Plan-Do-Study-Act: A Tool for Testing

Bonnie Horvath, MHSA, FACHE, CSSGB Charlotte Gjerloev, BSN, RN Qlarant June 2, 2021







Qlarant



Your Feedback is **Important!**





■ Healthcentric **Advisors**

Olarant

Chat Feature Highly Encouraged

To send a chat message:

Open the Chat panel:



- In the Send to or To drop-down list select the recipient of the message.
- Enter your message in the chat text box, then press Enter on your keyboard.

Send Chat Message to "Everyone"



Please use the chat feature to share your name, organization and state.



Who's Around the Virtual Table

Welcome! So Glad You Joined us Today!





Healthcentric AdvisorsQlarant

Objectives

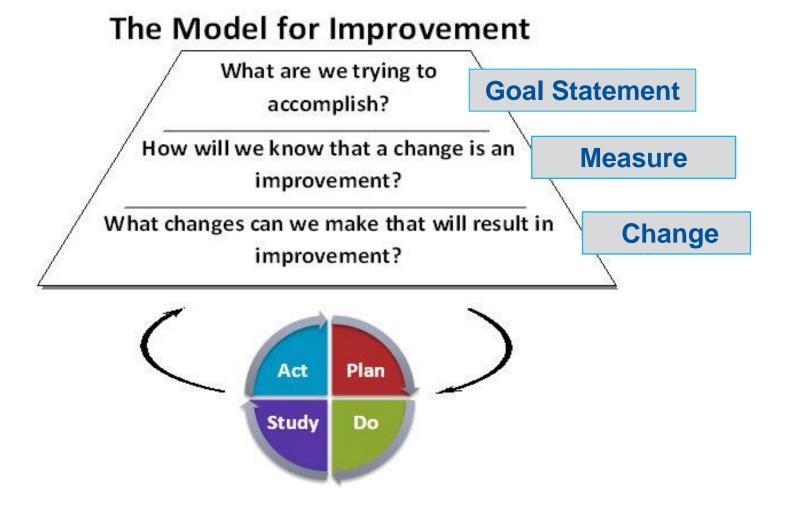
- Model for Improvement & SMART goal review
- Discuss the importance of testing changes
- Use the Plan-Do-Study-Act (PDSA) cycle
- Summarize the three learning session information



Three Fundamental Questions from the Model for Improvement









Setting the Stage: Developing SMART Goals





Specific Measurable **Attainable** Relevant Time-bound









- Increase your belief that the change will result in improvement
- Document how much improvement can be expected from the change
- Learn how to adapt the change to conditions in the local environment
- Evaluate costs and side-effects of the change
- Minimize resistance upon implementation

The PDSA Cycle for Learning and Improvement





- What changes are to be made?
- Next Cycle?

Act

Plan

- Objective
- Predictions
- Plan to carry out the cycle (who what, where, when)
- Plan for data collection

- Analyze data
- Compare results to predictions
- Summarize what was learned

Study

Do

- Carry out the plan
- Document observations
- Record data

The PDSA Cycle

Α







Goal:

Reduce the number of residents developing in-house, acquired pressure ulcers by 20% in 3 months

Implement pressure ulcer prevention protocols as best practice



for all residents

Cycle 4: Pilot for 1 month

Cycle 3: Train/educate pilot group staff

Cycle 2: Establish protocol for reporting & documentation

Cycle 1: Develop skin care protocols to be used

Keys to Successful Cycles to Test Changes





Healthcentric AdvisorsOlarant

Plan multiple cycles for testing a change

(Think a couple of cycles ahead)

Scale down size of test (# of residents, sites)

Do not try to get consensus or ownership at this time

Collect useful data during each test

Test over a wide range of conditions



Keys to Successful Data Collection During PDSA Cycles









Collect useful, not perfect data. The purpose is learning, not evaluation.



Use a pencil and paper until the information system is ready.



Use sampling as part of the plan to collect the data.



Use qualitative data rather than wait for quantitative.



Record what went wrong during the data collection.

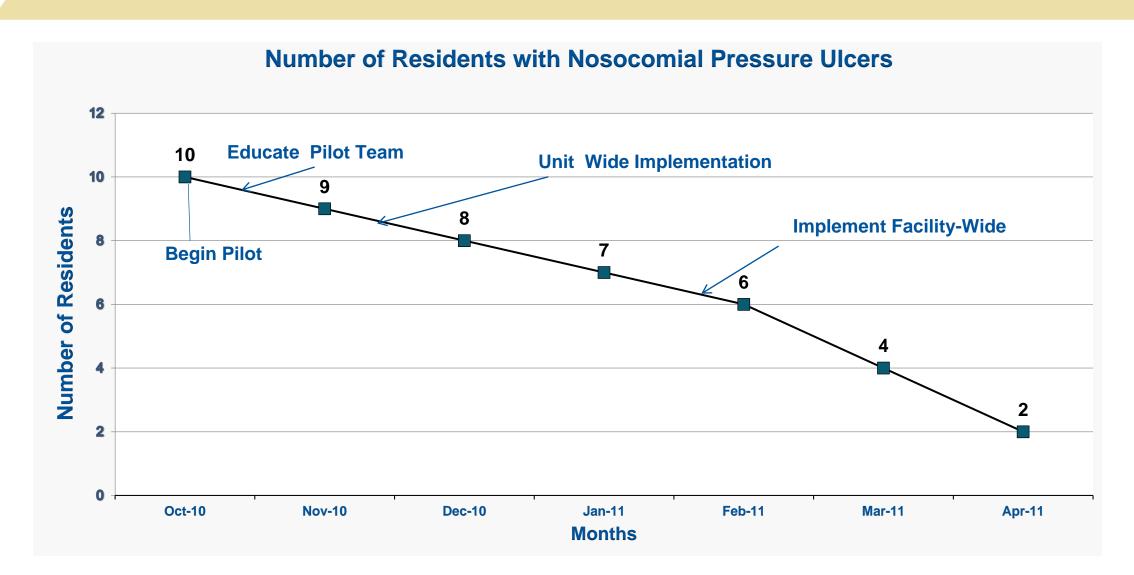
Use Your Graphs to Tell Your QI Story





■ Healthcentric Advisors Olarant





Setting the Stage to Begin the Testing





Healthcentric AdvisorsQlarant

Step 1: Develop a Goal

- Identify your goal statement.
- What do you want to improve?
- What change do you want to make?

Step 2:

Develop 1 Outcome Measure and Process Measure

- Write 1 outcome and process measure.
- How will you know your change is an improvement?

Step 3: Develop First Test

- Develop the first test cycle for your plan.
- What change can you make that will result in improvement?



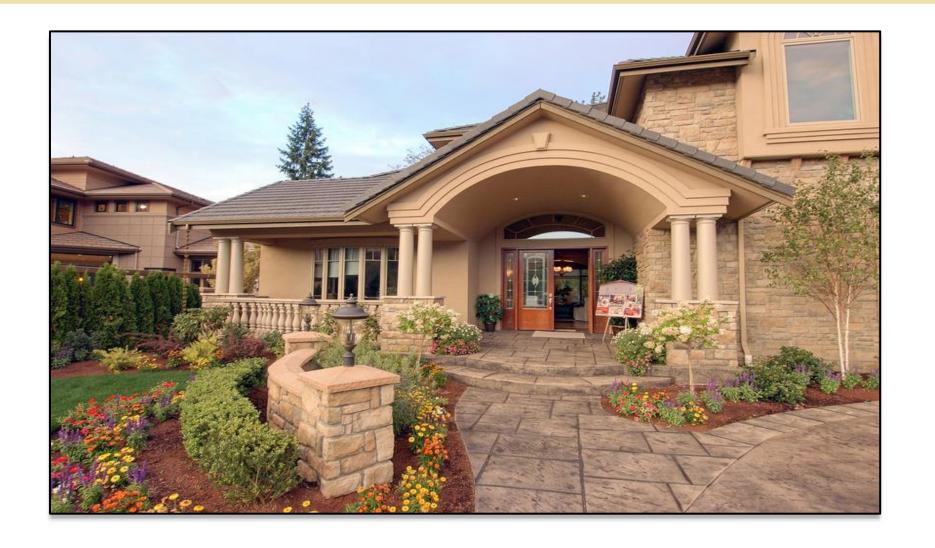
Lovely Nursing Home Falls Investigation





■ Healthcentric **Advisors**





Lovely Nursing Home PIP Team Challenge





Healthcentric Advisors

Olarant

Issue:

Number of Residents Falling is Increasing

- During the monthly QAPI steering committee meeting at Lovely NH a trend over the last 2 months was observed.
- QAPI Steering Committee chartered a performance improvement project (PIP) team to further investigate these trends and develop an initial plan to address the issue.

Lovely Rocking Horse NH PIP Team Challenge





Healthcentric
Advisors
Olarant

Qlarant

Instructions

- Look at the numbers in the data table for the falls measure.
- After reviewing the data table:
 - What patterns do you see?
 - What questions do you need to ask and who?
 - What actions will the team need to do?



What Does the Data Show Us?





Healthcentric AdvisorsQlarant

Falls Tracking Tool- 1/2020 -- 3/2021

Facility Name: Lovely NH Unit B Wing

Date		# of Falls			% of Falls w/			# of falls	# of falls	# of falls	# of falls occurring on	
	# of Falls this month	with injury this month	Monthly Census	% of Falls this month	injury this month	to the bathroom	# of falls out of bed	from chair/WC	while walking	occurring on Week End	3-11 or night shift	Other
20-Jan	49	3	241	20.30%	1.20%	2	35	0	11	9	24	0
20-Feb	32	0	251	12.70%	0.00%	4	22	0	6	5	18	0
20-Mar	32	3	249	12.90%	1.20%	0	17	0	12	11	19	0
20-Apr	36	0	248	14.50%	0.00%	6	22	5	4	5	28	0
20-May	43	0	250	17.20%	0.00%	4	19	17	4	10	27	0
20-Jun	42	1	238	17.60%	0.40%	2	22	13	3	12	24	0
20-Jul	43	2	250	17.20%	0.80%	7	25	5	6	6	19	0
20-Aug	49	2	250	19.60%	0.80%	6	20	6	5	8	20	0
20-Sep	50	3	249	20.10%	1.20%	5	22	7	7	7	24	0
20-Oct	51	1	249	20.50%	0.00%	6	23	5	6	10	26	0
20-Nov	51	0	251	20.30%	0.00%	7	22	4	4	9	28	0
20-Dec	52	1	250	20.80%	0.40%	8	24	6	6	8	26	0
21-Jan	53	4	249	21.30%	1.60%	6	25	5	7	7	28	0
21-Feb	54	2	248	21.80%	0.80%	4	22	6	7	8	30	0
21-Mar	55	1	251	21.90%	0.40%	5	23	5	6	9	29	0

What Did The Data Tell You?





Healthcentric AdvisorsQlarant

Observation

Number of falls increasing past 5 months.

More than Half of the falls are on the off shifts (eve and nights).

20% of the falls on this unit are residents getting OOB.

Questions

What are residents trying to do before falling OOB?

What are the times of the falls on eve and nights?

What is staff's routine at the time of the falls?

For Example...





Healthcentric AdvisorsOlarant

Step 1:

Develop a Goal

 B wing has an increasing number of falls per month. Reduce the number of falls on B wing by 12 over the next 6 months. This will be done through implementing our falls prevention protocol as written.

Step 2: Develop 1 Outcome Measure and Process Measure

- Outcome- Percent of residents who experience a fall will decrease.
- Process –100% of residents will receive a fall risk screening upon admission.

Step 3:Develop First Test

1st cycle- Revisit and revise fall prevention protocol.



Successful Change Requires A Plan





Identify where implementation will take place

Engage management structures to make the change permanent

Change must be "turnover proof"



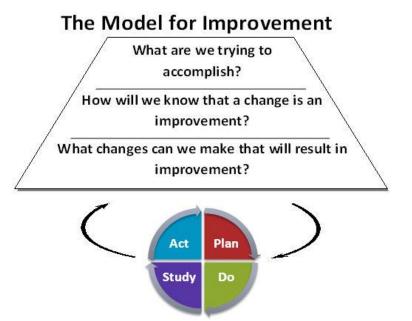




 We reviewed the components of a SMART goal and the Model for Improvement questions to develop a QI plan

Discussed using the Plan-Do-Study-Act (PDSA) cycle tool to

test changes







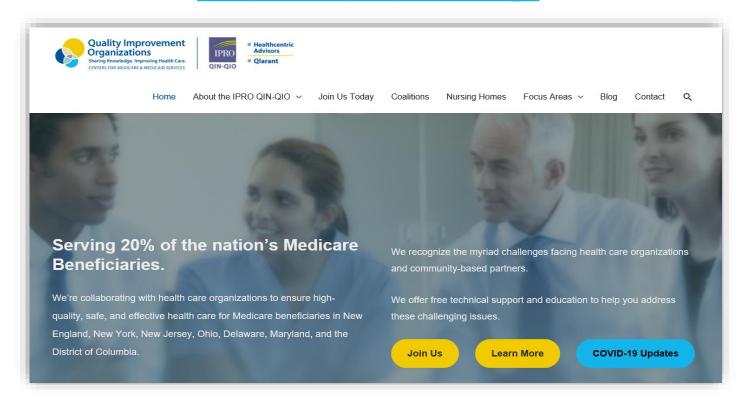




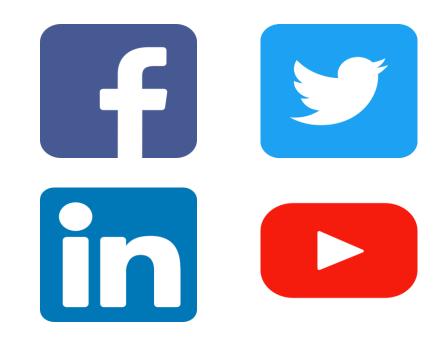
Questions Comments Feedback

Learn More & Stay Connected

https://qi.ipro.org/



Follow IPRO QIN-QIO











Advisors Olarant

Thank you for your continued efforts to keep us safe.



For More Information

Bonnie Horvath, MHSA, FACHE, CSSGB

Senior Director, Healthcare Quality & Patient Safety Program Director, DC, DE and MD QIOs (Direct) 443-746-4492 horvathb@qlarant.com

Charlotte Gjerloev, BSN, RN

Nursing Home Team Leader (Direct) 443.746.4494 gjerloevc@qlarant.com

