



# The Value of QI Methods in Access LARC: PDSA and Process Mapping

**Access LARC Collaborative Webinar**

Partnering to Improve Health Care Quality  
for Mothers and Babies

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# Welcome!

- **Please enter your Audio PIN on your phone or we will be unable to un-mute you for discussion**
- If you have a question, please enter it in the Question box or Raise your hand to be unmuted
- This webinar is being recorded
- Please provide feedback on our post-webinar survey

# Agenda

6/13/18

- Welcome
- Announcements
- Medicaid Update
- The Value of Quality Improvement Methods in Access LARC
- Questions

# Quality Improvement Methods Training

## July 30-31

More info at [FPQC.org](http://FPQC.org) Events website

- 👶 FREE Training for Perinatal Professionals
- 👶 Jacksonville, FL
- 👶 This 1.5 day training is aimed at hospital-based QI teams in maternal or neonatal healthcare, but is open to all who can attend **as a team** with a small scope QI project already in mind.

# Are Your Hospital's Birth Certificates Accurate?



Sign  
Up  
Now!

Did you know that inaccurate or incomplete birth certificate data significantly impacts the health and healthcare of Florida's mothers and babies?

 **Join the Birth Certificate Initiative (BCI)! - Deadline to apply is June 15<sup>th</sup>!**

 Please visit [health.usf.edu/publichealth/chiles/fpqc/bci](http://health.usf.edu/publichealth/chiles/fpqc/bci) for more information.

# Project Announcements

- 👶 Schedule Access LARC site visit soon
- 👶 IUD Insertion Training is available
- 👶 MamaU training model will be provided to our participating hospitals/residency programs in Florida



**Access LARC Data Questions?  
Contact Estefania Rubio at:**

**[erubio1@health.usf.edu](mailto:erubio1@health.usf.edu)**

**(813)458-1284**

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# Project Resources Website

health.usf.edu/publichealth/chiles/fpqc/larc  
*OR*  
FPQC.org → Current Projects → Access LARC

The screenshot displays the website's interface. At the top, there are navigation tabs for News, Education, Research, and Patient Care. Below this is the USF Health logo and the Florida Perinatal Quality Collaborative (FPQC) logo. A main navigation bar includes Home, About, Admissions, Academics, Engage, and Giving. A left sidebar lists various site sections like Home, Who We Are, Governance & Structure, Membership, Communications, Testimonials, Projects, Events, Provider Education, Patient Education, and Staff & Information. The main content area features a callout box titled 'Access LARC News & Announcements' with a sub-header 'Access LARC Initiative Launches November 3 2017'. Inside this callout, there is an information icon and the text 'Access LARC Initiative Resources'. Below this, there is a section for 'Online Tool Box for Participating Access' with a description: 'This Tool Box contains tool kit documents, example policies, and educational resource is updated regularly throughout the project.' Further down, there are sections for 'Archived Webinars' and 'Participating Hospitals'. An orange arrow points from the top right towards the 'Access LARC Initiative Resources' section. To the right of the main content area, there is a 'Star' icon and a list of webinar titles with links to view recordings and download slides.

# Project Resources Website

[health.usf.edu/publichealth/chiles/fpqc/larc/toolbox](http://health.usf.edu/publichealth/chiles/fpqc/larc/toolbox)

The screenshot shows the website's navigation menu with options like News, Education, Research, and Patient Care. The main content area features a header for 'Florida Perinatal Quality Collaborative - LARC' and a navigation bar with links for Home, About, Admissions, Academics, Engage, and Giving. A prominent green banner reads 'Immediate Postpartum Long-Acting Reversible Contraception (LARC)'. Below this, there is a section for 'Access LARC News & Announcements' with a sub-header 'Access LARC Initiative Launches November 3 2017'. A sidebar on the left contains links for Home, Who We Are, and Governance & Structure. The main content area also includes a 'Care Quality' section and a 'Participating Hospitals' section. A large orange arrow points from the top right towards a green button labeled 'Online Tool Box for Participating Access LARC Hospitals'.

## Access LARC Initiative Tool Box



Partnering to Improve Health Care Quality  
for Mothers and Babies

This is the tool box of materials for hospital teams working on the Access LARC Initiative. New items are added regularly. We suggest bookmarking this page!  
Please contact [FPQC@health.usf.edu](mailto:FPQC@health.usf.edu) about any issues or questions about materials.



Florida Tool Kit



Resources from Other Organizations and States



Slide Sets



Initiative Data Resources



Patient Counseling Resources

# Medicaid Updates

FPQC Access LARC Webinar  
June 13, 2018 | 1:00pm – 2:00pm

Janicka Harris, MPH  
Bureau of Medicaid Quality  
Agency for Health Care Administration



# Status of Medicaid Health plans and Access LARC

- The Agency conducted outreach to participating health plans in April 2018 to assess their contracting status with Access LARC hospitals. As of today, we don't have any new updates.

Medicaid Health Plans available in each region 4/10/18							
	1	2	3	4	5	6	7
Amerigroup					x	x	x
Better Health						x	
Aetna							
Humana	x					x	
Molina	x			x		x	x
<b>Prestige Community Care Plan</b>		x	x		x	x	x
Simply							
<b>Staywell</b>		x	x	x	x	x	x
Sunshine			x	x	x	x	x
United Health			x	x			x



# List of Original Awardees

- See screen-shot of a list of original awardees.

Awards Included in Intent to Award Posted on 4/24/18

Selections	Simply	Staywell	Sunshine	Humana	Aetna/ Coventry	United	Best Care	FSCCN/ Community Care Plan	Florida Community Care	Sunshine- Child Welfare Specialty Plan	Clear Health Alliance Specialty Plan	Staywell- Serious Mental Illness Specialty Plan
Region 1			X					X	X	X	X	
Region 2	X		X					X	X	X	X	
Region 3	X	X	X					X	X	X	X	
Region 4	X	X	X					X	X	X	X	
Region 5	X	X	X					X	X	X	X	
Region 6	X	X	X			X		X	X	X	X	
Region 7	X	X	X					X	X	X	X	
Region 8	X	X	X				X	X	X	X	X	
Region 9	X	X	X					X	X	X	X	
Region 10			X				X	X	X	X	X	
Region 11	X	X	X	X	X	X		X	X	X	X	

Comprehensive Plan
Managed Medical Assistance
Long-term Care Plus
Specialty Plan

**NOTE: The respondent agreed to serve enrollees in both Regions 1 and 2, even if the respondent is awarded a contract in only one of these Regions (1 and 2).**



Source: [http://ahca.myflorida.com/medicaid/statewide\\_mc/pdf/Intent To Award Webpost.pdf](http://ahca.myflorida.com/medicaid/statewide_mc/pdf/Intent_To_Award_Webpost.pdf)

# Status of New Awardees and Protests

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- The Agency has posted the list of awardees to include:
  - Lighthouse Health Plan, LLC in Region 1
  - Miami Children’s Health Plan in Regions 9 and 11

*Note: Both plans are operating as Provider Service Networks providing Managed Medical Assistance services only.*

- We are still working through the protest process with other respondents.





# The Value of QI Methods in Access LARC: PDSA and Process Mapping

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Maya Balakrishnan, MD CSSBB



Rachel Rapkin, MD, MPH

# **The value of QI methods in Access LARC: PDSAs & Process mapping**

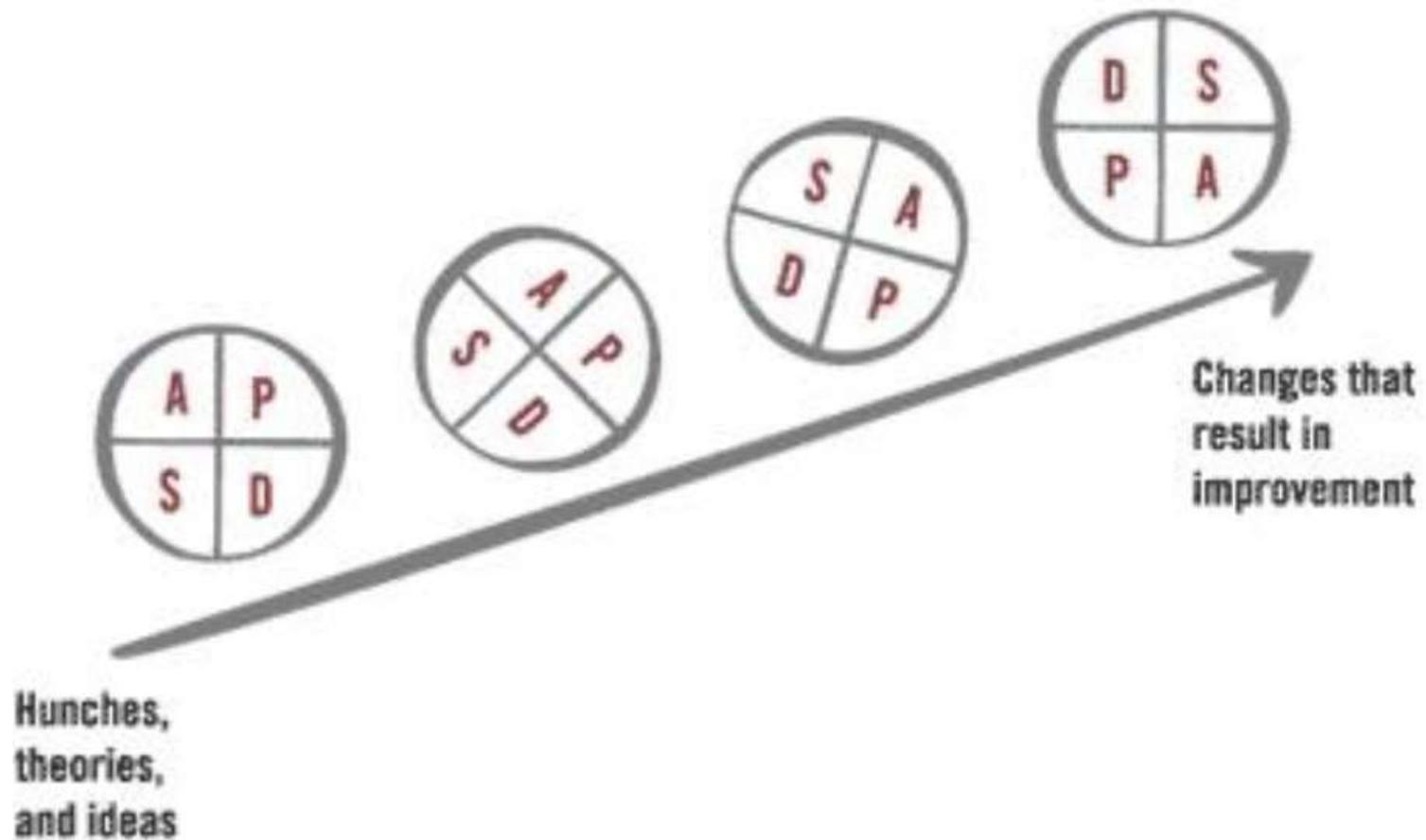
Maya Balakrishnan, MD, CSSBB  
Rachel Rapkin, MD, MPH

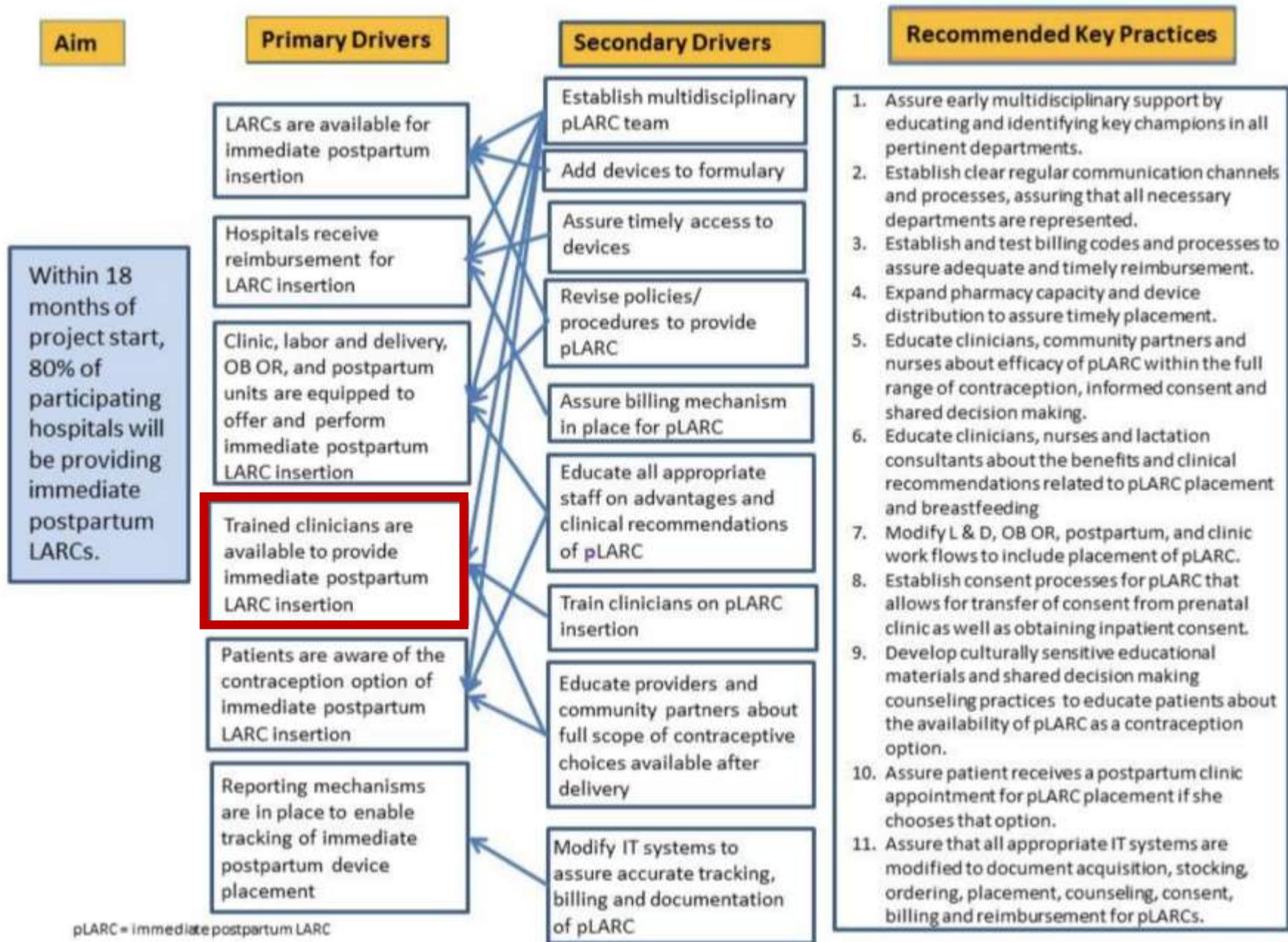
FPQC Access LARC webinar  
6//13/18

# Access LARC's aim statement

By 12/2019,  
FPQC participating hospitals will increase  
LARC placement (IUD or implant)  
in postpartum women desiring LARC contraception  
from 0% to 50%.

# Determining interventions





A key driver diagram is intended to assist in identifying factors that impact outcomes, and in prioritizing actions and strategies to be undertaken to improve outcomes.

# PDSA or DMAIC?

<b>PDSA</b>	<b>DMAIC</b>
<b>Plan</b>	<b>Define</b> <b>Measure</b> <b>Analyze</b>
<b>Do</b>	<b>Improve</b>
<b>Study</b> <b>Act</b>	<b>Control</b>

# What is a PDSA cycle?

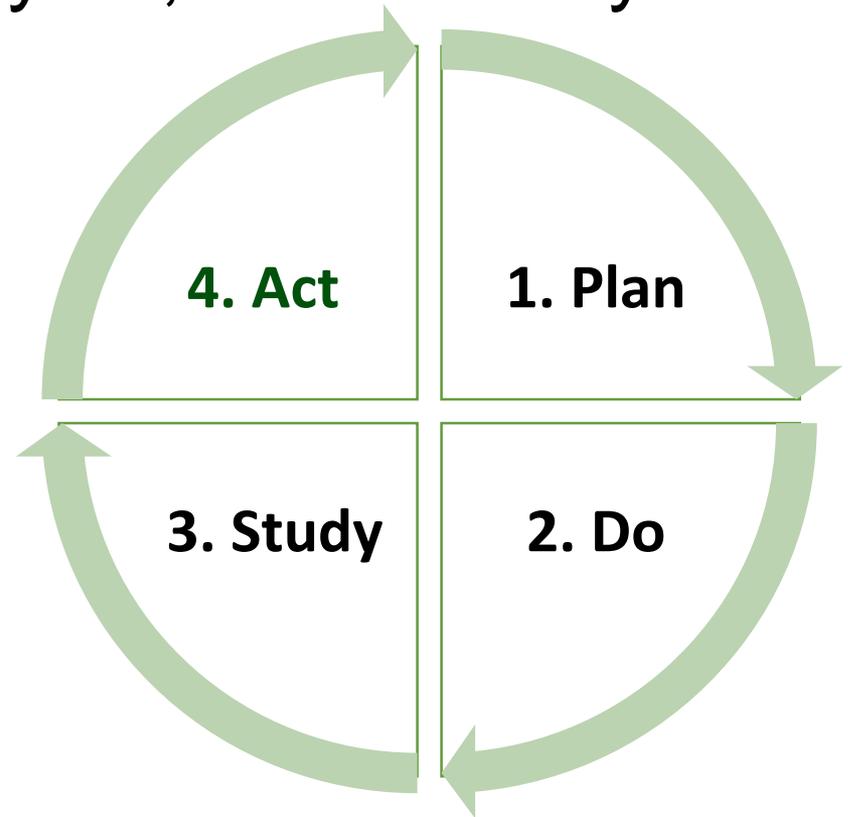
- Useful tool for developing & documenting tests of change to **improve**
- AKA PDCA, Deming Cycle, Shewart Cycle

**P** – **Plan** a test

**D** – **Do** a test

**S** – **Study** & learn  
from test results

**A** – **Act** on results



# When are we ready for a PDSA cycle?

- Team formed
- Questions answered
  - Aim established?
  - Measures developed?
  - Generated ideas for tests of change?

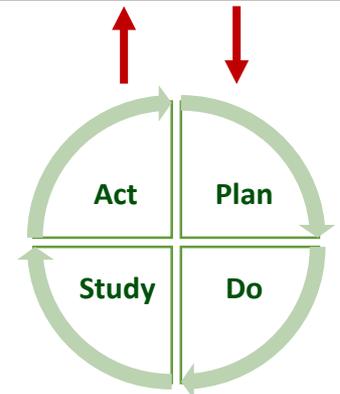
***We are ready for a PDSA cycle to test our ideas***

## IHI's Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What changes can we make that will result in improvement?



# Plan-Do-Study-Act

## 1. Have an objective

- Concisely state what you plan to do
- **I plan to...**

**Objective of this cycle** (*What are we trying to accomplish?*):

Complete educate for >90% of nursing staff, residents, and attendings who deliver care to patients in Labor/Delivery and postpartum

**What key driver does this change impact?**

Trained clinicians are available to provide immediate postpartum LARC insertion

# Plan-Do-Study-Act

## 2. Execute the plan



### PLAN OR DEFINE-MEASURE-ANALYZE

*What changes can we make that will lead to improvement?*

#### Describe changes we plan to test

- Alyssa has prepared a PowerPoint presentation to review importance of immediate postpartum LARC insertion, contraindications, process, and follow-up for LARC.
- Rachel met with stakeholder to outline workflow (process map – current state and future state)

**Who are stakeholders for this cycle?** nursing staff (OB, OR), residents, midwives, and attendings who deliver care to patients in Labor/Delivery and postpartum

# Plan-Do-Study-Act

## 2. Execute the plan



Tasks needed to implement these changes (*How will we make this change happen?*)

Task	Who is responsible <i>Consider locations the changes will affect</i>	Due date
Educate Nurses and staff (OB, OR)	Pat	6/30/18
Educate medicine residents	Rachel	6/30/18
Educate OB attendings	Alyssa	6/30/18
Education midwives	Jessica	6/30/18
Develop PowerPoint	Alyssa	6/7/18
Develop TGH policy for LARC	Pat Alyssa Rachel	6/15/18

# Plan-Do-Study-Act

## 2. Execute the plan



**Measures for this cycle** (*How will we know that a change is an improvement? Consider balancing measures.*)  
 Consider measures to determine whether our prediction succeeds and your goal is achieved.  
 Consider how data will be collected & who is responsible for collecting data.

Measure name	Operational Definition	Type of measure	Main quality characteristic	Frequency of collection	Method of collection	Source of data	Person responsible	Data display method	Goal	Current state
RN Education	Num: # OB RNs who complete training Den: Total # OB RNs	Process	Effectiveness	Monthly	Roster	Roster	Pat	Table	>90%	0%
Midwife education	Num: # midwives who complete training Den: Total # midwives	Process	Effectiveness	Monthly	Roster	Roster	Jessica	Table	>90%	0%
Obstetric attending & resident education	Num: # OB attendings & residents who complete training Den: Total # OB attendings & residents	Process	Effectiveness	Monthly	Roster	Roster	Rachel Alyssa	Table	>90%	0%

# Plan-Do-Study-Act

- **Do the test**
  - Try on a small scale first
- **Take notes** on problems & observations
- **Know when to stop the test**



"Now this time, just for the heck of it, try releasing that sucker just a little sooner."

# Plan-Do-Study-Act

## DO OR IMPROVE

*What happened when the test was conducted?*

**Was the cycle carried out as planned (yes, no)?** Yes

**What did you observe (i.e., qualitative feedback from the team)?**

- Education well received by nurses, residents, and pediatric attending.
- Midwives had difficulty attending sessions because covering for other providers to attend education
- Physicians were very receptive to involvement in defining workflow

**What did you observe that was not part of the plan?**

- Determining documentation around LARC placement and confirming consent
- Determining patient eligibility depending on insurance

# Plan-Do-Study-Act

## STUDY OR CONTROL

*Did the measured results and observations meet your objective?*

**Was your goal achieved (yes, no)?** Yes

- Goal for education was achieved (RN: 95%, Attendings: 100%, Residents: 100%)

**How do results of this test compare to previous performance?** NA

If YES

- **Do you plan to expand the test (yes, no)?** Yes

**Will you expand the scale** (i.e., keep the same conditions, just test more)? We will include Maternal-Fetal-Medicine attendings and fellows. Continue regular trainings with staff yearly, to include new trainees and new hires

- **Will you expand the scope** (i.e., change the conditions)? No
- **Will you expand the scale and scope** (i.e., change locations/units and conditions)? No

If NO

- **What data do you have to distinguish if your method of testing the change failed or if the designed change was not effective?** NA

**Were there any barriers with the cycles' implementation (yes, no)?** No

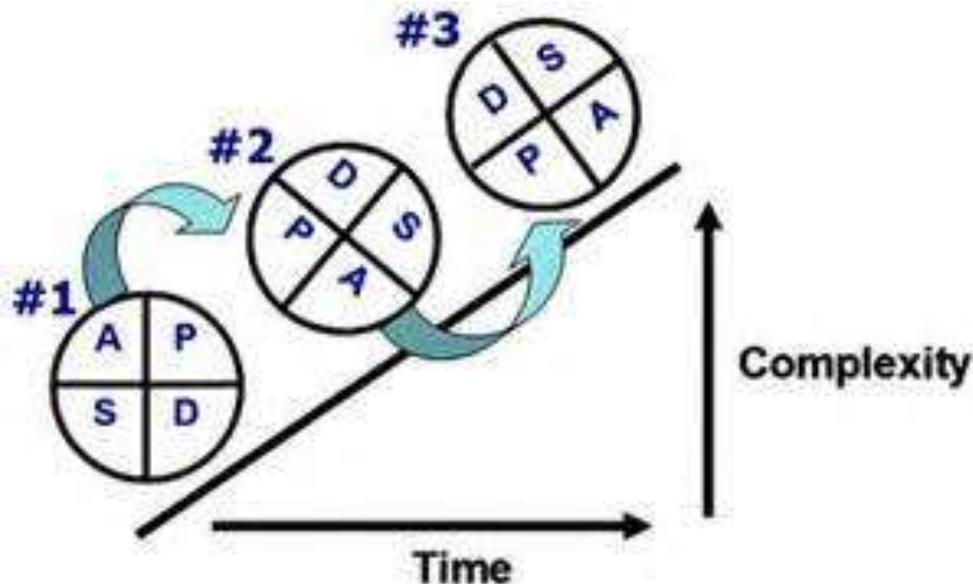
**What else did you learn?**

- It took time and lots of discussion to determine specifics on the policy before consensus could be achieved.

# Plan-Do-Study-Act

**Refine next cycle** based on what was learned

	<b>ABANDON:</b> Discard change idea testing. Describe what you will change.
x	<b>ADAPT:</b> Improve the change & continue a larger scale. Develop an implementation plan for sustainability.
	<b>ADOPT:</b> Select changes to implement on & try a new one



# Plan-Do-Study-Act



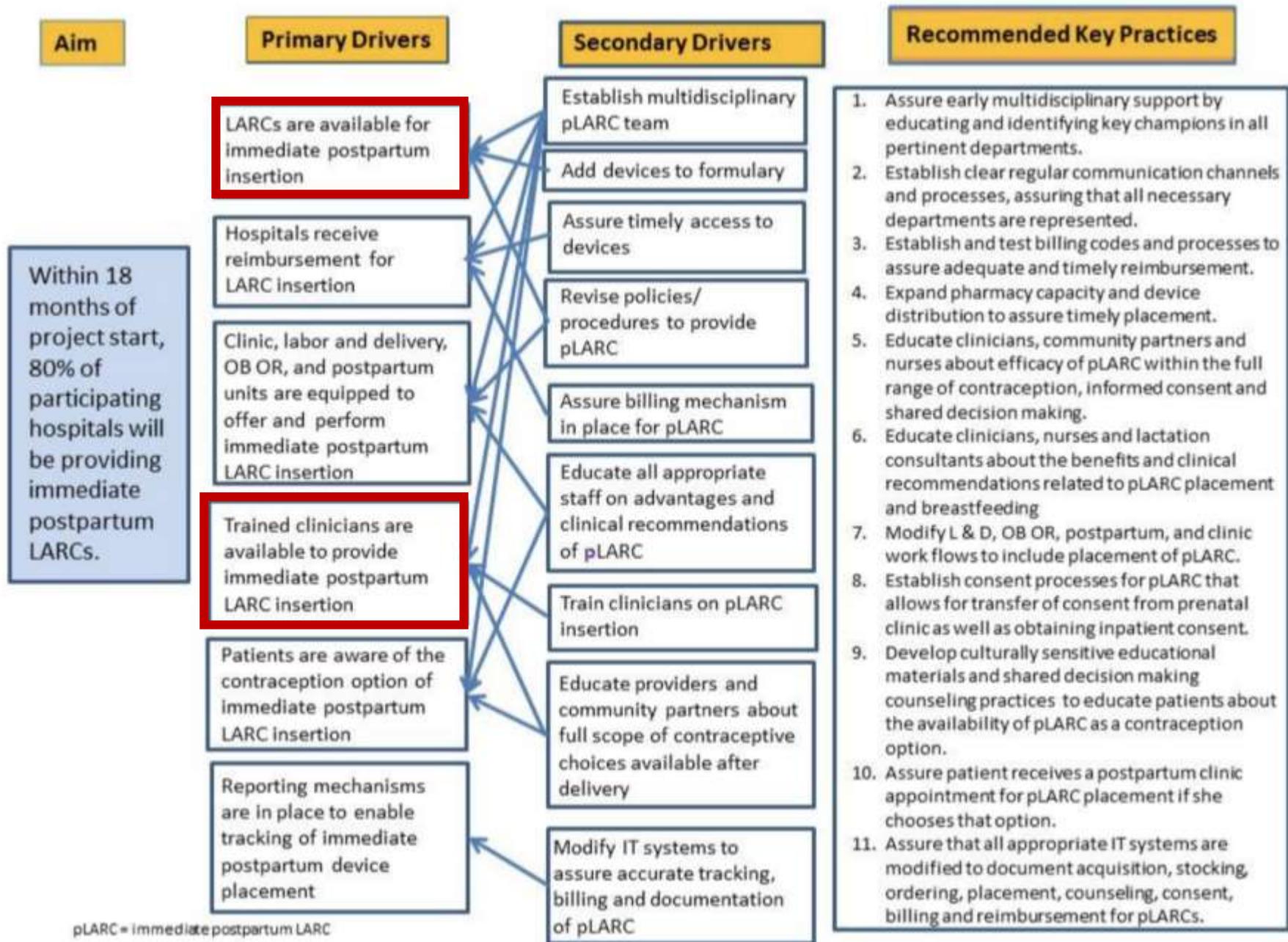
# Reasons to test changes

***Learn*** whether change will result in improvement

***Predict*** the amount of improvement possible

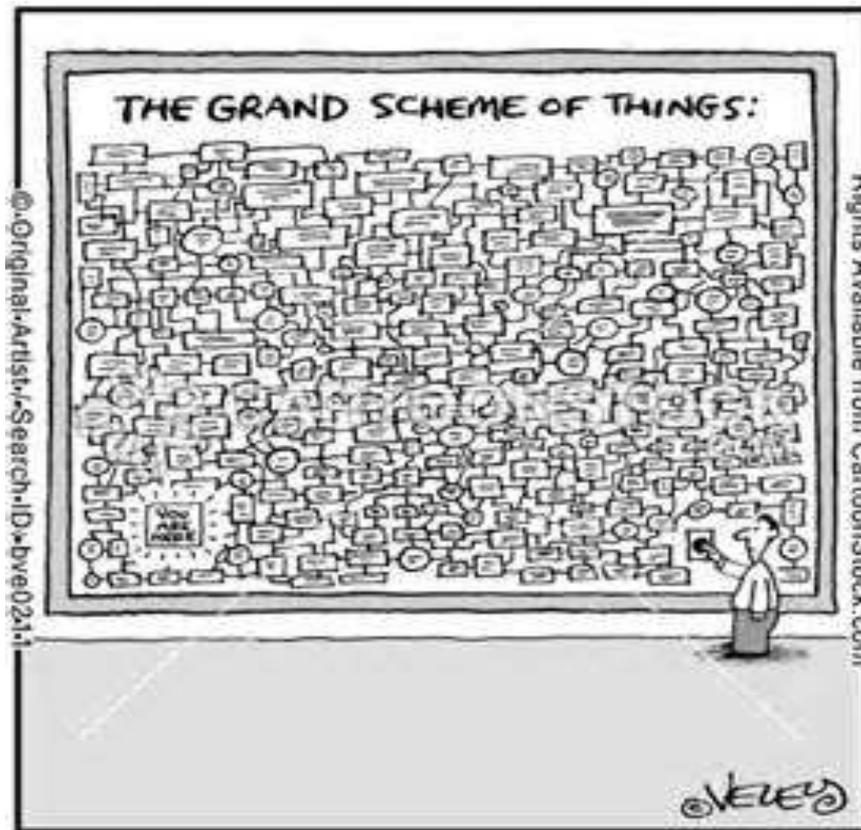
Evaluate the proposed change work in a ***practice environment***

***Minimize resistance*** at implementation



*A key driver diagram is intended to assist in identifying factors that impact outcomes, and in prioritizing actions and strategies to be undertaken to improve outcomes.*

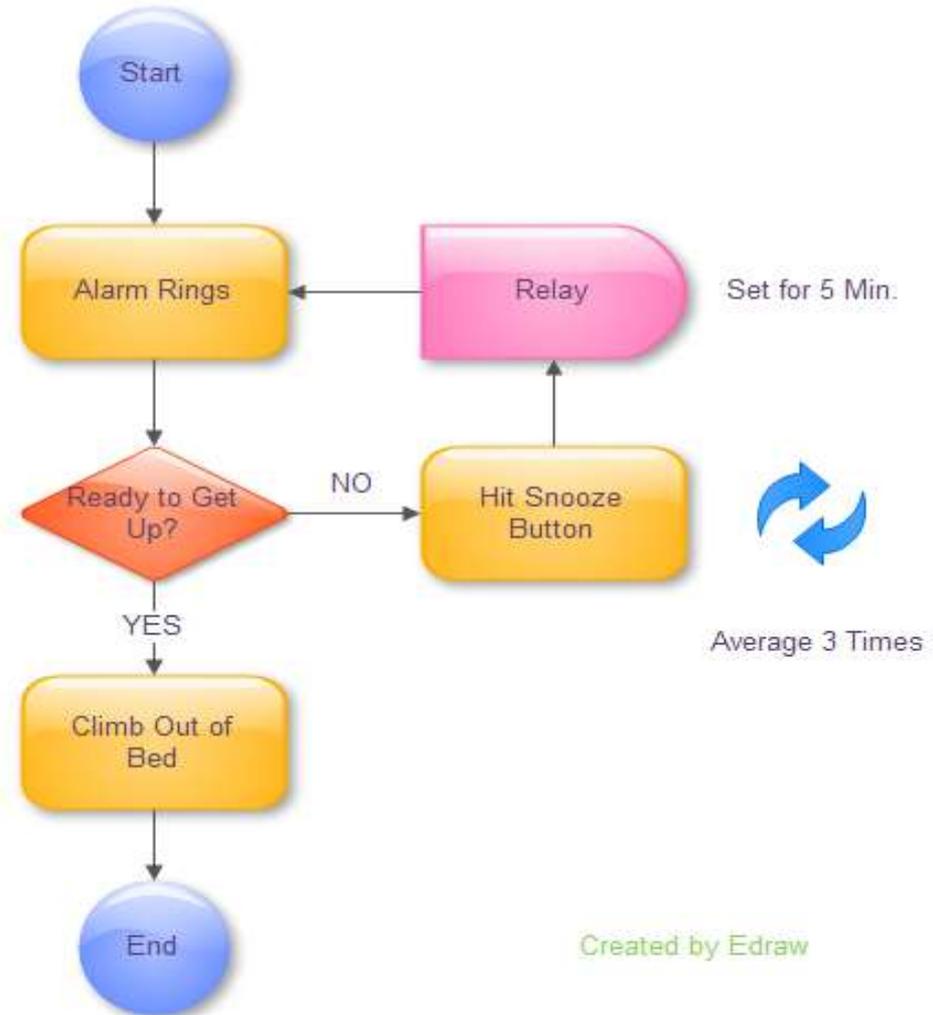
# Mapping a process & identifying stakeholders



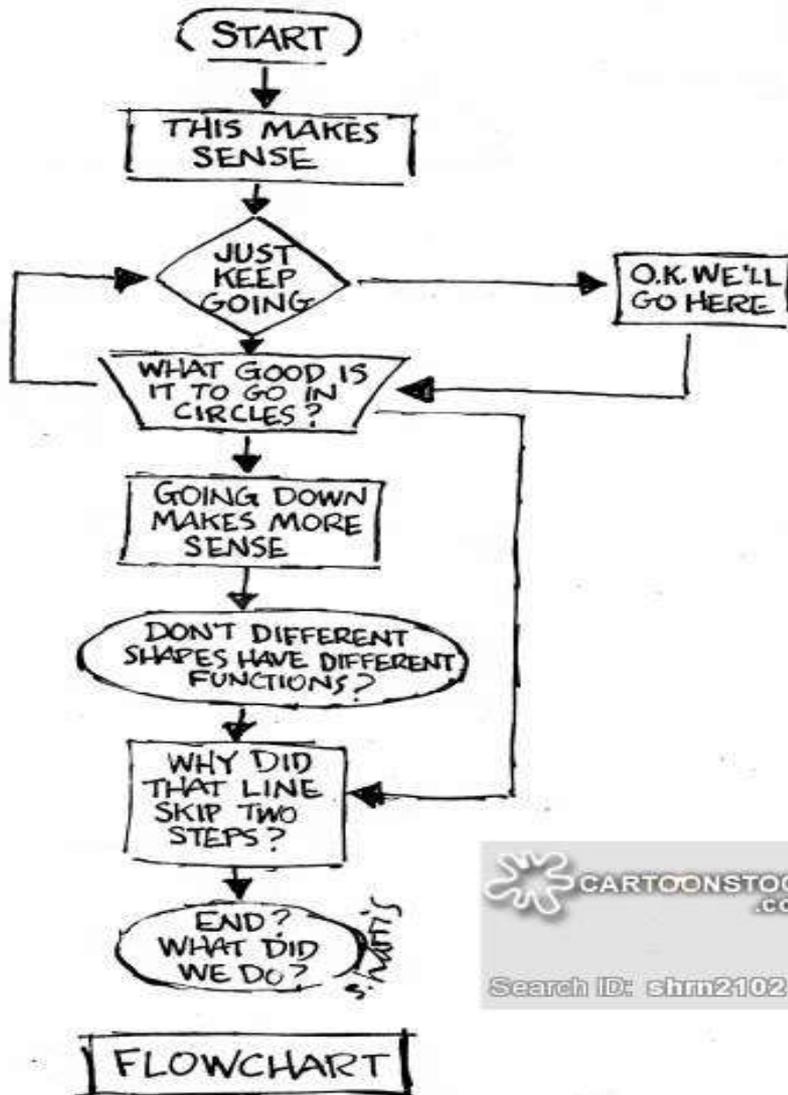
# What is a process flow map?

AKA, Flowcharts, Flow maps, Flow diagrams, Algorithms

- Tool in your toolbox
- Easy-to-understand visual model of a process
- Sequence of steps to get from “A” → “B”

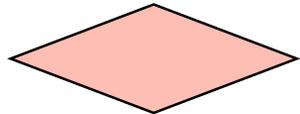
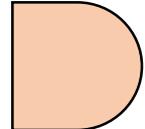


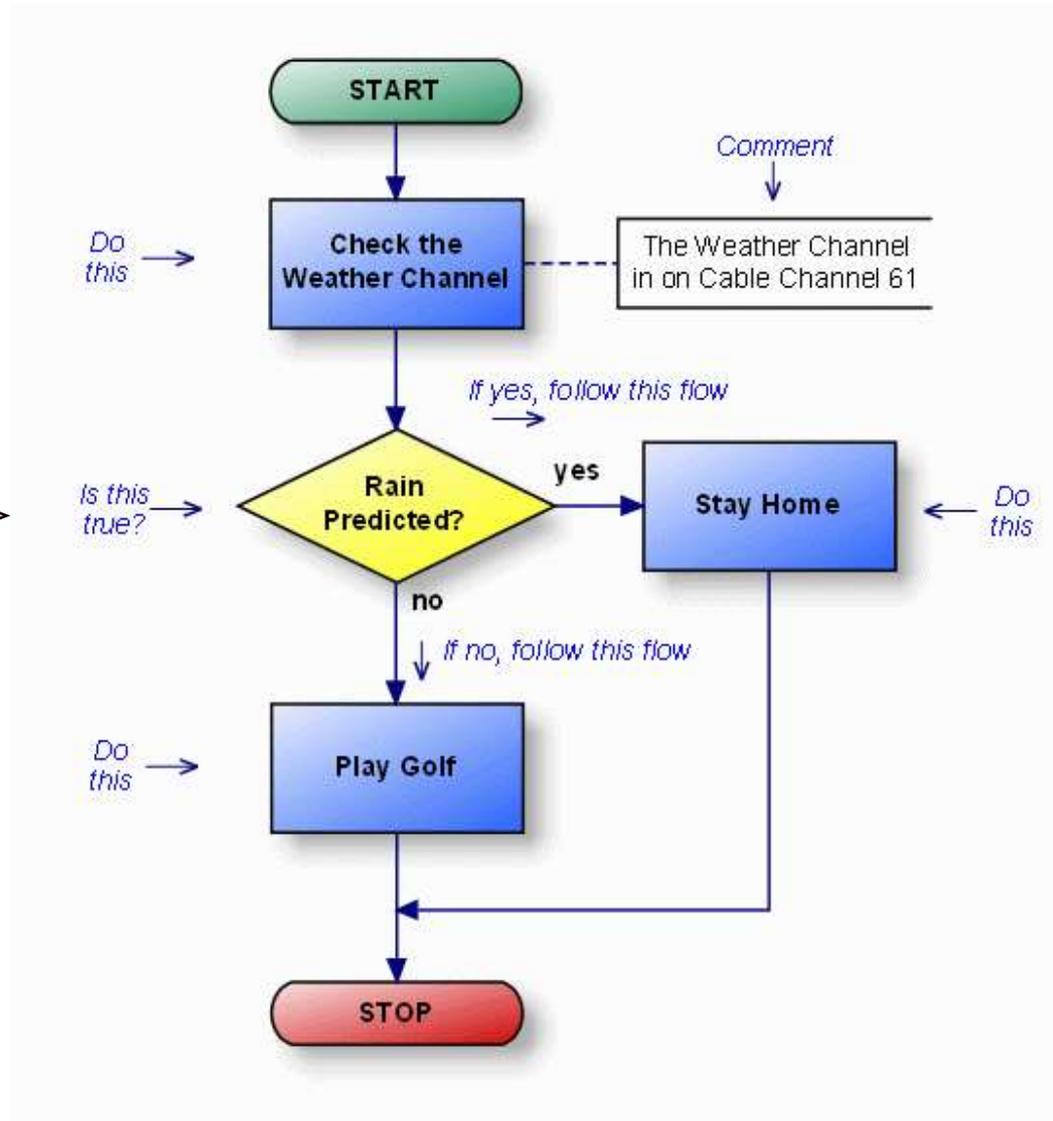
# Why use a process flow map?



- Clarify current state
  - Basis for discussion
  - Standardize a process
  - Identify key stakeholders
  - Depict roles & responsibilities
- Communicate a process
  - Clarify process for team & others
- Analyze a process
  - Opportunities, inefficiencies, bottlenecks

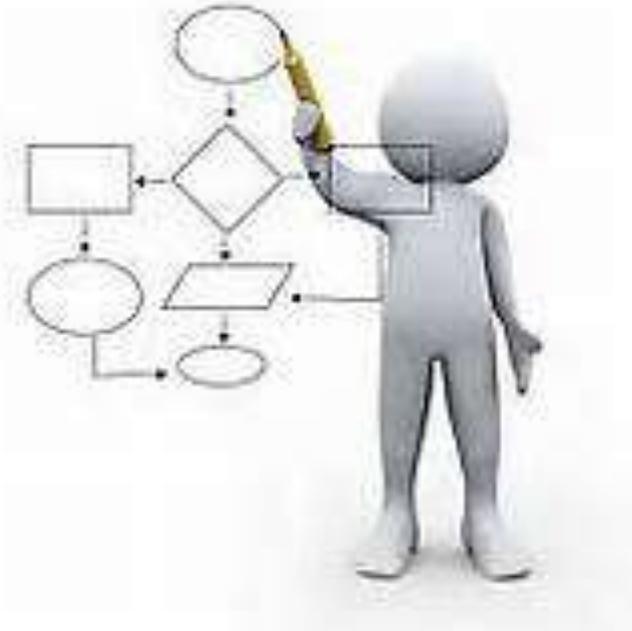
# Process map symbols

- Start/End 
- Step 
- Decision 
- Delay 
- Direction 



# Types of process maps

- Supplier-Process-Input-Output-Customer (SIPOC)



- **High-level**

- Brief overview only highlighting major events

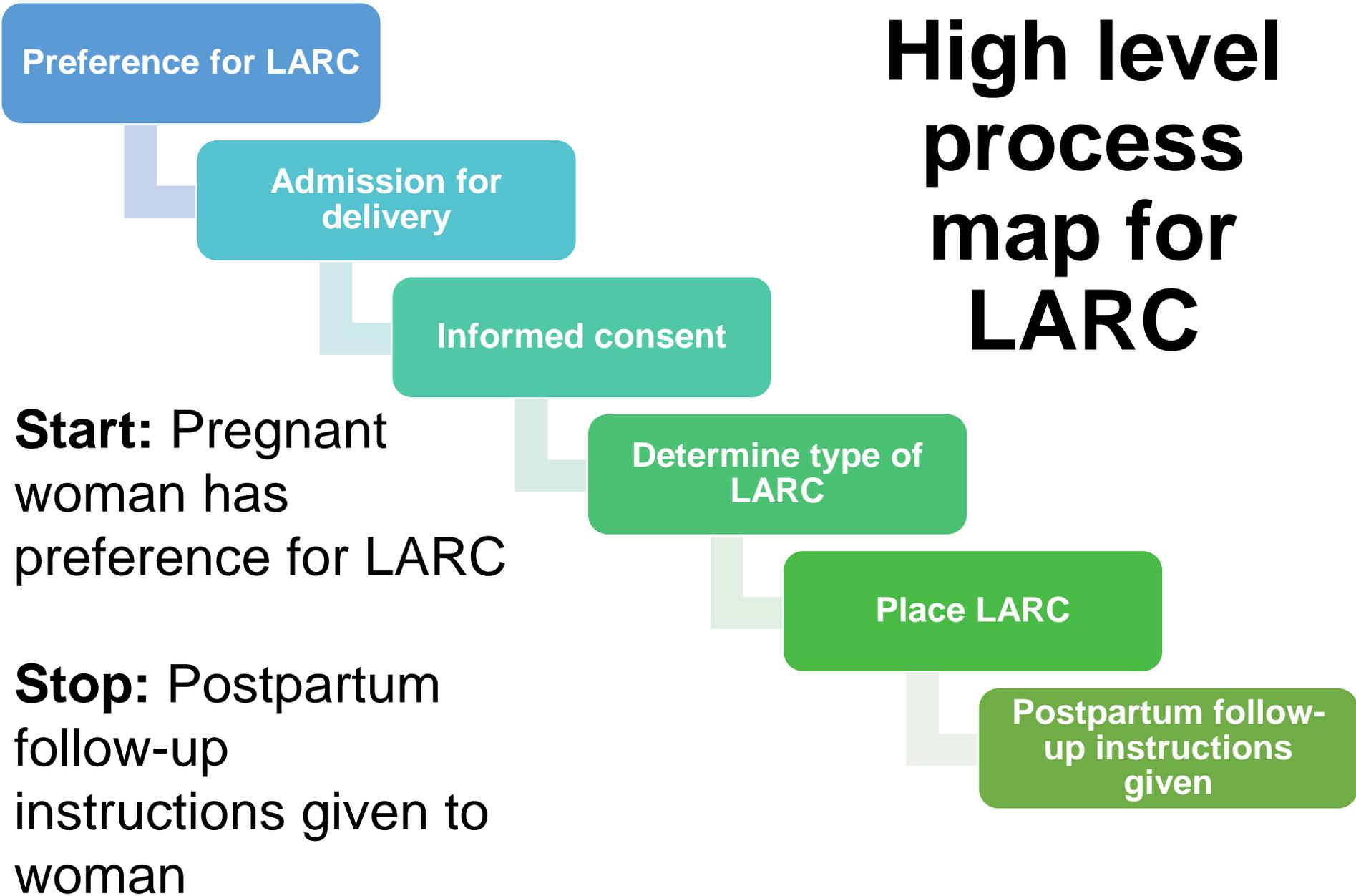
- **Detailed**

- Includes every step in a process including decision points, feedback loops, delays, etc.

- **Swim lane or cross-functional**

- Shows multiple roles across stages of process

# High level process map for LARC



# Analyzing your process map

## Look for potential areas for improvement

- Bottlenecks & delays
- Rework due to errors
- Role ambiguity
- Duplicated efforts
- Unnecessary steps
- Sources of waste
- Variation
- Hand-offs



# Useful tips

- All key stakeholders should be represented
- There is no “one right type” of process flow map
- Keep it simple & readable
  - Provide just enough level of detail
  - Complex process → break into sub-processes
- Sketch your map 1st
  - Use sticky notes or butcher paper if working in a large group
  - “Walk” or observe the process

**Map “current” (AS IS) state → “desired” state**

# High level process map for LARC

Preference for LARC

Admission for  
delivery

Informed consent

Determine type of  
LARC

Place LARC

Postpartum follow-  
up instructions  
given

2 types of LARC  
with 2 different  
processes

LARC IUD desired  
and imminent  
delivery anticipated

**Start**

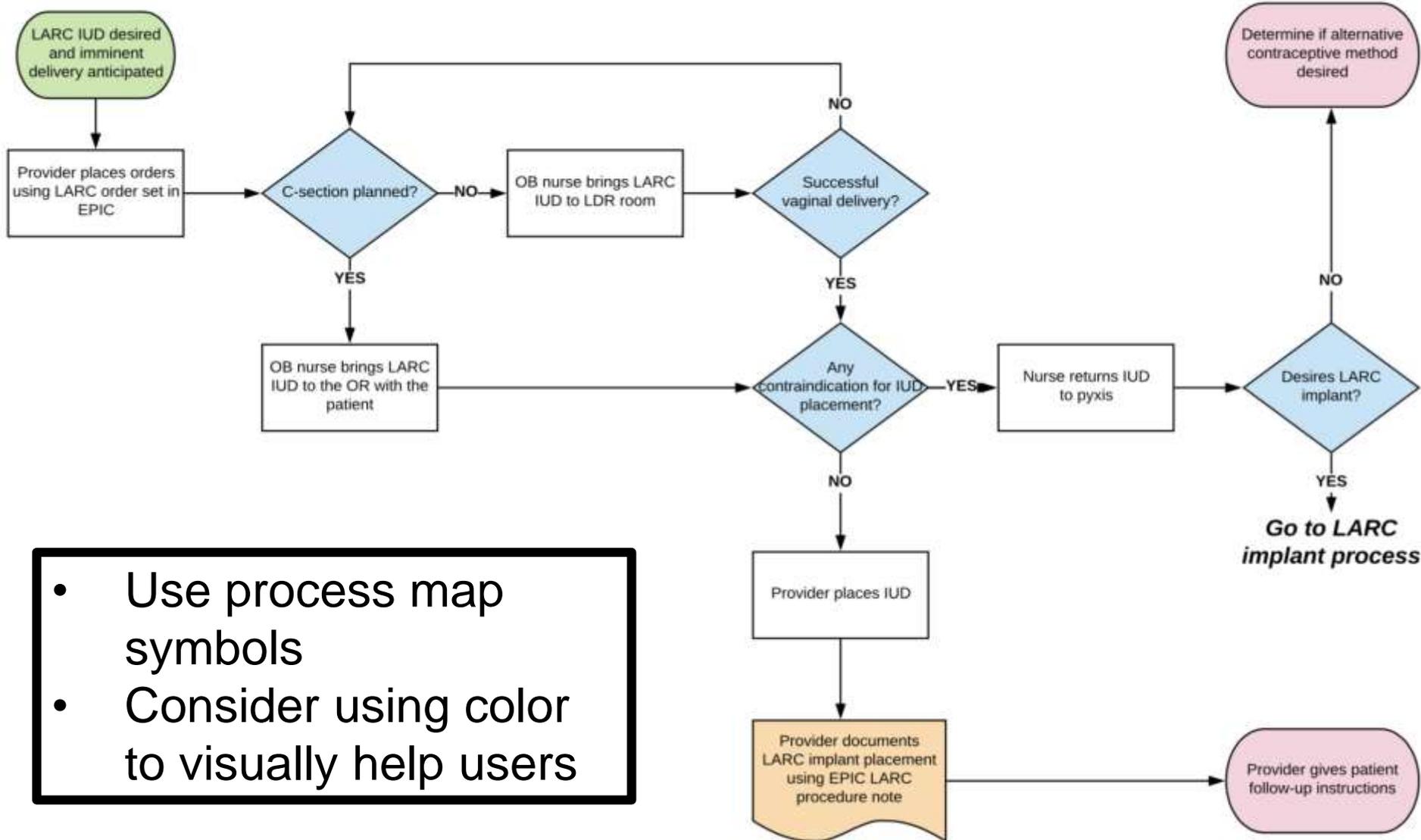
**What steps get a woman  
from **start** to **stop**?**

**Stop**

Provider gives patient  
follow-up instructions

# Access LARC - Placement of IUD

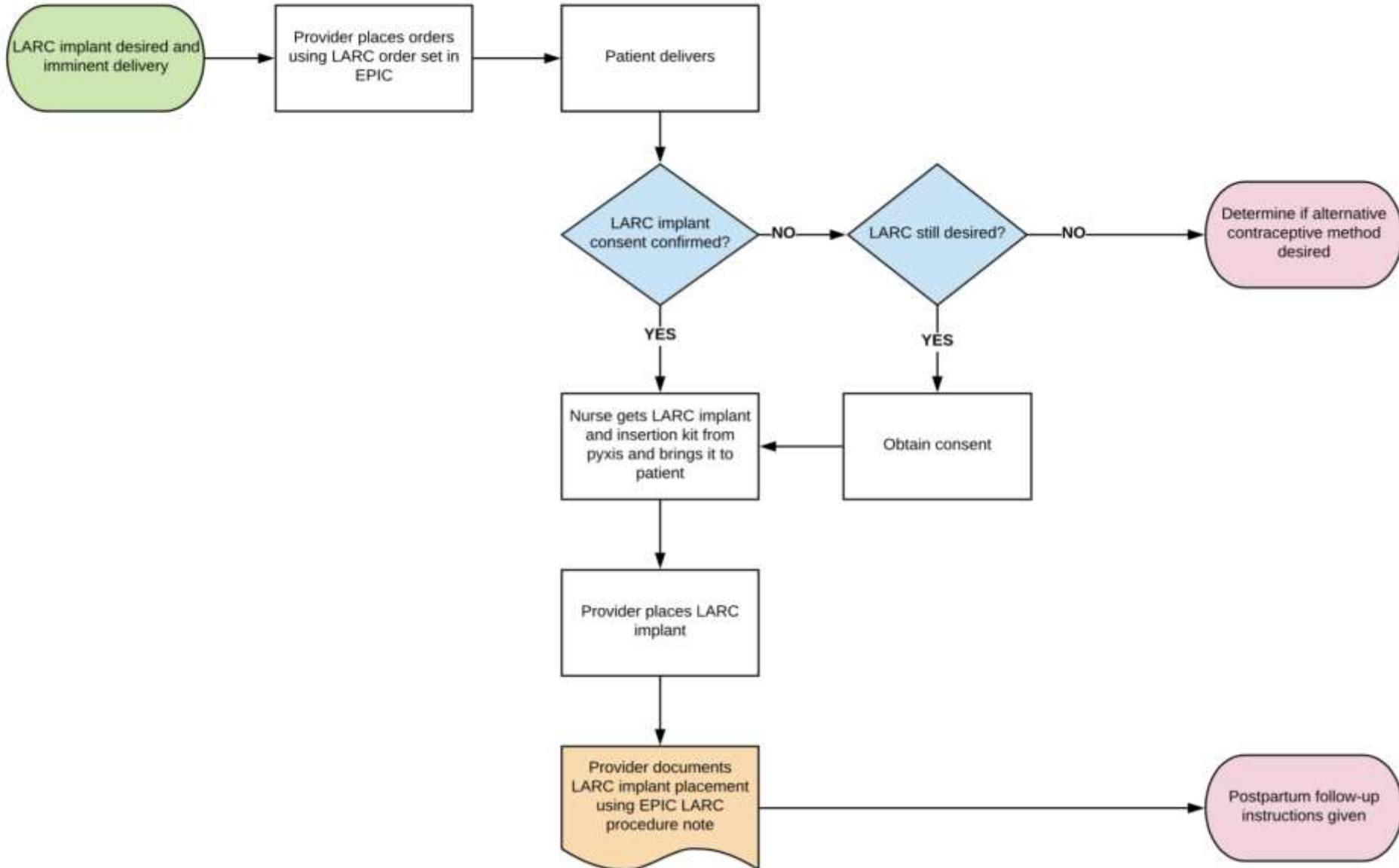
V1. 5/2018



- Use process map symbols
- Consider using color to visually help users

# Access LARC - Placement of Implant

V1. 5/2018



# Process map in Microsoft Word™ or Lucidchart

But surely they can't have it right yet, let  
alone "best", if they're still having to practise.



Aeida

# Plan-Do-Study-Act

## 1. Have an objective

- Concisely state what you plan to do
- I plan to...

**Objective of this cycle** (*What are we trying to accomplish?*):

Compliance with the proposed LARC IUD placement process in >50% of patients who desire a LARC IUD

LARC implant placement process compliance includes all of the following: consent obtained, order set used, provider note used, procedure note use, AND the follow-up dot phrase used

**What key driver does this change impact?**

Clinic, Labor and delivery, OB OR, and postpartum units are equipped to offer and perform immediate postpartum LARC insertion

# Plan-Do-Study-Act

## 2. Execute the plan



### PLAN OR DEFINE-MEASURE-ANALYZE

*What changes can we make that will lead to improvement?*

#### Describe changes we plan to test

- Identify appropriate candidates for IUD
- Identify patients with contraindications
- Implant and supplies for placement are readily available
- Informed consent is done appropriately
- LARC order set
- Standard documentation of LARC insertion procedure note
- Standardized method to ensure follow up instructions given to patients

**Who are stakeholders for this cycle?** patient, Triage and postpartum nursing staff, residents, midwives, attendings, and TGH pyxis supply people who deliver care to patients in Labor/Delivery and postpartum

# Plan-Do-Study-Act

## 2. Execute the plan

Tasks needed to implement these changes (*How will we make this change happen?*)

Task	Who is responsible <i>Consider locations the changes will affect</i>	Due date
Add preferred contraceptive to Nurse Triage checklist	Pat	7/15/18
Informational flyer outlining appropriate candidates and contraindications	Rachel	7/15/18
Develop LARC IUD supply kits	Rachel TGH pyxis supply people	8/1/18
Develop standardized EPIC provider note for LARC placement, include confirmation of informed consent	Alyssa	8/1/18
Develop standardized EPIC procedure note	Alyssa	8/1/18
Develop LARC order set	Alyssa	8/1/18
Develop standardized EPIC dot phrase for follow-up instructions	Jessica	8/1/18
Provide project update to all stakeholders re: noes, order sets, dot phrase, supply kits, and flyer	Rachel	8/1/18

# Plan-Do-Study-Act

## **Measures for this cycle** (*How will we know that a change is an improvement*)

Consider: balancing measures, measures to determine whether the prediction succeeds and your goal is achieved, how data will be collected & who is responsible for collecting data. You may find it easier to cut and paste from your measurement grid.

Task	Measure
Add preferred contraceptive to Nurse Triage checklist	% completion of checklist item on Nursing Triage checklist / # of triage patients
Develop standardized EPIC provider note for LARC placement, include confirmation of informed consent	% compliance with use of EPIC provider note for LARC placement/ # of implants placed
Develop standardized EPIC procedure note	% compliance with EPIC procedure note for LARC placement/# of implants placed
Develop LARC order set	% compliance with EPIC LARC order set/# of patients with LARC implant
Develop standardized EPIC dot phrase for follow-up instructions	Random chart review (5 charts/month) with follow up instructions in the discharge summary of patients desiring LARC implant

## **Other measures**

- # of LARC implants place
- qualitative feedback from 2 providers from each group – resident, attending, midwife, postpartum nurse
- LARC implant placement process compliance

# Plan-Do-Study-Act

## DO OR IMPROVE

*What happened when the test was conducted?*

**Was the cycle carried out as planned (yes, no)?** No

**What did you observe (i.e., qualitative feedback from the team)?**

- Nurse feedback revealed that this took less time than they anticipated and were happy with the kits, once they were readily available and complete.
- Residents complained that attendings were not readily available for insertions.
- All providers were unhappy with the length of the provider note, so the note is being revised.

**What did you observe that was not part of the plan?**

- It took much more time to have the EMR requests fulfilled. Need to plan more time for this if further EMR requests are made.
- We needed to reset the par level for LARC implant kits in postpartum as we ran out in the 1<sup>st</sup> two weeks
- We forgot to include Kerlex in the LARC kits, so kit contents were updated.
- Providers frequently forgot the follow-up instructions dot phrase. We had to review LARC implant placements daily for 2 weeks at morning sign-out which improved compliance.

# Plan-Do-Study-Act

## STUDY OR CONTROL

*Did the measured results and observations meet your objective?*

**Was your goal achieved** (yes, no)? No

We achieved only 30% compliance with LARC implant placement process. The design of our cycle was ineffective because the necessary equipment was not available initially, EMR tools not available until mid-July, EMR tools were not effectively utilized by providers. We have noticed significant improvement in last 2 weeks and intend to continue our efforts.

**How do results of this test compare to previous performance?** NA

If YES

- **Do you plan to expand the test** (yes, no)?
- **Will you expand the scale** (i.e., keep the same conditions, just test more)?
- **Will you expand the scope** (i.e., change the conditions)? No
- **Will you expand the scale and scope** (i.e., change locations/units and conditions)? No

If NO

- **What data do you have to distinguish if your method of testing the change failed or if the designed change was not effective?** Design was not effective.

**Were there any barriers with the cycles' implementation** (yes, no)? Yes. Delays in having equipment available and EMR tools effectively utilized.

**What else did you learn?**

- When EMR tools are needed for a cycle, place a ticket for these items with at least 2 month's notice.

# Plan-Do-Study-Act

**Refine next cycle** based on what was learned

## **ACT OR CONTROL**

*Decide to Abandon, Adapt, or Adopt?*

	<b>ABANDON:</b> Discard change idea testing. Describe what you will change.
<b>x</b>	<b>ADAPT:</b> Improve the change & continue a larger scale. Develop an implementation plan for sustainability.
	<b>ADOPT:</b> Select changes to implement on & try a new one

Continue to provide direct feedback to providers who are noncompliant with the process and further refinement of the provider documentation.

# Keep in mind

- **Scale down scope of tests**



# Keep in mind

- Scale down scope of tests
- **Pick willing volunteers**

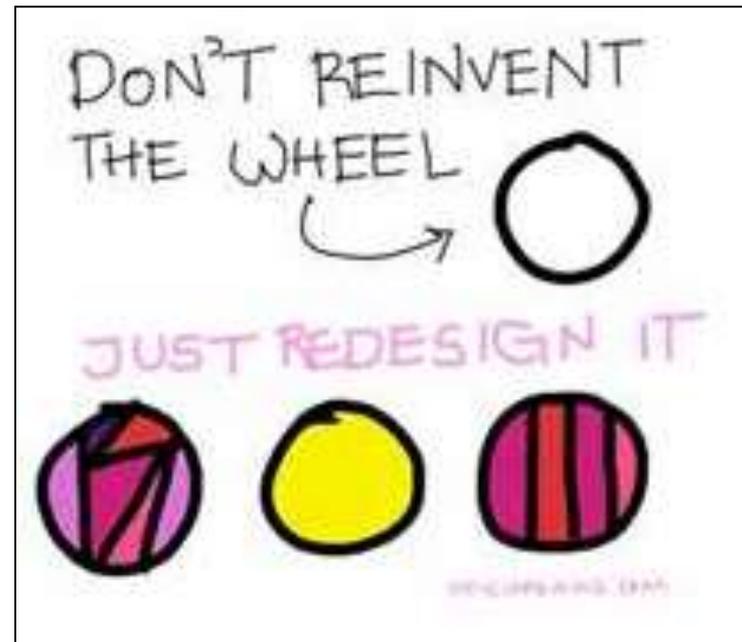


# Keep in mind

- Scale down scope of tests
- Pick willing volunteers
- **Choose changes that don't require long process for approval initially**

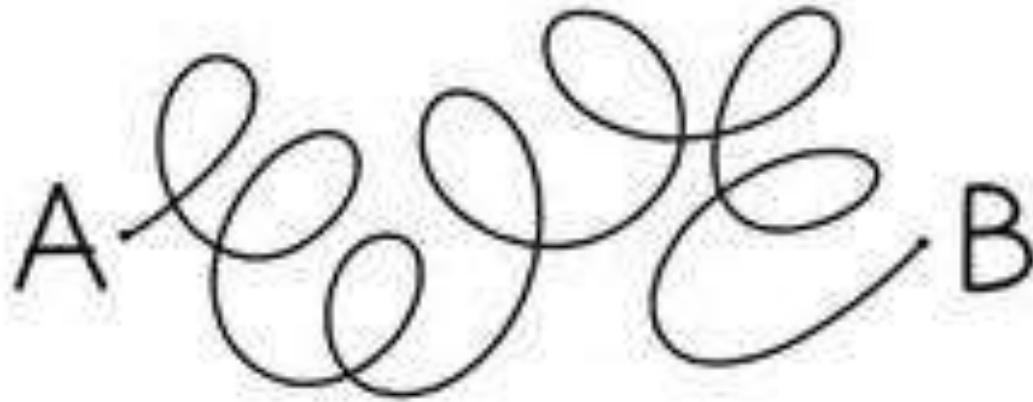
# Keep in mind

- Scale down scope of tests
- Pick willing volunteers
- Choose changes that don't require long process for approval initially
- **Don't reinvent the wheel**



# Keep in mind

- Pick easy changes with good yield



# Keep in mind

- Pick easy changes with good yield
- **Avoid technical slow downs**

# Keep in mind

- Pick easy changes with good yield
- Avoid technical slow downs
- **Reflect on results of EVERY change – even failures**



# Keep in mind

- Pick easy changes with good yield
- Avoid technical slow downs
- Reflect on results of EVERY change – even failures
- **End the test if there is no improvement**





Partnering to Improve Health Care Quality  
for Mothers and Babies

# ***WHAT QUESTIONS DO YOU HAVE?***

If you have a question, please enter it in the Question box or Raise your hand to be un-muted.

We can only unmute you if you have dialed your Audio PIN (shown on the GoToWebinar side bar).



**THANK YOU!**

Technical Assistance:  
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Partnering to Improve Health Care Quality  
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