

Measuring to Learn

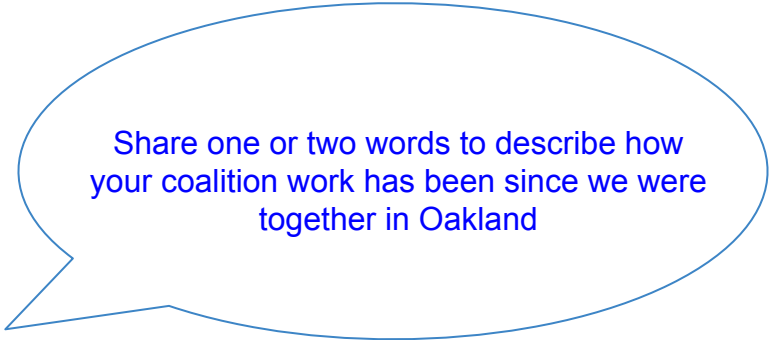
February 25, 2020

Agenda

Welcome, grounding

Measuring to learn from prototypes and PDSAs

Closing, next steps



Share one or two words to describe how
your coalition work has been since we were
together in Oakland

Meaningful Measurement & Tracking

Questions you surfaced about measurement



Measuring for learning as we go

Stage of design, systems thinking, improvement

Evaluation & measurement considerations

Vision & Goal Setting	Frame the opportunity (seeing the system)	Brainstorm & prioritize	Prototype	Testing	Sustaining
How are we progressing towards our goals at a macro level? (May be long term measures)	How can we impact the system - within and across actors?	What is your hypothesis and which ideas will support it? What ideas will have systemic impact?	Is it desirable, viable, repeatable? Does it make a difference? (May be intermediate or short term measures)	What are your hunches behind the PDSAs? Are you building evidence to support further implementation and scaling (deep)?	Which key subset of measures will signal a process 'in control'? What will trigger any necessary actions?

Measuring for learning as we go

Stage of design, systems thinking, improvement

Evaluation & measurement considerations

Examples of measures

Example in practice - Decrease overdoses

	Vision & Goal Setting	Frame the opportunity (seeing the system)	Brainstorm & prioritize	Prototype	Testing	Sustaining
	How are we progressing towards our goals at a macro level? (May be long term measures)	How can we impact the system - within and across actors?	What is your hypothesis and which ideas will support it? What ideas will have systemic impact?	Is it desirable, viable, repeatable? Does it make a difference? (May be intermediate or short term measures)	What are your hunches behind the PDSAs? Are you building evidence to support further implementation and scaling (deep)?	Which key subset of measures will signal a process 'in control'? What will trigger any necessary actions?
	Family of measures (macro): Outcomes Process Balancing	<ul style="list-style-type: none"> # actors involved # power centers # of strategies at landscape, regime, niche 	# of ideas that: <ul style="list-style-type: none"> best address hypothesis we are well placed to do fill a gap in system 	Family of measures (micro): Outcomes, process, balancing	<ul style="list-style-type: none"> # of un/successful PSDSAs Staff/patient/coalition member satisfaction Depth of relationships 	<ul style="list-style-type: none"> # staff completing the process Threshold above or below which an intervention is warranted
	O -% gap in overdose deaths between groups P -# MAT providers B -#s on waitlist	# primary care settings with MAT providers # EDs with MAT providers	# of items on brainstorm list addressing warm handoff process # of prioritized ideas involving new EDs/PCPs	O -# pts starting MAT in ED transferred to MAT in PC P -# MOUs btw ED and PCPs B -staff sat	# times an ED provider starts MAT # times warm handoff initiated	% of successful handoffs between ED and PCP Review triggered if dips below 80%

Measuring for improvement “Quick Hit”

Family of measures

Type of measure	Goal of measure	Examples
Outcomes	Where are we ultimately trying to go?	<ul style="list-style-type: none">• # of OD deaths• # of lives saved by naloxone• % gap in overdoses between groups
Process	Are we doing the right things to get there?	<ul style="list-style-type: none">• # of MAT prescribers• # of school-based educational talks• # of people with lived experience are active members
Balancing	Are there any unintended consequences of our changes?	<ul style="list-style-type: none">• # of incidents of community backlash• waitlists

Tracking measures from your prototype

Prototype Measures Workbook

- Title of prototype
- Goal of prototype
- Description
- Measurement considerations: Is it desirable, viable, repeatable? Does it make a difference?
- Family of measures (numerators, denominator, source, who will collect)
- Run chart

	A	
1	Title of prototype	
2	Goal of prototype <i>What do you hope the prototype will be able to accomplish? Can use the SMART rubric (specific, measurable, achievable, realistic, timebound)</i>	
3	Description <i>Briefly describe how the prototype will be carried out.</i>	
4		A friendly reminder of the measurement considerations (or key question): Is it desirable, viable, repeatable? Does it make a difference? (May be intermediate or short term measures) You will track a "Family of Measures"
5	Outcomes measures <i>Where are we ultimately trying to go?</i>	
6	Process measures <i>Are we doing the right things to get there?</i>	
7	Balancing measures <i>Are there any unintended consequences of our changes?</i>	
8		
9		
10		
11		

Tracking measures from your PDSAs

[PDSA data tracking sheet](#)

- Title of PDSA
- Hypothesis/goal/objective of PDSA
- What piece of data will help you know whether your PDSA is meeting its goal? This should be easy to track.

	A	B
1	Title of PDSA	
2	Hypothesis/goal/objective of PDSA <i>What do you hope the PDSA will be able to accomplish?</i>	
3	Description <i>Briefly describe how the PDSA will be carried out.</i>	
4	A friendly reminder of the measurement considerations (or key questions) for a PDSA: What are your hunches behind the PDSAs? Are you building evidence to support further implementation and learning?	
5	Title of measure <i>Ex. # warm handoffs initiated</i>	
6	Measure definition <i>Ex. # of times the warm handoffs form is filled out correctly</i>	
7	How will it be collected <i>Ex. Ramona will keep track of all the forms that are filled out and input data into the tracking sheet</i>	
8		
9		
10		
11		
12		

Annotated Run Charts

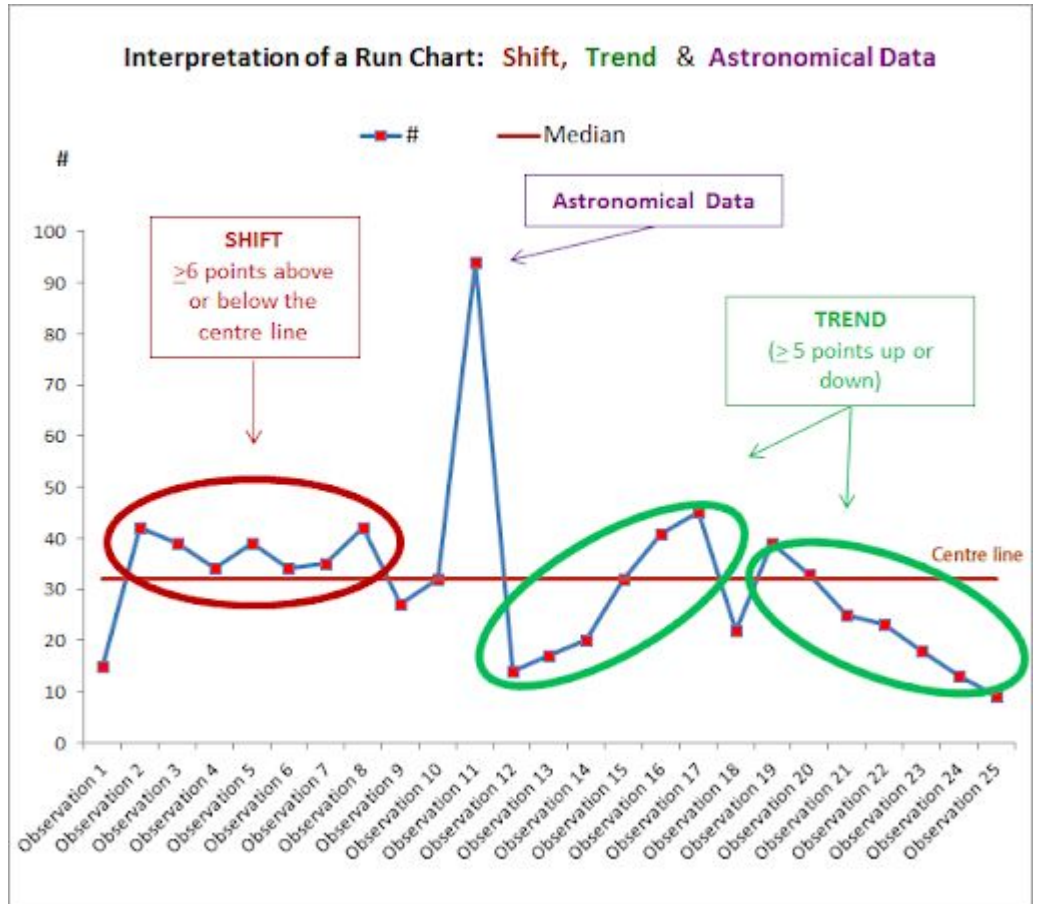
IHI's [run chart template](#)

Simple steps:

- Plot the data in a graph over time
- Plot the median (aka as center line)
- Apply 3 of the run chart rules
- Annotate the chart with PDSAs, explanation
- [Extra step for one of the rules: count the # of runs, i.e., consecutive data below or above the median]

Run Chart Rules

Does your data show
“common cause variation”
or are there signals of
non-random patterns of
variation?



Too few or too many runs

Expected Runs Table

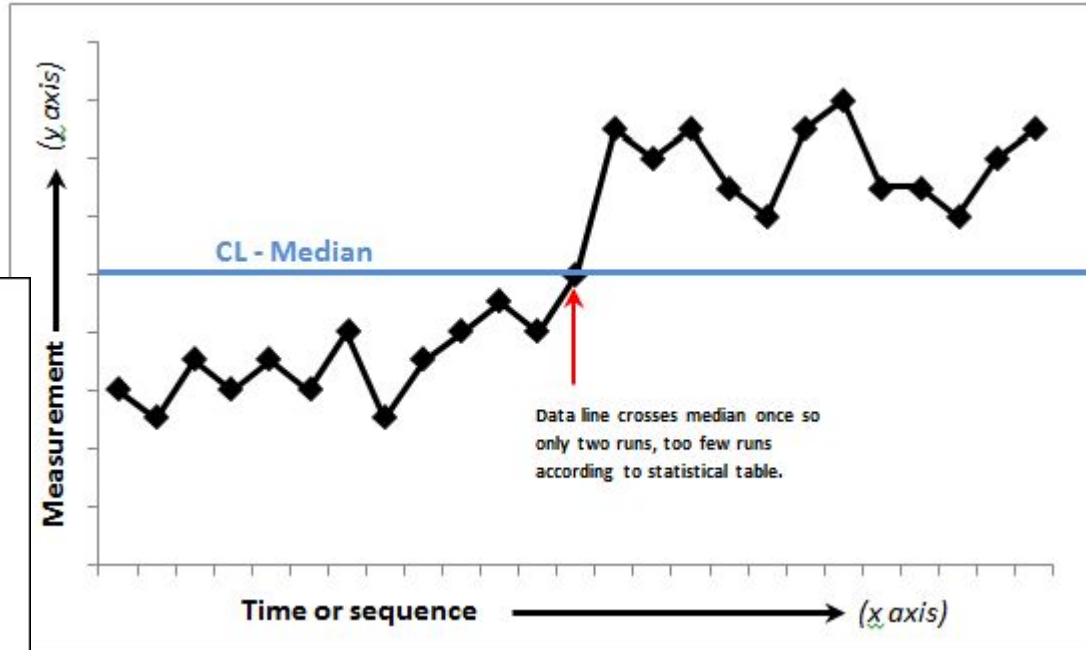
Total number of data points on the run chart that do not fall on the median	Lower limit for the number of runs (< than this number runs is 'too few')	Upper limit for the number of runs (> than this number runs is 'too many')
10	3	9
11	3	10
12	3	11
13	4	11
14	4	12
15	5	12
16	5	13
17	5	13
18	6	14
19	6	15
20	6	16
21	7	16
22	7	17
23	7	17
24	8	18
25	8	18

Checking for too many or too few runs on a run chart. Table is based on about a 5% risk of failing the run test for random patterns of data.

Source: Table 1, Peria et al. (2010), p. 49.

1/3/2015

N not on median	Lower limit	Upper limit
26	8	19
27	10	19
28	10	20
29	10	20
30	11	21
31	11	22
32	11	23
33	12	23
34	12	24
35	12	24
36	13	25
37	13	25
38	14	26
39	14	26
40	15	27
41	15	27
42	16	28
43	16	28
44	17	29
45	17	30
46	17	31
47	18	31
48	18	32
49	19	32
50	19	33
51	20	33
52	20	34
53	21	34
54	21	35
55	22	35
56	22	35
57	23	36
58	23	37
59	24	38
60	24	38



Source: IHI

Databases - What would you like to learn?

The screenshot shows the California Opioid Overdose Surveillance Dashboard. The top navigation bar includes 'California Opioid Overdose Surveillance Dashboard' and a menu icon. The left sidebar contains navigation options: Home, California Dashboard, County Dashboards, Bivariate Map, Data Definitions, Technical Notes, Data Publications, Using the Dashboard, Resources, Contact PDOP, and Find a bug? Report it!

California Quick Stats

2,428 Deaths Related to Any Opioid Overdose, 2018	786 Deaths Related to Fentanyl Overdose, 2018	8,832 ED Visits Related to Any Opioid Overdose, 2018	19,808,224 Prescriptions for Opioids, 2018
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Welcome to the California Opioid Overdose Surveillance Dashboard

The dashboards and data available through this application are the result of ongoing collaboration between the California Department of Public Health (CDPH), Office of Statewide Health Planning and Development (OSHPD), Department of Justice, and the California Health Care Foundation.

Data Available

Data last updated on: 01/13/2020

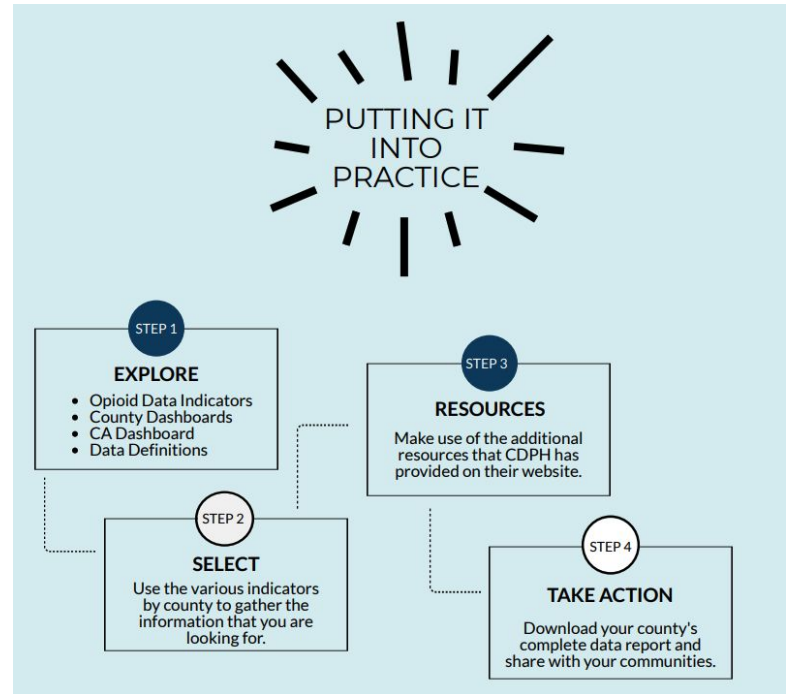
- **Deaths:** 2006* - 2018
- **ED Visits:** 2006* - 2018
- **Hospitalizations:** 2006* - 2018
- **Prescriptions:** 2008* - 2018

*Zip code level data for counties are only available starting in 2010

For more information on what California is doing to address the opioid epidemic, visit the following CDPH sites:

- [Prescription Drug Overdose Prevention \(PDOP\) Initiative](#)
- [California's Approach to the Opioid Epidemic](#)

CDPH
California Department of Public Health



Source: CA Opioid Safety Network