# Continuous Quality Improvement (CQI) for MIECHV



FY2018 State CQI Project Kick-off: Safe Sleep

January 25, 2018

#### **Model for Improvement**

What are we trying to accomplish?

How will we know that a change is an improvement?

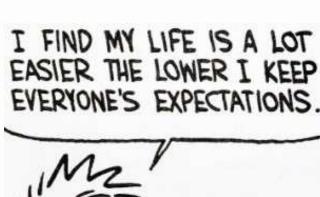
What change can we make that will result in improvement?

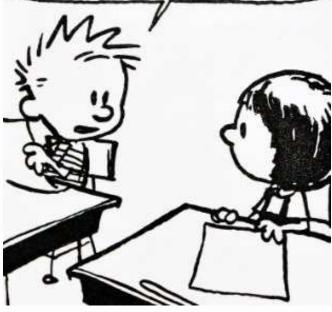




## **Expectations from participants (registration survey)**

- Better understanding of statewide CQI project on safe sleep
- Clear, concise session
- how to help families to better understand importance of safe sleep
- Get everyone "on the same page"
- Learn new information that can be directly applied
- Clear guidelines and roles for engaging in CQI processes







#### Logistics and expectations for today

#### **Expectations**

- Phones on silent
- All teach all learn
- Steal shamelessly
- Take health/snack breaks as needed
- Ask questions as we go;
   use Parking Lot as needed
- Feedback and Evaluation

9:45 – 11:45	CQI Statewide Plan Kickoff
11:45 –	Break and lunch
1:45	(Speaker)
1:45 –	CQI Statewide
3:45	Plan Kickoff,
	continued
3:45 –	Final
4:00	Announcements
	and Closing



#### 2018 Statewide CQI Kick-off

## GOAL: Participants will leave the session having completed most of the prep work for the PLAN stage of a CQI project

Ag	enda	Ob	jectives
1.	Welcome and Overview	1.	Generate excitement for CQI and the topic of safe sleep
2.	Appreciative Inquiry Activity	2.	Utilize program-level data to identify opportunities for improvement
3.	State CQI Project and PDSAs	3.	Identify root causes, opportunities and change strategies for increasing
4.	Developing PLAN		caregiver safe sleep practices
	stage of your CQI project	4.	Develop AIM statements and identify possible measures and data collection methods



## Appreciative Inquiry





#### **Appreciative Inquiry - interviews**



- Pair up with someone from a different LIA whom you have never met
- Take turns asking:

"Please tell a story about a time when you worked on a challenge with a home visiting client and you are proud of what you accomplished. What is the story and what made the success possible?"

- 3 minutes for each person
- Will share elements of success back to larger group



#### **Appreciative Interviews- Debrief**

- What made success possible in the story your partner shared?
- How can we take these elements of success and apply them to CQI? To the topic of safe sleep?





#### Safe Sleep

### STATE-WIDE CQI PROJECT



# FY2018 State CQI Project on Safe Sleep: Objectives

By the end of FY 2018, CQI teams will be able to:

- Establish aims that are measurable and time-bound
- Identify data that can be collected at least monthly
- Create and use measures to track progress towards achievement of aims
- Conduct multiple PDSA cycles, including small rapid cycles (1 day, 1 HV, 1 client)
- Use time series charts to track results
- Share project successes and challenges with peers



#### Statewide CQI Project Structure

- All-LIA kick-off meeting
- PDSA tracking forms
- Learning Collaboratives
- CQI Newsletters
- Quarterly benchmark data reports
- Basecamp website





#### **Participant Expectations**

- Participate in the Safe Sleep CQI project
  - kick-off meeting, learning collaboratives, quarterly webinars, submitting PDSA updates
- Home visitors are part of the CQI team
- "All teach, all learn"
- "Share seamlessly, steal shamelessly"



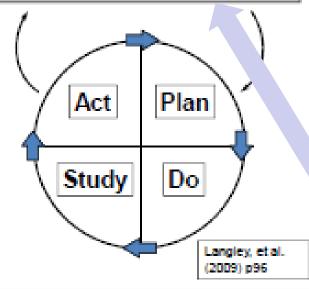
#### FY2018 State CQI Project: Safe Sleep

#### /Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?



Oregon MIECHV-funded programs will increase the percent of infants under the age of 1 who are always placed to sleep on their backs, without bed-sharing or soft bedding from 18.3% to 25% by September 30<sup>th</sup>, 2018.

- % of infants ages 0, 3- and 6-months who are always placed to sleep on their backs, without bed-sharing or soft bedding
- % of infants under the age of 1 (overall) who are always placed to sleep on their backs, without bed-sharing or soft bedding

To be determined by LIA programs



# CDC MMRW: Vital Signs Report on Safe Sleep Practices for Babies (Jan 9, 2018)

- Pregnancy Risk Assessment Monitoring System (PRAMS): population-based data on self-reported pre and post-natal maternal behaviors and experiences
  - Oregon Health Authority's MCH section houses PRAMS

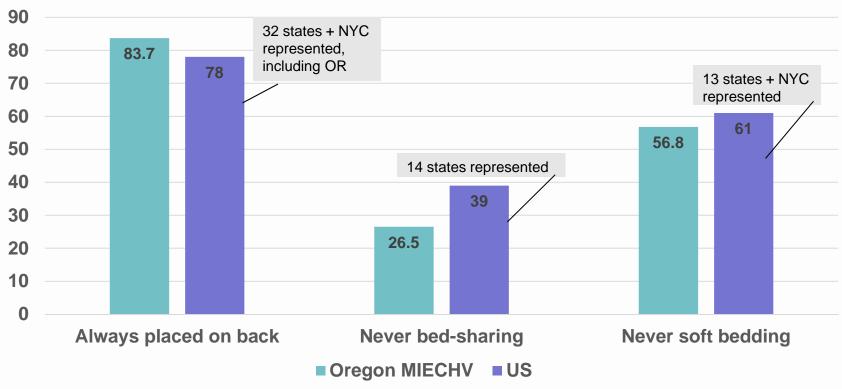
#### In 2015, within the 32 states included in the analysis:

- 21.6 percent reported placing baby to sleep on side or stomach; 61.4 percent reported any bed sharing with their baby; 38.5 percent reported using any soft bedding in the baby's sleep area
  - Women surveyed 2-6 months postpartum



# Safe sleep data from Oregon MIECHV Program (2017) vs National PRAMS Data (32 states + NYC reporting, 2015)

#### **Infant Safe Sleep Practices (%)**



Source: MMRW. Vital Signs: Trends and Disparities in Infant Safe Sleep Practices — United States, 2009–2015. Jan 9,2018. Vol.67.







#### Data Collection, Definitions and Terminology

## **SAFE SLEEP**



# How are we Expected to Collect MIECHV Safe Sleep Data?

- Ensure HVs are consistently using AAP definitions
- Ensure caregiver has same understanding of definition of safe sleep terms (e.g. "soft bedding," "bed-sharing," co-sleeping," "room sharing")
- Ask questions verbatim or as part of natural conversation
- Avoid filling in based on observation or memory without verbal inquiry to confirm



# Acknowledge Complexities with Data Collection...

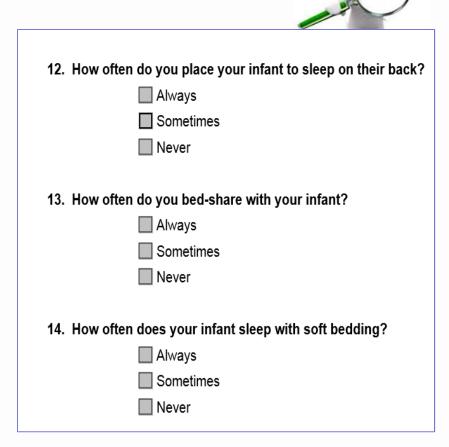
#### Infant sleep is complex!

- Infants sleep in different places, at different times of day, in different physical environments(e.g. falling asleep in car seats, baby carriers, high chairs etc.)
- Data collection using absolutes (E.g., "Always, Sometimes, Never") is difficult and doesn't capture these complexities
- Accept that there will always be some level of survey response bias; focus on relationship, trust, honesty



#### ...And Focus on What You Can Control

- Use of the same definitions by all HVs
- Asking the data collection questions in a similar way across home visitors
- Ensuring caregivers are using the same definitions you are using
- Ensure data is not missing





### **Definitions: Infant Sleep Locations**

Cosleeping

 parent and infant sleep in close proximity (on the same OR different surfaces)

Bedsharing  a specific type of co-sleeping, with infant sleeping on same surface with another person

Roomsharing • infant sleeps in the narents' room

can include a bed, sofa, or chair

infant sleeps in the parents' room but on a separate sleep surface



### **Definitions: Soft Bedding**

Soft bedding

- Soft mattresses
- Pillows
- Blankets, comforters, quilts, other loose bedding such as non-fitted sheets
- Sheepskins
- Bumper pads
- Stuffed toys
- Infant positioner



#### **Overlapping Terminology**

#### **Sleep Location**

- Room-sharing
- ? Separate surface
- No couches or armchairs

#### **Sleep Surface**

- Firm mattress
- Fitted sheets
- Meets safety standards (CPSC)
- No soft bedding

#### No soft bedding

- Soft mattresses
- Pillows
- Blankets, comforters, quilts
- Other loose bedding (e.g. non-fitted sheets)
- Sheepskins
- Bumper pads
- Stuffed toys
- Infant positioner



#### **Model for Improvement and PDSA**





What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

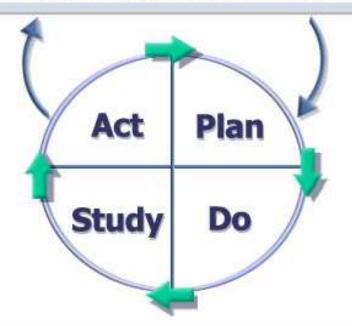




What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?



An aim that is:

<u>Specific,</u>

<u>Measurable,</u>

<u>Actionable,</u>

<u>Realistic,</u>

<u>Time bound</u>

#### **EXAMPLE OF A SMART AIM:**

Oregon MIECHV-funded programs will increase the percent of infants under the age of 1 who are always placed to sleep on their backs, without bed-sharing or soft bedding from 18.3% to 25% by September 30th, 2018

Source:

Langley, G. J. (2009). *The improvement guide: A practical approach to enhancing organizational performance.* San Francisco: Jossey-Bass.



What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement? A measure, directly tied to the aim, to be collected regularly



#### **EXAMPLES OF MEASURES:**

% of infants ages 0-3, 3-6 and 6-12 months who are always placed to sleep on their backs, without bed-sharing or soft bedding

Source:

Langley, G. J. (2009). *The improvement guide: A practical approach to enhancing organizational performance.* San Francisco: Jossey-Bass.



What are we trying to accomplish?

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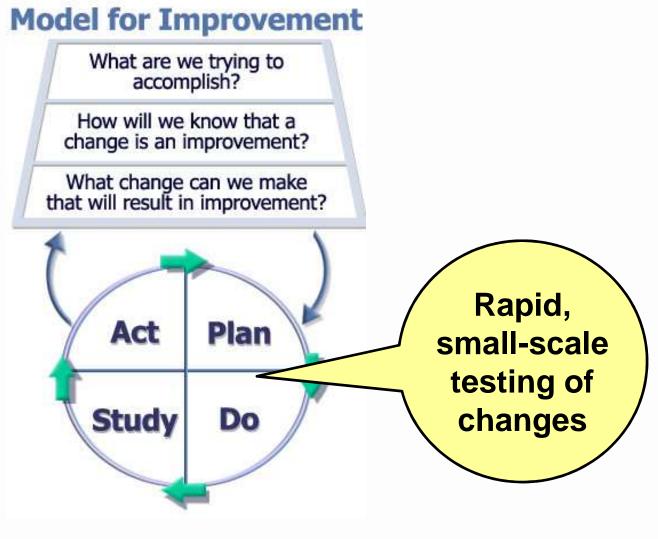


- Your data
- HV assessments
- Literature/Research
- Team expertise
- What has been done elsewhere?
- QI Tools
- HV Models
- Peer sharing

Source:

Langley, G. J. (2009). *The improvement guide: A practical approach to enhancing organizational performance.* San Francisco: Jossey-Bass.





#### Source:

Langley, G. J. (2009). *The improvement guide: A practical approach to enhancing organizational performance.* San Francisco: Jossey-Bass.



#### Plan-Do-Study-Act (PDSA)

- Also known as Plan-Do-Check-Act (PDCA)
- Four stages, nine steps
- Used by quality professionals & health care professionals
- Science based and data driven: Hypothesize (plan), experiment (do), evaluate (study/act)
- Iterative (a repeating cycle)
- Turns ideas into action and connects that action to learning



#### The PDSA Cycle

#### **Act**

Next cycle:

- Adapt?
- Abandon?
- Adopt?

#### Plan

- Objective
- Questions and predictions (why)
- Plan to carry out the cycle (who, what, where, when)

#### **Study**

- Compare data to predictions
  - was learned

- Complete the Carry out the plan
- analysis of the data Document problems and unexpected observations
  - Summarize what Begin analysis of the data



#### Why Test our Changes?

- Risk & cost reduction Opportunity to learn without severely impacting performance or using many resources
- Increase (or decrease) your belief that the change will result in improvement
- Learn to adapt change to other conditions and your environment
- Gain buy-in for the change this will make it easier when you are ready for implementation!



### Why use Small Tests?

| Test Failed **Major Disaster Zone** Consequences **Minor** √ Small Size of your Test Large **Public Health Division** 

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### **PDSA Cycles**

## Keep it small and fast!

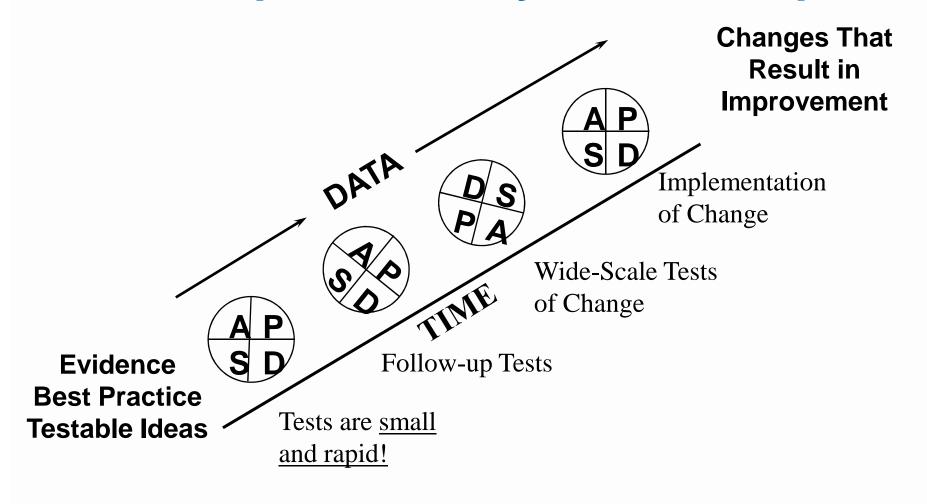
- One family
- One visit
- One day
- One home visitor





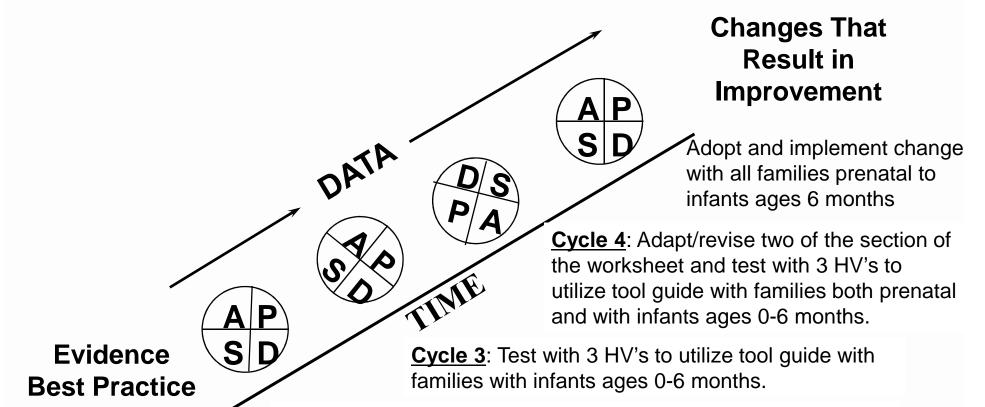


### Multiple PDSA Cycles = Ramp





## Multiple PDSA Cycles = Ramp



needed adaptations and gauge effectiveness.

**Testable Ideas** 

**Cycle 1**: CQI team develops safe sleep plan worksheet with 2 HV's to help caregivers plan for safe infant sleep when their infant is with child care or other caregivers

**Cycle 2:** Presented worksheet to entire HV team to discuss

		ALL of 3 safe slo me					
eporting period		Yes- ALL conditions met	No- Not met	Total number of surveys			
FFY 2017, Quarter 1 (10/1/2016 - 12/31/2016)	1	32 <b>16.0%</b>	168 84.0%	200			
(7/1/2017	Dregon MIECHV Home Visitor Safe Sleep Assessment - HS of Yamhill Co.						
Visitor knowled	ge, practices and	d beliefs related to safe sleep	and the safe sleep practice	sment is to learn more about l s of their clients. Your respon ur CQI project by helping to i			



# Examining your Current Approach PLAN STAGE



#### PDSA - Plan Stage

- Step 1: Getting Started
- Step 2: Assemble the Team
- Step 3: Examine the Current Approach
- Step 4: Identify Potential Solutions
- Step 5: Develop an Improvement Theory







### PLAN Stage Step 3: Examining the Current Approach

- Obtain and analyze <u>existing baseline data</u>, or collect baseline data to understand current approach
- > Examine the current approach or process flow
- Obtain stakeholder/client input
- Determine root cause(s) of problem
- Develop smart aim statement
  - ➤ What are we trying to accomplish?
  - ➤ How will we know that a change is an improvement?
  - What change can we make that will result in improvement?

Safe Sleep Data

 HV Safe Sleep Assessments



### **Emerging Themes from HV Safe Sleep Assessments**

#### Safe Sleep Data Collection and Training

- Personal beliefs and experiences do impact discussions
- Need for safe sleep trainings, including definitions and collecting data
- Desire for handouts and visual aids, and in multiple languages
- Want to know more about safe sleep:
  - MI for bed-sharing and risk reduction strategies; research and statistics; why different safe sleep practices are unsafe; sleep options when parents don't have other sleep surface available; culturally responsive dialogues



#### **Emerging Themes from HV Safe Sleep**

**Assessments** 

#### Client risks and barriers

- Greatest risk factors:
  - Soft sleep surface and use of soft bedding
  - Routinely putting infant to sleep in car seat, stroller etc.
  - Bed-sharing with caregivers
  - Too many blankets/clothes
- Barriers:
  - Economic factors
  - Cultural norms, beliefs and values
  - Parents having used similar practices with previous children

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#### **Questions LIA CQI teams raised from Safe Sleep Data review document**

		ALL of 3 safe slo me		
eporting period		Yes- ALL conditions met	No- Not met	Total number of surveys
FFY 2017, Quarter 1	Count	32	168	200
(10/1/2016 - 12/31/2016)	96	16.0%	84.0%	
Quarter 2	Count	55	223	278
(1/1/2017 - 3/31/2017)	%	19.8%	80.2%	
Quarter 3	Count	57	238	295
(4/1/2017 - 6/30/2017)	%	19.3%	80.7%	
Quarter 4	Count	30	149	179
(7/1/2017 - 9/30/2017)	%	16.8%	83.2%	
FFY 2017, Total	Count	174	778	952
(10/1/2016 - 9/30/2017)	%	18.3%	81.7%	

- Do parents really understand the questions/terms?
- What qualifies as soft bedding for the purposes of MIECHV data?
- Can we look at data by home visitor?
- Can we view data by ethnicity to see if there are cultural differences?
- Does this data take into account forms home visitors may not have turned in?



### Team Activity: Examine Safe Sleep Data and HV Safe Sleep Assessments

- Review your safe sleep data and HV Assessments – 20 minutes
- Assign note-taker
- Answer the following questions:

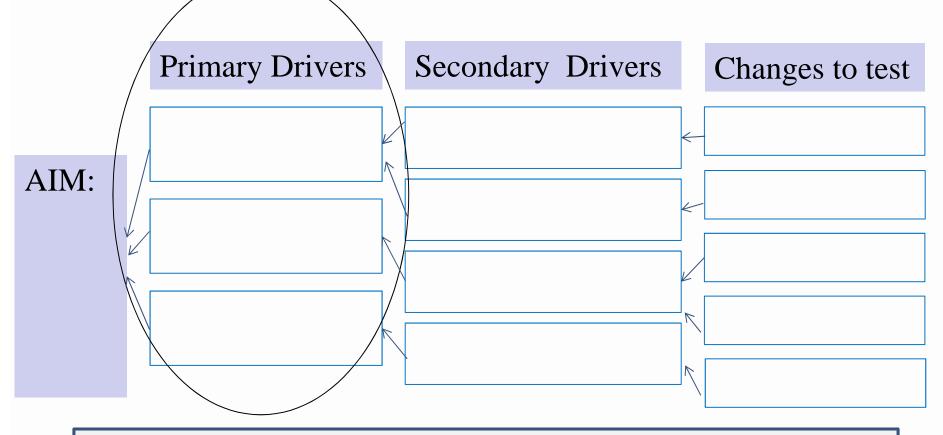


- 1. What are the greatest safe sleep risk factors and barriers identified in the HV Assessment?
- 2. What HV training, materials or resources are needed?
- 3. How is safe sleep data collected?
- 4. Based on your safe sleep data, what infant ages and safe sleep component(s) have the greatest opportunity for improvement?

# Driver Diagram Template AIM PRIMARY DRIVERS SECONDARY DRIVERS CHANGE IDEAS Primary driver Secondary driver Dangs doe Primary driver Dangs doe

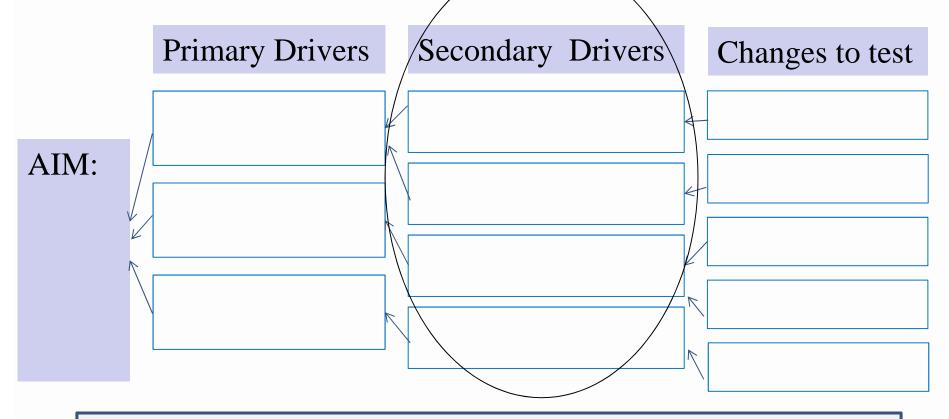
#### A KDD:

- Organizes the "theory behind improvement" for a specific aim
- Connects the aim/desired outcome with the interventions to create a "Learning Structure"
- Helps focus the selection of changes to test
- Provides a common mental model for a team
- Provides a living document for improvement work which is continuously updated and tells "the story" (along with data chart(s))



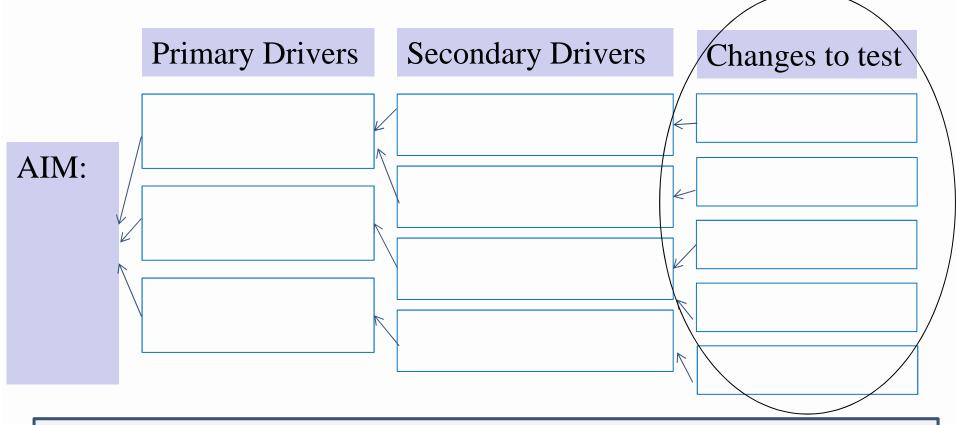
Primary Drivers: factors which contribute directly to achieving the aim





Secondary Drivers: components necessary to achieve the primary drivers





Changes that can be tested in order to affect the primary and secondary drivers



#### Safe Sleep Key Driver Diagram

#### Oregon FY 2018 MIECHV Statewide CQI Project: Safe Sleep Key Driver Diagram

Primary Driver WHAT

Secondary Driver



Change Ideas



AIM

Oregon MIECHV-funded programs will increase the percent of infants under the age of 1 who are always placed to sleep on their backs, without bedsharing or soft bedding from 18.3% to 25% by September 30th, 2018

Active
endorsement of
evidence-based
guidelines for
infant safe sleep,
including
promoting
breastfeeding in a
safe sleep
environment

Infant caregivers have knowledge, skills and selfefficacy to practice safe sleep for every sleep

Activated community champions of safe sleep Home Visitors are knowledgeable about safe sleep recommendations

Home Visitors are skilled in clientcentered safe sleep discussions

Home Visitors have access to and use appropriate safe sleep and breastfeeding resources facilitators and materials

Hospitals and PH organizations have safe sleep staff training and educationa materials to support safe sleep recommendations

Caregivers receive individualized and culturally responsive safe sleep education

Targeted outreach and strategies provided for caregivers experiencing situations that place their infants at high risk (e.g. homelessness, substance use, smoking)

Reduction of economic barriers to

Caregiver's family, social networks and child care providers support safe sleep and breastfeeding practices

Safe sleep behavior is understood and championed by trusted individuals and groups who are influential to mothers and other infant caregivers

Safe sleep messaging is reinforced in community settings

Utilize local data to highlight "bright spots" or areas of positive change

Home Visitor trainings on safe sleep recommendation and client-centered safe sleep discussions

Utilize or adapt existing safe sleep educational materials and photos

Partner with hospitals, prenatal and pediatric providers, WIC etc. to conduct staff training and provide education to support safe sleep and breastfeeding

Ensure mothers who choose to breastfeed know options for successfully maintaining breastfeeding that are consistent with safe sleep practices

Utilize culturally responsive educational materials

Address caregiver concerns, misconceptions and misinformation around safe sleep practices

Failor safe sleep messaging around risk factors that are present for the client

Create standardized Infant Safe Sleep plans for Home Visitors to develop with caregivers

Provide (or partner with organizations to provide) safe sleep surfaces (crib, pack n' play etc.) and infant sleep sacks

Jtilize checklists for safe infant sleep and breastfeeding support in childcare settings

Engage caregivers and their communities in designing safe sleep messaging

Partner with faith communities, tribal elders, community elders and others on safe sleep messaging in the community

Data on safe sleep, including infant mortality data at the county level, is collected and shared through public health messaging and campaigns

Global Aim: Reduce Infant Mortality due to SUIDS in Oregon



# Team Activity: Identify Primary and Secondary Driver to focus on for CQI PDSA

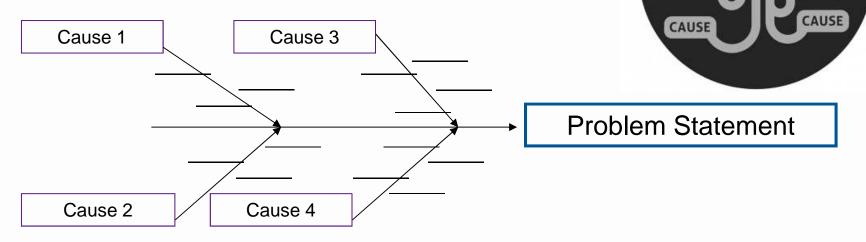
- Based on your review of the current approach...
- Identify what opportunity for improvement you might like to focus on, then...
- Select a primary and secondary driver from this KDD that the opportunity you have identified best fits into



10 minutes



## PLAN Stage Step 3: Examining the Current Approach – Root Cause Analysis



- > Focuses on the cause, rather than the symptom
- Identifies and displays multiple potential root (true) causes for a problem
- Can also be used to identify solutions
- Goal is to prevent problem from reoccurring

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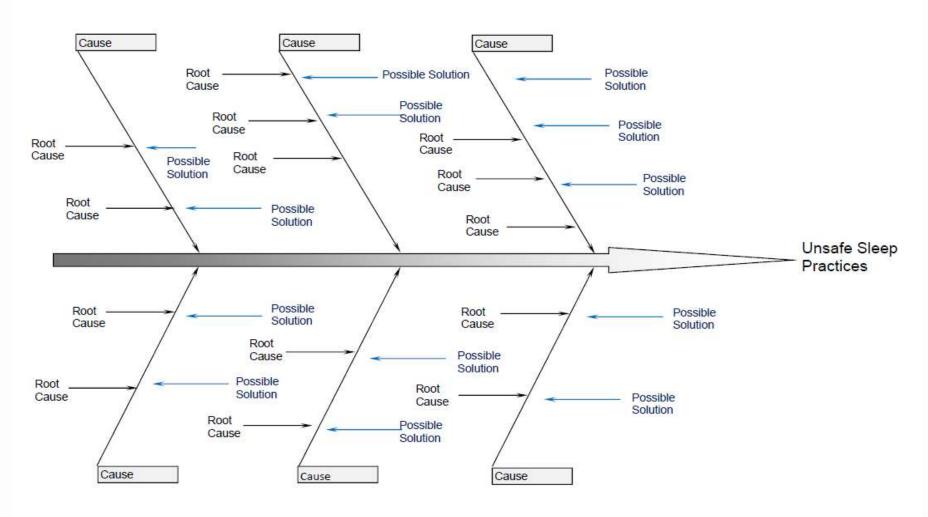


SYMPTOMS

**PROBLEM** 

CAUSE

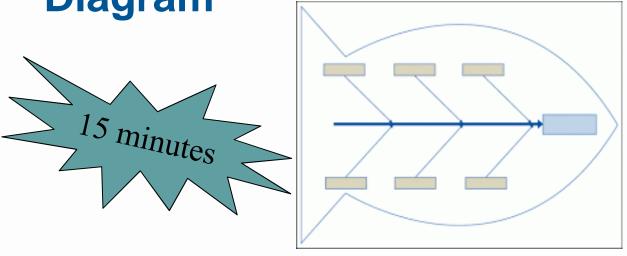
#### **Root Cause Analysis: Fishbone Diagram**





Team Activity: Creating a Fishbone

Diagram





- Use the secondary driver you selected from the KDD and turn it into a problem statement.
- Write the Problem in a box on the far right side.
- Brainstorm major causes and fill them in on the rectangles.
- For each cause, brainstorm minor causes related to it and note them on the diagram.



Use a firm sleep surface, such as a mattress in a safety-approved\* crib, covered by a fitted sheet,

Do not use pillows, blankets, sheepskins, or crib bumpers anywhere in your baby's sleep area.

Keep soft objects, toys, and loose bedding out of your baby's sleep area.

> Do not smoke or let anyone smoke around your baby.



Make sure nothing covers the baby's head.

Always place your baby on his or her back to sleep, for naps and at night.

Dress your baby in sleep clothing, such as a onepiece sleeper, and do not use a blanket.

Baby's sleep area is next to where parents sleep.

Baby should not sleep in an adult bed, on a couch, or on a chair alone, with you, or with anyone else.

#### **Identify Possible Solutions**

#### **PLAN STAGE**

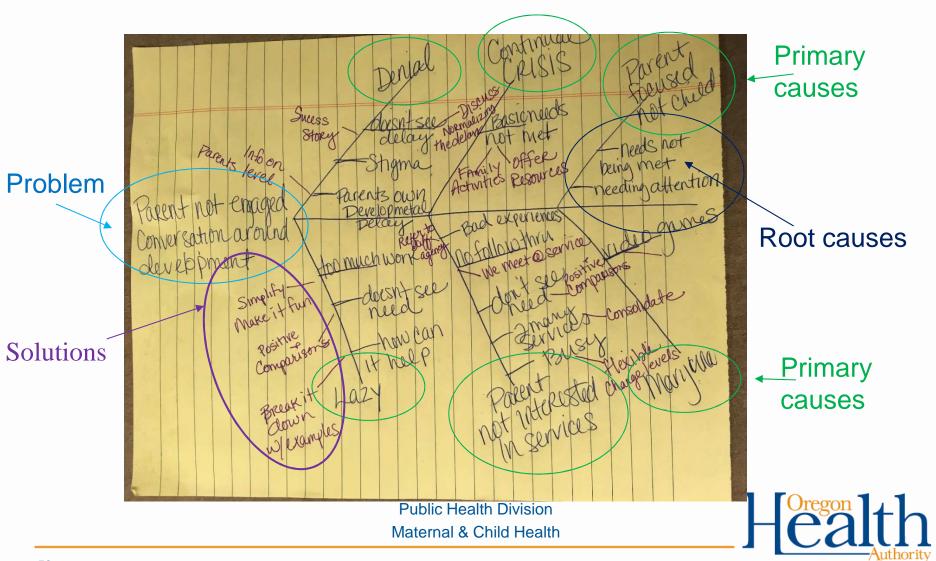


### PLAN Stage Step 4: Identity Potential Solutions

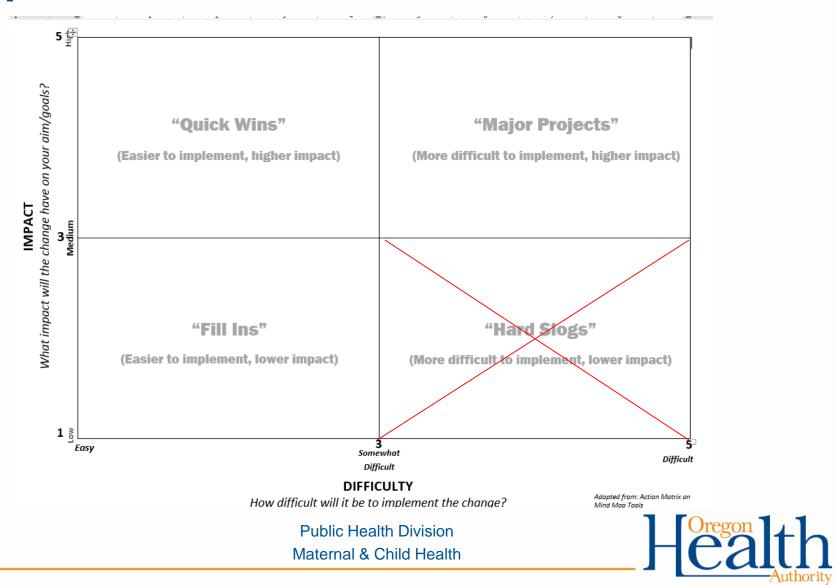
- Using fishbone diagram...
- Brainstorm for possible solutions to the minor causes (Solutions can be based on best practices, research, guidelines or educated guesses)
- Select 1-2 solutions:
  - Those you have control and influence over
  - Those that will have a greater impact
  - That is/are most likely to be accomplished



### **Example Fishbone: Engagement of families in promotion of healthy development**



#### **Impact Matrix**



### Team Activity: Identifying Solutions and Changes to Test

20 minutes

**Part 1: (10-15 minutes)** 

 Using fishbone diagram, write in possible solutions for the minor causes related to your major causes (HINT: use a different pen color)

#### **Part 2: (5-10 minutes)**

- Use the impact matrix handout to categorize the solutions by level of impact and difficulty
- Select 1-2 that you think would make the greatest impact (HINT: you may want to select 2 from different quadrants, e.g., 1 "quick win" and 1 "major project")

Туре	Name of Measure	Operational Definition	Data Sources	Data Collection (schedule, method)		
Outcome Measure					• Specifi	С
Process Measure					<ul><li>Measu</li><li>Achiev</li></ul>	
Additional Measures					<ul><li>Releva</li></ul>	
					• Time-E	Bound

Develop an Improvement Theory

#### **PLAN STAGE**



### PLAN Stage Step 5: Develop an Improvement Theory

- 1. Develop a theory for improvement
  - What is your aim?
  - What is your prediction?
- 2. Develop a strategy to test the theory
  - What will be tested? How? When?
  - How will you measure the test?



#### **Developing an Aim Statement**

#### **Model for Improvement**

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

- Specific
- Measureable
- Achievable
- Relevant
- Time-Bound





EXAMPLE: Oregon MIECHV-funded programs will increase the percent of infants under the age of 1 who are always placed to sleep on their backs, without bed-sharing or soft bedding from 18.3% to 25% by September 30th, 2018.



### Team Activity: Develop a SMART Aim Statement

Use the handout provided

HINT: Use your baseline safe sleep data to

include measureable # or % for increase/decrease



Aim Statement Criteria:

Developmental Questions:

Who are the sarget population and personal doing the activity! What is the action or activity!

The action or activity!

How much change is expected! Will there be an increase or decrease! Can you header the an increase or decrease!

Can to be done! Can you accomplish it in the prescribed directrance!
How will you carry out the work and reach your overall sim! Thinks of the resources as your disposal.

Relevant

Does the action relate to what you want to accomplish! is it organizational goals!

Time-Bound

What is the similar for change! When will this be accomplished by! Hours, day, time, or year!

Write your SMAAT aim statement below:

Worksheet



#### **Collecting Data for Quality Improvement**

- Data is used to learn, not to judge or supervise.
- All data is used transparently
- "All teach, all learn"
- Aim to collect 'just enough' data to be useful, not perfect data
- Data is collected and analyzed at regular intervals to inform decision-making





#### Data for Improvement, Accountability and Research

Aspect	Improvement	Accountability	Research
<u>Aim</u>	Improvement of care (efficiency & effectiveness)	Comparison, choice, reassurance, motivation for change	New knowledge (efficacy)
Methods: • Test Observability	Test observable	No test, evaluate current performance	Test blinded or controlled
• Bias	Accept consistent bias	Measure and adjust to reduce bias	Design to eliminate bias
Sample Size	"Just enough" data, small sequential samples	Obtain 100% of available, relevant data	"Just in case" data
<ul> <li>Flexibility of Hypothesis</li> </ul>	Flexible hypotheses, changes as learning takes place	No hypothesis	Fixed hypothesis (null hypothesis)
Testing Strategy	Sequential tests	No tests	One large test
Determining if a change is an improvement	Run charts or Shewhart control charts (statistical process control)	No change focus (maybe compute a percent change or rank order the results)	Hypothesis, statistical tests (t- test, F-test, chi square), p-values
Confidentiality of the data	Data used only by those involved with improvement	Data available for public consumption and review	Research subjects' identities protected

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#### Data or Improvement, A countability Research

Aspec Aim	Improvem	Acce		,edge ,acy)
Methods:  • Tes  • Bias  • Sample Size  • Flexibility of	The role of da and the spirit used is di	nome message ata for improve in which this afferent for CC red to research	data is )I,	(pothesis)
Tesung Strategy				ne test
Determining if a change is an improvement	and chart astical process	(maybe conchange or rest.	Hypo.	ical tests (t- t, chi sq. p-value
Confidentiality of the data	Data used only by t involved with improve	Data available consumption and	olic Researd	ch subjects' identities protected

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#### **Types of Measures**

#### Outcome measures

- What is the outcome or result?
- Aligns with the SMART Aim

#### Process measures

- Is each step/part in the process performing as planned?
- Reveals steps where the process might break down

#### Balancing measures

- Unrelated processes that might be affected by the changes
- What happened as we improve outcome and process measures?



#### **Examples of Measures**

- Outcome
  - % of caregivers with infants ages 0-6 months who report they "never" bed-share with their infant
- Process
  - % of caregivers that intend to never bed share prenatally
  - % of infants that have a safe sleep surface
- Balancing Measure
  - % mothers breastfeeding any amount at 3 months



#### **Types of Measures**

- Out
  - What

For your projects, we recommend that you identify and track one project outcome measure and one process measure that aligns with your SMART Aim

nned?

- \*you may include additional measures

affec

- Unrelatechange: mak
- What happened system, we improve the outcome and prod s measures.

Public Health Division
Maternal & Child Health



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### Team Activity: Selecting Outcome and Process Measures



- ✓ Define 1 Project Outcome Measure and 1 Process Measure that can be <u>reported at least every month</u>.
- ✓ Brainstorm how you will define and collect this data

Туре	Name of Measure	Operational Definition	Data Sources	Data Collection (schedule, method)	
Outcome Measure				20 n	ninutes
Process Measure					
Additional Measures					



Step 1. Write in the Primary and Secondary drivers you are focusing on and the change being tested

**Step 2**. Choose the timeframe in which you will run your test. \*Tip: the quicker, the better!

\*Tip 2: schedule your 'study' at the earliest possible time your team can huddle to discuss the test

Local Implementing Agency Program and Iviodel:				
CQI Team Members:	Primary Driver:	Secondary Driver		
	Change being tested:	Cycle #: Start date: End date:		
Objective of Cycle	Please Describe:			
<ul><li>☐ Collect Data (Learn)</li><li>☐ Test a change</li><li>☐ Implement a change</li></ul>	What do we want to accomplish (aim)?			
	How will we know a change is an im	provement (indicators)?		
	3. What ideas do we have that will resu	ult in improvement (change to test)?		
Questions we want to answer with this PDSA cycle				
Prediction (if/then)				
Tasks/Tools Needed to Complete the Cycle				



**Step 3**. Answer the 3 questions for the Model for Improvement.

\*Tip: Answers to Q1 and Q2 will remain the same for multiple PDSA cycles.
The answer to Q3 should shift slightly or a lot with each cycle, as you adapt the change

Local implementing Agency F	rogram and iviodel:	
CQI Team Members:	Primary Driver:	Secondary Driver
	Change being tested:	Cycle #: Start date: End date:
Objective of Cycle  ☐ Collect Data (Learn)  ☐ Test a change  ☐ Implement a change	Please Describe:  1. What do we want to accomplish (aim)?	
	How will we know a change is an imp	provement (indicators)?
	3. What ideas do we have that will resu	Ilt in improvement (change to test)?
Questions we want to answer with this PDSA cycle		
Prediction (if/then)		
Tasks/Tools Needed to Complete the Cycle		



**Step 4.** What questions do you want to answer in *this* PDSA Cycle?

E.g.

--Will caregivers
like the new safe
sleep plan
worksheet?
--How long will it
take to fill out
together?

CQI Team Members:	Primary Driver:	Secondary Driver	
	Change being tested:	Cycle #: Start date: End date:	
Objective of Cycle  ☐ Collect Data (Learn)  ☐ Test a change  ☐ Implement a change	Please Describe:  1. What do we want to accomp	lish (aim)?	
	How will we know a change is an improvement (indicators)?		
	3. What ideas do we have that	will result in improvement (change to test)?	
Questions we want to answer with this PDSA cycle			
Prediction (if/then)			
Tasks/Tools Needed to Complete the Cycle			



Step 5. Make a prediction – what will happen this time, with this test, with the people involved?

Local implementing Agency	Program and iviodel:	
CQI Team Members:	Primary Driver:	Secondary Driver
	Change being tested:	Cycle #: Start date: End date:
Objective of Cycle  Collect Data (Learn)	Please Describe:  1. What do we want to accomplish (ain	n)?
☐ Test a change☐ Implement a change		
	2. How will we know a change is an improvement (indicators)?	
	3. What ideas do we have that will resu	ult in improvement (change to test)?
Questions we want to answer with this PDSA cycle		
Prediction (if/then)		
Tasks/Tools Needed to Complete the Cycle		



Step 6. What tasks or tools need to be done in order to run your test?

E.g. make a data collection Excel sheet; develop a draft safe sleep plan worksheet

Local implementing Agency F	rogram and iviodei:	
CQI Team Members:	Primary Driver:	Secondary Driver
	Change being tested:	Cycle #: Start date: End date:
Objective of Cycle  Collect Data (Learn)  Test a change Implement a change	Please Describe:  1. What do we want to accomplish (aim	
	How will we know a change is an imp	
	3. What ideas do we have that will resu	It in improvement (change to test)?
Questions we want to answer with this PDSA cycle		
Prediction (if/then)		
Tasks/Tools Needed to Complete the Cycle		



### CAUTION: You will likely need to complete some tasks to complete a PDSA cycle, but a task is NOT a test





#### Task = An activity that must be completed or something that needs to get done

Examples of common tasks:

- Information gathering
- Training stakeholders
- Collecting data/creating a data collection instrument
- Deciding when the test will be done or who will run it

### Test = Trying a change on a small scale (PDSA cycle) to see if the change results in improvement

Tests of change:

- Answer a specific question
- Require a theory and a prediction
- Are done on a small scale, collecting data over time
- Build knowledge over multiple cycles
- Tried in a wide range of conditions

**Step 7**. What is your plan for conducting the test? What is your plan for collecting the data?

#### Plan

#### Plan for this test

- 1. Who will implement the change?
- 2. What will take place?
- 3. When will the change happen?
- 4. Where will this change occur?

#### Plan for Data Collection:

- 1. Who will collect the data?
- What data will be collected?
- Where will the data be collected?
- 4. When will the data be collected?



### Team Activity: Begin completing draft PDSA form

Local Implementing Agency Program and Model:			
CQI Team Members:	Primary Driver:	Secondary Driver	
	Change being tested:	Cycle #: Start date: End date:	
Objective of Cycle  Collect Data (Learn) Test a change Implement a change	Please Describe:  1. What do we want to accomplish (aim	))?	
	2. How will we know a change is an imp	provement (indicators)?	
	3. What ideas do we have that will resu	It in improvement (change to test)?	
Questions we want to answer with this PDSA cycle			
Prediction (if/then)			
Tasks/Tools Needed to Complete the Cycle			





#### **FY18 State CQI Project Timeline**

#### **February**

 Submit draft PDSA form (Due Feb 16) and begin implementing

#### March - August 2018

- PDSA cycles start
- Monthly PDSA updates
- Monthly Learning Collaborative Calls
- Quarterly Webinars
- CQI Newsletters

#### September 2018

Celebrate success!





#### Safe Sleep Resources



- CDC
  - MMRW: Vital Signs Report on Safe Sleep Practices for Babies (Jan 9, 2018)
- National Center for Education in MCH Georgetown University/ National Action Partnership to Promote Safe Sleep (NAPPSS)
  - Online learning module "Building on Campaigns with conversations: Individualized approach to Helping Families Embrace Safe Sleep and Breastfeeding"
  - Handouts for home visitors
  - SUID/SIDS prevention toolkit: includes list of available trainings and resources related to safe sleep

#### Safe Sleep Resources, cont.

- National Institute for Children's Health Quality (NICHQ)
  - Infant Mortality CollN includes Safe Sleep toolkit
  - Quality Improvement online learning modules
  - Safe sleep and breastfeeding image gallery
- National Institute of Child Health and Human Development (NICHD)
  - Safe to Sleep campaign materials
- Healthy Children (AAP website)
- Oregon Health Authority
  - Vital records data
  - Safe sleep for babies website





#### **Thank You!**

For more information related to MIECHV and CQI please contact:

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