

### Acknowledgements This training was produced by Jennifer Byrne, MSc, the Sonoma County Department of Health Services' Dental Health Program, and the California Department of Public Health's Office of Oral Health. This project was suported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number H47MC28480, Children's Oral Healthcare Access Program for a total award of \$1,000,000. This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HS or the U.S. Government.

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# Learning Objectives (1/2)

Following completion of this program, you will be able to:

- Develop SMARTIE goals and objectives
- Create Process Maps using Lean methodology

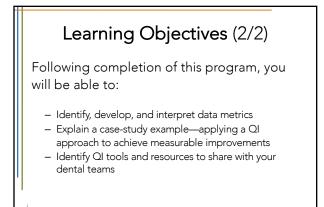
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- Identify QI opportunities
- Test small process changes

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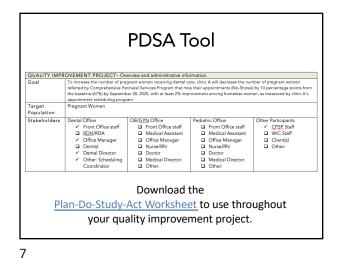
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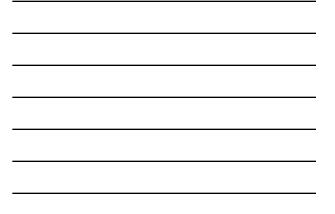


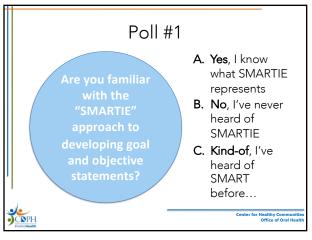
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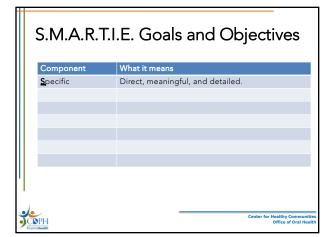






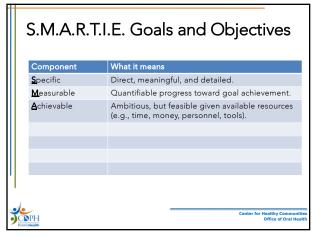


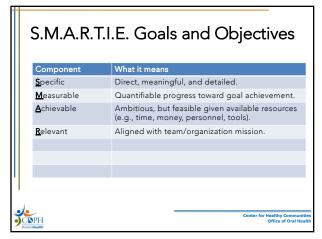






Component	What it means
<u>S</u> pecific	Direct, meaningful, and detailed.
<u>M</u> easurable	Quantifiable progress toward goal achievement.







# S.M.A.R.T.I.E. Goals and Objectives

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I	Component	What it means
I	<u>S</u> pecific	Direct, meaningful, and detailed.
I	<u>M</u> easurable	Quantifiable progress toward goal achievement.
	<b>A</b> chievable	Ambitious, but feasible given available resources (e.g., time, money, personnel, tools)
I	<u><b>R</b></u> elevant	Aligned with team/organization mission
I	<u>T</u> ime-Bound	Has a clear timeframe and deadline.
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	S.M.A.R.T	I.E. Goals and Objectives
	Component	What it means
	<u>S</u> pecific	Direct, meaningful, and detailed.
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	<u>R</u> elevant	Aligned with team/organization mission
	Time-Bound	Has a clear timeframe and deadline.
	Inclusive	Brings traditionally marginalized people into the process in a power-sharing way.
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S.M.A.R.1	I.E. Goals and Objectives
Component	What it means
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<u>T</u> ime-Bound	Has a clear timeframe and deadline.
Inclusive	Brings traditionally marginalized people into the process in a power-sharing way.
<u>E</u> quitable	Includes an element of fairness to address inequity and injustice.

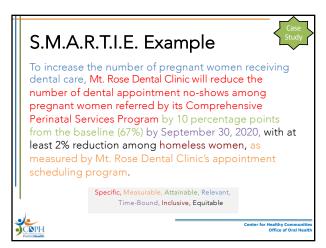


# Not S.M.A.R.T.I.E. Example

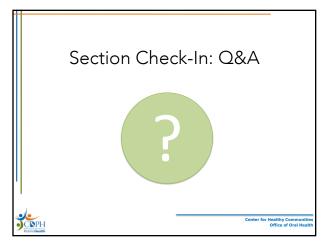
Decrease the number of dental appointment "no-shows" among pregnant women.

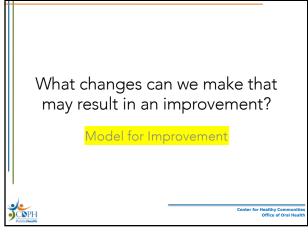
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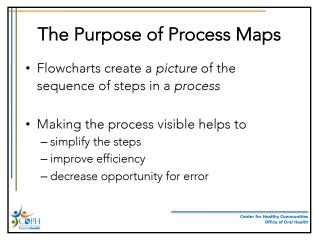


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PLAN – Devel	op your action	plan and data collection plan.		
Objective	What do you important?	hope to learn from this cycle? Why is it	Hypotheses	What do you think will happen when the test is complete? If then
Action Plan	Who	Who is implementing the test? Who and how many are you testing it on?	What	What change are you testing?
	Where/ When	Where will the change take place? When are you going to test it (start/end date, frequency)?	How	How are you going to implement the test?
Required Resources		ces will you need to dedicate to this test ne test? (Staff time, additional FTEs, bud		get approval for additional resources to
Data Collection Plan	What	What information/data is important to collect in the <u>PDSA</u> cycle? What will you measure to determine if your prediction/ hypothesis succeeds?	How	How will the <u>PDSA</u> data be collected? How will you know if the change is an improvement?



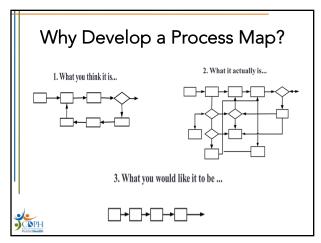
# **Process Mapping Benefits**

- Engages all stakeholders
- Replaces pages of written word with a picture
- Spotlights wasted efforts, delays, missteps and duplication in the process
- Corrects misunderstandings about a process
- Helps build a common understanding and consensus

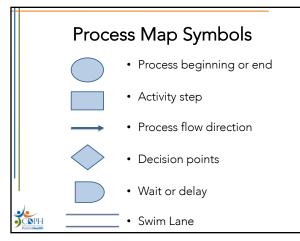
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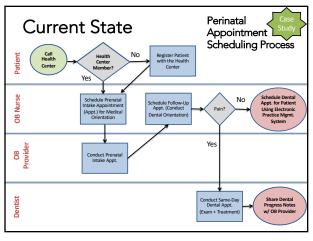
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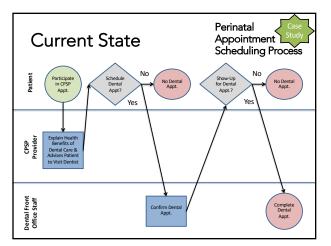
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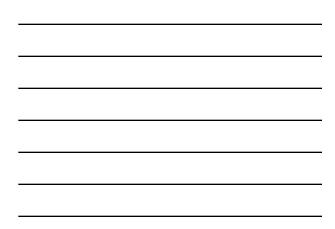


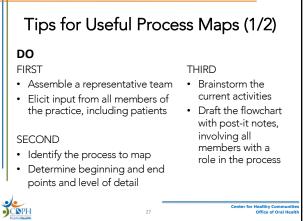




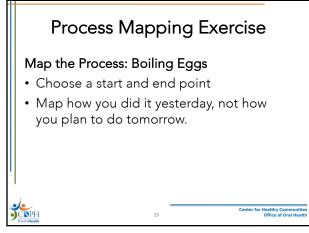


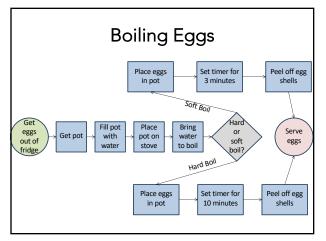




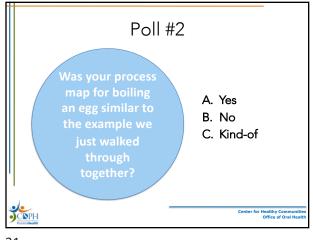


# Tips for Useful Process Maps (2/2) DON'T Have one person or discipline complete the chart Use a pre-determined template Map the process as you want it to be—plot how it actually is today

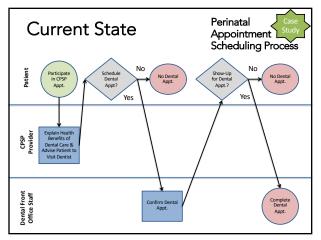




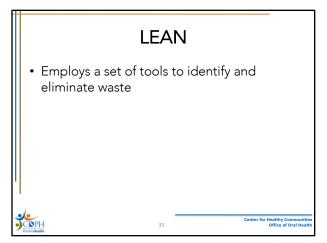


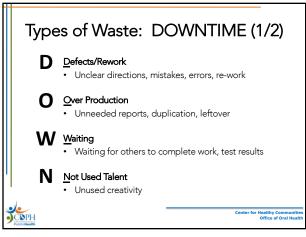


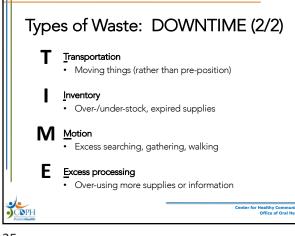




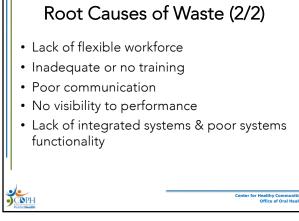


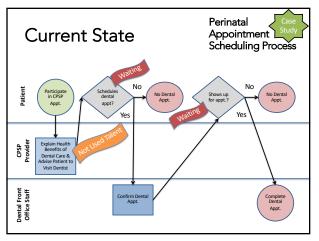


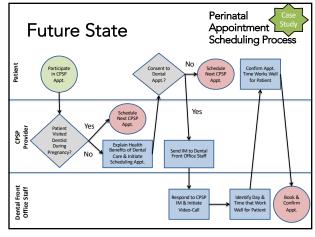






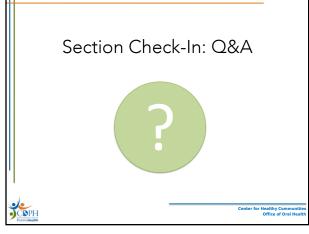


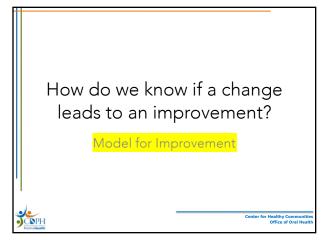


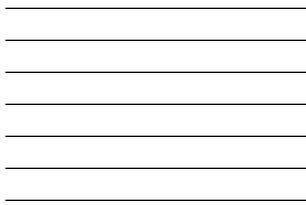


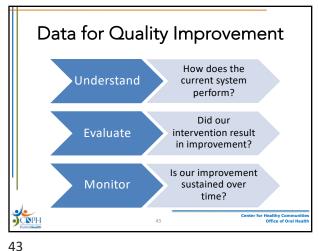


Objective		plan and data collection plan. Skype Instant Messenger (IM) with	Hypotheses	If CPSP uses Skype IM to video-call with
Objective	Dental Office	staff to perform warm hand-offs via decrease CPSP patient no-show rates	hypotheses	Dental Office staff then CPSP patients will be more likely to show-up to their dental appointments and therefore decrease no- show rates.
Action Plan	dy	The CPSP coordinator will identify the pregnant women eligible to participate. The CPSP front office staff and dental office front office staff will participate in the warm- hand-off IM-call. The Office manager will collect the data. CPSP clinic 2 and Dental Clinic A	What	We will implement a process where the front office staff at the CPSP clinic will initiate an IN video-call when the patient completes their CPSP visit between the patient and the denta office. During this call, the office staff will identify a day/time to schedule the CPSP patient's dental appointment.
	Where/ When	CPSP clinic 2 and Dental Clinic A will participate. The test will occur on a daily basis from September 1-30, 2020.	How	Using IM Skype videoconference call.
Required Resources	required: one	ector and Dental Director will need to a from CPSP and one from dental. Skype idget required.		oration. Two FTEs front office staff are icenses will be required (currently in place). No
Data Collection Plan	What	Numerator: Total number of pregnant women seen by CPSP Clinic 2 that completed a dental appointment at Clinic A from September 1-30, 2020. Denominator: Total number of pregnant women seen by CPSP Clinic 2 that schedule a dental appointment at Clinic A from September 1-30, 2020.	How	The denial front office staff will note in Clinic A's scheduling program source of referral as CPSP. The denial office manager will audit Clinic A's scheduling program at the end of the month. Will analyze data using a run chart to determine if special cause variation present and, if present, determine if that change was an improvement.

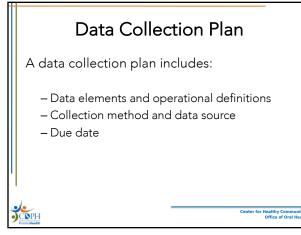


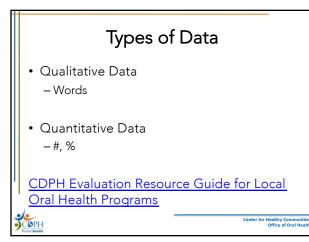












# Measurement Example

#### Goal

Decrease by 10% the number of pregnant women referred by the Comprehensive Perinatal Services Program who miss their dental appointments.

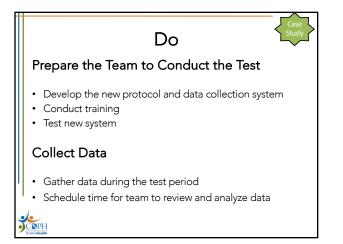
#### Measurement

# of pregnant women seen by the CPSP at Mt. Rose Community Health Center who completed a dental appointment at Mt. Rose Dental Clinic from September 1-30, 2020 (measurement month)

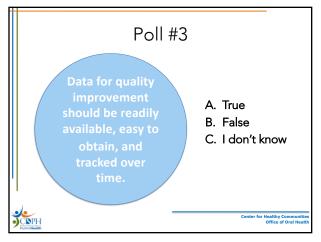
# of pregnant women seen by the CPSP at Mt. Rose Community Health Center who schedule a dental appointment at Mt. Rose Dental Clinic from September 1-30, 2020 (measurement month)

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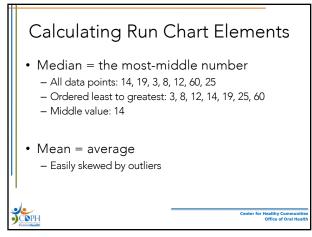
# Run Charts

## Key Elements

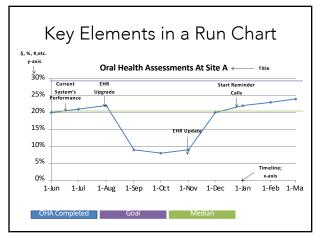
- Graphic Display of Observed Data
- Data Plotted Chronologically
  - x-axis shows the time period
  - y-axis shows the value measured
- Annotations of Improvement-Impacting
   Conditions

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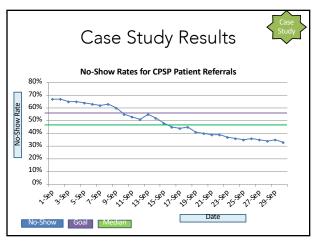
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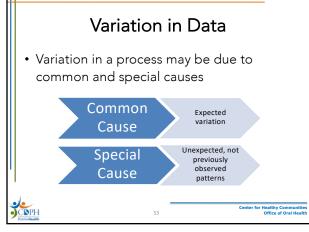
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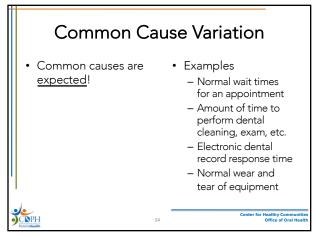




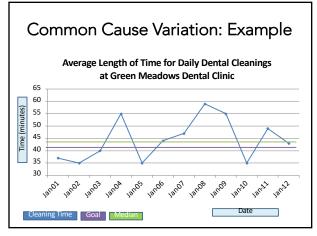


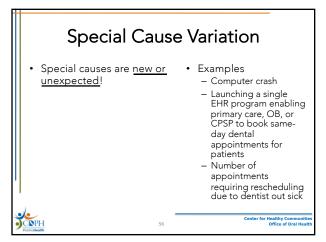


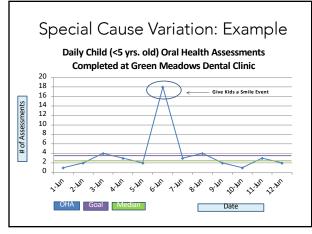




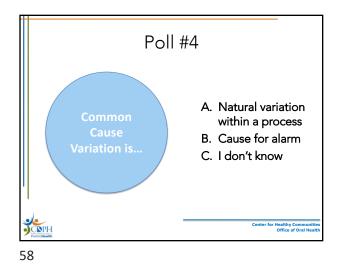














 Poll #5

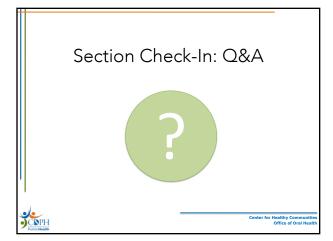
 Special Cause Variation is...

 A. Something new or unanticipated

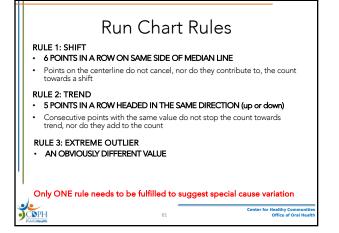
 B. Variation outside of historical knowledge base

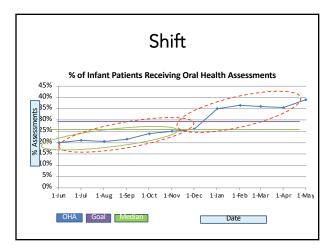
 C. present in order to determine if a change resulted in an improvement

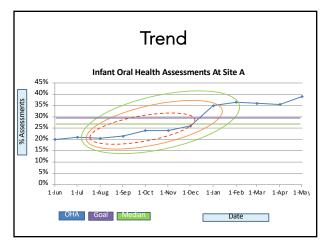
 D. All of the above

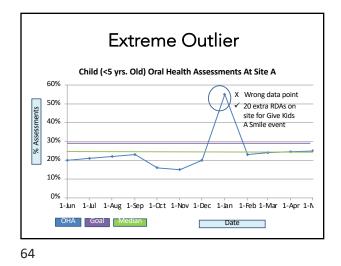






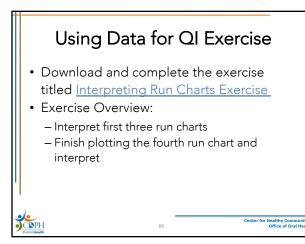




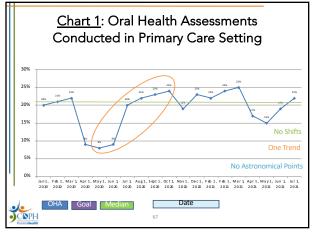




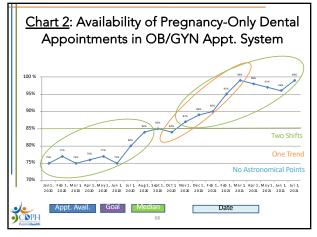
Section Check-In: Q&A





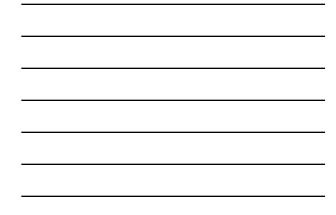


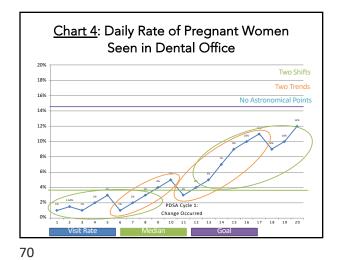






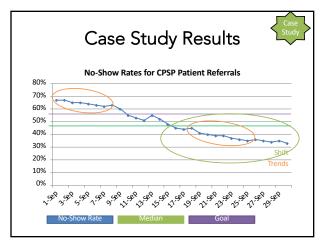






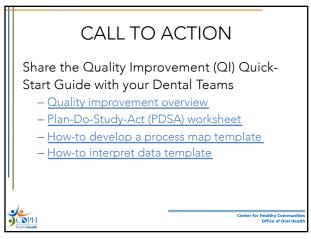


	QI Project: Case Study
DO – Carry out the ch	lange/test.
Was the PDSA	✓ Yes.
Cycle Carried Out	No. It did not go according to plan because: N/A
as Planned?	
Description	Occassionally the CPSP front office staff forgot to initiate the IM upon the completion of the CPSP appointment. We solved this by asking the CPSP front office staff to keep the IM chat open all day. The CPSP patients appreciated the opportunity to speak directly to someone at the dental office and find a time that worked well for them.
Data and Observations	The dental office manager audited Clinic A's scheduling program at the end of the month. The Office Manager used an Excel tracking log to summarize the findings. Data was collected on daily basis. She then interpreted a run chart of the data and saw special cause variation – a shift and a trend in the data was present.





STUDY – Analyze the re	sults and compare the	em to your predictions.	
Summary of Results		rease in the number of pregnant women m	ssing their dental appointments from
	September 1-30, 2	020.	
Did The Results	✓ Yes		
Match Your	No. The measu	red results varied from our predictions beca	use: N/A
Predictions?			
What Could Be	During the next cy	cle, we will create a job-aid for the CPSP fro	nt office staff to remind them to initiate the
Improved?	warm-hand-off refe	erral IM after each patient's CPSP appointm	ent.
	1		
ACT - Identify next step			
		apt, adopt, or abandon the change you test	ed in this PDSA cycle. Select only 1.
	ether you plan to ada	apt, adopt, or abandon the change you test Adopt: Select changes to implement	ed in this PDSA cycle. <u>Select only 1.</u>



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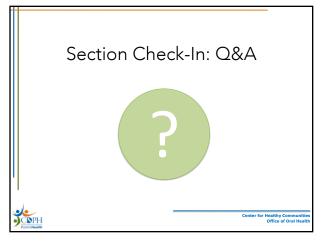


- •SMARTIE goals
- Process mapping
- •Plan-do-study-act cycle
- •Interpreting run charts to determine if a change resulted in an improvement
- •Explain a case study example
- •Share QI approaches, tools, and resources with your dental teams

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## Additional Resources (1/3)

#### American Dental Association

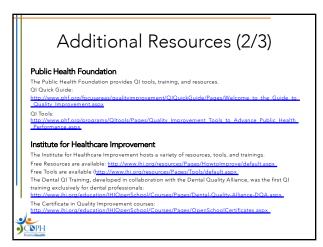
The American Dental Association hosts the Dental Quality Alliance (DQA), which was established to develop performance measures for oral health care. The DQA hosts a variety of resources related to dental quality measures, educational resources, and improvement resources.

Association of State and Territorial Dental Directors The Association of State and Territorial Dental Directors links to a variety of evidence-based quality improvement resources.

#### Centers for Medicare and Medicaid Services

The Centers for Medicare and Medicaid Services issued a report for improving oral health care delivery in Medicaid and CHIP. The report is a toolkit to help state's achieve the CMS Oral Health Initiative through QL. <u>https://www.medicaid.gov/sites/default/files/2019-12/oral-health-guality-improvement-toolkit-for-states.odf</u>

Health Resources and Services Administration The Health Resources and Services Administration published a report in 2011 explaining what OL is, why its important, the fold of organizational leadership, how to prepare for change, the Model for Improvement, and other ropics critical to the investment of SNB offs (number of the second seco ualitvim t.odf • CDPH



# Additional Resources (3/3)

#### National Network for Oral Health Access

The National Network for Oral Health Access developed an operations manual for oral health programs; chapter six focuses on quality. Topics addressed in the toolkit include model for improvement, PDSA cycles, sample quality measures, case studies and moet.<u>https://www.nohs.accetent/fueloads/2013/08/OpManualChapter6.pdf</u>.

Population Health Improvement Partners The Population Health Improvement Partners has eLearning modules (videos), tools and templates to learn about and apply improvement concepts to your work. https://improvemitmers.com/collbacktoolback-detail/cl/videos-tools/.

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