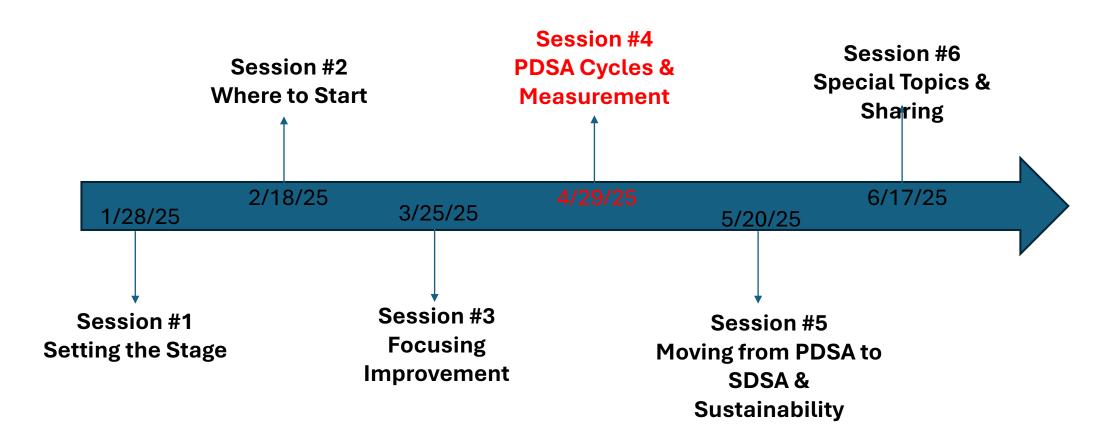
VPQHC Quality Improvement Training Session 4 PDSA Cycles and Measurement April 29th, 2025 12:00 to 1:30 PM



Welcome and Program Summary





Session 4 Agenda

- 1. Session Agenda Review and Questions
- 2. Session 3 Evaluation Results
- 3. Change Idea to Planning for PDSA
- 4. Measurement Plans
- 5. Simple variation

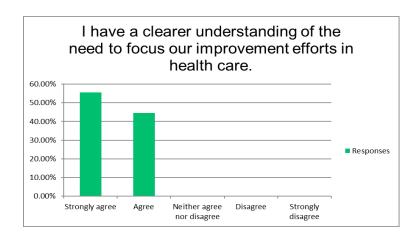


Session 4 Learning Objectives

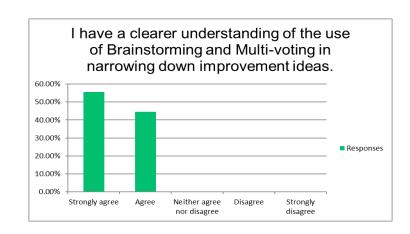
- 1. Create a PDSA Cycle Plan: Develop a PDSA cycle plan using a template, understand the importance of small sample sizes, and measures.
- 2. Design a Measurement Plan: Understand conceptual and operational definitions.
- 3. Understand Simple Variation: Explain the concept of simple variation and descriptive analysis.

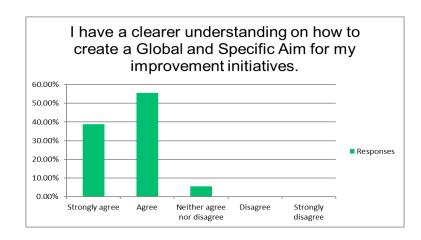


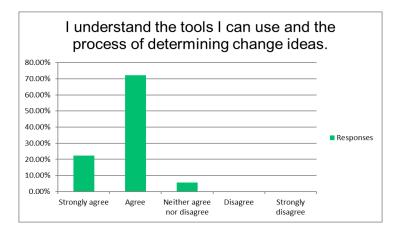
Session 3 Satisfaction Survey Results (N=18)







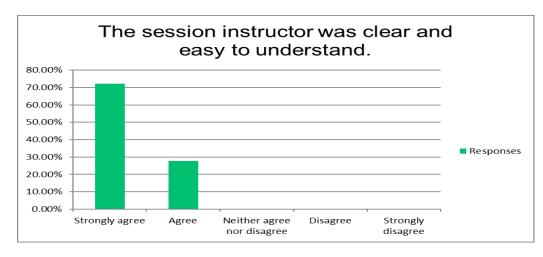


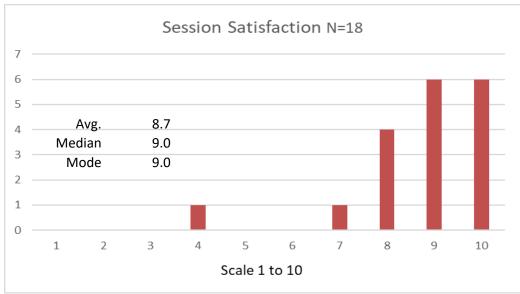






Session 3 Satisfaction Survey Results





Positive Comments

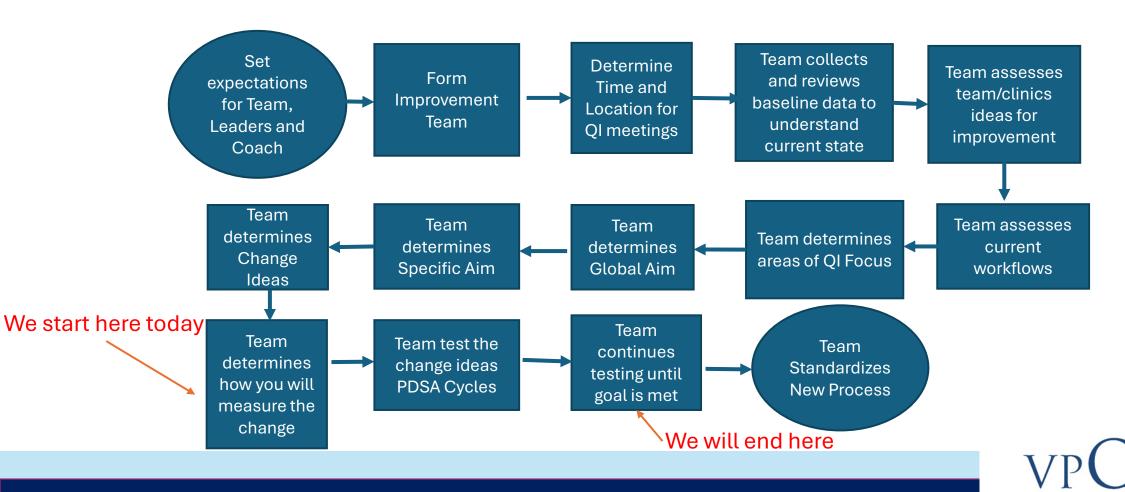
- -I appreciated the inquiry/invitation to have current project snapshots.
- -You might invite folks to treat it as a virtual poster session and ask presenters to create a 1-page Slide as a poster to present for 5 min. and then have Q and A.
- -Thank you! This content is so helpful as we continue to further develop our Quality Team and processes.
- -Absolutely, especially helping leaders and team to understand The difference between "buy-in" and "ownership" related to QI
- -I have spent a lot of hours spinning to get buy in. I get more traction when leadership backs ownership
- -I appreciate the discussion of the distinction and the intersection
- -Liked the idea of post it brainstorming

Constructive Comments

-still need some additional time to absorb this. appreciate the recommendation to purchase recommended books, that is definitely a way I take in information more thoroughly

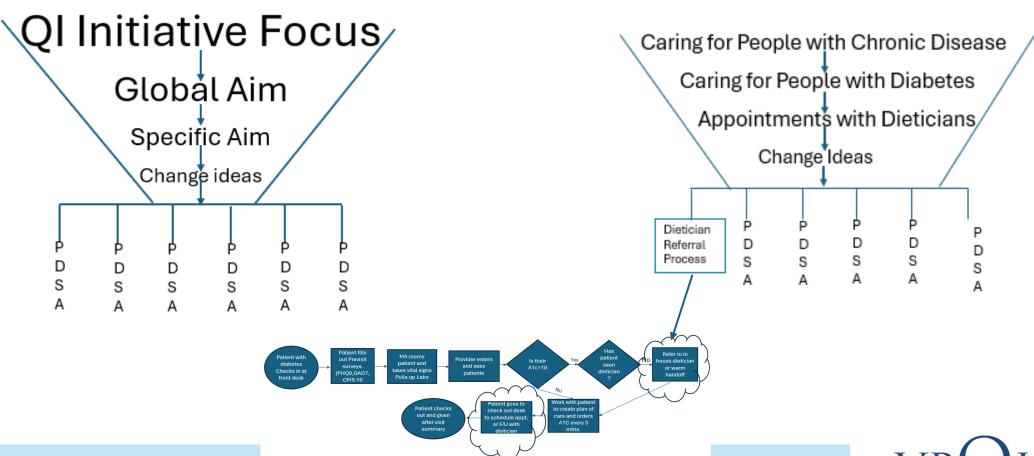


QI Took Kit Process Outline

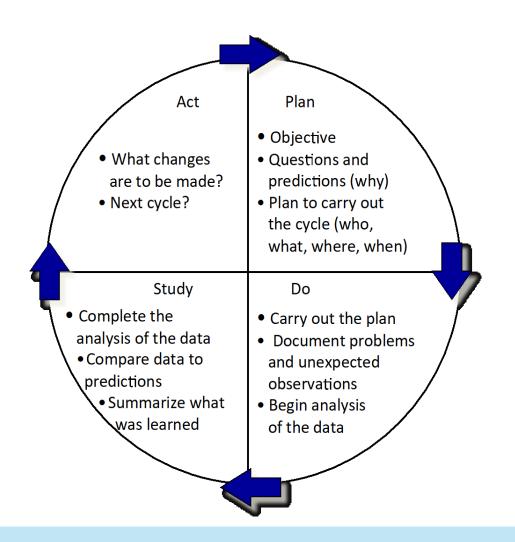


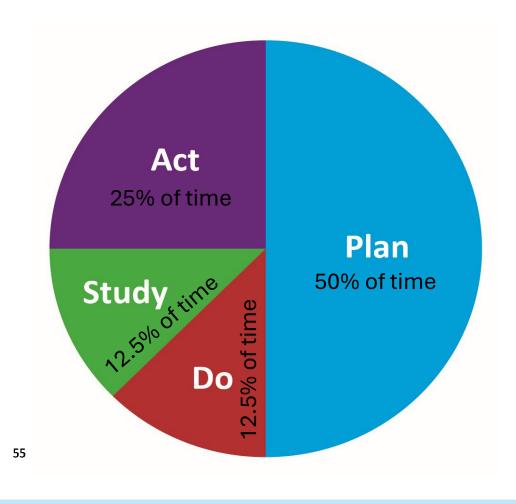
Vermont Program for Quality in Health Care, Inc.

Connecting the Steps Leading to PDSA Cycles



The PDSA Cycle





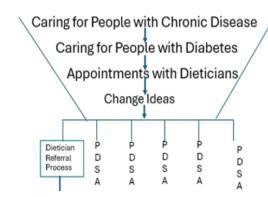
Poll



Determine Plan/Do/Study/Act Cycle to Test Your Change Plan

Change Idea:				
Task	Who	When	Tools Needed	Measures

Case Study - Plan for PDSA

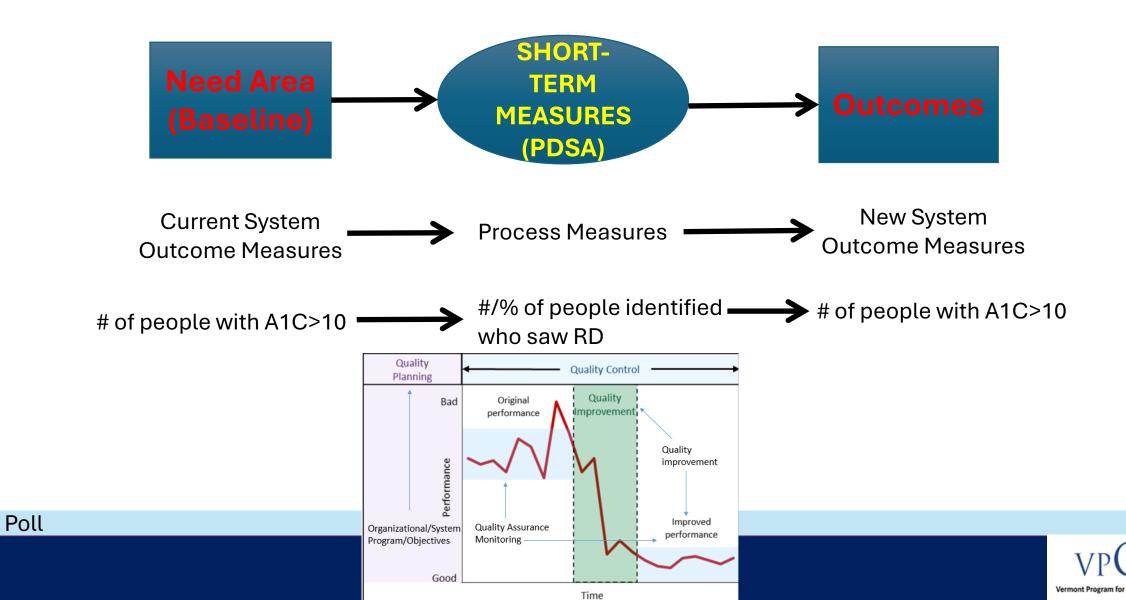


Change Idea: Standardize the referral	process to the dietician

	•			
Task	Who	When	Tools Needed	Measures
RN will generate a list of patients with A1c>10 who have a clinic appt.	Barabara RN	1 day prior to clinic	Computer, patient schedules, printer	Task completed on time?
List given to scheduler who will schedule patients with dietitian as part of clinic visit.	James, Scheduler	1 day prior to clinic	Computer, patient schedules, printer	Task completed on time?
During morning huddle team review patient roster to ID patients.	Clinic Team	Each morning	Patient clinic roster	Was morning huddle held?
Provider does a warm handoff to RD at the end of appointment	Provider/RD/Iden tified patients	Each clinic	Identified patient, RD	# of patients identified who saw the RD.



Phases of Data



Data Definitions

Conceptual Definition

Tells what will be measured

Operational Definition

Tells how it will be measured

Elements of an Operational Definition

2-10 "Our troubles are over, coach. I found us a Ref. Basic Tools for Process ImprovementewGRAPH 2 OPERATIONAL DEFINITIONS

<u>Criterion</u>: Standard(s) against which to evaluate results of the test. (What)

<u>Test</u>: Procedure for measuring a characteristic. (How)

<u>Decision</u>: Determination whether test results show the characteristic meets the criterion. (Evaluation)



"Clean Rooms"



Operating Room



Five Star Hotel



Teenager's Bedroom

Conceptually

Each one of these rooms could be defined as "clean".

<u>Operationally</u>

The **standards** that we establish and how we confirm they are meeting the standards will differ.



Measurement Plan

Change Idea: Standardize the referral process to the dietician

Measurement Conceptual Definition (what will you measure): We will measure the % of eligible patients who see RD.

Operational Definition (how will it be measured): Weekly % of patients with A1C>10% seen by RD. Calculated as # of eligible patients seen by RD/# of eligible patients.

Who	What	How	When
(Who will collect the data?)	(What data will be collected?)	(How will it be collected?)	(When will it be collected?)
Barbara RN	Scheduled patients with A1C>10.	Review clinic visit schedule to identify patients with A1C>10.	Will check schedule 1 day prior to clinic.
Julie RD	# of eligible patients that she sees	Julie will use the patient clinic roster prepared by RN and check off those she sees.	Each clinic session
Bill (scheduler)	Julie will give Bill her completed roster.	Bill will calculate the #/% seen by #seen by RD/# eligible to be seen.	After each daily clinic.
Bill (scheduler)	Daily/weekly calculation of #/% seen by RD.		Weekly at the end of clinic on Friday.

PDSA Cycle Documentation

Do- Test Your Change- Repeat until you reach your goal.

20 100 100 Manage Mapage and Joseph Joseph Boam						
Cycle 1						
What (will be done)	Who (will do it)	How (will it be done)	When			
Study- What was learned?						
Act- What will be changed or standardized?						



Cycle 1

Do the Plan - Study the Results-Act & Adjust as Needed

Who	What	How	When	
(Who will collect the data?)	(What data will be collected?)	(How will it be collected?)	(When will it be collected?)	
Barbara RN	Scheduled patients with A1C>10.	Review clinic visit schedule to identify patients with A1C>10.	Will check schedule 1 day prior to clinic.	
Julie RD	# of eligible patients that she sees	Julie will use the patient clinic roster prepared by RN and check off those she sees.	Each clinic session	
Bill (scheduler)	Julie will give Bill her completed roster.	Bill will calculate the # seen by #seen by RD/# eligible to be seen.	After each daily clinic.	
Bill (scheduler)	Daily calculation of # seen by RD.	Summarize the daily data to show a weekly and daily rate. Graph data using a line graph.	Weekly at the end of clinic on Friday.	

Study- What was learned?

Providers missed the warm handoff to the RD on a couple of patients.

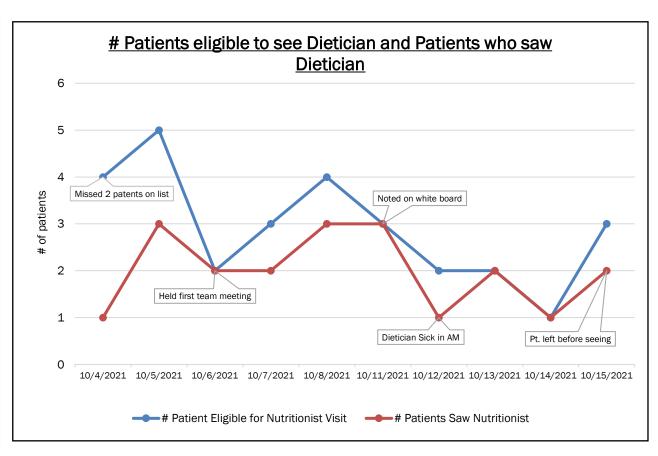
Act-What will be changed or standardized?

The MA will write RD on the whiteboard at the start of each clinic visit for a patient who has been identified on the schedule to help remind the provider to notify the RD at the end of the visit.



Case Example - Data Table and Line Graph

		# Patient Eligible	# Patients Saw	% Saw	
	Date	for Dietician Visit	Dietician	Dietician	Comments
	10/4/2021	4	1	25.0%	Forgot to include 2 patients on list
	10/5/2021	5	3	60.0%	
	10/6/2021	2	2	100.0%	Held First Team Huddle
	10/7/2021	3	2	66.7%	
Week 1	10/8/2021	4	3	75.0%	
	Total	18	11	61.1%	
	10/11/2021	3	3	100.0%	Noted on whiteboard
	10/12/2021	2	1	50.0%	Nutritionist Sick in PM
	10/13/2021	2	2	100.0%	
	10/14/2021	1	1	100.0%	
Week 2	10/15/2021	3	2	66.7%	Patient left before being seen
	Total	11	9	81.8%	
	10/18/2021	3	1	33.3%	Dietician called to hospital
	10/19/2021	3	2	67%	Patient left before being seen
	10/20/2021	3	2	67%	Missed one on first list
	10/21/2021	4	3	75%	
Week 3	10/22/2021	5	4	80%	Patient refused to be seen
	Total	18	12	67%	
	10/25/2021	5	4	80%	
	10/26/2021	6	5	83%	
	10/27/2021	7	6	86%	
	10/28/2021	7	6	86%	
Week 4	10/29/2021	4	4	100%	Changed how we introduce Dietician





Simple Variation/Descriptive Analysis

- Highest Value
- Lowest Value

Is the high value acceptable?

Is the low value acceptable

Is the difference large or small?

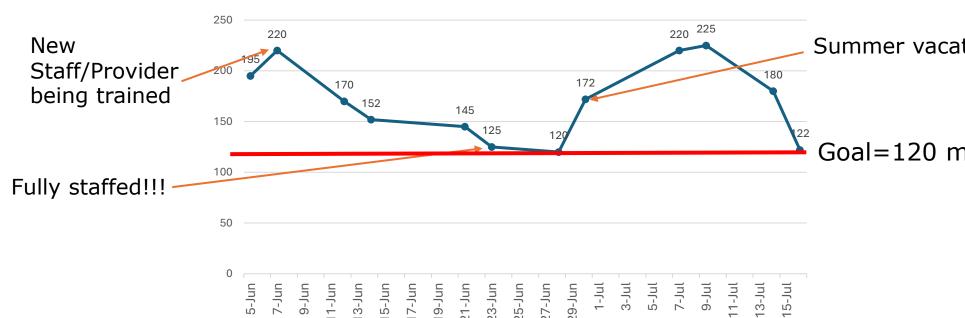
Is this variation acceptable?

Are the values going in the direction of your goal?



Is this desired? Do you know the cause? What is this telling you?

Avg Length of Visit In Minutes

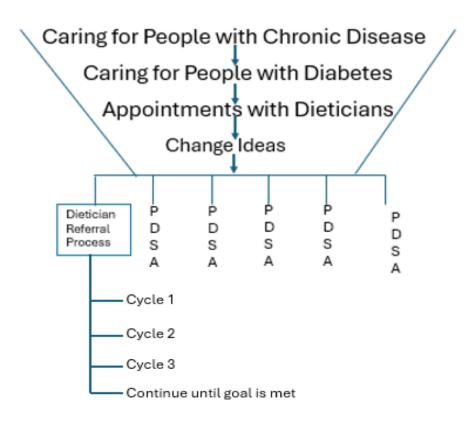


Summer vacations started

Goal=120 min.



Connecting the Steps Through PDSA Cycles





Session 4 Summary

- Ensure you spend time PLANNING how you will test your change idea.
 - (If you don't have the time to do it right, when will you have time to do it over? Author unknow.)
- A Measurement Plan is an integral part of the PDSA.
- It is important to Conceptually and Operationally define your measures to ensure they are clear to everyone.
- Document your test of change so you have the information you need to learn and make changes as you test again.
- Keep repeating your PDSA cycles until you meet your Aim/Goal.
- Data tables and annotated line graphs hold information to inform your improvements.
- Simple Variation or Descriptive Analysis at times and with many data types is more valuable and provides more meaningful information than a statistical analysis (XmR, S or P chart)
- Remember all of this work is connected to your QI Focus, Global Aim, Specific Aim and Change Idea.



Next Session

Session 5 will be May 20th at Noon

Session 5 Learning Objectives

- 1. Transition from PDSA to SDSA: Determine when it is appropriate to move from PDSA to SDSA.
- 2. Develop a Sustainability Plan: Create a plan to ensure the sustainability of improvements.
- 4. Representing your data
- 5. Process and Outcome Measures and a Balanced set of measures
- 6. Simple Variation to Common Cause and Special Cause variation





CREATING A CULTURE OF QUALITY THROUGH EDUCATION, MEASUREMENT AND COLLABORATION

Leveraging its expertise in facilitating productive change and quality improvement, VPQHC bridges the gap from the start of needed health care reform to organized processes, enhanced methods, and state-of-the-art tools that result in better health care experiences and outcomes for all Vermonters.

Randy Messier MT, MSA, PCMH CCE, Certification in Value Based Care Quality Consultant Vermont Program for Quality In Health Care RandallM@VPQHC.org

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<u>Session Satisfaction Survey:</u>
https://www.surveymonkey.com/r/MDF6PVZ

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pw: qi