Observations	14	35
Hypothesized Mean Difference	0	
df	15	
t Stat	2.939573937	
P(T<=t) one-tail	0.00507305	
t Critical one-tail	1.753050356	
P(T<=t) two-tail	0.01014610	
t Critical two-tail	2.13144955	

For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.

Average In-Network Negotiated MS-DRG Base Rates with Anthem (Indiana, Kentucky, & Ohio)

Spine DRGs only | Anthem July 2024 PPO MRFs | n = 217 General Acute Care Hospitals, 55 with BCBSA Distinction or Distinction+ in Spine Care

SUMMARY OUTPUT - USING INDIANA AS BASE CASE

Regression Statistics											
Multiple R	Nile v	0.521110789									
R Square	7	0.271556455									
Adjusted R Square	0 0	0.261296686									
Standard Error	\$	3,869.36									
Observations		217									

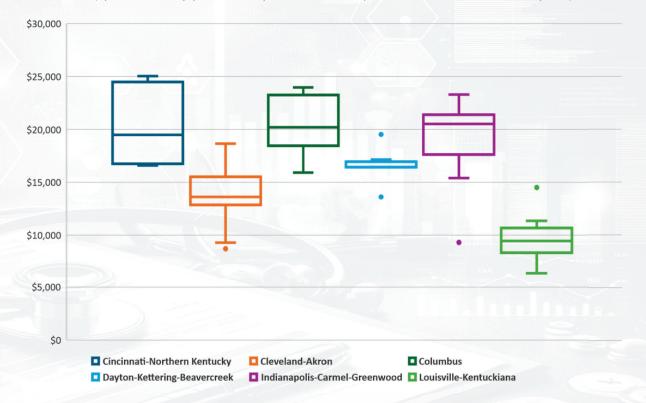
(4-	Coefficients	Standard Error	t Stat	P-value		Lower 95%	Upper 95%
Intercept	\$	16,950.81	453.4137787	37.38485429	0.000000000	\$	16,057.06	\$ 17,844.56
BCBSA Quality	\$	3,220.77	607.2294959	5.304047192	0.000000283	\$	2,023.83	\$ 4,417.72
KY	\$	(5,275.48)	707.6115543	-7.455328077	0.000000000	\$	(6,670.29)	\$ (3,880.66)
OH	\$	(2,889.52)	601.4497442	-4.80426431	0.000002928	\$	(4,075.08)	\$ (1,703.97)

Both quality and location are statistically significant in predicting a hospital's spine DRG base rate in Indiana, Kentucky, and Ohio → But... those two variables only explain 27% of the variance...

For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction+" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.

Average Negotiated In-Network MS-DRG Base Rates with Anthem by Major Metro Area

(Spine DRGs only | Anthem July 2024 PPO MRFs | n = 86 General Acute Care Hospitals)



For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.

Average In-Network Negotiated MS-DRG Base Rates with Anthem (Major Metro Areas - Indiana, Kentucky, & Ohio)

Spine DRGs only | Anthem July 2024 PPO MRFs | n = 86 General Acute Care Hospitals, 36 with BCBSA Distinction or Distinction+ in Spine Care

SUMMARY OUTPUT

Regression	on Statistics	
Multiple R		0.84424311
R Square	1	71.27%
Adjusted R Square		69.09%
Standard Error	\$	2,677.70
Observations		86

Intercept	Coefficients	ficients Standard Error		t Stat	P-value		Lower 95%	Upper 95%
	\$ 19,226.46	\$	856.69	22.44284938	0.00000000	\$	17,521.27	\$ 20,931.65
BCBSA Quality	\$ 1,601.37	\$	632.34	2.532445452	0.01330877	\$	342.73	\$ 2,860.01
Cleveland-Akron	\$ (5,987.78)	\$	933.54	-6.414050049	0.0000001	\$	(7,845.95)	\$ (4,129.61)
Columbus	\$ 822.51	\$	1,137.97	0.722785955	0.47194582	\$	(1,442.56)	\$ 3,087.58
Dayton-Kettering-Beavercreek	\$ (3,489.52)	\$	1,187.54	-2.938450757	0.00432237	\$	(5,853.26)	\$ (1,125.79)
Indianapolis-Carmel-Greenwood	\$ (224.06)	\$	1,023.27	-0.218959972	0.82724593	\$	(2,260.83)	\$ 1,812.72
Louisville	\$ (10,135.92)	\$	1,033.72	-9.805315587	0.00000000	\$	(12, 193.48)	\$ (8,078.36)

Both quality and metro area are statistically significant in predicting a hospital's spine DRG base rate in the major metropolitan areas in Indiana, Kentucky, and Ohio

and those two variables explain over 70% of the variance in spine base rates

For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction+" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.

FROM CMS 1785-F | TABLE 5: LIST OF MEDICARE SEVERITY DIAGNOSIS-RELATED GROUPS (MS-DRGS), RELATIVE WEIGHTING FACTORS, AND GEOMETRIC AND ARITHMETIC MEAN LENGTH OF STAY—FY 2024 Final Rule

LINEAR REGRESSION MODEL DERIVED FROM ANTHEM MACHINE READABLE FILES RELEASED JULY 2024 PPO IN-NETWORK NEGOTIATED RATES (IN, OH, KY)

			ness three to the same of the							
MS-DRG	MS-DRG Title	Weights - Before Cap	Weights - 10% Cap Applied	Ci	ncinnati Metro Base Rate = \$19,226.46		ouisville Metro Base Rate = \$9,090.54		uisville Δ per Encounter	
453	Combined anterior and posterior spinal fusion w/ mcc	8.8614	8.8614	\$	170,373.35	\$	80,554.91	\$	(89,818.44)	
454	Combined anterior and posterior spinal fusion w/cc	6.1163	6.1163	\$	117,594.80	\$	55,600.47	\$	(61,994.33)	
455	Combined anterior and posterior spinal fusion w/o cc/mcc	4.6056	4.6056	\$	88,549.38	\$	41,867.39	\$	(46,681.99)	
456	Spinal fusion except cervical w/ spinal curvature, malignancy, infection or extensive fusions w/ mcc	8.4294	8.4294	\$	162,067.52	\$	76,627.80	\$	(85,439.72)	
457	Spinal fusion except cervical w/ spinal curvature, malignancy, infection or extensive fusions w/ cc	6.0753	6.0753	\$	116,806.51	\$	55,227.76	\$	(61,578.75)	
458	Spinal fusion except cervical w/ spinal curvature, malignancy, infection or extensive fusions w/o cc/mcc	4.5310	4.5310	\$	87,115.09	\$	41,189.24	\$	(45,925.85)	
459	Spinal fusion except cervical w/ mcc	6.6323	6.6323	\$	127,515.65	\$	60,291.19	\$	(67,224.46)	
460	Spinal fusion except cervical w/o mcc	3.6579	3.6579	\$	70,328.47	\$	33,252.29	\$	(37,076.18)	
471	Cervical spinal fusion w/ mcc	4.9190	4.9190	\$	94,574.96	\$	44,716.37	\$	(49,858.59)	
472	Cervical spinal fusion w/ cc	2.9554	2.9554	\$	56,821.88	\$	26,866.18	\$	(29,955.70)	
473	Cervical spinal fusion w/o cc/mcc	2.4606	2.4606	\$	47,308.63	\$	22,368.18	\$	(24,940.44)	

For statistical work conducted in the presentation, exclusively used Microsoft Excel's "Analysis ToolPak" found in the Excel Ad-ins section of the application options menu. To ascertain whether the expected average in-network negotiated base rate differences were statistically significant amongst the various segments tested (e.g., BCBSA "Distinction" and "Distinction" vs. null) author used "F-Test Two-Sample for Variances" and subsequently used the appropriate t-Test pending the results of the F-Test (e.g., "t-Test: Two-Sample Assuming Equal Variances" and "t-Test: Two-Sample Assuming Unequal Variances) as noted in the "Quality a Possible Driver" slide. For regression testing, author used "Regression" tool with outputs found in "Quality vs. State More Significant" and "Metro Area Regression Findings" slides. Data obtained and used for testing were from the individual machine-readable files released by Anthem for the PPO plans available for sale in Indiana, Kentucky, and Ohio for the month of July 2024 and included the in-network negotiated rates for the 11 spine DRGs for 217 general acute care ("GAC") hospitals that had contracts with Anthem. A manual NPI lookup was used to ascertain "GAC" status for inclusion of the statistical testing. CMS table 5 for the appropriate fiscal year was used to derive the base rate for the 11 spine DRG codes noted thusly: 453, 454, 455, 456, 457, 458, 459, 460, 471, 472, and 473.



KHA Data + Advisory Board = Actionable Insights

Inpatient Services for Cardiac Service Line Patients Residing in Jefferson County in FY2024

	KHA PROGRAMS	SURGERY - CARDIOVASCULAR & THORACIC (71 DRG Codes)													
Subs	services per Advisory Board's	Arterial				Cardiac	Other Thoracic	Other	14 mg/	Venous					
	arket Scenario Planner Tool	Disease	Body Injuries	Cardiac Cath	Cardiac EP	Surgery	Surgery	Vascular	Pulmonology	Disease					
IVI	arket Scenario Planner 1001	(12 DRGs)	(3 DRGs)	(10 DRGs)	(18 DRGs)	(18 DRGs)	(6 DRGs)	(1 DRG)	(2 DRGs)	(1 DRG)					
		{A}	{B}	{C}	{D}	{E}	{F}	{G}	{H}	{1}	TOTAL				
	FY24 TOTAL KHA Discharges	1683	191	2369	1008	2132	1274	137	747	9	9550				
FY24 1	Total UofL Health Share (% #)	23.9% 402	45.0% 94	25.8% 611	31.5% 318	31.5% 672	17.9% 228	23.4% 32	20.3% 152	33.3% 3	25.9% 2478				
	FY24 KY Resident Discharges	1519	180	2151	920	1846	1152	128	700	7	8603				
FY24 1	Total UofL Health Share (% #)	22.7% 344	42.2% 76	24.9% 536	31.7% 292	32.0% 590	17.8% 205	21.9% 28	20.6% 144	42.9% 3	25.8% 2218				
BEI	LOW INFORMATION FOR JEFFER	SON COUNTY F	RESIDENTS ONL	Y											
	Market Discharges (n =)	816	88	1157	501	992	592	84	423	6	4659				
soi	Market Size - Based on ULH Medicare Base Rate of \$6,174	I S 16 3 3 2 3 3 3 1	\$ 661,527	\$ 23,274,790	\$ 10,265,160	\$ 44,451,319	\$ 11,740,776	\$ 1,693,800	\$ 2,989,529	\$ 104,657	\$ 111,519,886				
- FISCAL YEAR 2024 r Mix Statistics	5-year Projected Growth {N}	-2.1%	6.5%	15.7%	12.7%	-3.1%	-11.4%	-16.5%	26.1%	-18.6%	6.9%				
Sta	10-year Projected Growth {N}	-5.8%	13.6%	23.4%	18.9%	-4.6%	-16.9%	-20.7%	49.5%	-22.8%	11.2%				
ΥEΔ	Outmigration (% #)	0.5% 4	0% 0	0.3% 4	1.8% 9	2.1% 21	0.5% 3	1.2% 1	0.0% 0	0.0% 0	0.9% 42				
AL	нні {0}	4090	3791	3718	3511	3608	4047	5266	3720	3889	4103				
E X	Commercial - Market	18.6%	13.6%	22.1%	12.2%	26.6%	27.2%	10.7%	20.1%	16.7%	21.0%				
	Medicare - Market	61.3%	69.3%	59.2%	76.0%	53.4%	55.9%	59.5%	61.0%	50.0%	60.7%				
DNLY - FISC Payor Mix	Medicaid - Market	15.9%	10.2%	14.1%	10.0%	15.1%	13.2%	22.6%	13.5%	33.3%	14.1%				
0	Other - Market	4.2%	6.8%	4.6%	1.8%	4.8%	3.7%	0 7.1%	5.4%	0.0%	4.2%				
L L	Market Share					A SPECIAL PROPERTY.				113					
B	UofL Health (% #)	25.0% #2	43.2% #1	25.5% #2	30.3% #2	31.3% #2	20.1% #3	25.0% #2	23.2% #3	33.3% #2	27.7% #2				
33	University	4.7%	36.4%	2.1%	1.6%	0.5%	5.2%	3.6%	5.7%	0.0%	3.5%				
Y R	Jewish	17.5%	0.0%	16.5%	28.5%	30.4%	13.3%	14.3%	8.7%	33.3%	19.5%				
L	Mary Elizabeth	2.8%	6.8%	6.9%	0.2%	0.3%	1.5%	7.1%	8.7%	0.0%	3.6%				
S S	South	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
N O	Shelbyville	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
RSON CO. Hospitals	Norton Audubon	34.6%	1.1%	35.9%	23.8%	35.8%	27.5%	26.2%	17.5%	0.0%	30.7%				
JEFFERSON COUNTY RESIDENTS ONLY Hospitals Payo	Norton Brownsboro	4.2%	8.0%	6.5%	5.2%	0.4%	2.5%	15.5%	12.1%	0.0%	4.8%				
Ħ	Norton Childrens	1.5%	0.0%	0.1%	1.0%	2.5%	2.4%	1.2%	1.2%	0.0%	1.4%				
	Norton Downtown	14.5%	2.3%	7.2%	13.0%	8.9%	13.2%	14.3%	7.3%	50.0%	10.3%				
	Norton Womens & Childrens	1.1%	4.5%	0.0%	2.8%	0.0%	9.6%	10.7%	11.1%	0.0%	3.0%				
	Baptist Louisville	18.8%	40.9%	24.5%	22.2%	19.1%	24.2%	6.0%	27.7%	16.7%	22.3%				

KHA Data + Advisory Board = Actionable Insights

Inpatient Services for Cardiac Service Line Patients Residing in Jefferson County in FY2024

		KHA PROGRAMS	MEDICINE - CARDIOVASCULAR DISEASE (37 DRG Codes)										
		services per Advisory Board's larket Scenario Planner Tool	Cardiac Cath (2 DRGs)	(30 DRGs)	Other Vascular (3 DRGs)	Venous Disease (2 DRGs)							
_			{J}	{K}	{L}	{M}	TOTAL						
		FY24 TOTAL KHA Discharges	1506	11901	570	4	13981						
F	Y24 ⁻	Total UofL Health Share (% #)	30.9% 466	20.3% 2414		25.0% 1	21.8% 3043						
		FY24 KY Resident Discharges	1374	11283	525	3	13185						
F	Y24 ⁻	Total UofL Health Share (% #)	30.5% 419	20.2% 2274	27.5% 144	33.3% 1	21.5% 2841						
	BE	LOW INFORMATION FOR JEFFER	SON COUNTY	RESIDENTS O	NLY								
		Market Discharges (n =)	863	6428	319	1	7611						
ŧ	Statistics	Market Size - Based on ULH Medicare Base Rate of \$6,174	\$9,012,069	\$46,427,237	\$2,294,549	\$ 6,753	\$ 57,740,608						
02	tisl	5-year Projected Growth {N}	-2.3%	-4.4%	-19.2%	-26.9%	-5.0%						
R 2	Sta	10-year Projected Growth (N)	-8.9%	-7.0%	-30.0%	-34.1%	-8.4%						
YΕΔ		Outmigration (% #)	1.4% 12	1.4% 93	0.6% 2	0% 0	1.4% 107						
AL		нні {о}	3814	3868	3 <mark>577</mark>	*	3840						
SC	۷į×	Commercial - Market	18.9%	12.8%	19.4%	*	13.8%						
4	ž	Medicare - Market	56.9%	68.5%	60.5%	*	66.9%						
ΙŢ	Payor Mix	Medicaid - Market	19.4%	14.6%	16.0% *		15.2%						
ō	Ь	Other - Market	4.9%	4.1%	4.1%	*	4.2%						
VTS		Market Share											
DE		UofL Health (% #)	32.7% #2	25.8% #2	32.3% #2	*	26.9% #2						
ES		University	5.0%	5.1%	5.0%	*	5.1%						
ΥR		Jewish	16.7%	10.9%	17.6%	*	11.8%						
M		Mary Elizabeth	10.7%	9.2%	9.4%	*	9.4%						
õ	SIS	South	0.3%	0.5%	0.3%	*	0.5%						
N	pit	Shelbyville	0.0%	0.0%	0.0%	*	0.0%						
JEFFERSON COUNTY RESIDENTS ONLY - FISCAL YEAR 2024	Hospitals	Norton Audubon	32.0%	25.0%	19.4%	*	25.6%						
Ŧ	_	Norton Brownsboro	5.2%	8.6%	6.0%	*	8.1%						
爑		Norton Childrens	0.3%	0.9%	0.3%	*	0.8%						
		Norton Downtown	8.3%	8.2%	6.9%	*	8.1%						
		Norton Womens & Childrens	3.7%	10.1%	12.9%	*	9.5%						
		Baptist Louisville	16.7%	20.0%	21.6%	*	19.7%						



CY22 & CY23 NEURO & SPINE SERVICES FROM HENRY, SPENCER, SHELBY COUNTIES - ALL FACILITIES Breakout by Service Line Maturity Model

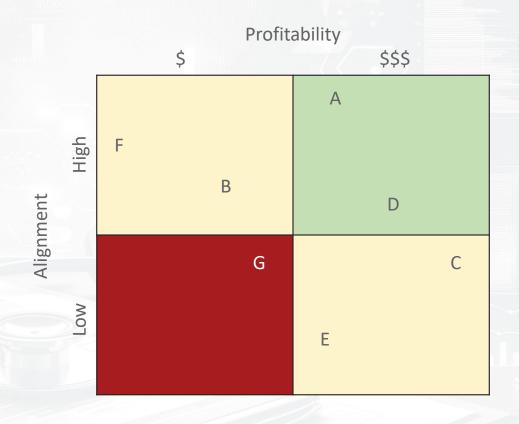
	Basic				Intermediate					Compre	hensive		Total Defined Market			
INPATIENT	CY22	CY23	Δ	% ∆	CY22	CY23	Δ	% ∆	CY22	CY23	Δ	% Δ	CY22	CY23	Δ	%Δ
Surgery DRGs	104	128	24	23.1%	80	90	10	12.5%	81	90	9	11.1%	265	308	43	16.2%
Medicine DRGs	92	111	19	20.7%	129	155	26	20.2%	143	159	16	11.2%	364	425	61	16.8%
Total IP Services for Patients of Defined Market	196	239	43	21.9%	209	245	36	17.2%	224	249	25	11.2%	629	733	104	16.5%
% of Total Defined Market	31.2%	32.6%			33.2%	33.4%			35.6%	34.0%				•		
CUTDATICAL																
OUTPATIENT																
Neuro Testing	335	394	59	17.6%	55	73	18	32.7%	-	-	-	-	390	467	77	19.7%
Surgery - Musculoskeletal	-	-	-	-	53	52	(1)	-1.9%	3	11	8	266.7%	56	63	7	12.5%
Surgery - Nervous System	1,804	2,109	305	16.9%	49	43	(6)	-12.2%	1	5	4	400.0%	1,854	2,157	303	16.3%
Total OP Services for Patients of Defined Market	2,139	2,503	364	17.0%	157	168	11	7.0%	4	16	12	300.0%	2,300	2,687	387	16.8%
% of Total Defined Market	93.0%	93.2%	•		6.8%	6.3%	•		0.2%	0.6%			-	•	•	
	-	•		-				-	•	-						
Total IP and OP Services from Defined Market	2,335	2,742	407	17.4%	366	413	47	12.8%	228	265	37	16.2%	2,929	3,420	491	16.8%
% of Total Defined Market	79.7%	80.2%			12.5%	12.1%	•		7.8%	7.7%	,					

CY22 & CY23 NEURO & SPINE SERVICES FROM HENRY, SPENCER, SHELBY COUNTIES - UofL HEALTH FACILITIES ONLY Breakout by Service Line Maturity Model

,													1			
	Basic				Intermediate				Comprehensive				Total UofL Health			
INPATIENT	CY22	CY23	Δ	%Δ	CY22	CY23	Δ	% ∆	CY22	CY23	Δ	% ∆	CY22	CY23	Δ	%Δ
Surgery DRGs	28	32	4	14.3%	15	16	1	6.7%	26	22	(4)	-15.4%	69	70	1	1.49
Medicine DRGs	41	34	(7)	-17.1%	49	57	8	16.3%	38	43	5	13.2%	128	134	6	4.79
Total IP	69	66	(3)	-4.3%	64	73	9	14.1%	64	65	1	1.6%	197	204	7	3.6%
UL Health Share of IP from Defined Market	35.2%	27.6%	•		30.6%	29.8%	•		28.6%	26.1%			31.3%	27.8%		
OUTPATIENT												,				
Neuro Testing	10	18	8	80.0%	-	-	-	-	-	-	-	-	10	18	8	80.09
Surgery - Musculoskeletal	-	-	-	-	5	7	2	40.0%	-	1	1	-	5	8	3	60.0%
Surgery - Nervous System	222	295	73	32.9%	21	10	(11)	-52.4%	-	1	1	-	243	306	63	25.9%
Total OP	232	313	81	34.9%	26	17	(9)	-34.6%	-	2	2	-	258	332	74	28.7%
UL Health Share of OP from Defined Market	10.8%	12.5%			16.6%	10.1%	•		0.0%	12.5%			11.2%	12.4%		
Total UofL Health IP and OP from Defined Market	301	379	78	25.9%	90	90	-	0.0%	64	67	3	4.7%	455	536	81	17.89
UL Health Share of Defined Market	12.9%	13.8%			24.6%	21.8%			28.1%	25.3%		'	15.5%	15.7%	,	

Above summary comes from KHA IP and OP reported data for CY2022 and CY2023 and includes DRG and CPT services rendered on patients whose primary residence is located in Shelby, Spencer, or Henry county. Filtered data for Surgery: Neuro, Surgery: Spine, and Medicine: Neuro mapped DRGs, and for Neuro Testing, Surgery - Musculoskeletal and Surgery-Nervous System mapped CPTs. Noted that for Surgery - Musculoskeletal CPTs we limited to those CPTs relevant to Spine that had at least one outpatient encounter from a patient residing in Henry, Spencer, or Shelby Counties sometime from CY22 - CY23 (e.g., 22551, 22554, 22558, 22600, 22612, 22630, 22632, 22830, 22842, 22850, 22855, 22855, and 22857). With the assistance of Josh Beardsley (VP Neurosciences), mapped the individual DRGs and CPTs into Basic, Intermediate, and Comprehensive service maturity category based upon drafted service maturity model matrix for Neurosciences.

Project Decision Aid → Alignment Matrix





Abraham Gage

971.373.1777

abraham.gage@uoflhealth.org