

Development of an EMR-Embedded Obstetric Anesthesia Dashboard

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Introduction



Gap in Real-Time Reporting

We lacked clinically meaningful, real-time OB anesthesia quality reporting tools

COE Readiness

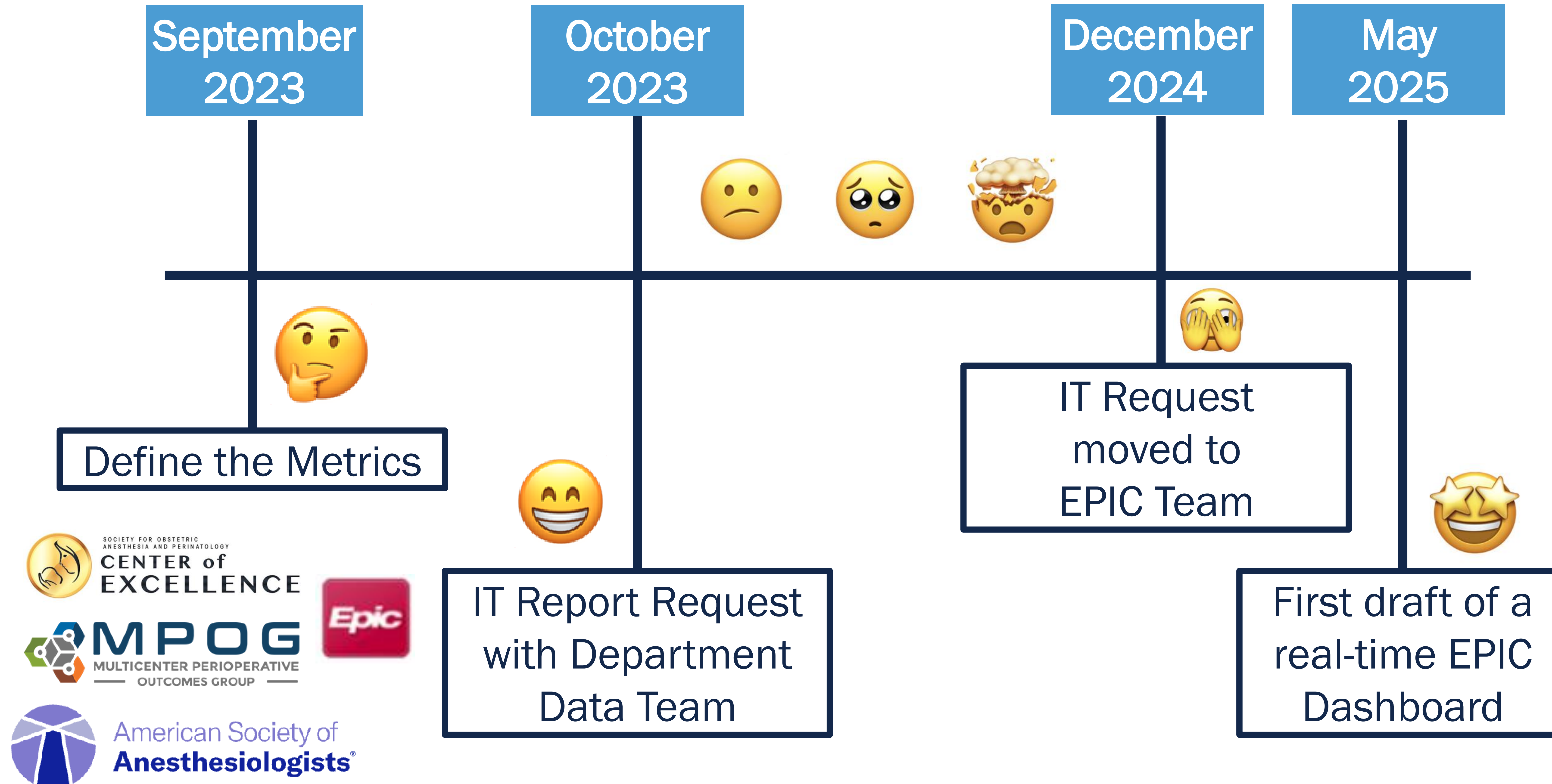
SOAP Center of Excellence program demands systematic, standardized measurement of clinical processes and outcomes

Manual Abstraction Burden

Quality metrics require time-intensive manual chart review or data abstraction

Disclaimer: I have no computer science or tech background, just enthusiasm and a willingness to keep clicking until things work.

Methods



✓ It works! (mostly)

- Defining populations
- Data sources
- Built on available data

🔄 We're working on it...

- Iterating and re-iterating
- Validating data
- Chasing down errors

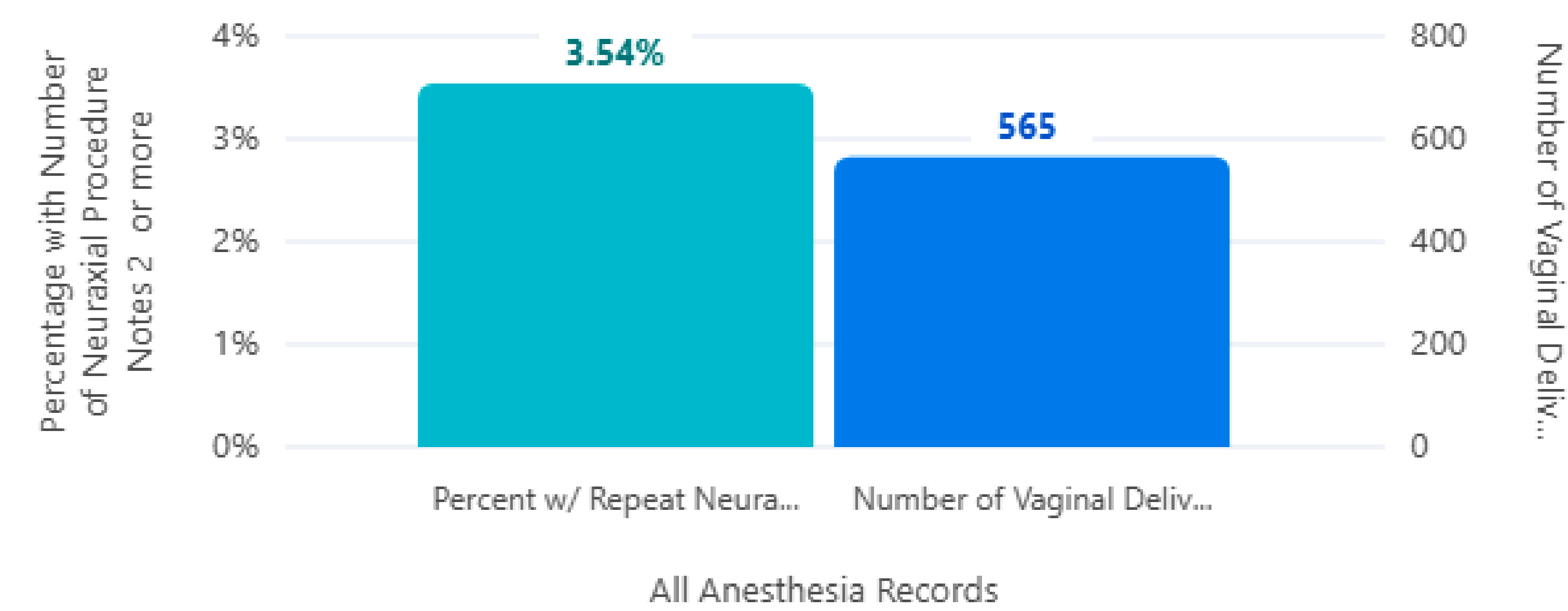
⚠ Well, that broke that!

Results

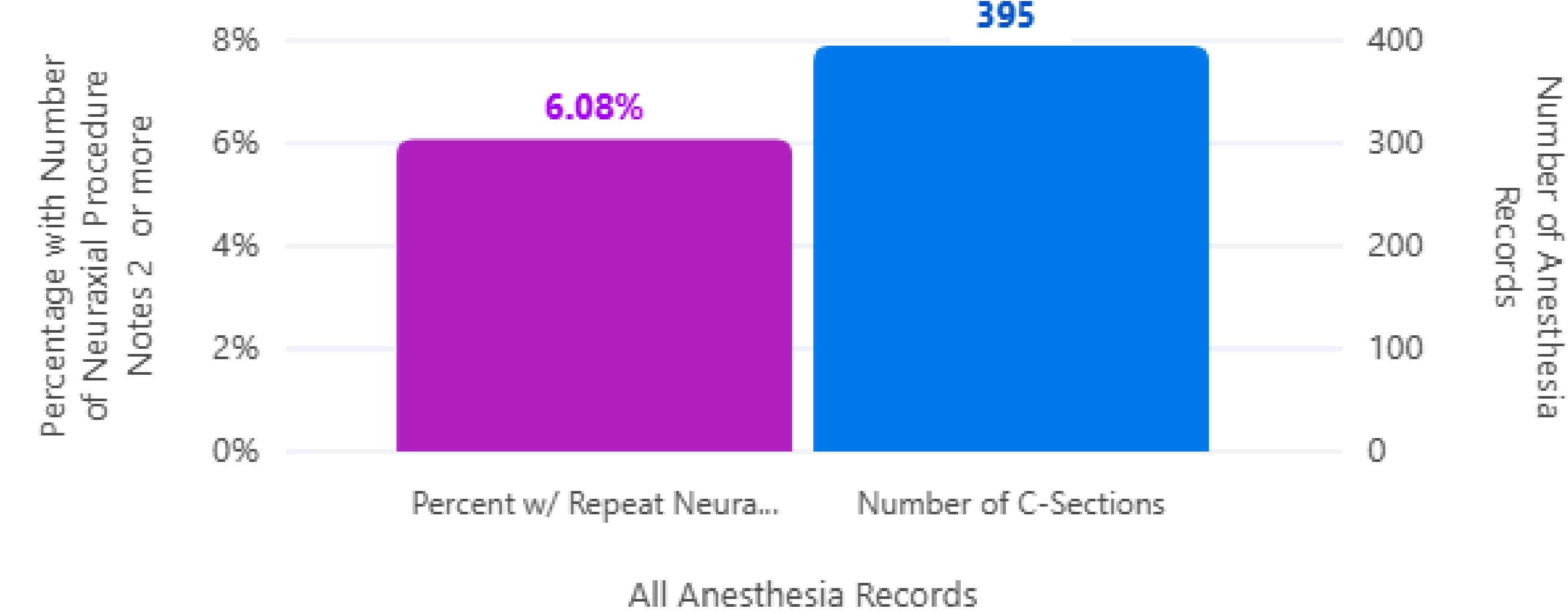
Birth Counts



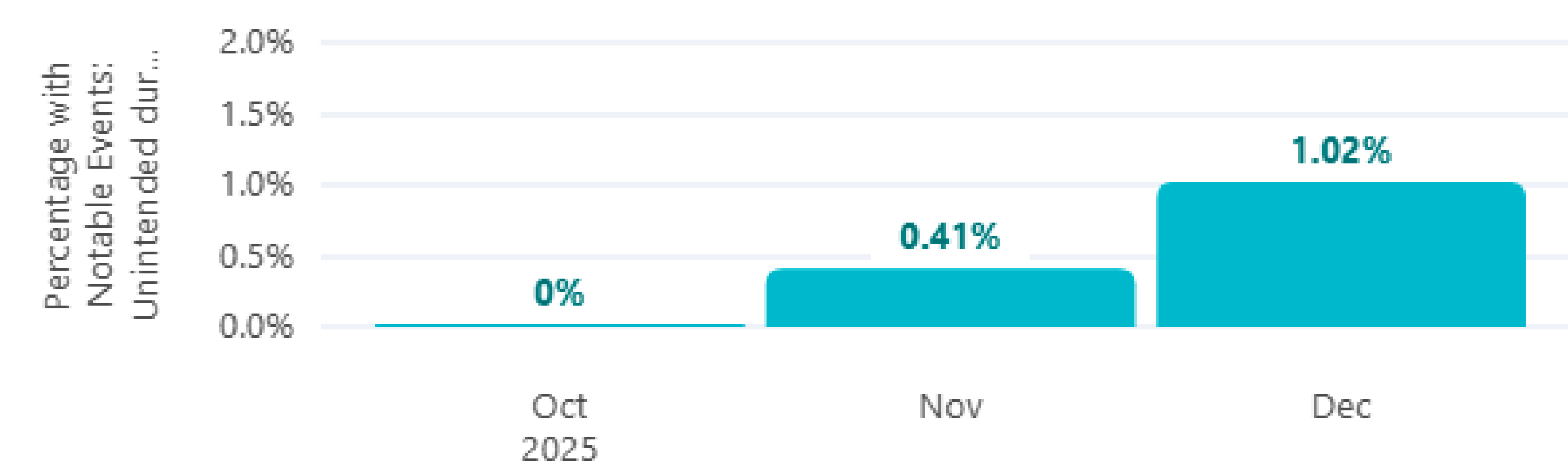
Repeat Neuraxial Anesthesia Procedure Vaginal



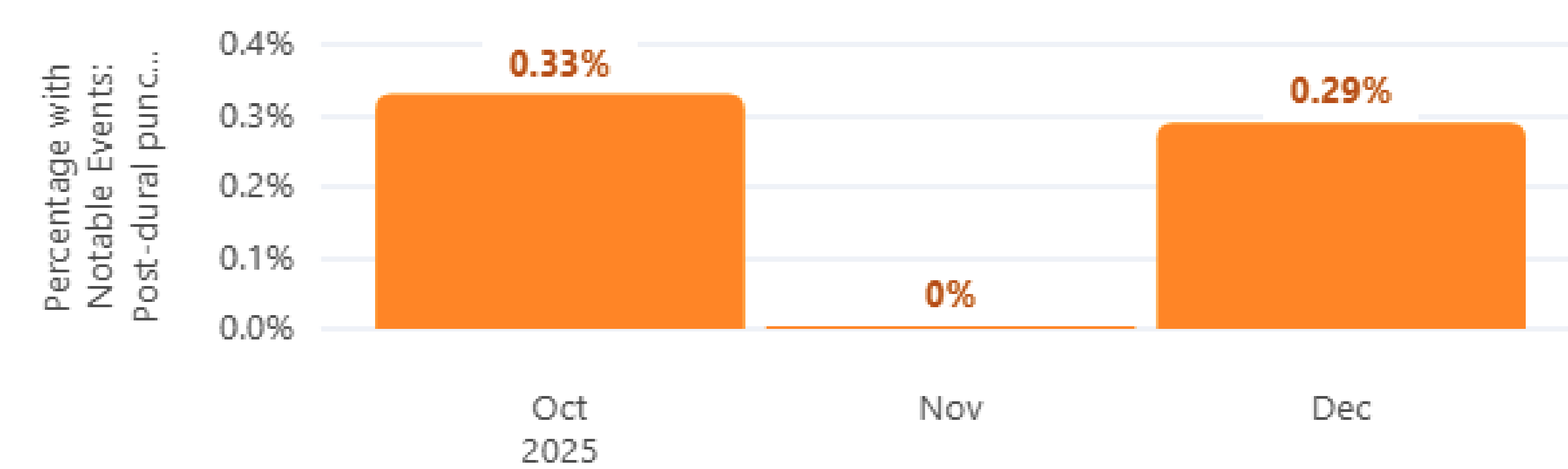
Repeat Neuraxial Anesthesia Procedure C-Section



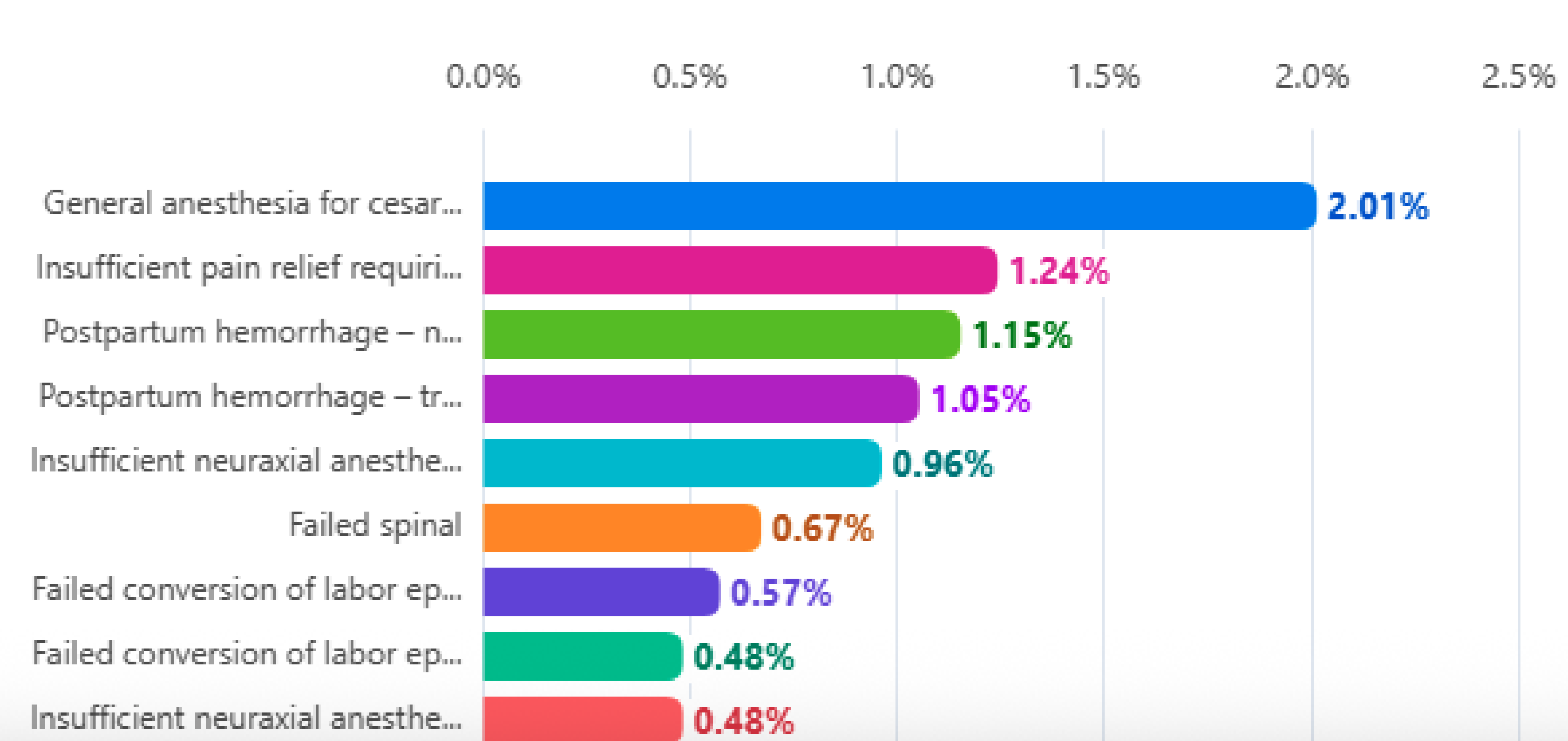
Notable Events Unintended Dural Puncture



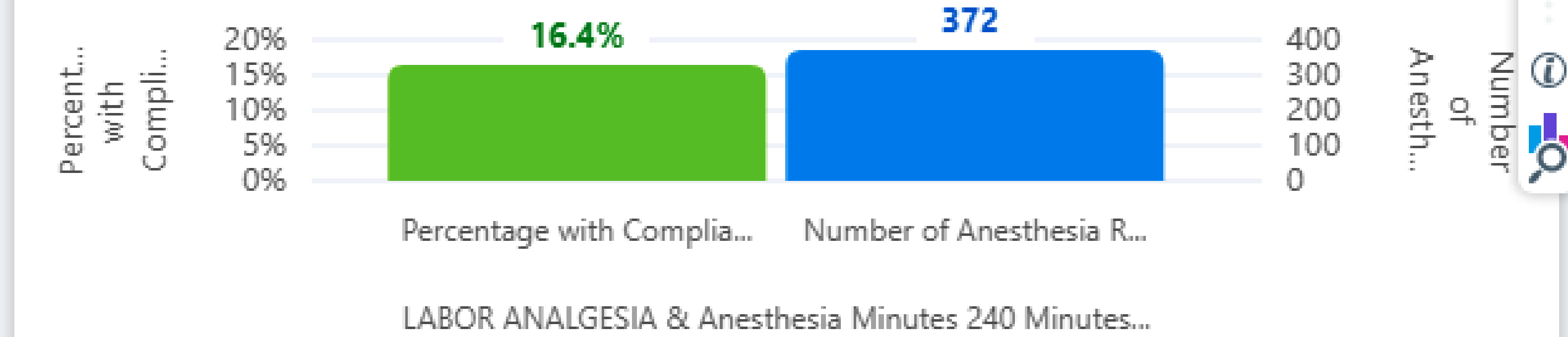
PDPH Rate



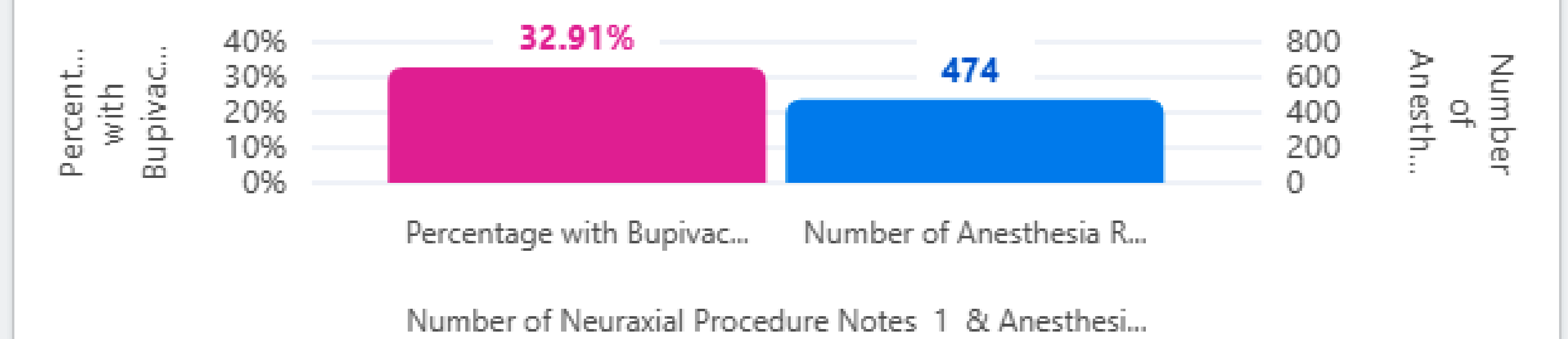
Notable Events List



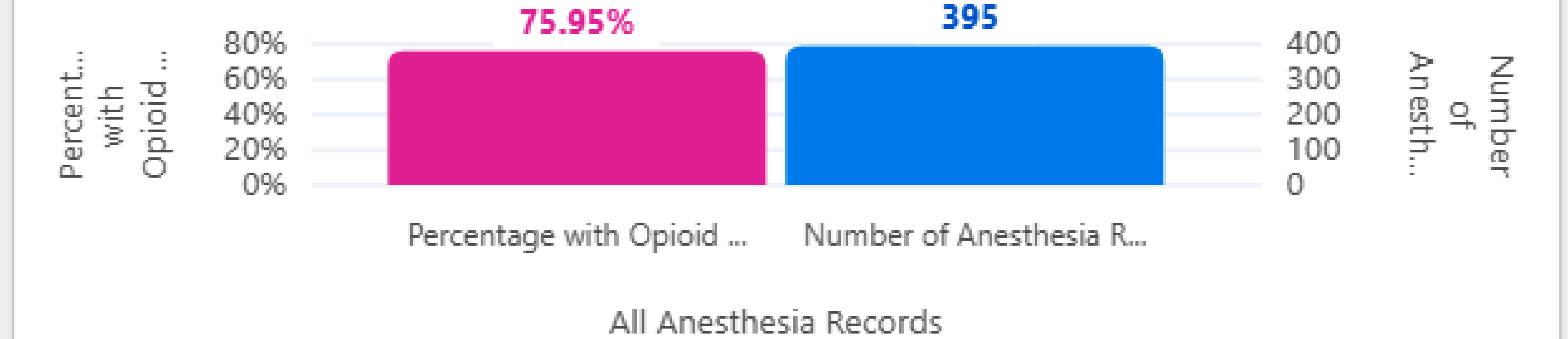
Epidural Assessment Compliance



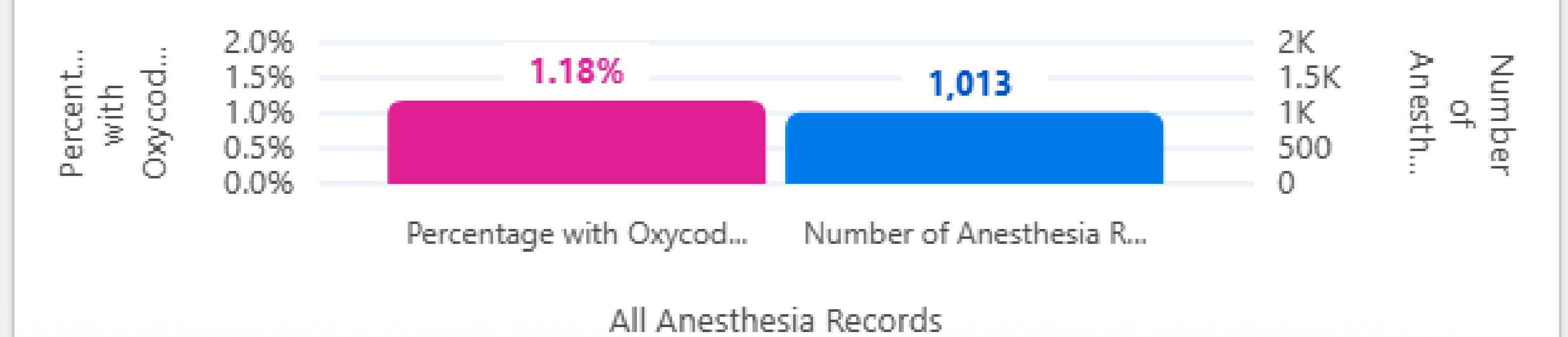
Clinician T-up Rate



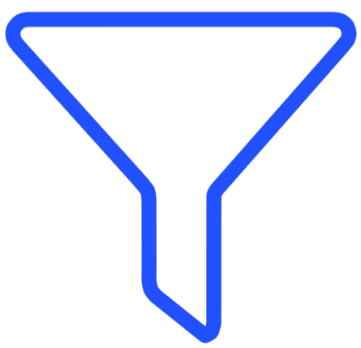
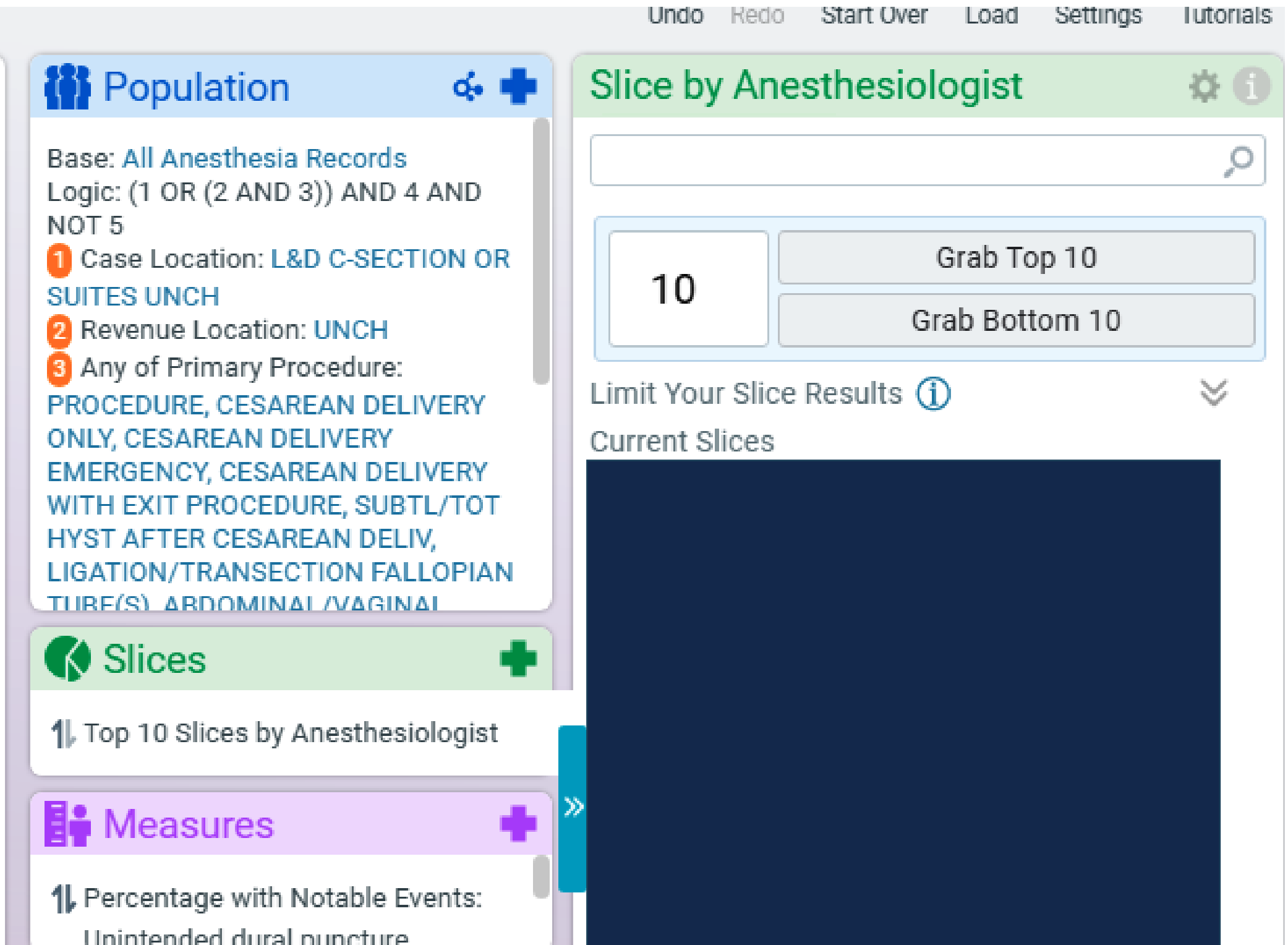
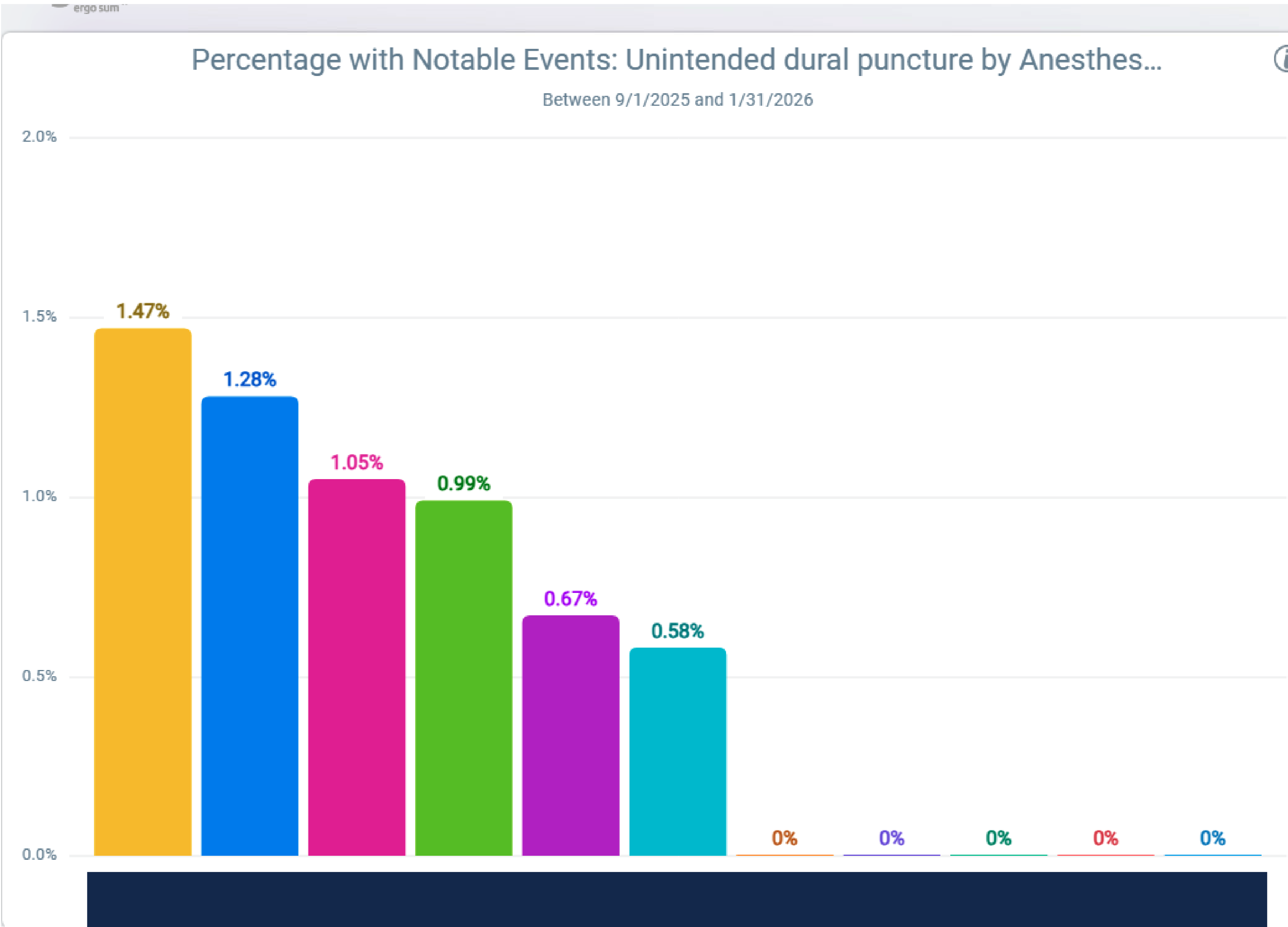
Opioid Administered After Anesthesia Stop (C-Section)



Oxycodone > 30mg postpartum



Results



Multi-Dimensional Views

Metrics viewable by month, provider group, and delivery mode



Notable Event Integration

Triggered case review workflows enabled targeted provider feedback

Percentage of Population by Notable Events

Between 1/1/2026 and 1/31/2026

Anesthesia Date	Patient Name	Responsible Anesthesia Clinician	Primary Procedure	ASA Score
Jan 1 – Jan 31, 2026				
General anesthesia for cesarean delivery				
01/04/2026			CESAREAN DELIVERY EMERGENCY	2
01/04/2026			CESAREAN DELIVERY EMERGENCY	2
01/05/2026			CESAREAN DELIVERY ONLY	3
01/20/2026			CESAREAN DELIVERY ONLY	3
01/28/2026			CESAREAN DELIVERY EMERGENCY	2
Postpartum hemorrhage – not transfused				
Postpartum hemorrhage – transfused				
Insufficient neuraxial anesthesia requiring general anesthesia				
Failed conversion of labor epidural requiring general anesthesia				
Failed conversion of labor epidural requiring repeat neuraxial				
Hemorrhage				

5 results loaded, more results available

Load All



Conclusions & Next Steps

✓ Feasible

EPIC-embedded dashboard delivers scalable, real-time access to nationally aligned OB anesthesia metrics

🔄 Sustainable

EMR-based automation eliminates manual abstraction and supports continuous monitoring

🎯 Future Work

“Creation alone does not ensure it’s aims are achieved”

