

Leveraging

ASPIRE/EPIC data &
Questionnaires

For

Practice Improvement
& Reporting



Joshua Berris *No conflicts to disclose*

Beaumont
Farmington Hills

Anesthesiology Dashboard

Beaumont Farmington Hills

MDA: BERRIS, JOSHUA R

Updated on 7/18/2017

CRNA: (All)

Quality

	Provider YTD	Provider 2016	Dept. YTD	Dept. 2016
POIV <small>excludes endoscopy</small>	5.2 %	7.7 %	6.0 %	7.8 %
PONV Rate	96.6 %	93.2 %	96.0 %	92.6 %
PONV Prophylaxis Rate				
Airway				
Re-Intubation Rate (PACU)	0.0 %	0.2 %	0.1 %	0.0 %
Post-Op Ventilation Rate (unexpected)	0.1 %	0.1 %	0.1 %	0.1 %
Pain <small>excludes endoscopy</small>				
PACU Admission Pain < 7	85.9 %	82.3 %	83.4 %	80.5 %
PACU Discharge Pain <= 4	88.1 %	83.8 %	87.0 %	84.8 %
Multimodal Analgesia	80.6 %	82.0 %	73.1 %	75.7 %
Morphine Equivalents / Kg / Min	2.1	2.1	2.8	2.8
Blood Sugar				
Blood Sugar < 200 on PACU Discharge	87.4 %	87.6 %	90.3 %	90.7 %
PDPHA				
Spinal etiology rate	1.3 %	2.1 %	0.7 %	1.6 %
Epidural etiology rate	0.0 %	0.0 %	0.0 %	0.0 %
Anesthesia Reversal				
Narcan / Flumazenil / Doxapram use	0.00 %	0.12 %	0.00 %	0.08 %
Adverse Outcomes				
Corneal Abrasion				
External Measures				
PQRS Temp >= 36 / ASPIRE Temp				
ASPIRE PUL01 (Tidal Volume)				
ASPIRE NBMO1 (check TOF)				
ASPIRE TEMP02 (Core Temp)				
ASPIRE TOC02 (Transfer of Care)				

Satisfaction (Press Gate)

- Anesthesia Explanation
- Anesthesia Friendliness

Efficiencies

OR start to Induction				
OR start to Ready Case (ETTLMA)				
OR start to Ready Case (Spinal)	12.9 Min	12.6 Min	11.6 Min	12.0 Min
Surgery Stop to Out OR (ETTLMA)	11.5 Min	11.3 Min	11.7 Min	11.8 Min
Surgery Stop to Out OR (Non General)	5.4 Min	5.6 Min	5.5 Min	5.1 Min
Out OR to End Anesthesia	5.8 Min	5.8 Min	5.5 Min	6.0 Min
Percent extubations <= 15 minutes	93.8 %	94.8 %	92.5 %	92.1 %
Cancellation rate in PreOp	0.0 %	0.1 %	0.0 %	0.2 %
Anesthesia PreOp Delay (% of dept, % anes)	N/A %	N/A %	5.1 %	0.3 %
First case PreOp complete efficiency (OR)	100.0 %	98.6 %	97.4 %	96 %
First case PreOp complete efficiency (ENDO)	100.0 %	100.0 %	97.7 %	96.9 %
PACU Time (clinical)	82 Min	83 Min	77 Min	73 Min
Cost per minute (meds & gases - ETT/LMA)	34.4 \$	34.3 \$	36.7 \$	36.9 \$

✓ Berris, Joshua

Operating Room Audits, This week

9-31a

Attached is one excel file with all metrics and audit data for this week (Sunday - Saturda...

Berris, Joshua

Operating Room Audits, Yesterday

8-31a

Attached is one excel file with all metrics and audit data. I have included in the email lea...

Personalized Dashboards

Department Reminders emails

When We Last Talked...

input

NOT PART OF MEDICAL RECORD • PEER REVIEW DOCUMENT • CS# 123 CaseID# 2

Quality Improvement & Clinical Outcomes Department of Anesthesia – Beaumont Farmington Hills

- Check the box of any events that occurred.
- All unchecked boxes will be recorded as "no."
- This form may be completed multiple times, by multiple people.
- Any future "no" will not overwrite an existing "yes."
- Please submit comments in the text box.
- The form is anonymous.

MISCELLANEOUS

- Event not listed. See comments.
- Flag case for M&M / Quality Review
- STAT Anesthesiologist requested

AIRWAY / RESPIRATORY

- > 1 intubation attempt (excluding trainee)
- Change anesthesia plan (ex. failed LMA)
- Unanticipated difficult airway, catastrophic
- Bronchospasm / Laryngospasm, requiring treatment

MISCELLANEOUS

- Difficult IV start or problem with IV
- Burn or fire
- Ocular injury / corneal abrasion
- Transfusion, unexpected or >10 units
- Positioning problem / Fall from table
- Intraoperative awareness during GA
- Urinary retention
- Anesthesia machine / monitor problem

REGIONAL

- High Spinal
- Dura puncture, unplanned
- Local anesthetic toxicity
- Failed surgical block

ASPIRE Temp-02	ASPIRE TEMP-03	TRANSFUSION	TRANSFER OF CARE
<p>ANESTHETIC</p> <p>Temp Location</p> <p>New Labels</p> <p>07/17/2017</p> <p>WELLS, ERIC R</p> <p>WELLS, ERIC R</p> <p>7/17/2017 08:05</p>	<p>ANESTHETIC</p> <p>POIV, TEMP</p> <p>New Labels</p> <p>07/17/2017</p> <p>BERRIS, JOSHUA R</p> <p>BERRIS, JOSHUA R</p> <p>7/17/2017 08:05</p>	<p>TRANSFUSION</p> <p>Transfusion</p> <p>New Labels</p> <p>07/17/2017</p> <p>BERRIS, JOSHUA R</p> <p>BERRIS, JOSHUA R</p> <p>7/17/2017 08:05</p> <p>BERRIS, JOSHUA R</p>	<p>COMPLIANCE/QUALITY</p> <p>POSTANESTHETIC</p> <p>New Labels</p> <p>07/18/2017</p> <p>BERRIS, JOSHUA R</p> <p>BERRIS, JOSHUA R</p> <p>7/18/2017 08:05</p> <p>BERRIS, JOSHUA R</p>

Anesthesiology Dashboard

Beaumont Farmington Hills

MDA: BERRIS, JOSHUA R

Updated on 7/16/2017

CRNA: (All)

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Anesthesia Reversal				
Narcan / Flumazenil / Doxapram use	0.00 %	0.12 %	0.00 %	0.08 %
Adverse Outcomes				
Corneal Abrasion	No Cases %	No Cases %	0.02 %	0.02 %
External Measures				
PQRS Temp >= 36 / ASPIRE Temp03	99.8 %	99.2 %	99.6 %	99.4 %
ASPIRE PUL01 (Tidal Volume)	97.8 %	96.2 %	97.4 %	93.5 %
ASPIRE NBM01 (check TOF)	93.3 %	94.7 %	95.6 %	93.3 %
ASPIRE TEMP02 (Core Temp)	97.8 %	28.0 %	97.0 %	26.5 %
ASPIRE TOC02 (Transfer of Care)	88.3 %	No Cases	86.5 %	No Cases

Satisfaction (Press Ganey)

	Provider YTD	Provider 2016	Dept. YTD	Dept. 2016
Anesthesia Explanation	98.1	95.1	95.9	93.3
Anesthesia Friendliness	100.0	93.1	96.2	93.7

Efficiencies

	Provider YTD	Provider 2016	Dept. YTD	Dept. 2016
OR start to Induction	6.4 Mir	6.7 Min	6.4 Min	6.8 Min
OR start to Ready Case (ETT/LMA)	10 Mir	11 Min	10 Min	12 Min
OR start to Ready Case (Spinal)	12.9 Mir	12.6 Min	11.6 Min	12.0 Min
Surgery Stop to Out OR (ETT/LMA)	11.5 Mir	11.3 Min	11.7 Min	11.8 Min
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QA Case input

"Near" real-time case review

ASPIRE Temp-02	ASPIRE TEMP-03	TRANSFUSION	TRANSFER OF CARE
<p>ANETYPE</p> <p>Temp_Location</p> <p>Fail</p> <p>New Labels</p> <p>7/17/2017</p> <p>FELDMAX, CURT R</p> <p>131904309</p> <p>7/17/2017 0:35</p>	<p>ANETYPE</p> <p>PORL_TEMP</p> <p>Fail</p> <p>New Labels</p> <p>7/17/2017</p> <p>BRYENA, MARGIE B</p> <p>131917826</p> <p>7/17/2017 0:35</p>	<p>ANETYPE</p> <p>Transfusion</p> <p>Yes</p> <p>New Labels</p> <p>7/17/2017</p> <p>BRYENA, MARGIE B</p> <p>131917826</p> <p>BOMBROYVAL, NANCY V</p> <p>1319485171</p> <p>(Blood)</p> <p>7/17/2017 0:35</p> <p>PELL, MARIE</p>	<p>Compliance50623</p> <p>POSAHEBME</p> <p>Yes</p> <p>New Labels</p> <p>7/18/2017</p> <p>BOMBROYVAL, NANCY V</p> <p>1319485171</p> <p>(Blood)</p> <p>7/18/2017 0:35</p> <p>PELL, MARIE</p>

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CSN# 123
CaseID# 2

Quality Improvement & Clinical Outcomes

Department of Anesthesia - Beaumont Farmington Hills

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MISCELLANEOUS

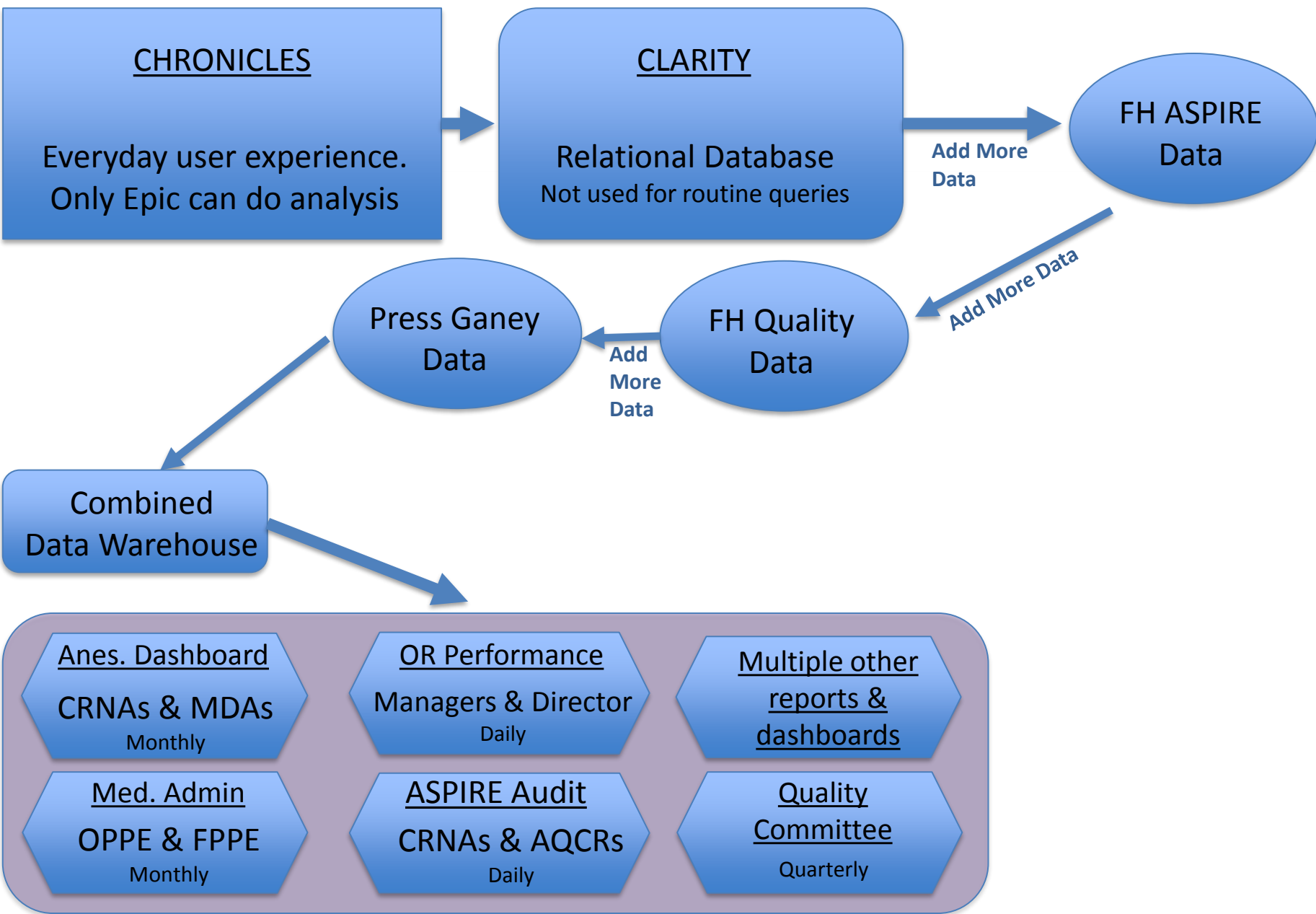
- Difficult IV start or problem with IV
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CHRONICLES

Everyday user experience.
Only Epic can do analysis

CLARITY

Relational Database
Not used for routine queries

FH ASPIRE
Data

Add More
Data

Press Ganey
Data

FH Quality
Data

Add More
Data

Add
More

Now there is more...

Combine
Data Warehouse

Anes. Dashboard

CRNAs & MDAs
Monthly

OR Performance

Managers & Director
Daily

Multiple other

reports &
dashboards

Med. Admin

OPPE & FPPE
Monthly

ASPIRE Audit

CRNAs & AQCRs
Daily

Quality

Committee
Quarterly

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Now there is more...

We included Surgeons

Combine
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CRNAs & MDAs
Monthly

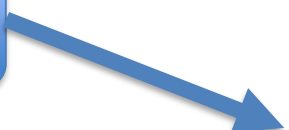
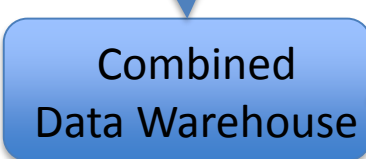
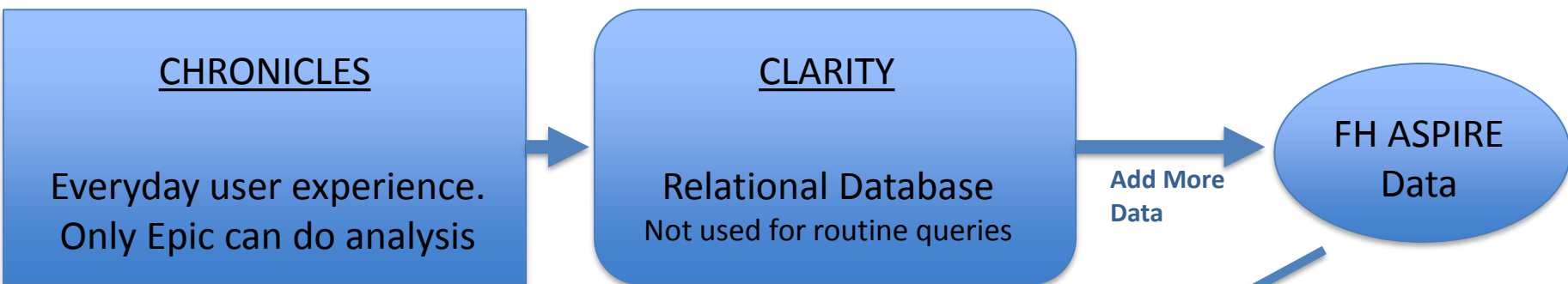
Managers & Director
Daily

reports &
dashboards

Med. Admin
OPPE & FPPE
Monthly

ASPIRE Audit
CRNAs & AQCRs
Daily

Quality
Committee
Quarterly



What was the need

- Time, money, personnel dedicated to ERAS
 - How do we show impact to
 - Administration
 - Surgeons
 - Anesthesiologists
 - CRNAs
- IT support is a limited resource

What was the problem

- Need to get non-EMR data into electronic reportable form
- Need to extract EMR data into electronic reportable form
- Need a method to report

Problem already solved

- ✓ Need to get non-EMR data into electronic reportable form – Scan Tron
- ✓ Need to extract EMR data into electronic reportable form – Reporting extract Clarity
- ✓ Need a method to report – Excel + VBA

Solutions

- Non-EMR data
 - Patient diary data
 - Human extracted data
 - **Bubble Sheets**
 - Remark Office OMR
- Existing structure for other info.

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ERAS -
Enhanced Recovery After Surgery

Answer Selection: Correct = Incorrect =

1. Pre-op Education
 Yes No
2. Pre-op Antibacterial Soap Shower
 Yes No
3. SAGE Wash (if no shower)
 N/A No
 Yes
4. Smoking Cessation Provided
 Non-smoker No
 Yes
5. Mechanical Bowl Prep w/ Antibiotics
 Yes No
6. Carbohydrate / Clear Liquid Loading
 Yes No
7. Pre-Op Entereg
 Yes No
9. Short Term Anxiolysis only PeriOp
 Yes No
10. VTE prophylaxis (OR and Floor)
 Yes No
11. PeriOp Analgesia Block
 Yes No
12. Adjuvant Pain Medications
 Yes No
13. Analgesia, No Long Acting IV Opioids
 Yes No
14. Peri-Op IVF 5-15 mL/kg (<2L) _____ mL
 Yes No
15. NG Tube Removed Prior To PACU
 Yes No
16. Mobilization In PACU
 Yes No
17. Foley Catheter Removed
 POD # 0 POD # 1
 POD # 2 POD ≥ 3
18. ERAS Orders Complete for PACU Discharge by surgical resident
 Yes No
19. Incentive Spirometer
 Yes No
20. Clear liquids
 POD # 0 POD # 1
 POD # 2 POD ≥ 3
21. Patient ambulation on floor
 Yes No

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Resolution

ERAS Dashboard

Provider = (All)

	Provider 2018	Provider 2017	Dept 2017		Provider 2018	Provider 2017	Dept 2017
Pre-Hospital				Post-Op			
Education.....	100 %	91 %	91 %	PONV Rate.....	16 %	15 %	15 %
Shower.....	100 %	100 %	100 %	Oral Liquids Starting			
Bowel Prep.....	100 %	100 %	100 %	Day 0.....	52 %	48 %	48 %
Oral Hydration / Carb Loading.....	59 %	52 %	52 %	Day 1.....	43 %	39 %	39 %
Smoking (% non-smoker).....	89 %	78 %	78 %	Day 2.....	5 %	10 %	10 %
Sage Wipe.....	0 %	0 %	0 %	Day 3.....	0 %	4 %	4 %
Discharge				IV Fluids			
Readmission 30d.....	6.9 %	6.3 %	6.3 %	POD 0.....	2251 L	2030 L	2030 L
ER Visit without admission 30d.....	6.9 %	12.5 %	12.5 %	POD 1.....	2749 L	3125 L	3125 L
Mortality 30d.....	0.0 %	0.0 %	0.0 %	DVT Prophylaxis.....	100 %	100 %	100 %
Mortality 24h.....	0.0 %	0.0 %	0.0 %	NG, removed Intra-Op.....	94 %	96 %	96 %
Length of Stay (Pre-ERAS LOS)				PostOp Glucose check.....	58 %	62 %	62 %
Robotic Colectomy [X].....	4.1 Days	1.4 Days	1.4 Days	Foley removal on:			
Robotic Perineal Resection [X].....	None Days	3.8 Days	3.8 Days	Day 0.....	12 %	21 %	21 %
Perineal Resection (open) [5.95].....	6.0 Days	4.1 Days	4.1 Days	Day 1.....	53 %	39 %	39 %
Small Bowel Resection (open)[10.82].....	None Days	4.9 Days	4.9 Days	Day 2.....	24 %	14 %	7 %
Laparoscopic bowel resection [4.00].....	None Days	3.0 Days	3.0 Days	Day 3.....	10 %	26 %	26 %
Proctosigmoidectomy [6.40].....	4.4 Days	4.4 Days	4.4 Days	PACU d/c Pain ≤ 4.....	73 %	61 %	61 %
Colostomy / Iliosotomy [8.34].....	None Days	3.6 Days	3.6 Days	48h Return to OR.....	8 %	15 %	15 %
Colostomy / Iliosotomy revision [4.58].....	5.0 Days	3.7 Days	3.7 Days	Mobilization (PACU).....	1 %	9 %	9 %
Colectomy, right (open) [8.20].....	3.8 Days	4.0 Days	4.0 Days	Mobilization (Floor).....	99 %	96 %	96 %
Colectomy, right (laparoscopic) [4.28].....	3.5 Days	3.6 Days	3.6 Days	Incentive Spirometer.....	100 %	100 %	0 %
LAR (open) [7.61].....	4.6 Days	7.2 Days	7.2 Days	Multimodal Pain Meds (floor).....	93 %	83 %	100 %
LAR (laparoscopic) [4.54].....	2.8 Days	3.8 Days	3.8 Days	Pre-Op			
Colectomy, left (open) [4.17].....	None Days	4.0 Days	4.0 Days	PreOp Anxiolysis.....	100 %	100 %	100 %
Colectomy, left (laparoscopic) [5.84].....	None Days	4.0 Days	4.0 Days	VTE Prophylaxis.....	100 %	100 %	100 %
OVERALL [8.84].....	4.15 Days	4.6 Days	4.6 Days	Block By Anesthesia.....	100 %	100 %	100 %
Pneumonia.....	0 %	1 %	0 %	Multimodal Pain Meds.....	100 %	96 %	96 %
Intra-Op				ERAS Order Set (inc. Entereg).....			
PONV Prophylaxis Rate.....	98 %	100 %	100 %	PreOp Glucose check.....	98 %	92 %	92 %
MSO ₂ (mcg/kg/min).....	1.55	1.77	1.77	Overall			
Temperature ≥ 37°.....	100 %	100 %	100 %	ERAS Cases.....	58	80	80
ABX Prophylaxis.....	98 %	85 %	85 %				

Resolution

- Individualized dashboard sent to each surgeon monthly
- Surgeon and department performance for this year and last year

The image shows a screenshot of an ERAS (Enhanced Recovery After Surgery) Dashboard. The dashboard is organized into several sections: Pre-Hospital, Discharge, and Post-Op. Each section contains a list of metrics with columns for 2018, 2017, and Dept 2017. The metrics include various clinical and operational indicators such as mortality, length of stay, and patient care measures.

Metric	Provider = (All)		
	Provider 2018	Provider 2017	Dept 2017
Pre-Hospital			
Education	100 %	94 %	91 %
Shower	100 %	100 %	100 %
Bowel Prep	100 %	100 %	100 %
Oral Hydration / Carb Loading	59 %	52 %	52 %
Smoking (Is non-smoker)	83 %	78 %	78 %
Sage Wipe	0 %	0 %	0 %
Discharge			
Readmission 30d	6 %	6.3 %	6.3 %
ER Visit without admission 30d	6.9 %	12.5 %	12.5 %
Mortality 30d	0.0 %	0.0 %	0.0 %
Mortality 24h	0.0 %	0.0 %	0.0 %
Length of Stay (Pre-ERAS)	4.1	1.4	1.4
Robotic Colectomy [X]	None	3.8	12.5 %
Perineal Resection [X]	6.0	4.1	3.8
Perineal Resection (open) [5.95]	None	4.9	4.1
Small Bowel Resection (open) [10.82]	None	3.0	4.9
Laparoscopic bowel resection [4.00]	4.4	4.4	4.9
Proctosigmoidectomy [6.40]	None	4.4	4.9
Colectomy / Ileostomy [8.34]	None	3.0	4.9
Colectomy, right (open) [4.58]	None	4.4	4.9
Colectomy, right (laparoscopic) [5.00]	5.0	3.6	4.4
Colectomy, left (open) [7.01]	3.8	3.7	4.4
LAR (open) [7.01]	3.5	4.0	4.4
LAR (laparoscopic) [5.54]	4.5	3.6	3.7
Colectomy, left (laparoscopic) [5.54]	2.8	2.8	3.6
Colectomy, left (open) [7.01]	4.15	4.0	4.0
Colectomy, right (open) [7.01]	4.6	4.0	4.0
Colectomy, right (laparoscopic) [5.54]	0 %	1 %	4.6
Post-Op			
POWV Rate	16 %	15 %	15 %
Oral Liquids Starting			
Day 0	52 %	48 %	48 %
Day 1	43 %	39 %	39 %
Day 2	5 %	10 %	10 %
Day 3	0 %	4 %	4 %
IV Fluids			
POD 0	2251 L	2030 L	2030 L
POD 1	2749 L	3125 L	3125 L
DVT Prophylaxis	100 %	100 %	100 %
NG, removed Intra-Op	94 %	96 %	96 %
PostOp Glucose check	58 %	62 %	62 %
Foley removal on:			
Day 0	12 %	21 %	21 %
Day 1	53 %	39 %	39 %
Day 2	24 %	14 %	7 %
Day 3	10 %	14 %	26 %
PACU d/c Pain ≤ 4	73 %	61 %	61 %
4th Return to OR	8 %	15 %	15 %
Mobilization (PACU)	1 %	9 %	9 %
Mobilization (Floor)	99 %	96 %	96 %
Incentive Spirometer	100 %	100 %	100 %
Multimodal Pain Meds (floor)	93 %	83 %	83 %
Pre-Op			
PreOp Anivlosis	100 %	100 %	100 %
VTE Prophylaxis	100 %	100 %	100 %
Block By Anesthesia	100 %	100 %	100 %
Multimodal Pain Meds	100 %	96 %	96 %
ERAS Order Set (inc. Enteral)	100 %	98 %	98 %
PreOp Glucose check	98 %	92 %	92 %
Overall			
ERAS Cases	58	80	80

Conclusion

- We collect a large amount of data on our ERAS population
- We now organize that data and push it to surgeons, administrators and anesthesia providers

Conclusion

- Does ERAS make a difference?
 - LOS prior to ERAS Colorectal
 - 8.8 days
 - LOS after ERAS Colorectal
 - 4.2 days
- **BUT...**

Conclusion

- Correlation between LOS

PreOp Education	0.01
Antibacterial Shower	-0.04
Liquid Carb Loading	0.13
Smoking Status	-0.21
30 day Readmission	-0.12
PONV Prophylaxis	0.05
PONV	0.04
Morphine mcg/kg/min	0.19
ABX Prophylaxis Given	0.11
Liquid Starting Day 0	0.20
Liquid Starting Day 1	0.01
Liquid Starting Day 2	0.10
Liquid Starting Day >3	-0.42
Fluid total POD 0	0.16
Fluid total POD 1	0.15
Fluid total POD 2	0.26
NG Removed IntraOp	0.22
Foley Removed POD0	0.15
Foley Removed POD1	0.23
Foley Removed POD2	-0.06
Foley Removed POD>3	-0.38
Pain <4, PACU Discharge	0.08

Conclusion

- Correlation between LOS
- **But that's not exactly what this talk is about.**

PreOp Education	0.01
Antibacterial Shower	-0.04
Liquid Carb Loading	0.13
Smoking Status	-0.21
30 day Readmission	-0.12
PONV Prophylaxis	0.05
PONV	0.04
Morphine mcg/kg/min	0.19
ABX Prophylaxis Given	0.11
Liquid Starting Day 0	0.20
Liquid Starting Day 1	0.01
Liquid Starting Day 2	0.10
Liquid Starting Day >3	-0.42
Fluid total POD 0	0.16
Fluid total POD 1	0.15
Fluid total POD 2	0.26
NG Removed IntraOp	0.22
Foley Removed POD0	0.15
Foley Removed POD1	0.23
Foley Removed POD2	-0.06
Foley Removed POD>3	-0.38
Pain <4, PACU Discharge	0.08