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Creating and Implementing Data Dashboards to Drive Continuous Improvement

Frequently Asked Questions:

- The SJLA Workbook is not required to participate in the SJLA Learning Series. However, if you are
 interested in purchasing a copy, digital downloads of the SJLA Workbook are available for purchase on
 the SJLA website.
- The SJLA Learning Series is not CEU accredited.
- All SJLA Learning Series events to date are recorded and available to view on demand, including copies of slides, on the SJLA webpage.

About Me:



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Learning Objectives

This presentation will help you:

- Understand what it means to create a culture of data-informed continuous improvement.
- Examine the importance of, and ways to, present data with context.
- Identify tips and tricks for creating and implementing effective dashboards.

Agenda:

- Creating a Culture of Continuous Improvement
- Measuring Process
- Presenting with Context
- Thinking About Data Quality
- Creating and Implementing a Dashboard
- Being Persuasive



Introduction:

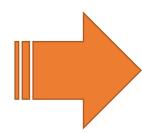
This webinar is intended to build your change management toolkit.

 Use principles from this presentation in conjunction with other SJLA webinars, such as <u>Self-Modification of Anti-Racism Tool (SMART) presentation</u> (<u>July 2022</u>)

Creating a Culture of Continuous Improvement:

Data as a Report Card:

- Used to measure success
- Often binary results: pass / fail, met expectations / fell short
- Emphasis on result, not process



Data as a Tool:

- Used to improve efforts
- Analyze results to harness successes, identify gaps
- Process mindset. The "how" and "why" are just as important as the result
- Embedded into routine decision making and team conversations

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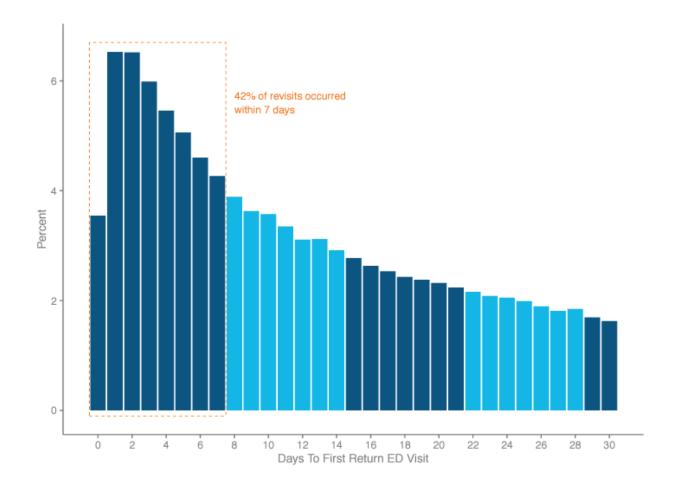
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Grant Program Outcome Goals:

- 1. Reduce avoidable target population emergency department (ED) visits
 - Outcome measure: target population ED revisit rate
- 2. Increase access to and use of community-based services







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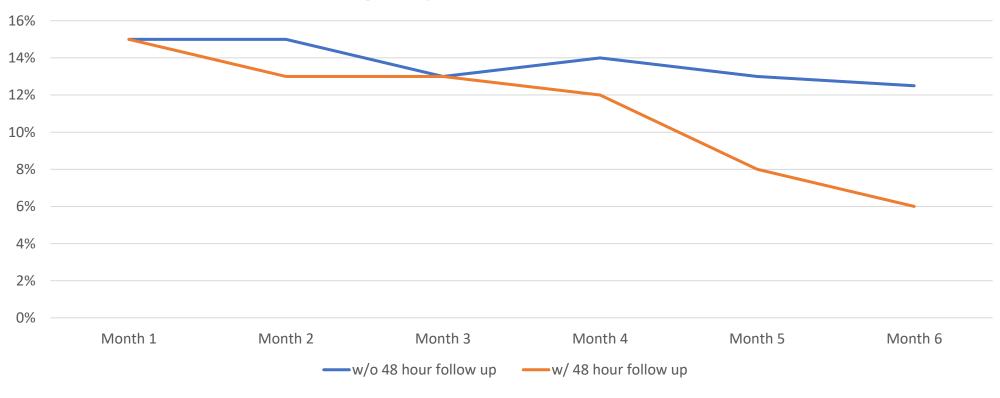
<u>How?</u> If the majority of ED revisits happen within 48 hours, is there an intervention we can implement in that timeframe?

Process: Implement a 48-hour follow-up phone call

Measuring process: Measure whether patients receive a phone call within 48 hours





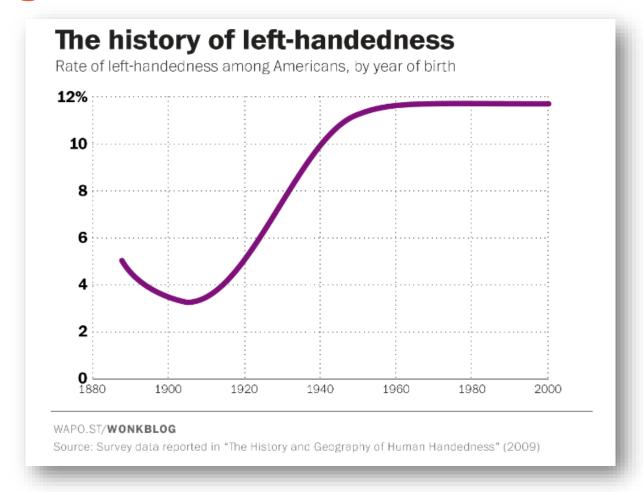




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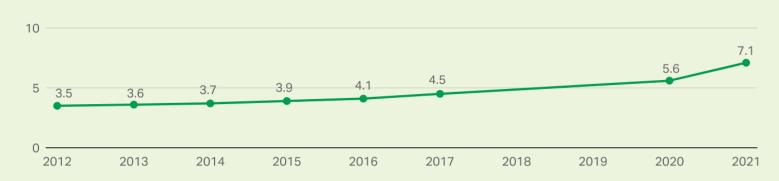
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Americans' Self-Identification as Lesbian, Gay, Bisexual, Transgender or Something Other Than Heterosexual

Which of the following do you consider yourself to be? You can select as many as apply. Straight or heterosexual; Lesbian; Gay; Bisexual; Transgender





⁻⁻Respondents who volunteer another identity (e.g., queer, same-gender-loving; pansexual) are recorded as "Other LGBT" by interviewers. These responses are included in the LGBT estimate.

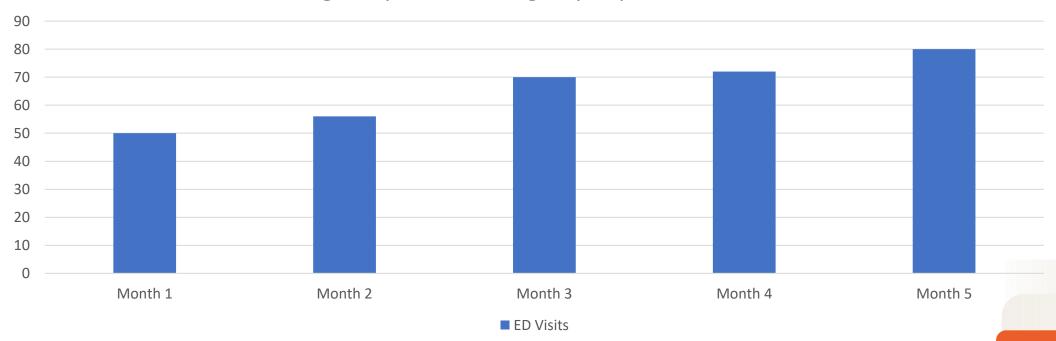
GALLUP[®]



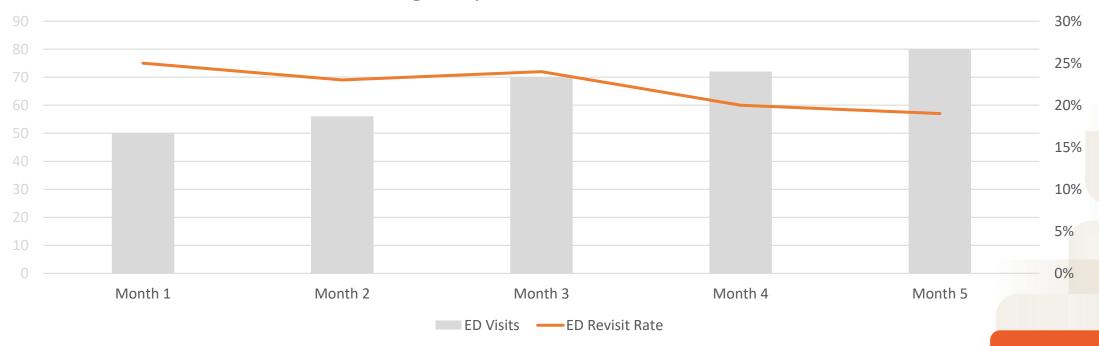
⁻⁻Data not collected in 2018 and 2019.

⁻⁻²⁰¹²⁻²⁰¹³ wording: Do you, personally, identify as lesbian, gay, bisexual or transgender?

Target Population Emergency Department Visits



Target Population ED Revisit Rate



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Thinking About Data Quality:

- Always start with your data collection good data in is good data out
- Be mindful of your comparisons, don't compare apples to oranges
- Identify and implement quality tests for your data
 - If a target population is a subset of all people using your services, that target population should never be larger than the "all" population.
 - If you field a survey, the number of responses shouldn't be higher than the number of people who
 received the survey



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Creating a Dashboard: What is a Dashboard?

Data Report	Dashboard	
Collection of data displayed in an easy to digest way		
Can include charts, visualizations, and tables		
Displays findings	Prompts questions	
Potentially large effort to refresh	Relatively easily replicated and updated	



Creating a Dashboard: Tips

Keep it simple

• Your dashboard should be a tool to help facilitate conversations or to answer quick questions

Present data "at a glance"

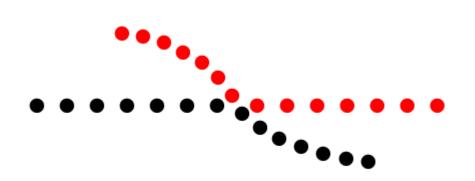
- If it's too busy, your visual will distract from your message
- Think about the takeaways

Think about the workflow

How will you update the dashboard on a regular basis?



Using Visualizations:



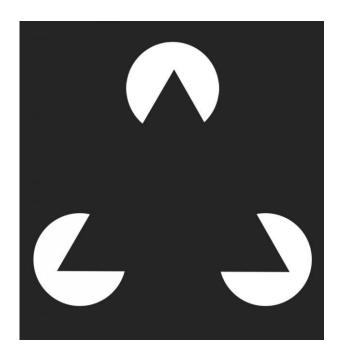




Chart Types: When to Use

	Use for:	Avoid using for:
Bar Chart	Showing change over timeHighlighting exact values	Datasets with a large number of categories
Line Chart	 Showing change over time Showing multiple series on one timeline Highlighting trends more than values 	 Distinct categories that aren't related to each other Small datasets and numbers
Pie Chart	 Small number of categories (5 or 6 max) Highlighting relative (rather than exact) proportions 	Showing change over timeDrawing comparisons between exact values
Scatter Plot	Finding the relationship between 2 measures	 Measures that are not correlated



Chart Types (examples):

LICSW



Admin Staff

Peer Support Worker



Use line charts unless you want to show relationships between datapoints

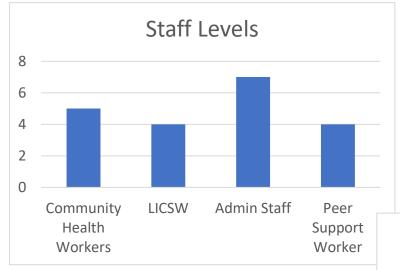
Line charts tend to create perceptions of movement and trends over time

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Community Health

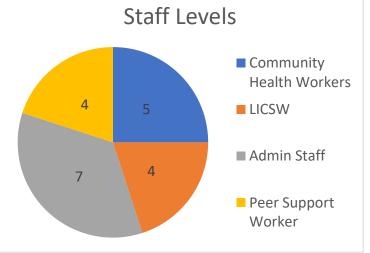
Workers

Chart Types (examples):



INSTEAD

Use bar charts or pie charts to show a snapshot of levels at a point in time





Other Visualization Considerations:

- Color is helpful, but:
 - Consider the connotations (spotlight colors have meaning already assigned, try blue and orange)
 - Think about accessibility



https://www.cbsnews.com/boston/news/bills-jets-nfl-color-rush-uniforms-thursday-night/

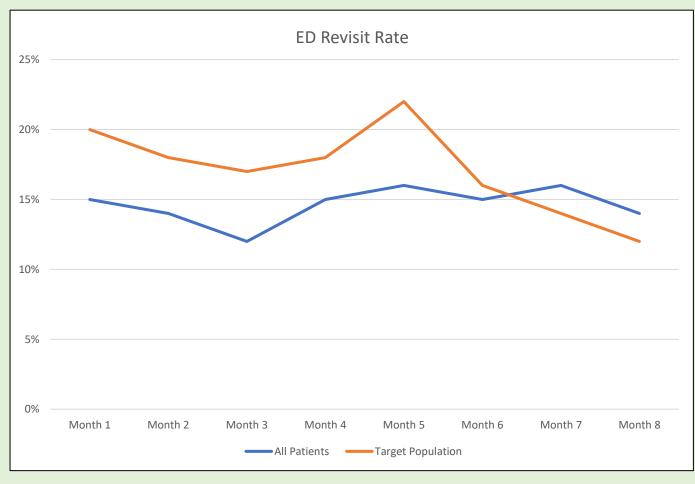


https://www.nytimes.com/2015/11/14/sports/football/when-red-bills-met-green-jets-colorblind-fans-lost.html

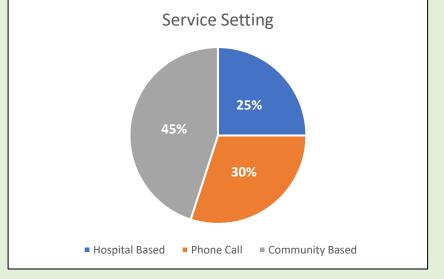


Example Dashboard:

Service Dashboard:

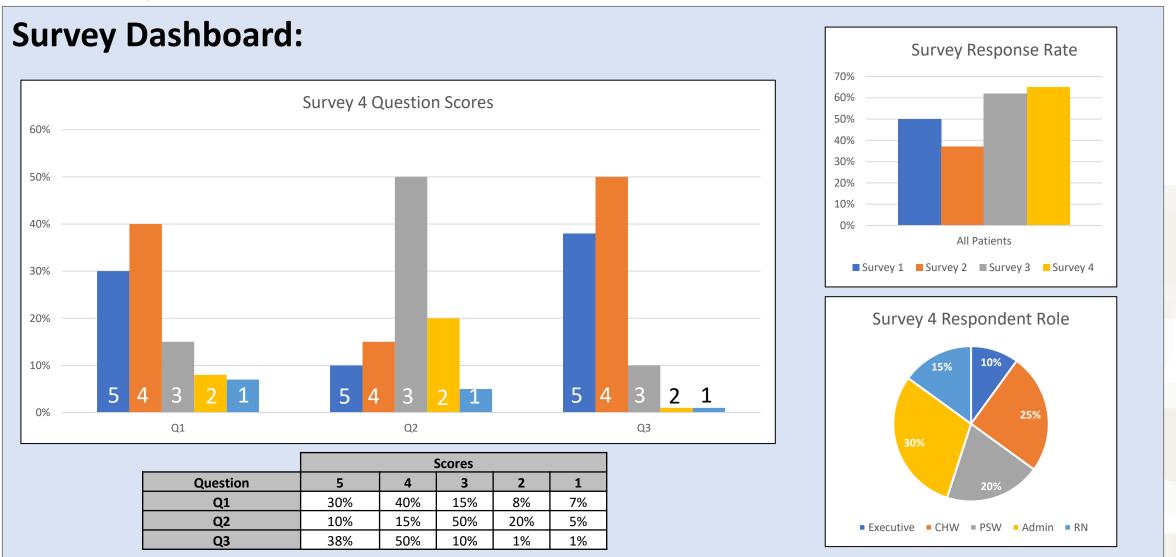






[Mock data for purpose of example]

Example Dashboard:



[Mock data for purpose of example]

Implementing Your Dashboard:

- Keep an open mind
 - Confirmation bias is real! Be open to asking new questions and shifting your thinking
- Welcome fresh eyes
 - Get your team's reactions
 - Context, context, context
- Set a regular review schedule

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Being Persuasive with Data:

Being persuasive is hard!

- Assess, and if possible, align your incentives
- Be realistic about unfortunate realities (\$)
- Don't let the perfect be the enemy of the good a pilot program is better than no program

For more on change theory: January 2023 SJLA Event (available on website)



Additional Resources:

More about outcome vs. process measures:
 https://www.ihi.org/resources/Pages/HowtoImprove/ScienceofImprovementEstablishingMeasures.aspx

 Dashboard example: Washington DC Child and Family Services Administration https://cfsadashboard.dc.gov/

Evaluation



Please provide feedback on this SJLA Learning Series webinar using the QR code on this slide, or by typing the survey url into your browser.

https://www.surveymonkey.com/r/SJLASession11



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Questions about this presentation? Email me at kevinc@thenationalcouncil.org

Questions about the SJLA program? Email us at SJLA@thenationalcouncil.org