



PATHWAYS4KIDS
Supporting Evidenced Based Practices

Dashboards/Metrics Visualization Rapid Fire



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PATHWAYS4KIDS

Supporting Evidenced Based Practices

Internal Process Dashboards

Children's Mercy Kansas City

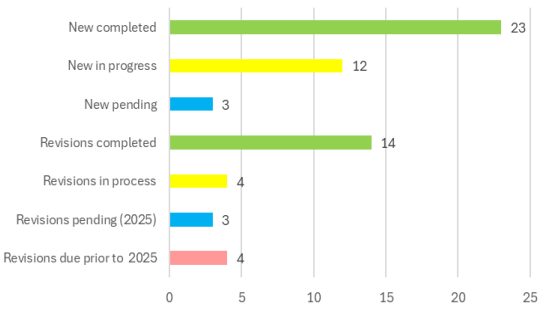
Jarrold Dusing, PhD, RD, CPHQ



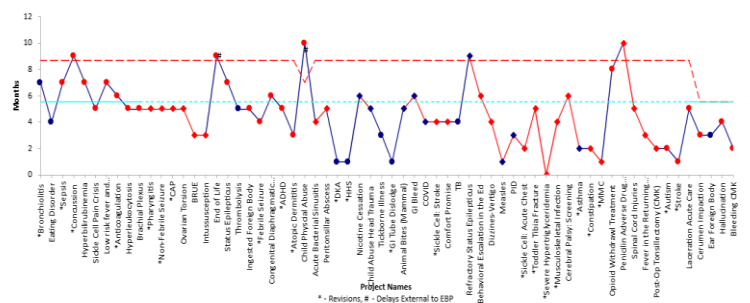


Children's Mercy Dashboard

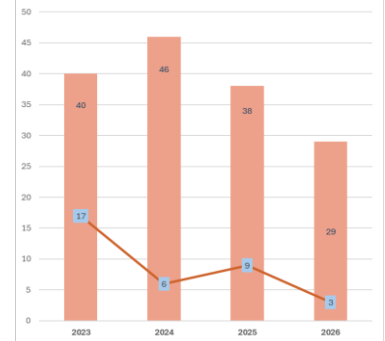
2025 Calendar Year to Date



Completed Clinical Pathways (CY 2023-2025)

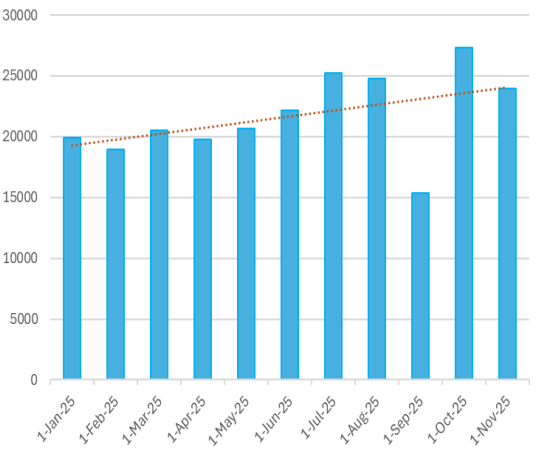


Department Collaboration (FY)

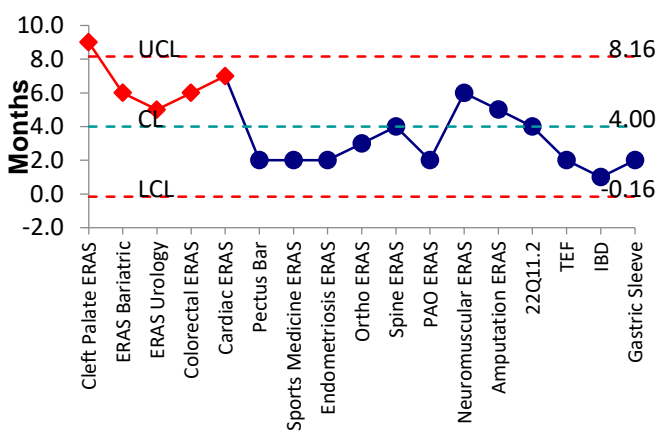


New in FY 2025-2026:
 Advance Practice Programs Ambulatory Administration Patient Care Services Enteral Access Team Physical & Occupational Therapy Premier Pediatrics (PCP) Infection Prevention & Control Security/Transportation Otolaryngology CMK Perioperative Services Kansas Emergency Department

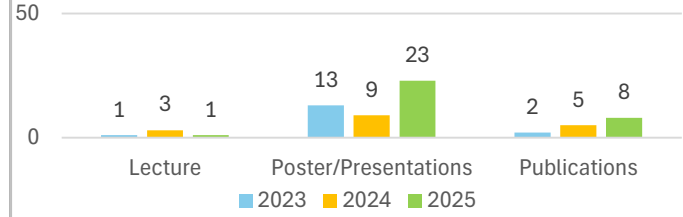
Web Hits by Month (YR 2025)



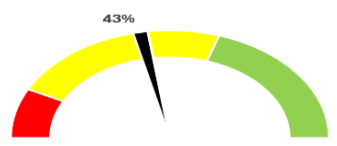
ERAS Pathway CY 2023-2025



Scholarly Work (CY)



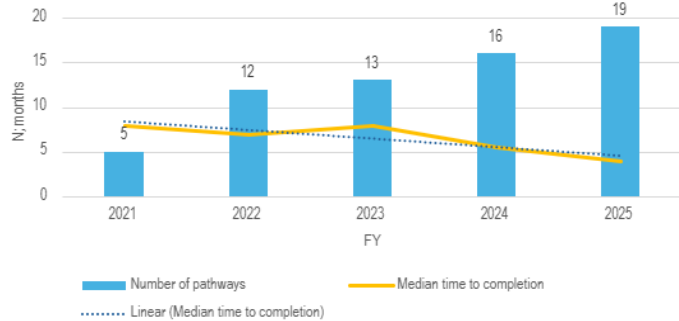
Patient/Family Engagement and Experience



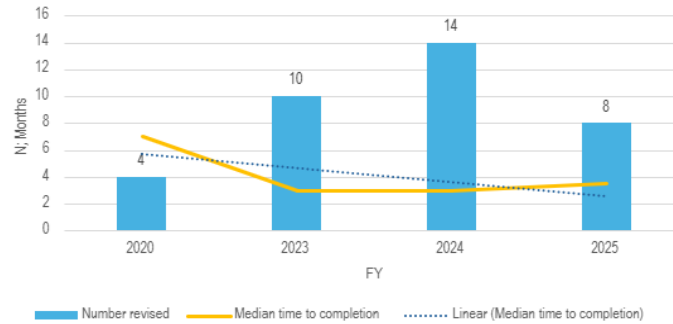


Children's Mercy Dashboard

New Clinical Pathways and Complex Revisions Median Time to Completion (FY)



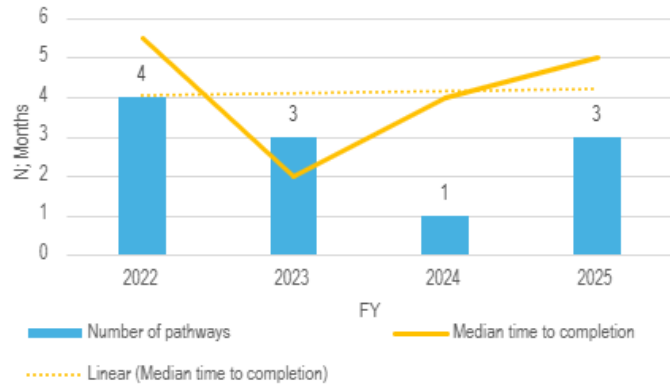
Clinical Pathway Revisions Median Time to Completion (FY)



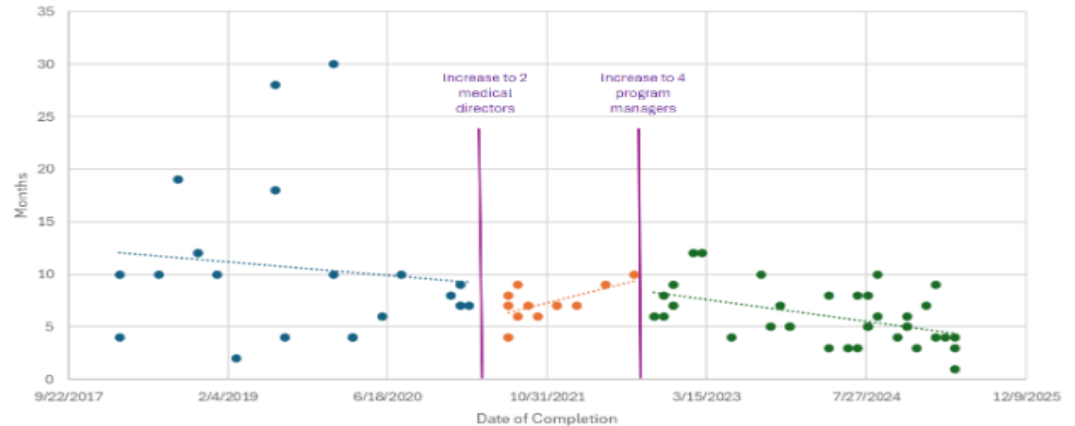
Web Hits by Year



ERAS Median Time to Completion (FY)



Clinical Pathways: Average Time to Completion





PATHWAYS4KIDS

Supporting Evidenced Based Practices

Sepsis Pathway Data Transformation

Children's Nebraska, Omaha, Nebraska

Kelsey Zindel, DNP, APRN-NP, CPNP-AC/PC

Taelyr Weekly, PhD, MPH, BSN-RN

Alison Simonsen, MSN, RN





Sepsis Pathway Raw Data

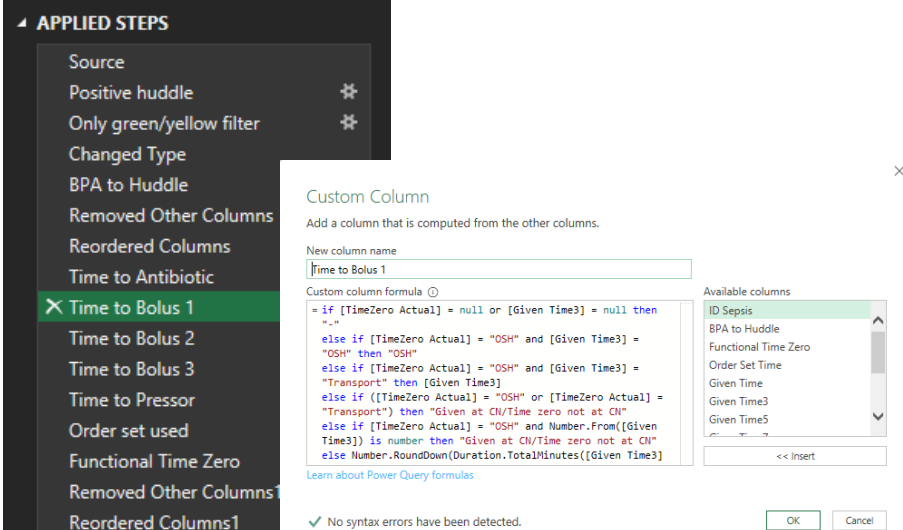


ID Sepsis	Location	OSH	Screen Time	Huddles		Time Zero		Order Sets		Antibiotics		Bolus 1			Bolus 2			Bolus 3			Pressor		Hypotension		Disposition	
				Huddle Time	Huddle Outcome	Functional Time Zero	Order Set Used	Order Set Time	Order Time	Given Time	OrderTime2	Given Time3	Order Time4	Given Time5	Order Time6	Given Time7	Order Time8	Start Time	First Hypotension	Type	Date					
123456789	1				0	5	1	1	1/27/2025 6:47	1/27/2025 6:48	1/27/2025 9:21	1/27/2025 6:47	1/27/2025 6:16	1/27/2025 6:15	1/27/2025 6:39	1/27/2025 6:32	1/27/2025 10:10								1	1/31/2025
234567891	1		2/13/2025 16:51	2/13/2025 17:13	2	1	4	2/13/2025 17:14	2/13/2025 17:17	2/13/2025 18:37	2/13/2025 17:17	2/13/2025 18:36													1	2/20/2025
345678912	99	1	2/21/2025 19:04	2/21/2025 19:20	1	6	0		2/21/2025 18:34	2/21/2025 20:12		OSH	OSH	Transport	Transport	Transport	Transport								1	2/25/2025
456789123	1		3/25/2025 2:02		0	5	0		3/25/2025 2:03	3/25/2025 2:46	3/25/2025 1:43	3/25/2025 1:48	3/25/2025 2:34	3/25/2025 2:37	3/25/2025 3:44	3/25/2025 3:52	3/25/2025 3:52	3/25/2025 4:06	3/25/2025 5:32	3/25/2025 3:41	1	1	3/30/2025			
567891234	99	1		4/14/2025 21:50	3	6	4	4/14/2025 20:55	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	OSH	4/14/2025 21:58	4/14/2025 21:58				1	1	4/20/2025
678912345	1			5/29/2025 8:48	3	3	1	5/29/2025 8:51	5/29/2025 9:33	5/29/2025 10:19	5/29/2025 8:51	5/29/2025 9:03	5/29/2025 8:51	5/29/2025 11:07										5/29/2025 8:50	1	5/30/2025
789123456	1		6/11/2025 13:10		0	5	0		6/11/2025 13:31	6/11/2025 15:30	6/11/2025 11:57	6/11/2025 11:59	6/11/2025 14:44	6/11/2025 14:11				6/11/2024 14:34	6/11/2025 14:18	6/11/2025 14:15			4	7/11/2025		
891234567	1		8/1/2025 8:01	8/1/2025 8:04	1																					
912345678	1		9/7/2025 15:22	9/7/2025 15:25	1																					

- **Manual review from an Epic Workbench Report (OPA) for the preliminary monthly summary**
 - Captures timestamps for: screening, huddle, order set, antibiotics, bolus 1–3, pressor start, and first hypotension
 - Includes additional elements: huddle outcome, functional time zero, disposition type, and encounter date
 - Final validated report is available with a 2-month delay
- **Raw output can appear overwhelming for teams**



- Power Query is a tool in Excel that **cleans and organizes data automatically**
- Instead of fixing messy spreadsheets by hand, you set the steps once
- Each time you click **Refresh**, Power Query repeats those steps perfectly
- Saves time, reduces errors, and standardizes reports



APPLIED STEPS

- Source
- Positive huddle
- Only green/yellow filter
- Changed Type
- BPA to Huddle
- Removed Other Columns
- Reordered Columns
- Time to Antibiotic
- Time to Bolus 1**
- Time to Bolus 2
- Time to Bolus 3
- Time to Pressor
- Order set used
- Functional Time Zero
- Removed Other Columns1
- Reordered Columns1

Custom Column

Add a column that is computed from the other columns.

New column name: Time to Bolus 1

Custom column formula: `= if [TimeZero Actual] = null or [Given Time3] = null then "" else if [TimeZero Actual] = "OSH" and [Given Time3] = "OSH" then "OSH" else if [TimeZero Actual] = "OSH" and [Given Time3] = "Transport" then [Given Time3] else if ([TimeZero Actual] = "OSH" or [TimeZero Actual] = "Transport") then "Given at CN/Time zero not at CN" else if [TimeZero Actual] = "OSH" and Number.From([Given Time3]) is number then "Given at CN/Time zero not at CN" else Number.RoundDown(Duration.TotalMinutes([Given Time3])`

Available columns: ID Sepsis, BPA to Huddle, Functional Time Zero, Order Set Time, Given Time, Given Time3, Given Time5

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel





Organized and Transformed Data



ID Sepsis	BPA to Huddle Time	Positive Huddle	Orderset Used	Time Zero	Time to Antibiotic	Time to Bolus 1	Time to Bolus 2	Time to Bolus 3	Time to Pressor
123456789	-	No huddle or no outcome	+	Bolus time	185	0	23	234	-
234567891	22	Suspected sepsis	+	Screen time	106	105	-	-	-
345678912	16	Low concern for sepsis	-	Unknown/OSH	Given at CN/Time zero not at CN	OSH	Transport	Transport	-
456789123	-	No huddle or no outcome	-	Bolus time	58	0	49	124	224
567891234	-	Septic shock	+	Unknown/OSH	OSH	OSH	OSH	OSH	Given at CN/Time zero not at CN
678912345	-	Septic shock	+	Orderset time	88	12	136	-	-
789123456	-	No huddle or no outcome	-	Bolus time	211	0	132	-	139
Median	9.5				106	0	90.5	179	181.5
Mean	11				129.6	23.4	85	179	181.5
Proportion	33%	43%	57%		60%	80%			

Leads to:

1. Organized, transformed, and easily understood data
2. Rapid review data and implement improvement opportunities
3. More time spent on quality improvement implementation efforts





DIABETIC KETOACIDOSIS DASHBOARD

Arkansas Children's Hospital

Presenters:

Valerie Harfield, MHSA

Emily Rader, MSN, RN, CPN



Clinical Pathway Goals



Integrate evidence-based guidance seamlessly into the ordering process



Ensure rapid and consistent updates to clinical recommendations



Minimize practice variation by guiding providers through standardized, condition-specific logic



Streamline workflows by retiring duplicative order sets

Process Metrics



Timely initiation of
normal saline bolus

IV insulin drip
within 2 hours

Outcome Metrics



Resolution of
acidosis

Reduced length
of stay

Balancing Metrics



Incidence of
cerebral edema

Summary

Go Live: 6/9/2025; Inpatient and ED Encounters

ACH

ACNW

Year
 PrimaryMrn
 ED Disposition
 Pre Or Post Pathway
 SNOMED Dx

Insulin Administered Within Goal of <2 Hours

Insulin IV Within 2 Hours

Pre Pathway

47.51%

Insulin IV Within 2 Hours

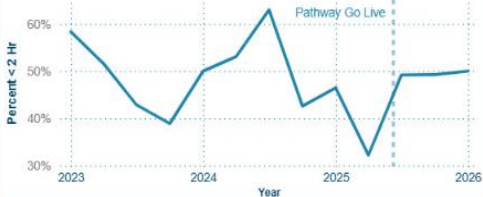
Post Pathway

48.39%

Insulin Administration Goal % Change

1.85%

% Insulin Administration < 2 Hours by Quarter



Up is Better



Bolus Administered Within Goal of <1 Hour

Bolus Within 1 Hour

Pre Pathway

75.4%

Bolus Within 1 Hour

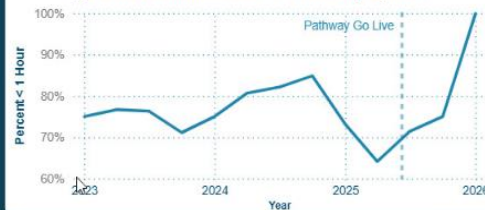
Post Pathway

75.0%

Bolus Administration Goal % Change

-0.60%

% Bolus Administration < 1 Hour by Quarter

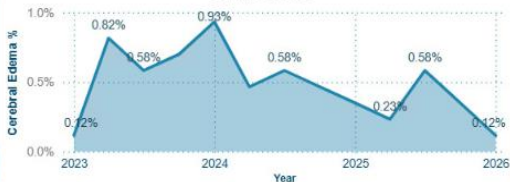


Up is Better



Incidence of Cerebral Edema

Goal: No Change



Incidence of Cerebral Edema

2023	2024	2025	2026
2.21%	2.45%	1.52%	0.12%

AgileMD Pathway Use

System Use; From Launch of 6/9/2025

85.4%

Hospital Length of Stay

Pre Pathway

2.12

Avg. Days

Hospital Length of Stay

Post Pathway

1.70

Avg. Days

DKA Encounters by Quarter





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Supporting Evidenced Based Practices

One Stop Shop for Clinical Pathway Effectiveness

*Jenna Lang, MSN, RN, CPN
Clinical Effectiveness Program Manager
Nicklaus Children's Hospital
Miami, FL*



**Nicklaus
Children's
Hospital**



Metrics for Every Pathway



- Dashboard (Core Metrics)
 - Pathway Utilization
 - Orderset Utilization
 - LOS
 - Revists/Readmissions
 - Direct Cost
- Report Based
 - Pathway Specific Metrics
- *Core metrics are utilized to determine the operational efficiency of a pathway, while the pathway specific metrics are used to measure the clinical patient outcome.





- One stop shop dashboard for CEP
 - Rather than utilizing multiple dashboards for metrics, it's all in one place
- Filtered by ICD-10 code
 - Each pathway has identified ICD-10 codes
 - For an efficient build and reduction of numerous updates when a pathway is created or changed, it was decided to filter by ICD-10 code
- Pathway specific metrics will be report based and not included on the dashboard. These are reviewed on a cyclical basis by the SME and CEP team.

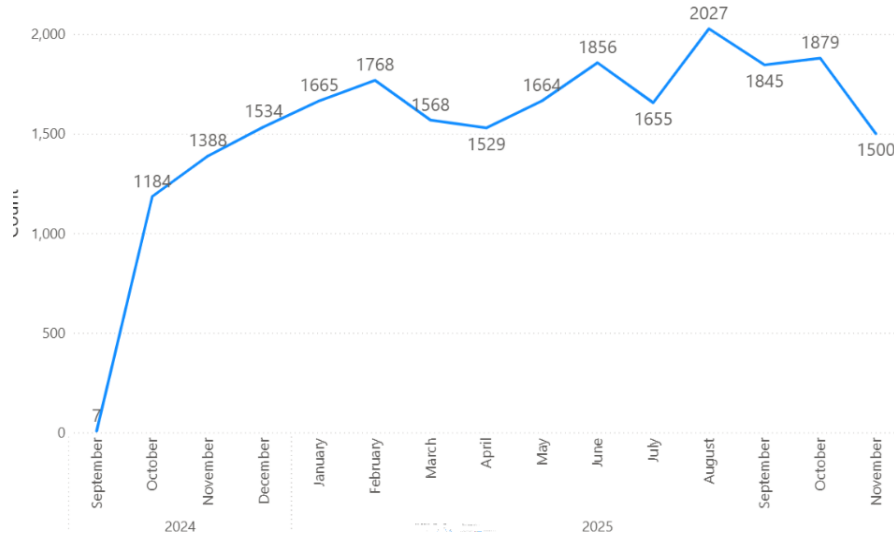




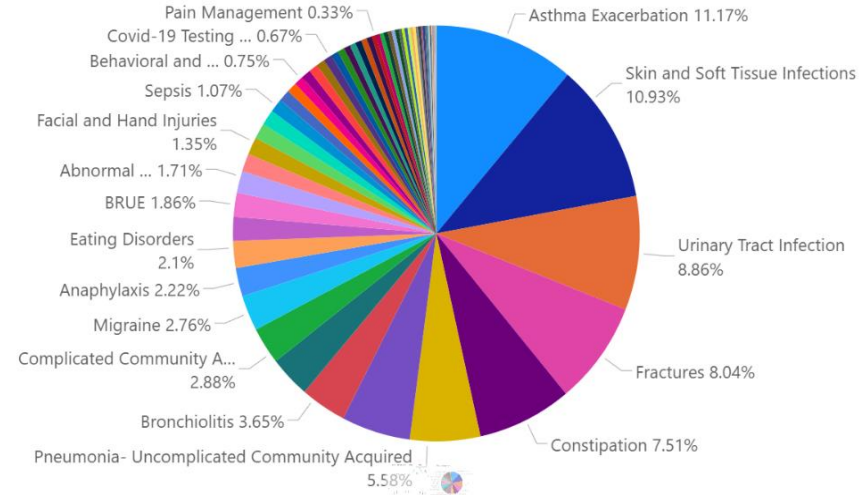
Clinical Pathway Utilization



Clinical Pathway Utilization by Year and Month



Clinical Pathway Utilization





Questions?