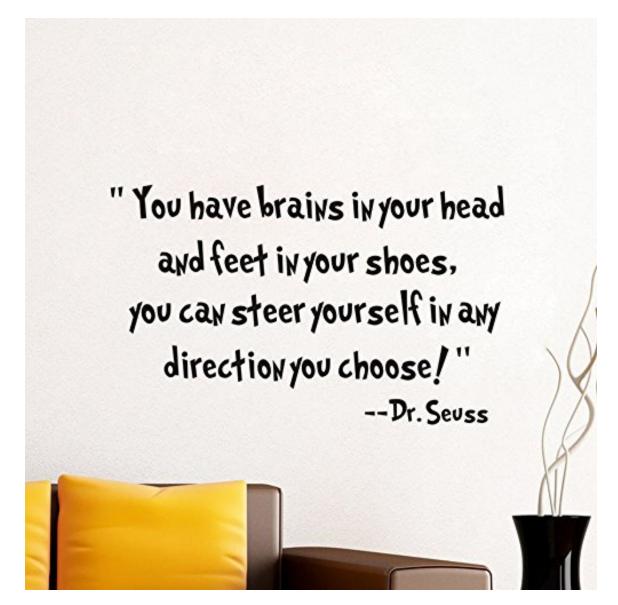


Continuous Quality Improvement (CQI) 104

Strategies for Using CQI Tools







PDSA Cycles...Where Do I Start?

- Learn the <u>PDSA Cycle</u>
 - Plan, Do, Study, Act
- Start Small
 - Scale for tests of change (n=1)
 - Remember "failed" cycles are good learning opportunities, especially when small
- Cut it in half, and then cut it in half again...
 - If your team thinks you can do it in a quarter, what can you do in a month? What can you accomplish in two weeks or two days?



PDSA: Plan

- Formulate a question and predict the answer to that question as a team
 - Make your predictions specific to help avoid hindsight bias
 - Include multiple perspectives from the team
 - What do you think will happen with this one small test?
- Plan to carry out the test (Who, What, and When?)
- Plan for data collection
 - Does your plan collect the data needed to evaluate the prediction and clearly state if your prediction was correct?



PDSA: Do

- Carry out the plan
- Document observations
 - What is the CQI Team seeing? What are caregivers observing or reporting?
 - Are there any successful moments? Are there any unexpected issues?
- Begin analysis of data
 - Qualitative data is important in the early stages of a CQI project



PDSA: Study

- Complete the analysis of the data
 - Document and discuss unexpected observations
 - What did you learn that was surprising?
- Summarize what was learned
 - Discuss: Was the test carried out as planned? Were there any changes or variations? If yes, what got in the way this time and how can that be avoided?
- Compare the results of the test to your team's prediction
 - What did you learn about the change idea?
 - What modifications do you need to make for the next test?

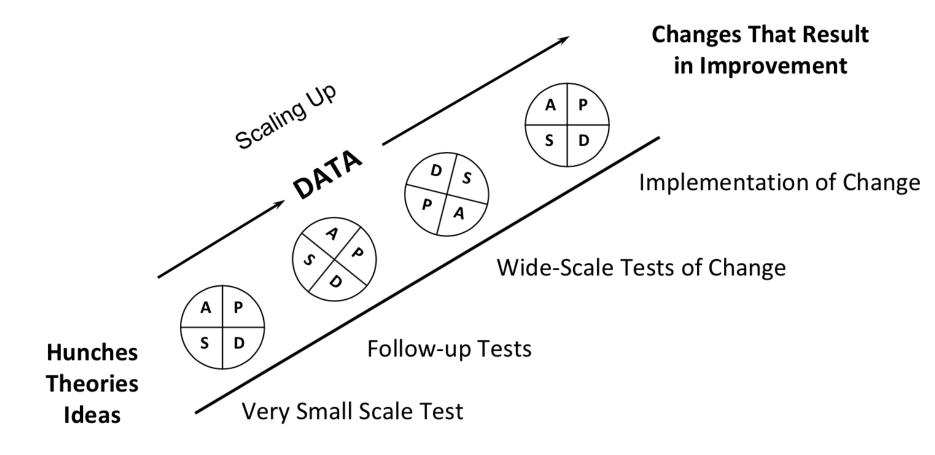


PDSA: Act

- Select an action based on the results of the test...
 - Adopt, Adapt, Abandon
- If appropriate, plan the next test and start over again at the beginning of the PDSA Cycle scaling up
- Keep your momentum moving
 - Use what you learned in this cycle to fine-tune changes for the next cycle if possible

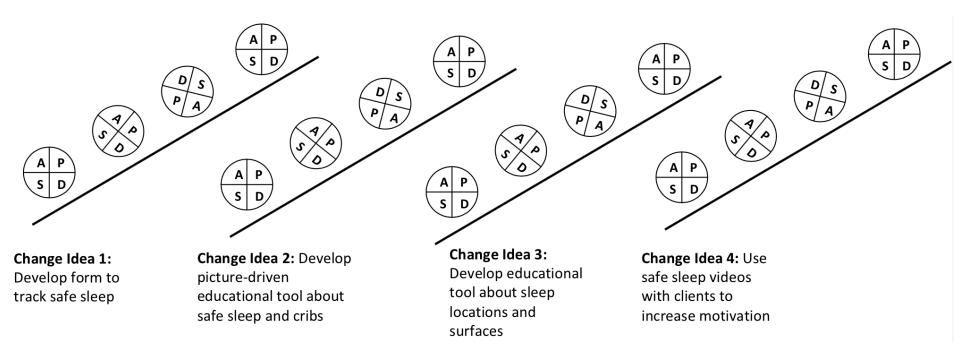


Ramps: Scaling Up...





Scaling Up Example...





Plan

Study

CQI Projects: Tasks vs. Tests

- Task = an activity that needs to completed or something that needs to get done
- Examples of common tasks:
 - Brainstorming
 - 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 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 sequentially over multiple cycles
 - Area completed in a wide rang of conditions

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



Root Cause Analysis: 5 Why's

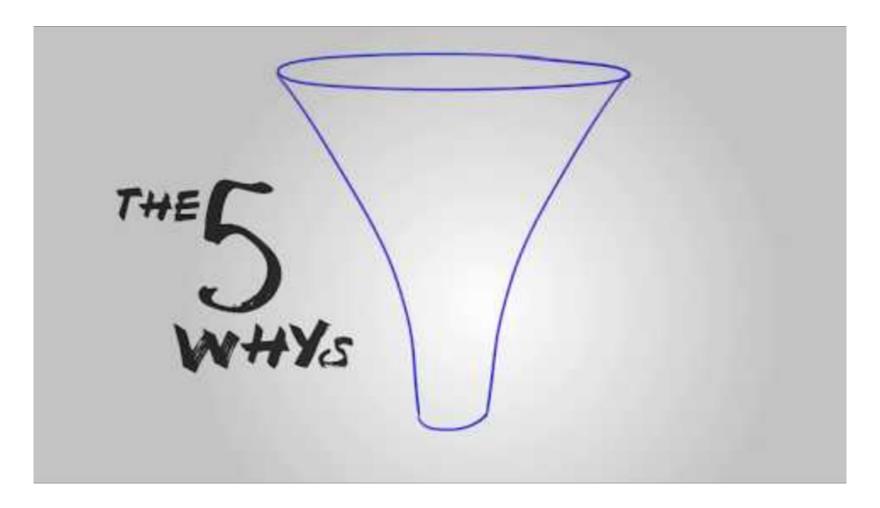
 This is a brainstorming tool, like the Fishbone Diagram

Discuss as a team:

- How many steps did it take to discover the root cause?
- Did the team have any difficulty coming up with potential responses to the why questions?
- Did the team gain new insight into the problem? If not, why not?
- When would this tool be helpful in improvement efforts?



Walk Through a Problem with 5 Whys





CQI Tool: Process Mapping

- A visual representation of a series of actions leading to an end
- A useful tool to understand how a current system works
 - Simplify a process by eliminating unnecessary steps or changing inefficient ones
 - Identify data elements to use
 - Articulate the roles and responsibilities for individuals in each process step
- A useful tool to identify how a new system should work
 - Identify the necessary process steps needed for a system to achieve desired outcomes

Adapted from: Massoud R., Askov K., Reinke J., Franco L. M., Bornstein T., Knebel E., & MacAulay C. (2001). A modern paradigm for improving healthcare quality. *QA Monograph Series* 1. Bethesda, MD: Quality Assurance Project, US Agency for International Development (USAID).



Different Process Maps

	High Level	Detailed
What are they?	 "Bird's eye view" Show only the basic steps	Detailed viewShow all the steps and activities
Advantages	 Easy to build Identify key participants quickly Create rapid consensus in the group Inform high-level measures 	Identify steps that should be redesigned to improve efficiency
When to use	 First step When short on time and need a general shared vision of the process 	Identify parts of the process that require improvement

From: Nocito, S. & Zeribi, K. (n.d.) Building a Swim Lane Flow Chart. Tutorial for ImproveCareNow. (n.p.)



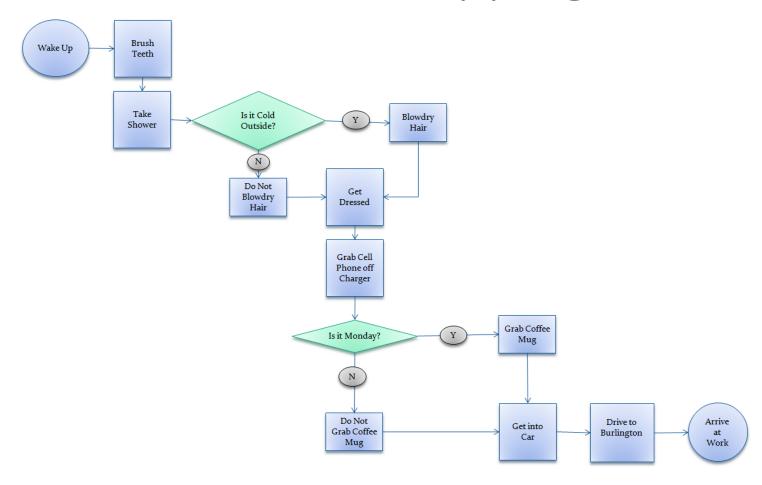
High Level Process Mapping



Adapted from: Nocito, S. & Zeribi, K. (n.d.) Building a Swim Lane Flow Chart. Tutorial for ImproveCareNow. (n.p.)



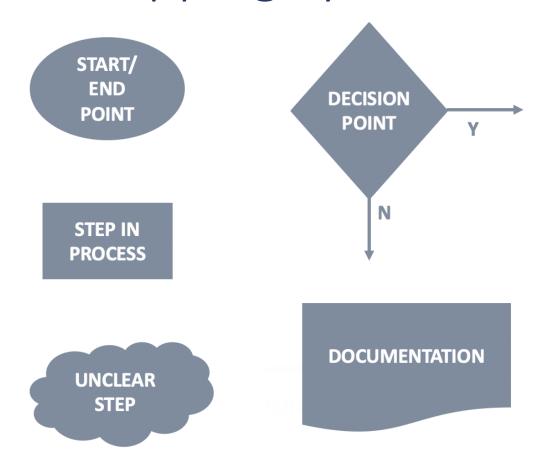
Detailed Process Mapping



Nocito, S. & Zeribi, K. (n.d.) Building a Swim Lane Flow Chart. Tutorial for ImproveCareNow. (n.p.)



Process Mapping Symbols



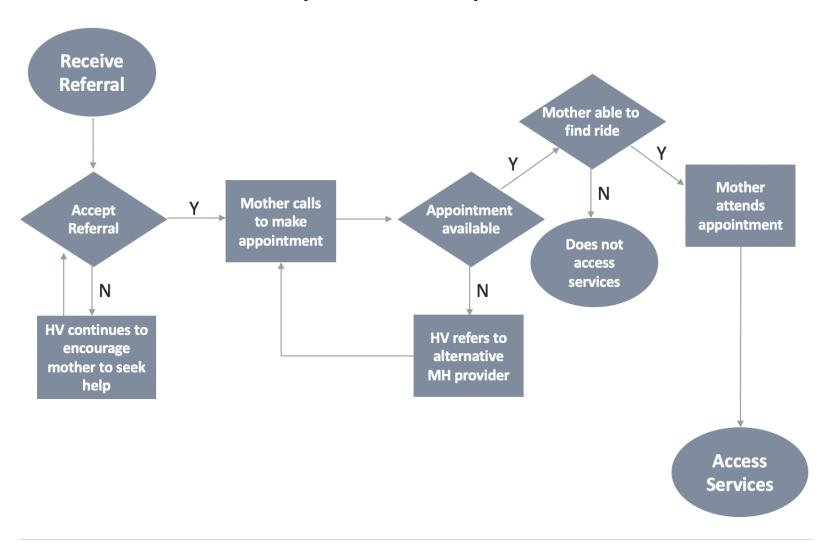


Process Mapping Tips

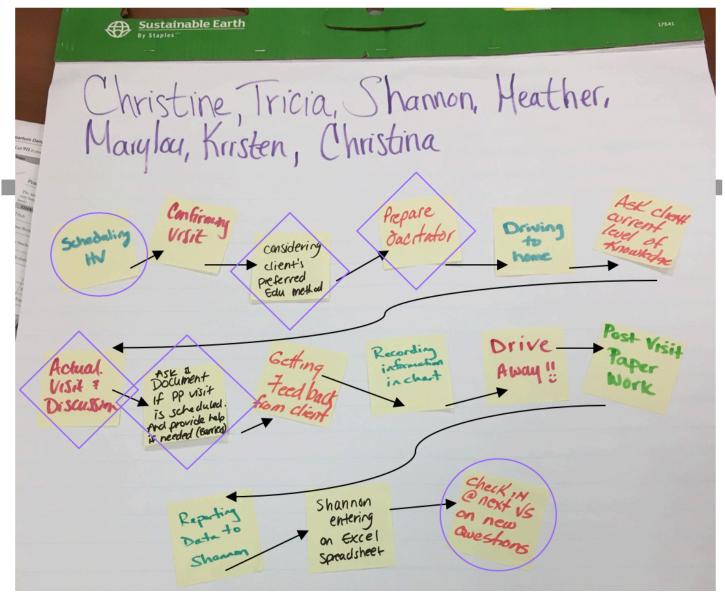
- Include only steps relevant to the scope of improvement effort
- Have people who understand the process at the table
 - Consider the role of the caregiver
- Consider role playing to identify all steps in the process
 - Make this a fun CQI activity!



Process Map Example









Key Driver Diagrams

PRIMARY DRIVER	CHANGE STRATEGY
	PRIMARY DRIVER



Best Practices for Key Driver Diagrams

Primary Drivers

Change Strategies

- Neutral language
- Linked to aim

- Evidence-based
- Linked to at least one driver

Developed with help from subject matter experts



Why Are Key Driver Diagrams Helpful?

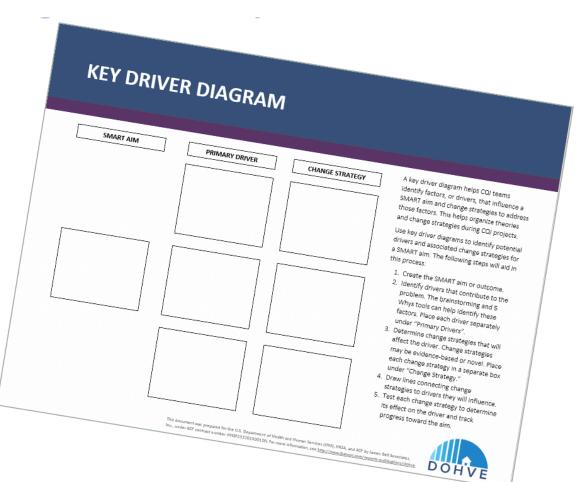
- Define the system to be improved
- Provide a common model for a CQI Team
- Help narrow possible change strategies
- Link specific measurement criteria to change strategies
- Focus team to test one change strategy at a time
- Help track successes and challenges



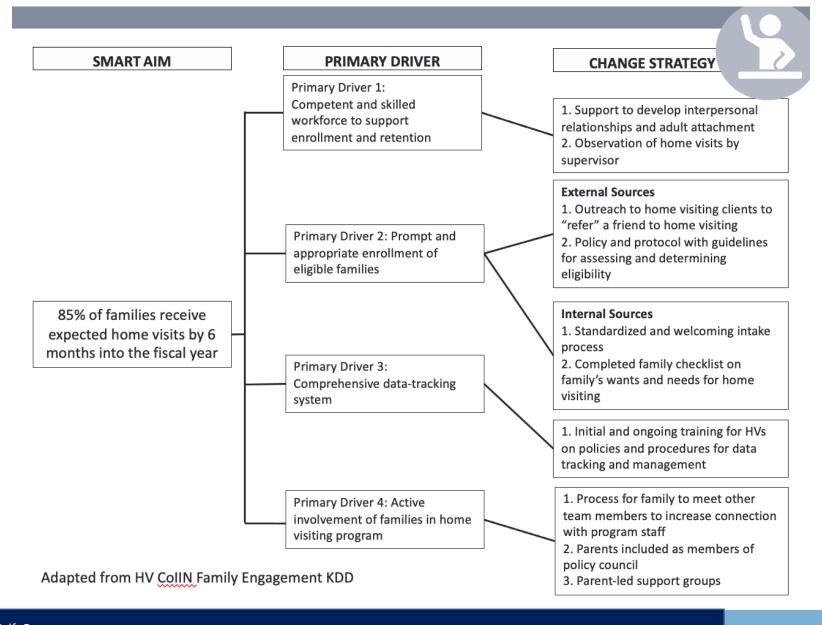


Using Key Driver Diagrams in CQI

- Step 1: Develop the SMART aim
- Step 2: Identify key drivers
- Step 3: Identify change strategies









Remember, ALL these tools will help your team find success!

Step 1 - Define Your Goal







Questions?



Please remember: If any follow up is needed, or if you would like to schedule an individual CQI Coaching call, please email Christina at cjanosky@pa.gov



Looking to Apply What We've Learned?

- Please download the Process Map Instructions Word Document and walk through a process your team might be interested in for a future CQI project.
- Take time to create a process map <u>together</u> and discuss:
 - Are there areas or steps where the process is unclear? If there is a step where different team members have different understandings or opinions about how it works, that step is likely not clearly defined. Put a cloud around these steps.
 - What are the differences between the ideal process and current process? Take some notes so you remember what you've learned for the future CQI project.