

Cultivating Roots of Quality Improvement

Session 3: What Tells the Story? How to Identify and Use Data
March 26, 2024

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Introductions: Your Guides

Barb DeBaun, MSN, RN, CIC
Improvement Advisor

With more than four decades of experience in infection prevention and quality improvement, Barb provides expert vision and leadership for health organizations that require assistance in developing and implementing initiatives.



Casey Driscoll, CPHQ
Director of Quality Programs
Montana Hospital Association

After over a decade at the Montana Hospital Association, Casey has found her passion for working with rural hospitals to improve the quality of care for Montana residents.



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Introductions: Our Hospitals

10 hospitals represented by 32 CAH staff!

Billings Clinic Broadwater
 Bozeman Health
 Cabinet Peaks Medical Center
 Central Montana Medical Center
 Clark Fork Valley Hospital
 Community Hospital of Anaconda
 Livingston HealthCare
 McCone County Health Center
 Sidney Health Center
 St. Luke Community Healthcare



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Program Expectations

Purpose

Provide an avenue for Flex and HQIC member hospitals to work through a quality improvement project from the ground up using evidence-based tools and processes applied to topics of interest and priority.

Objectives

- Understand the Model for Improvement
- Identify tools to determine the root cause of a problem
- Identify types of data and apply to appropriate goals
- Implement tools for addressing adverse events
- Identify ways to engage patients and family in improvement efforts



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Program Expectations

Virtual Education

Eight education sessions with the final session reserved for project report outs and sharing.

Coaching Calls

Each team has four (up to 1 hour) of coaching calls at their disposal over the course of the project. One call must be used between the first and second sessions to address scope of the project.

Practical Applications

Sessions may have practical applications to complete in between. These will be kept small and manageable and should be done as a team.



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Expectations

Project Expectations

- Attend live sessions or view the recording.
- Complete assigned Practical Applications that will help support your learning.
- Engage in and contribute to group discussions.

Education Session Expectations

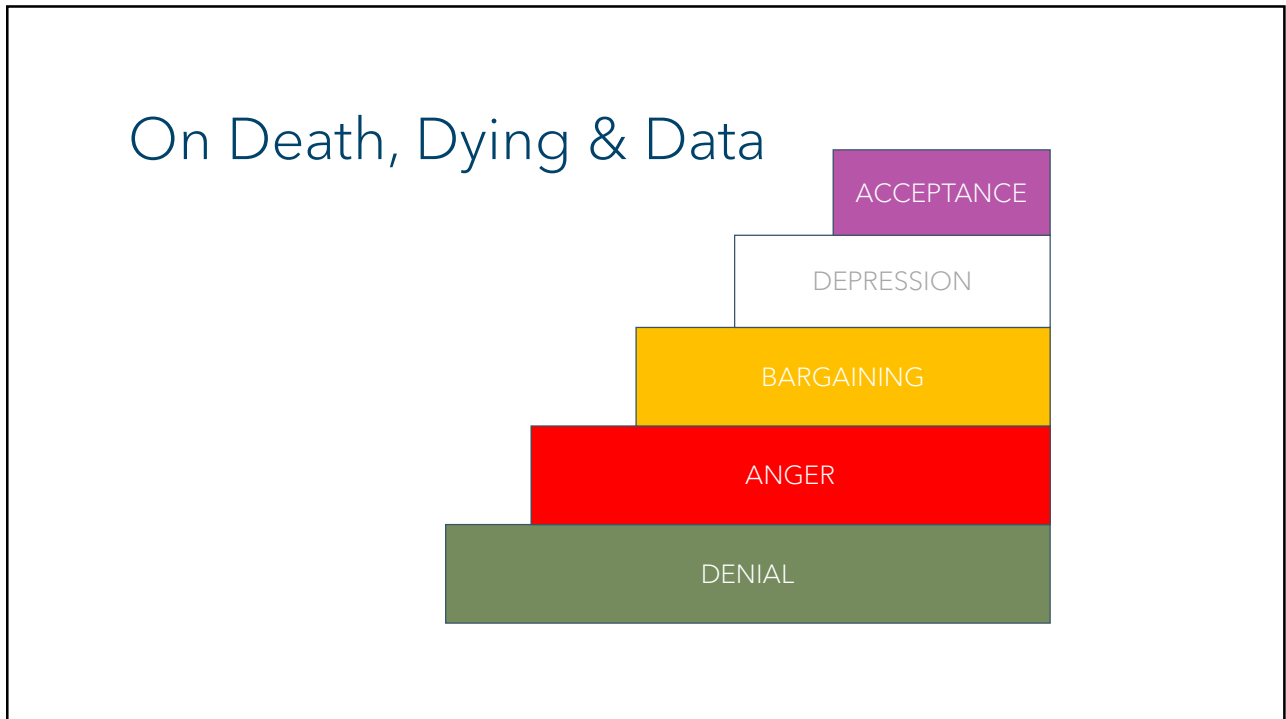
- Please turn your camera on if you are able.
- Speaking up is preferred over the chat for clarity and efficiency.
- Use the Raise Hand feature to speak up. We will watch and then 'call on' you.



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Definition of Data

da·ta

[ˈdɑdə, ˈdādə] 

NOUN

facts and statistics collected together for reference or analysis: See also [datum](#).

"there is very little data available"

synonyms: [facts](#) · [figures](#) · [statistics](#) · [details](#) · [particulars](#) · [specifics](#) · [features](#) · [\[more\]](#)

- the quantities, characters, or symbols on which operations are performed by a computer, being stored and transmitted in the form of electrical signals and recorded on magnetic, optical, or mechanical recording media.
- *philosophy*
things known or assumed as facts, making the basis of reasoning or calculation.

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Why do we collect data?

Improvement

- Used for learning

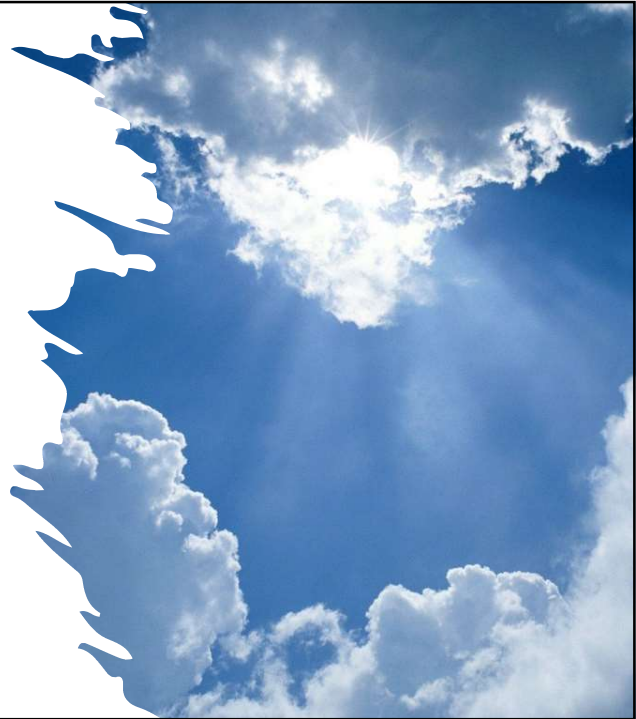
Reporting

- Used to judge

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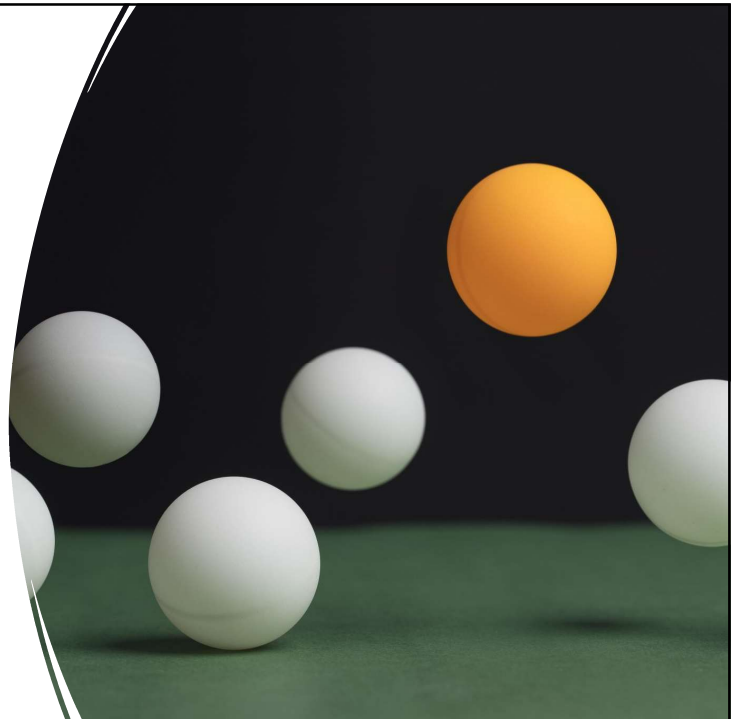
*"In God we trust;
all others must
bring data."*

W. Edwards
Deming



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Are you
collecting any
data that is
not being
analyzed or
acted upon?



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Collection of Data



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Data Collection

- Who collects the data?
- How do they do it?
- Does everyone do it the same way?



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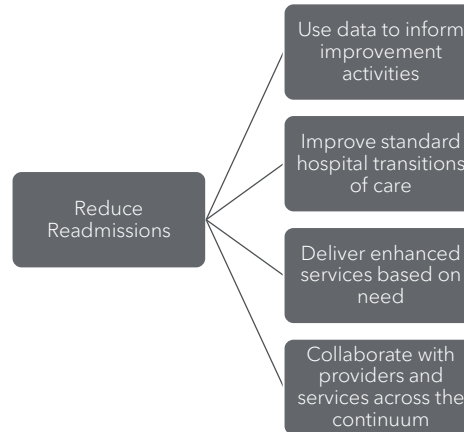


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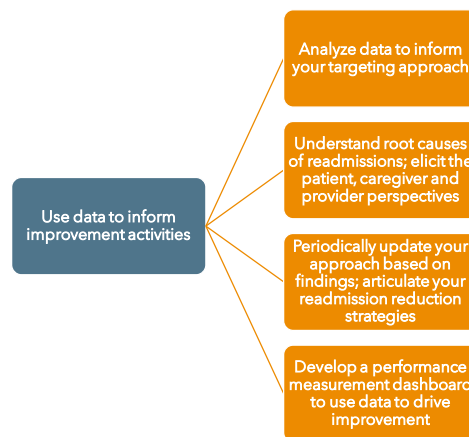
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Drivers for Improvement in Readmissions

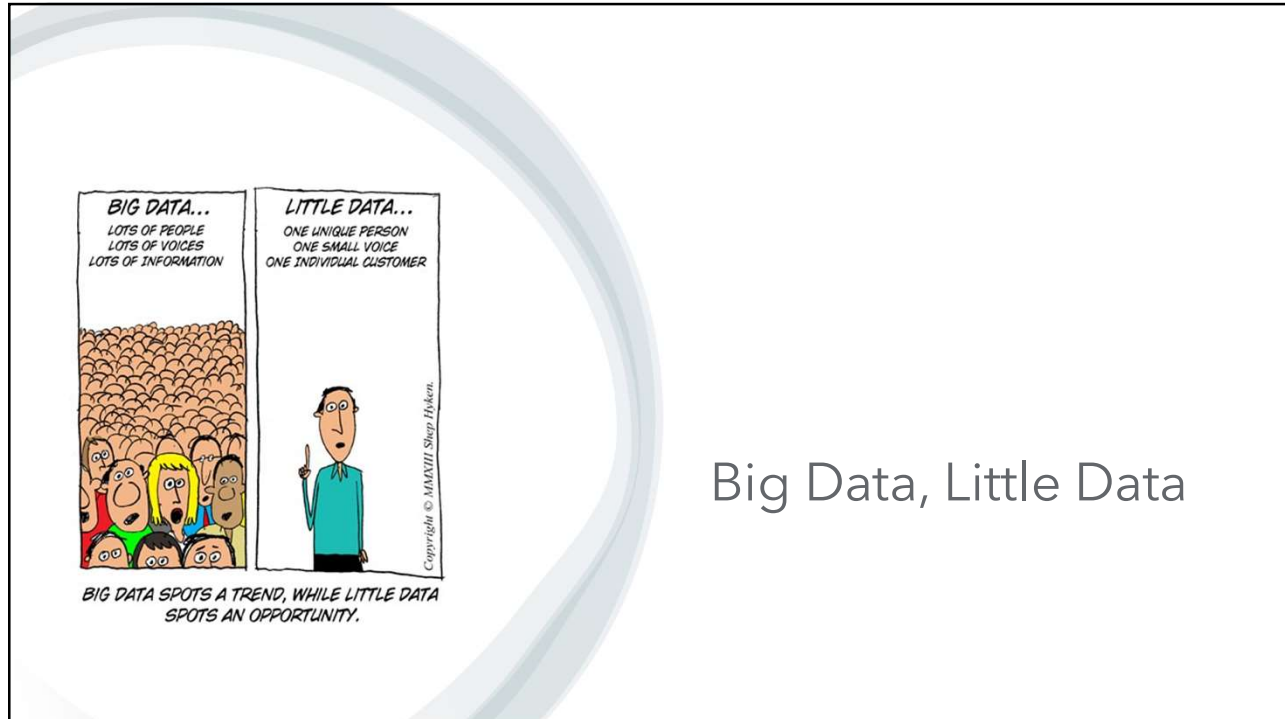


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Driver #1: Use Data to Inform Improvement Activities



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Big Data, Little Data

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Big Data - What Coded Data Tells Us

| Hospitalwide All-Condition, All-Payer, and Payer-Specific Readmission Analysis (adult, non-OB) | | | | | |
|--|---------|----------|----------|------------|-----------|
| | All | Medicare | Medicaid | Commercial | Uninsured |
| Table 1. Readmission Rate | | | | | |
| # discharges | | | | | |
| # readmissions | | | | | |
| Readmission rate | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Table 2. Percentage of Discharges and Readmissions | | | | | |
| % of total discharges by payer | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| % of total readmissions by payer | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Table 3. Days Between Discharge and Readmission | | | | | |
| # of readmissions within 0-4 days of discharge | | | | | |
| # of readmissions within 10 days of discharge | | | | | |
| # of readmissions between days 0-30 of discharge | | | | | |
| % of readmissions in 0-4 days | #DIV/0! | | | | |
| % of readmissions in 0-10 days | #DIV/0! | | | | |
| % of readmissions in 0-30 days | #DIV/0! | | | | |

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"Little Data": patient interviews

DESIGNING AND DELIVERING WHOLE-PERSON TRANSITIONAL CARE:
THE HOSPITAL GUIDE TO REDUCING MEDICAID READMISSIONS



TOOL 2: READMISSION REVIEW TOOL

Purpose

Readmission reviews are designed to elicit the "story behind the story": going well beyond chief complaint, discharge diagnosis, or other clinical parameters to understand the communication, coordination, or other logistical barriers experienced in the days after a patient's discharge that resulted in a readmission.

For the purposes of designing a data-informed portfolio of strategies, conduct 5 to 20 of these interviews to elicit the patient/caregiver perspective, humanize readmissions, and understand root causes that go beyond diagnoses or other "risk" categories. Be sure to interview at least 5 Medicaid patients and 5 caregivers.

For the purposes of improving transitional care for all patients, consistently conduct a "readmission review" for each readmitted patient, using the information about the person's actual challenges, barriers, or root causes to create a better discharge plan.

Description

Adapted from the well-known Institute for Healthcare Improvement's State Action on Avoidable Rehospitalizations

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What did the 'interview' of the patient tell us?



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Understand: Who, What, Where, When, Why

- Who is being readmitted?
- What medical conditions are contributing to the most readmissions?
- Where are the majority of readmissions coming from?
- How long after discharge are they returning?
- Why are patients returning? Determine the root cause of the unfulfilled need.
- What are we missing?
- Why, why, why, why, why?

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Little Data:
Why did the
patient
return? Like
really?

“THE KEY TO GOOD
DECISION MAKING IS
NOT KNOWLEDGE. IT
IS UNDERSTANDING.”

—MALCOLM GLADWELL

BLINK

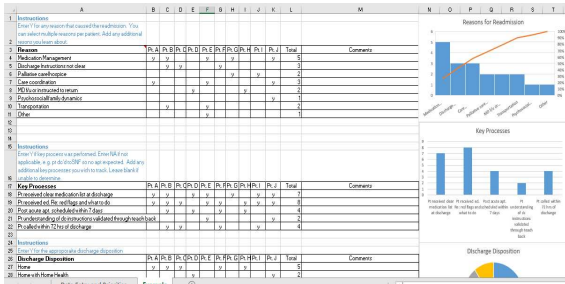


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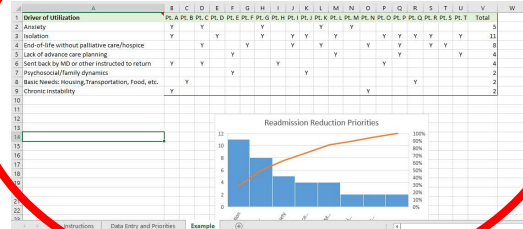
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Little Data - What Our Patients Tell Us (The REAL Story)

Readmission Discovery Tool

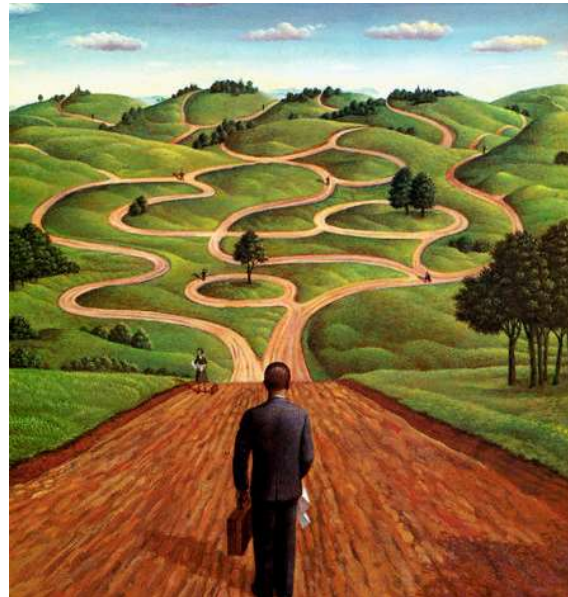


Driver of Utilization Tool



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How Do We Tell The Story Of Our Improvement Journey?



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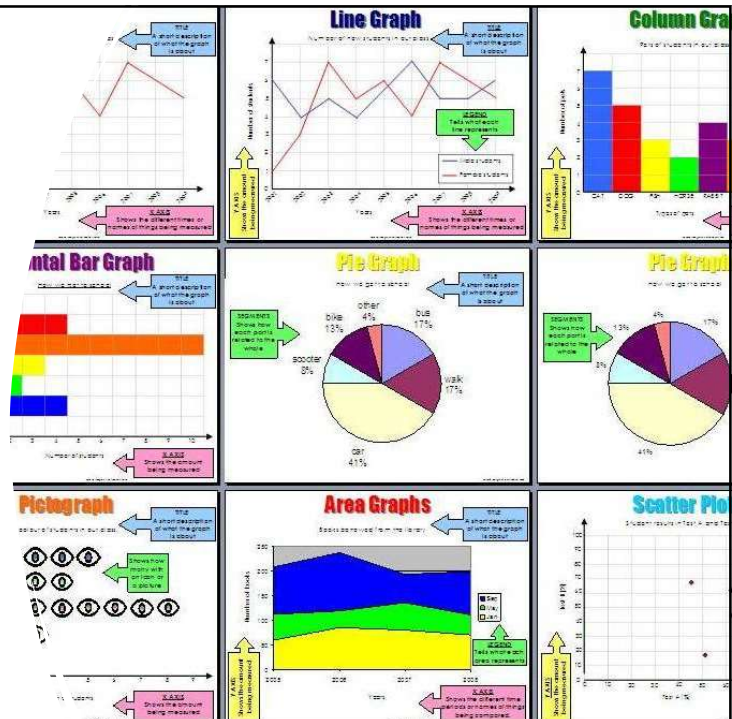
Data Display and Analysis

- How do you want to tell your story?
- Who are you going to tell your story to?



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Data Display



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Know Your Audience

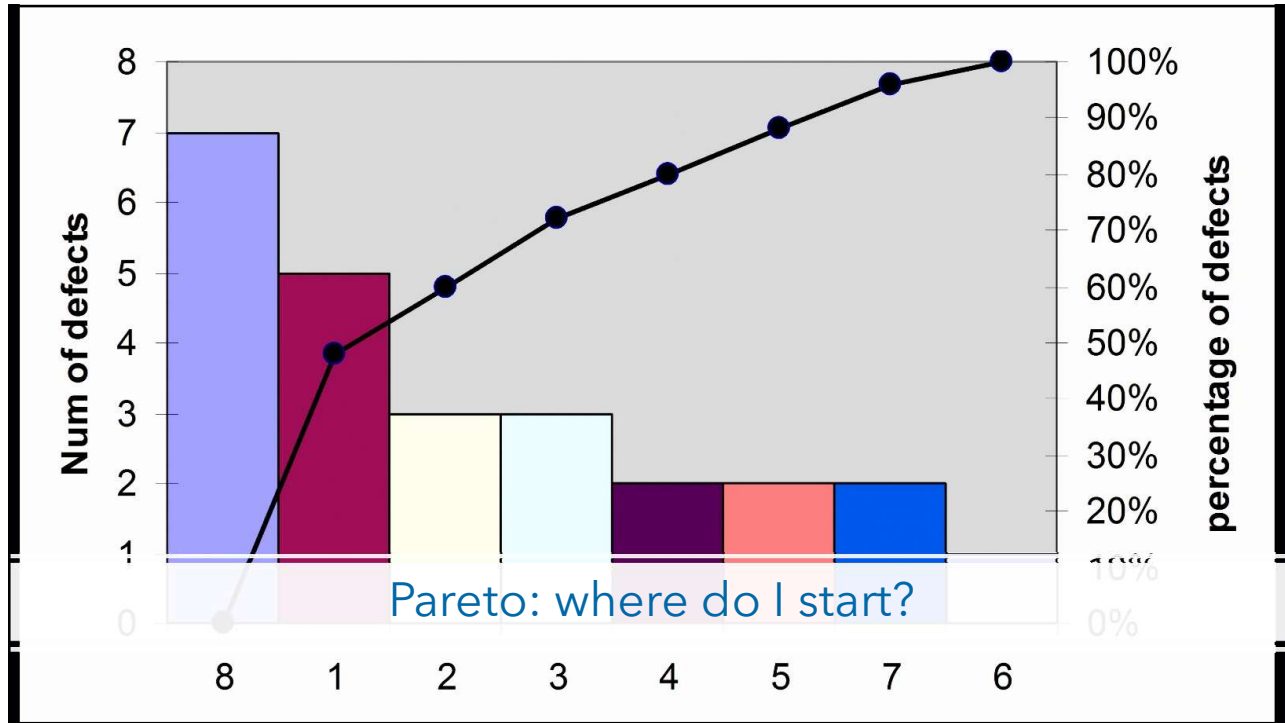


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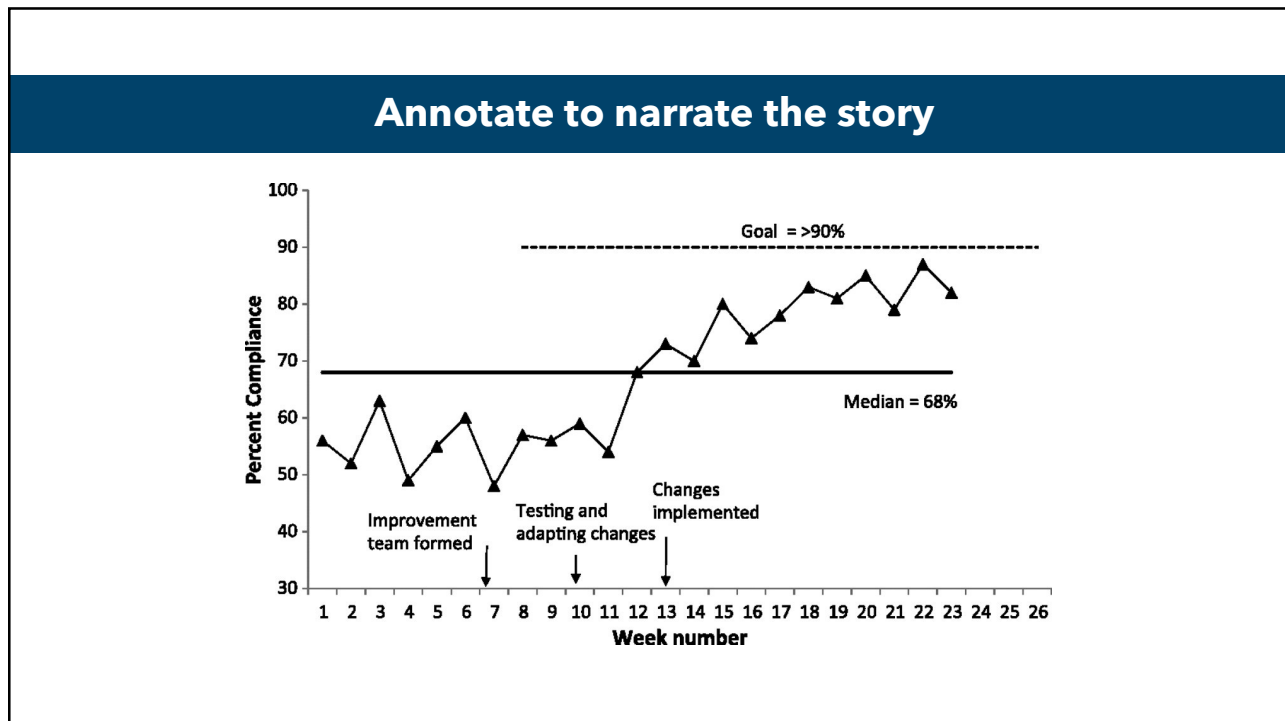


Check for Accuracy

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HH Compliance By Staff Category

Using Comprehensive Tracer Report – Summary by Questions
N = 14 Tracers

| | | |
|--------------------------|----------------|------------|
| • Advance Practice RN/PA | 4/5 | 80% |
| • Case Manager | 3/3 | 100% |
| • Diagnostic Imaging | 5/5 | 100% |
| • EVS | 5/6 | 83% |
| • Food Services | 3/3 | 100% |
| • Medical Staff | 8/9 | 89% |
| • Nurse | 40/41 | 98% |
| • Patient Visitor | 1/7 | 14% |
| • PCA | 9/9 | 100% |
| • Pharmacy staff | 2/2 | 100% |
| • Lab | 1/2 | 50% |
| • PT/OT/SLP | 2/4 | 50% |
| • Respiratory Therapist | 7/7 | 100% |
| • Technician | 1/2 | 50% |
| • Transporter | 1/1 | 100% |
| • OVERALL | 107/121 | 88% |

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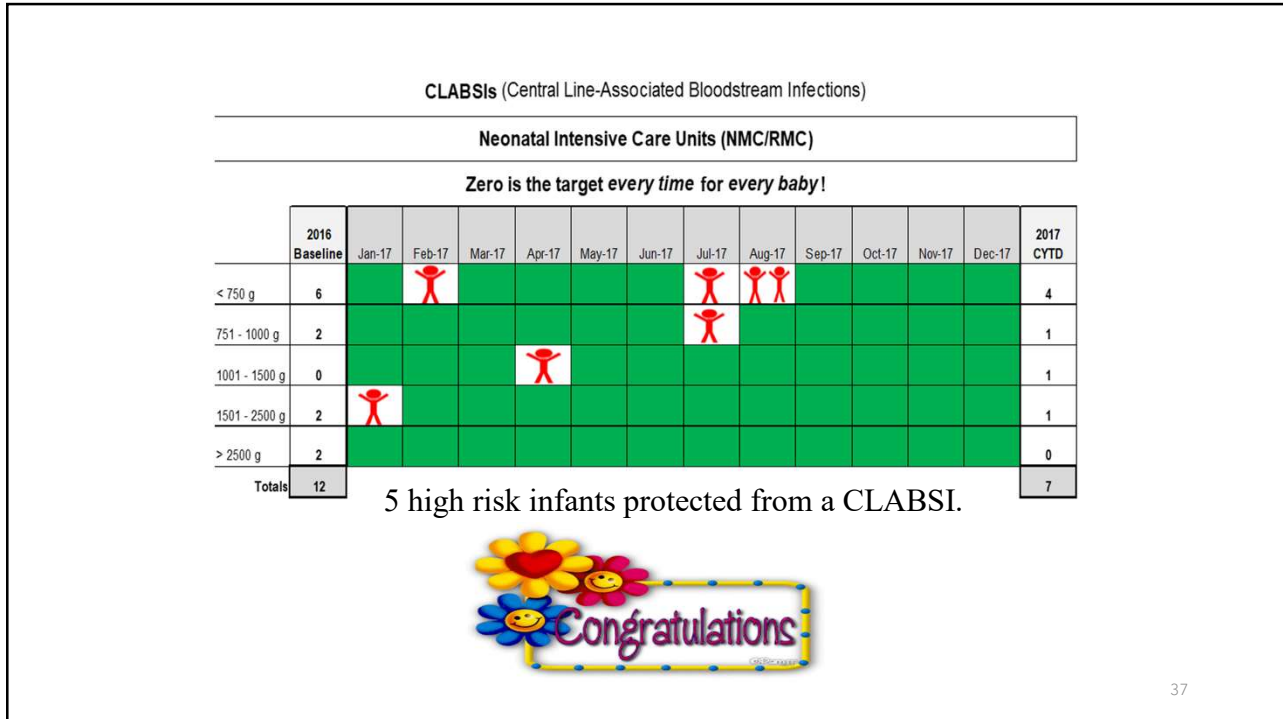
Performance Compared to the National Average?

| HAI Category | FY2019 Baseline* | FY2020 YTD* |
|-----------------|------------------|-------------|
| CLABSIs | 22 | 21 |
| CAUTIs | 28 | 28 |
| Colon SSIs | 3 | 6 |
| HYST SSIs | 5 | 1 |
| MRSA bacteremia | 12 | 17 |
| C. diff | 73 | 45 |

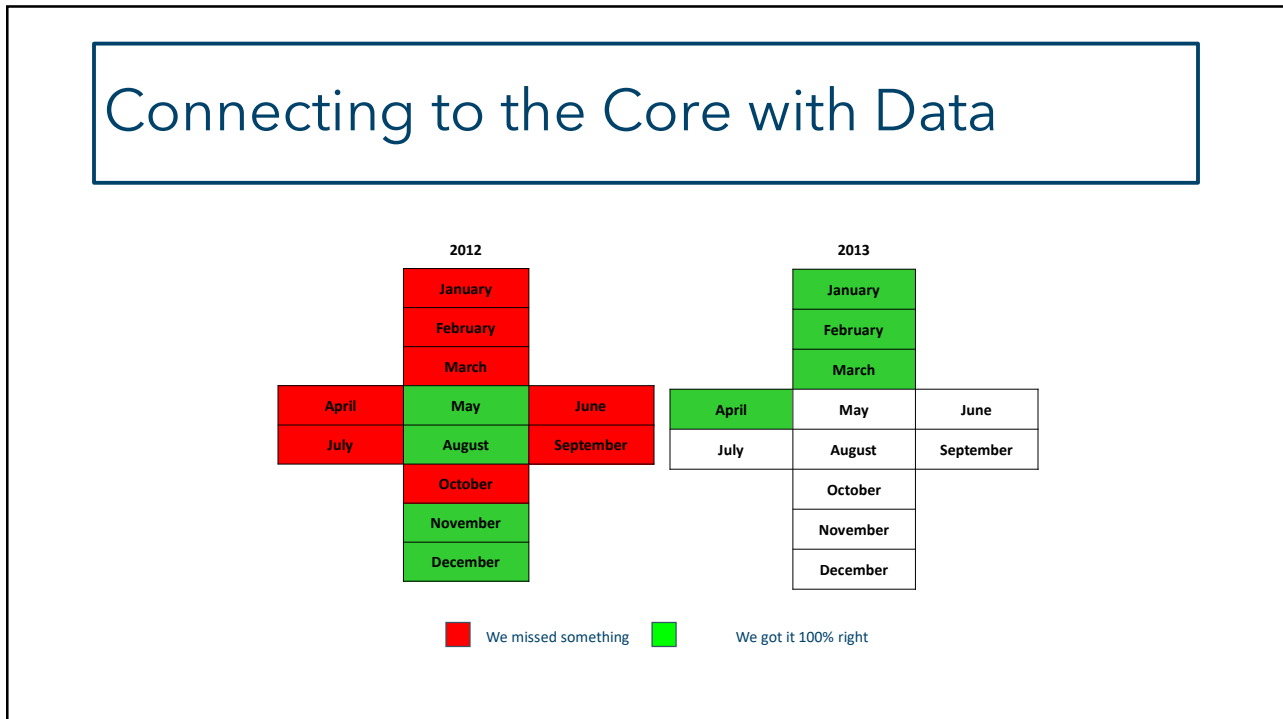
*Total Number of Reportable Infections

Red = Worse than National
Yellow = Similar to National
Green = Better than National

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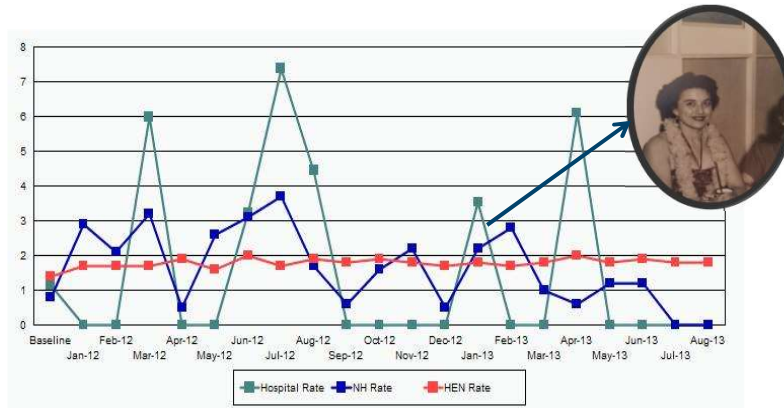


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It's not a rate: it's a human being



Courtesy of Martha Leighton; Eliot Hospital, Manchester, NH


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The Number of People Harmed

Do you ever wonder if what you did made a difference in preventing injury from a fall?




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**PHARMACEUTICAL
AND
BIOTECHNOLOGY**

Reduce Obstetrical Adverse Events

Fairbanks Memorial Hospital, Fairbanks, Alaska





HRET
HEALTHCARE
RELIABILITY
EFFECTIVENESS
TEAM

Date: 2-6-13

Self Assessment Score (1-5) = 5

Run Charts

How many babies were electively delivered prior to 39 weeks?

| 2010 | 2011 | 2012 |
|---|---|-------------------|
| (Random sample of 103 babies) | (Random sample of 100 babies) | (100% of Jan-Dec) |
|  |  | 0 |
| (13/103) | (1/100) | (0/122) |

Lessons Learned

- Requires strong support by Department of OB Chair to stand firm on policy
- Having clear guidelines on criteria for exceptions clarifies understanding and provides for accountability
- Full team approach is important – from physicians, to nurses, to schedulers.

Aim Statement

Aim: Reduce the early elective delivery rate for <39 week gestation to <3% by December, 2013.

Why is this project important?: Babies delivered prior to fetal maturity can face lifelong complications.

Changes being Tested, Implemented or Spread

Implemented:

- ACOG Voluntary Review (Jan 2011)
- Dept of OB <39 Week initiative (2011) Includes schedulers and nurses empowerment to ask for the gestational age.
- Banner implemented policy prohibiting deliveries of babies prior to 39-weeks gestation unless determined medically necessary. (Aug 2012)


Recommendations and Next Steps

- Continue to monitor compliance with policy

Team Members

Sponsor: Gena Edmiston - CNO
Co-leads: Dr. Hogenson, - Chair Jackie Collins - RN Dir. Shawna MacMillan - RN Mgr.
Facilitators: Jen Gul - Quality Specialist (PI)

Monthly Rate of Early Elective Deliveries
Days since last known EED = 440 (data through Dec-2012)



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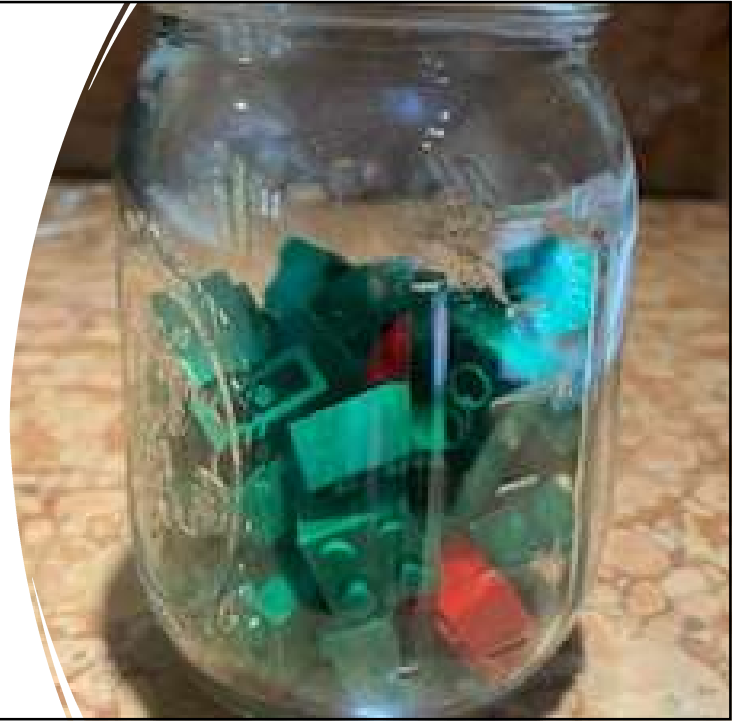
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Front-line nurse engagement



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Make
success
and failure
visible



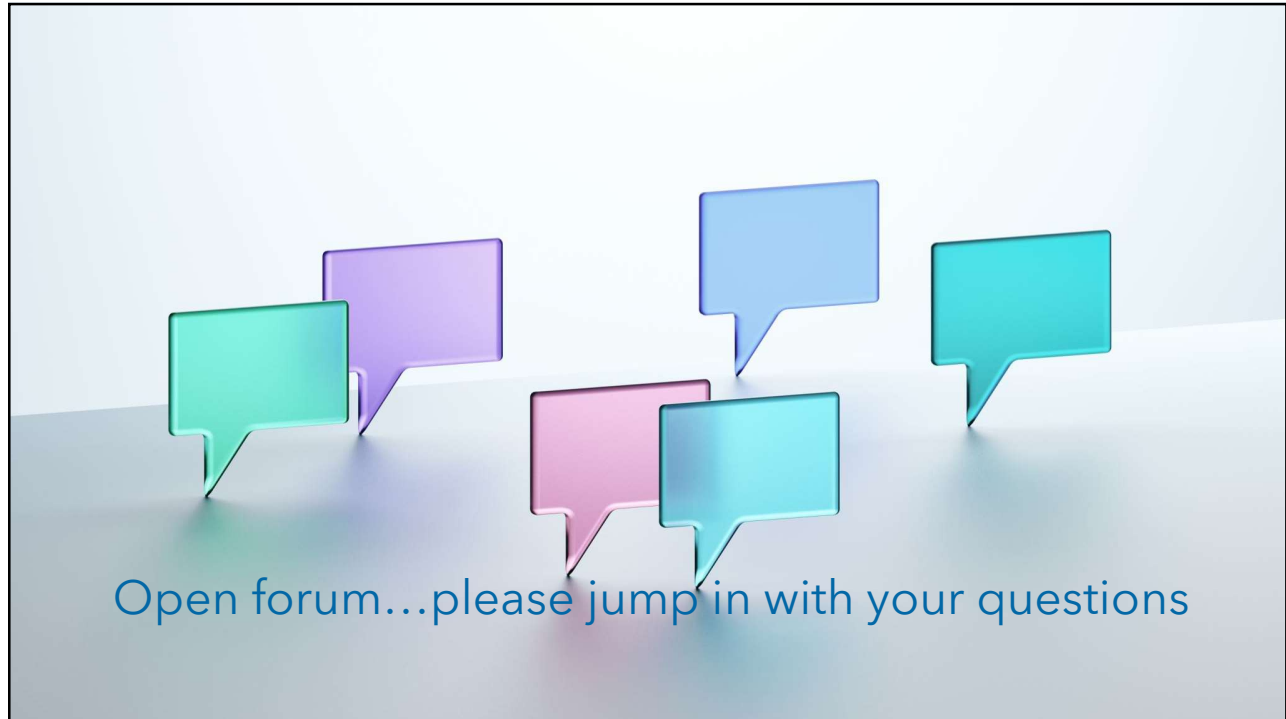
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Data display

- Tells the statistical story that you want to relay about a data set so receiver can see at a glance and come to some conclusion
- Very powerful
- Can be informative and effective
- Can be misleading and destructive



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Schedule

| Date | Topic | Practical Application (assigned) |
|----------|--|----------------------------------|
| Feb 27 | Getting Started: The Model for Improvement & How to Choose a Change | Tool: 3 Questions |
| March 12 | Heart of the Matter: Tools to Determine the Problem | Tool: Project Summary |
| March 26 | What Tells the Story? How to Identify and Use Data | Tool: PDSA Cycle 1 and Summary |
| April 18 | Just Do It...and Do It Again! Small Tests of Change and the Do-Study-Act of the PDSA Cycle | Tool: PDSA Cycle 2 + |
| April 30 | The Leader Mindset | |
| May 21 | No Blame No Shame: Addressing Patient Safety and Adverse Events | Poster development |
| June 11 | Changing the Perspective Changes the Experience: Involving Patients and Family Advisors in Quality Improvement | |
| July 16 | Celebration & Sharing | |

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Practical Application 3

- ✓ Complete "3 Questions" tab in the Toolkit.
- ✓ Schedule Scope Coaching with Barb.
- ✓ Complete the Summary & Plan in Project Summary tab in the Toolkit.
- ❑ Complete **Plan** in the PDSA Cycle 1 tab in the workbook
- ❑ Send to Casey

| | PLAN | DO | STUDY | ACT |
|--|---|------------------------|-------------------------------------|------------------------------|
| PDSA CYCLE | | | | |
| PROJECT SUMMARY | | | | |
| PROJECT TITLE | #VALUE! | | | |
| CYCLE NO. | 1 | Is this cycle used to: | <input checked="" type="checkbox"/> | Develop an idea for change |
| | | | <input type="checkbox"/> | Test an idea for change |
| | | | <input type="checkbox"/> | Implement an idea for change |
| PLAN: What exactly are we going to do? | | | | |
| PLAN & GOAL: This will automatically fill from the PROJECT SUMMARY tab. Do not delete the formula. | | | | |
| 0 | | | | |
| DATA & MEASUREMENT: Use answers from Question 3 of "3 Questions" | | | | |
| Data Collection Frequency | ← select from drop down | | | |
| Who is collecting data? | What resources is the data coming from? | | | |
| Numerator Description: | | | | |
| Denominator Description: | | | | |
| How will data be collected? | <input type="checkbox"/> | Check Sheet | <input type="checkbox"/> | Data Collection Form |
| | <input type="checkbox"/> | Interviews | <input type="checkbox"/> | Run Charts |
| | <input type="checkbox"/> | Flow Charts | <input type="checkbox"/> | Written Surveys |
| | <input type="checkbox"/> | Swim Lane Maps | <input type="checkbox"/> | Root Cause Analysis/FMEA |
| | <input type="checkbox"/> | Other | | |
| Results Reported to (check all): | <input type="checkbox"/> | P & T | <input type="checkbox"/> | AC/ER/DB |
| | <input type="checkbox"/> | ISPC | <input type="checkbox"/> | OB |
| | <input type="checkbox"/> | Med Staff | <input type="checkbox"/> | Clinic Providers |
| | <input type="checkbox"/> | OR/Trauma | <input type="checkbox"/> | UR |
| | <input type="checkbox"/> | Other | | |



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Contact

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Project Website <https://mtpin.org/qiroots/>



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Evaluation

Please complete the short evaluation that will appear when you leave the webinar.