

BCI Webinar

Improving Reporting Accuracy: Mother's Weight

September 27th, 2018

Partnering to Improve Health Care Quality for Mothers and Babies



Overview

- Process Mapping Check-in
- SWhat is the data showing?
- Recommended Guidance on Reporting: Mother's Weight
- Scoup Problem Solving Session
- Utilizing PDSA Cycles
- Upcoming Webinar
- S Adjourn



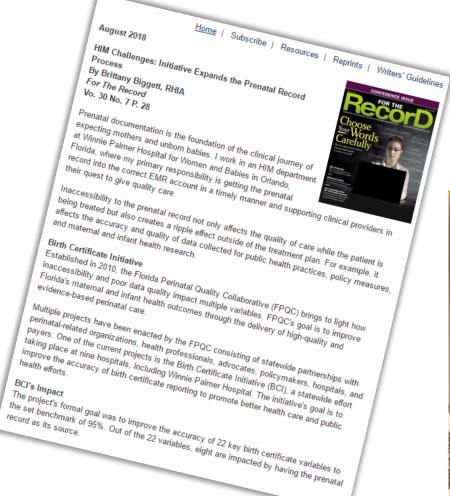
Process Mapping Check-in





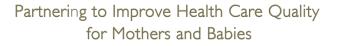
Winnie Palmer Hospital

Brittany Biggett









Process Mapping check-in

- Solution Has your hospital tried to process map?
- S How was the experience?
- SWould you like to share your process map on an upcoming BCI webinar?



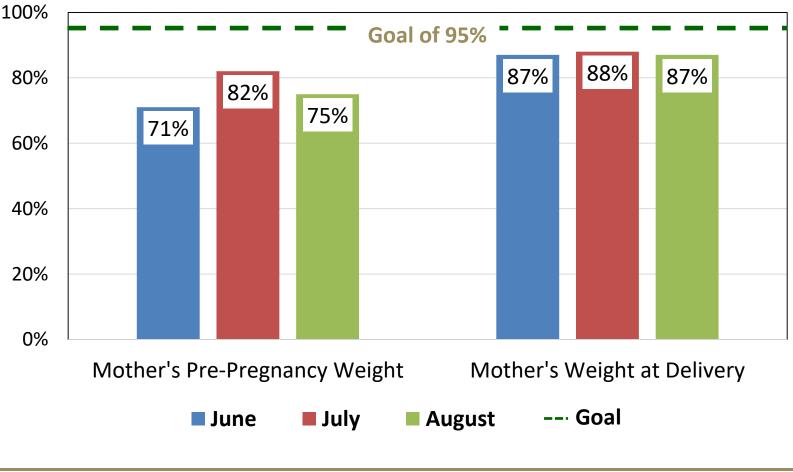
What is the Data Showing?





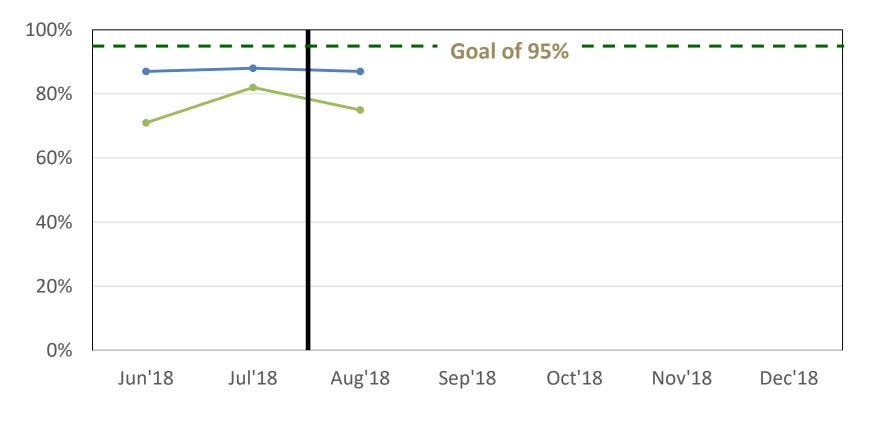
Average Percent Accuracy for 15 BCI Hospitals

Mother's Weight (Average)





Average Percent Accuracy of Birth Certificate Mother's Weight Variables – 15 <u>BCI Hospitals</u>



---- Mother's Pre-Pregnancy Weight ---- Goal



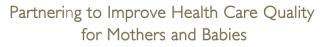
Agreement = Accuracy

When data is captured from correct sources, then both agreement and accuracy are achieved

Solution of the clerk and auditor:
Solution

BC agreement and accuracy are both achieved





Agreement vs Accuracy?

Figure 1: Targeting Process Variation







Sporadic

When clerk and/or auditor recorded the weight from <u>different sources</u> over time

Reliability

When clerk asks the mother her weight and the <u>auditor copied</u> the written answer

Accuracy

When clerk and auditor both captured the answer from prenatal records





Agreement and Accuracy

- SAuditors need to use best practices in order to obtain accuracy
- If data is not gathered from the same sources, we may have agreement but not accuracy
- Our aim is to help you with simple QI tools to improve the process
- Today we will focus on PDSA cycles as a QI tool for improvement in accuracy



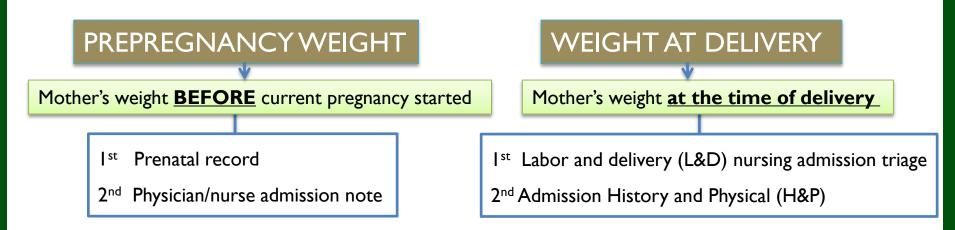


Recommended Guidance on Reporting: <u>Mother's Weight</u>





Mother's Weight



- Use pounds in whole numbers only; Do not enter fractions or decimals
- DO NOT round up or down
- If weight is 125 lbs. 4 $^{1\!/_{2}}$ oz. or 125.4 lbs. enter 125 lbs. only
- If weight is 155.75 lbs. enter 155 lbs. only





Group Problem Solving Session







Utilizing PDSA cycles to accelerate your QI initiatives

Karen Fugate MSN RNC-NIC, CPHQ FPQC Nurse Consultant

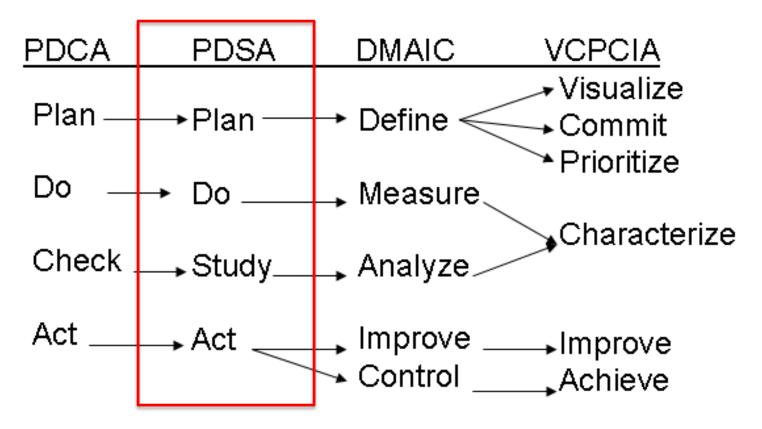
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QI Methodology

S Many QI methodologies are available

Goal is to develop tests of change to imp





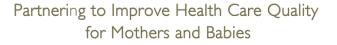
PDSA ~ Scientific method

 Table 1
 Description of the plan–do–study–act (PDSA) cycle method according to developers and commentators

	Deming (1986) ²⁵ Original description of the method relating to manufacturing	Langley (1996) ³⁰ How the PDSA method may be adapted for use in healthcare contexts	Speroff and O'Connor (2004) ³³ How the PDSA method is analogous to scientific methodology
Plan	Plan a change or test aimed at improvement	 Identify objective Identify questions and predictions Plan to carry out the cycle (who, when, where, when) 	Formation of a hypothesis for improvement
Do	Carry out the change or test (preferably on a small scale)	 Execute the plan Document problems and unexpected observations Begin data analysis 	Conduct study protocol with collection of data
Study	Examine the results. What did we learn? What went wrong?	 Complete the data analysis Compare data to predictions Summarise what was learnt 	Analysis and interpretation of the results
Act	Adopt the change, abandon it or run through cycle again	What changes are to be made?What will the next cycle entail?	Iteration for what to do next

Taylor MJ, et al. BMJ Qual Saf 2013;0:1–9. doi:10.1136/bmjqs-2013-001862





What is a PDSA cycle?

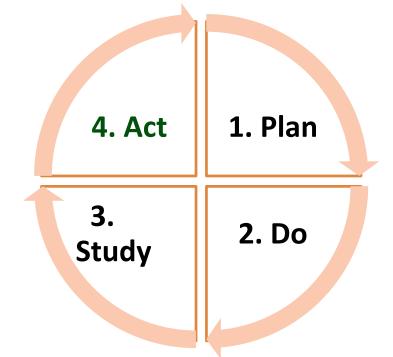
Useful tool for developing & documenting tests of change to improve

AKA PDCA, Deming Cycle, Shewart Cycle

- P Plan a test
- D Do a test
- S Study & learn

from test results

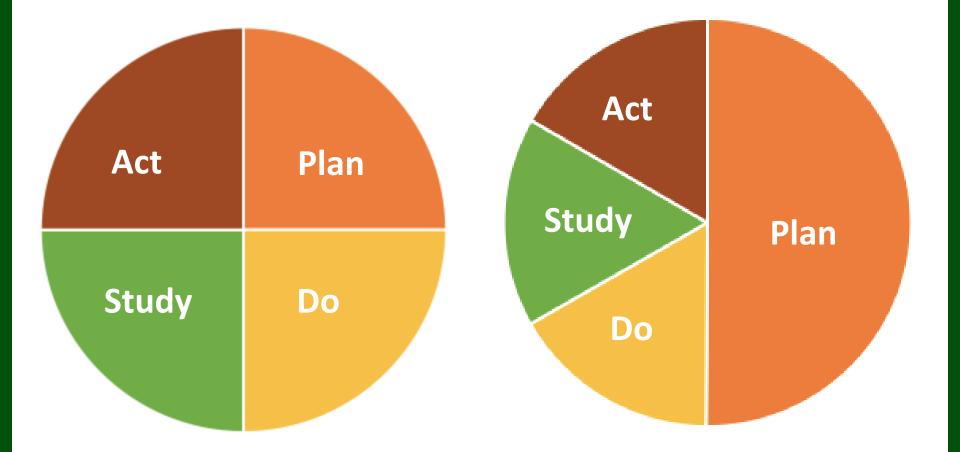
A – Act on results



Deming WE. The New Economics for Industry, Government, and Education. Cambridge, MA: The MIT Press; 2000.





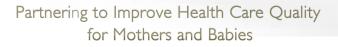




Reasons to test changes

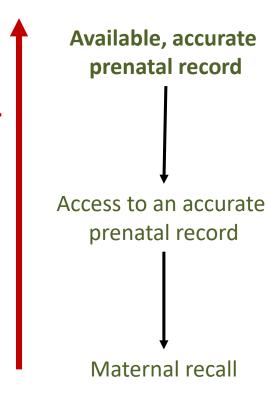
- Learn whether change will result in improvement
- **Predict** the amount of improvement possible
- Evaluate the proposed change work in a practice environment
- Minimize resistance at implementation





PDSA Cycle #I

Identified problem: ~20% accuracy in documenting pre-pregnancy weight **Objective:** Improve accuracy of pre-pregnancy weight



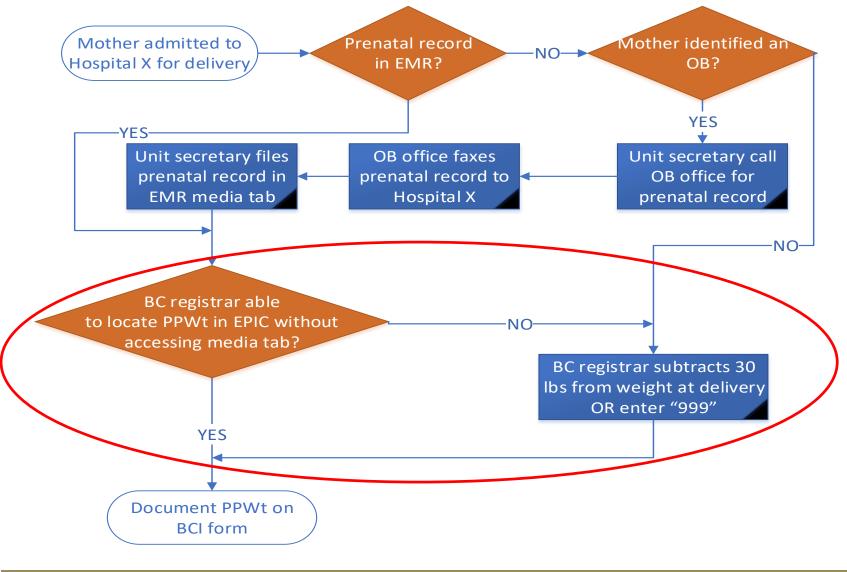
This process is complicated....

- Where will prenatal record be located? What if the prenatal record isn't accurate or is illegible?
- Does the registrar know where to locate information in EMR?
- When does it get sent from the OBGYN?
- Whose responsibility to find record if it's not present? What does this process look like? How much time does it take?





Current process to document pre-pregnancy weight (PPWt)

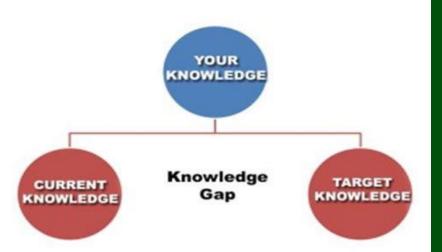






Opportunities

Registrars not looking in scanned prenatal records or appropriate sources
 Only as a last resort, not asking mom because they didn't know they could



Inaccurate PPWt





Have an objective

- Concisely state what you plan to do
- I plan to...Test a process to educate the birth certificate registrars on:
 I) How to locate and navigate scanned prenatal records
- 2) <u>Only as a last resort</u>, ask mom to recall her PPWt if unable to locate in prenatal record or other appropriate sources

Make a prediction

Execute the plan





Have an objective

Make a prediction of what will happen

 I hope this produces... registrars will be able to locate PPWt in scanned prenatal records with 90% accuracy.

Develop the plan





Have an objective

Make a prediction



Develop the plan

Who? What? When? Where? How data to be collected?

- I. Sally will educate registrars on how to navigate scanned prenatal records use actual record and
- 2. Sally will educate one registrar. Registrar will navigate scanned records for one day.
- 3. Registrar will provide feedback. Sally will calculate accuracy by record review.



Do the test

- **Take notes** on problems &
 - observations
 - Was registrar able to locate PPWt? Was it accurate?
 - What questions did registrar have? Feedback?
 - Could registrar return demo? Why not?

Know when to stop the test

 Can terminate before designated time frame if the test clearly doesn't work







Plan-Do-<u>Study</u>-Act

Analyze your results

- 5 of 5 (100%) PPWts accurate when searching scanned prenatal records
- Process was slow and cumbersome. Had hard time remembering how to do it.

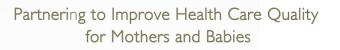
Do results support your prediction?

Yes

□ What did we learn (good and bad) ?

- Able to find PPWt with 100% accuracy
- Need to streamline and provide tip sheets





Refine next cycle based on what was learned

ABANDON: Discard change idea testing. Describe what you will change.

ADAPT: Improve the change & continue a larger scale. Develop an implementation plan for sustainability.

ADOPT: Select changes to implement on & try a new one

п

What modifications should be made?

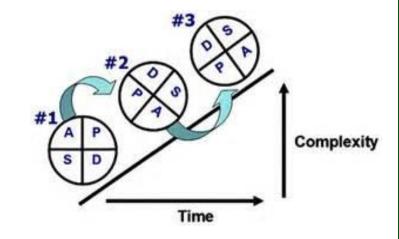
Create a tip sheet. Look for short cuts to streamline process

Can we expand our test?

No

What will our next test be?

 Create a tip sheet with streamlined process and use same registrar for one day





Some suggestions...

Pick willing volunteers ("cheerleaders")

Tests of change:

- Don't reinvent the wheel (Steal shamelessly)
- Start with a small scope, but with good yield
- Initially opt for change that doesn't require a lengthy approval process
- Avoid technical slow downs
- Reflect on results of EVERY change even failures

Don't be afraid to end a test if there isn't improvement





Comments? Questions?





Partnering to Improve Health Care Quality for Mothers and Babies Upcoming Webinar

October 25th, 2018

Improving Reporting Accuracy: 'Antibiotics during Labor'

□ What issues have you been finding with this variable?





Thank you!

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