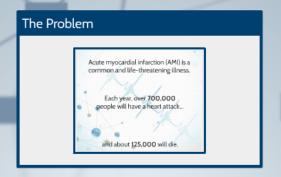




Leadership Saves Lives

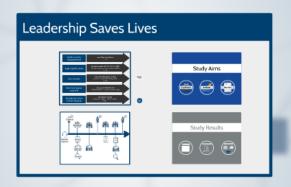
Intervention Improving Organizational Culture









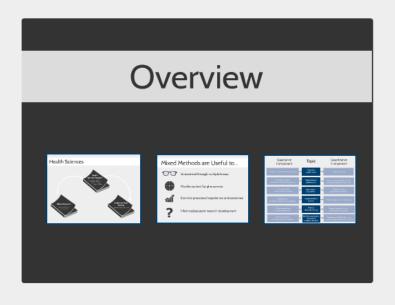




Leadership Saves Lives

Intervention Improving Organizational Culture

Mixed Methods in Health Sciences





Health Sciences

Health Services Research

EX: Measurement development
Organizational performance
Care access and utilization
Patient care experiences

Clinical Research

EX: Healthcare decision making Intervention trials

Implementation Science

What, how, and why, of implementation



EX: Healthcare decision making

Intervention trials



EX: Measurement development
Organizational performance
Care access and utilization
Patient care experiences



What, how, and why, of implementation

Mixed Methods are Useful to...



Understand through multiple lenses



Provide context for phenomena



Examine processes/experiences and outcomes



Inform subsequent research development

Qualitative Component

Topic

Quantitative Component

Context and potential sources of risk

Clinical or quality issue

Frequency of risk

Complex processes and organizational environment

Organizational performance

Factors associated with 30-Day Risk Standardized Mortality Rates

Participant views on intervention protocol

Intervention trials/RCTs

Questionnaire on organizational readiness

Perceptions of facilitators and barriers to adoption

Implementation Science

Rates of adoption and adherence

Patient perspectives on informed consent

Medical decision making

Surgeon-reported factors associated with variation

Identify core facets of the phenomenon (religion

Develop quantitative measure of complex construct

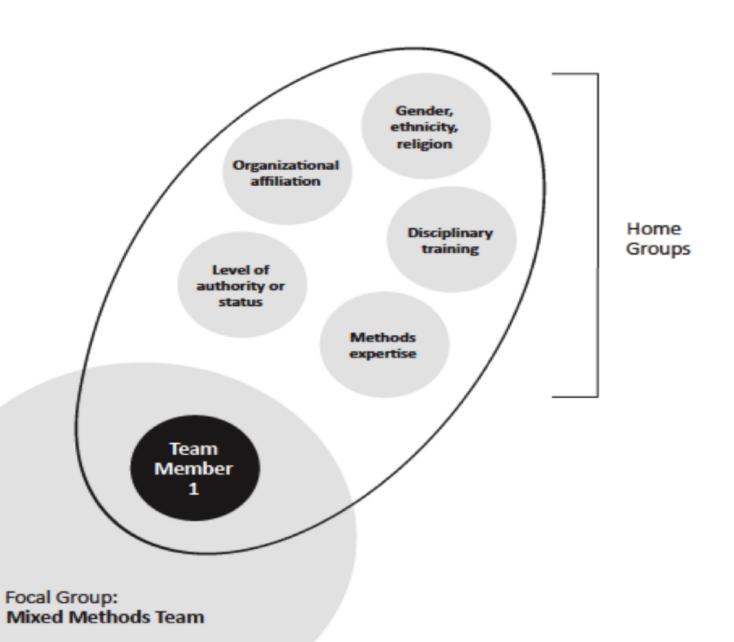
Develop and validate items and scales through psychometric testing

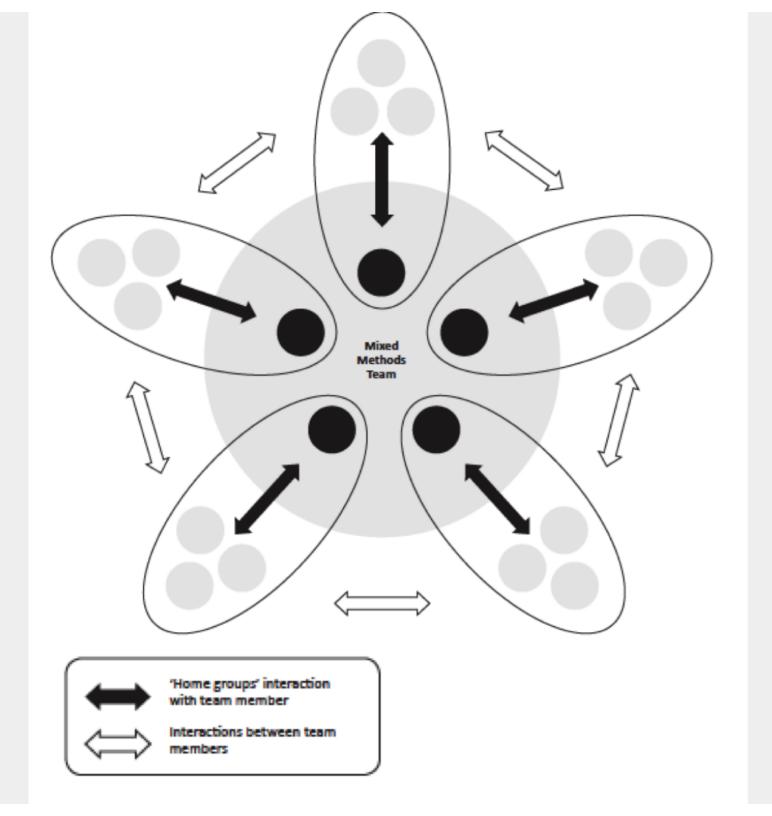
Challenges

- 1 Securing adequate resources
- Writing competitive grant applications

Building & managing mixed methods teams

Multiple Home Groups Represented by Each Mixed Methods Team Member





The Problem

Acute myocardial infarction (AMI) is a common and life-threatening illness.

Each year, over **700,000** people will have a heart attack...

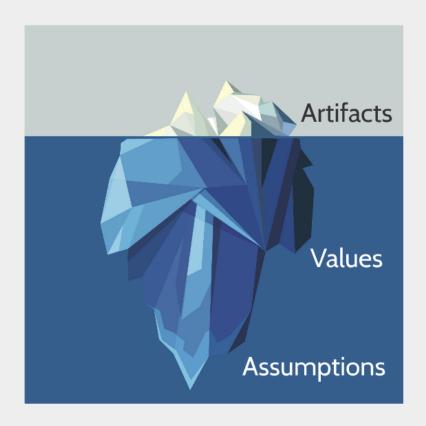
and about 125,000 will die.

Organizational Culture



A pattern of basic assumptions invented or developed by a given group as it learns to cope with its problems of external adaptation and internal integration.

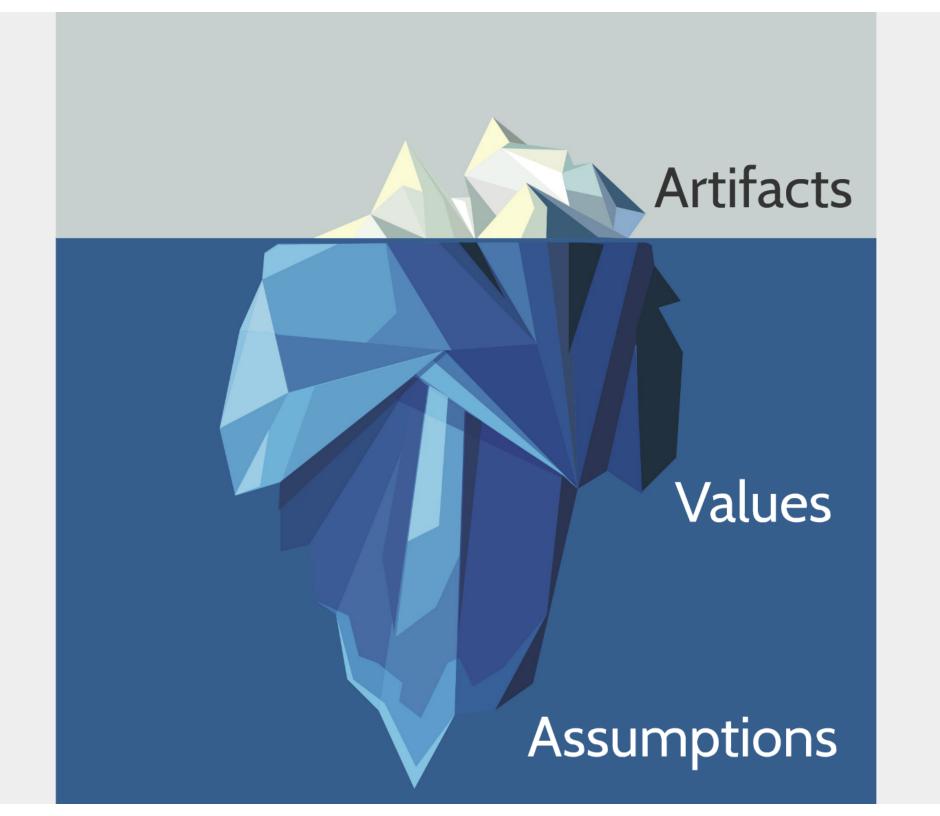
"The way we do things around here."



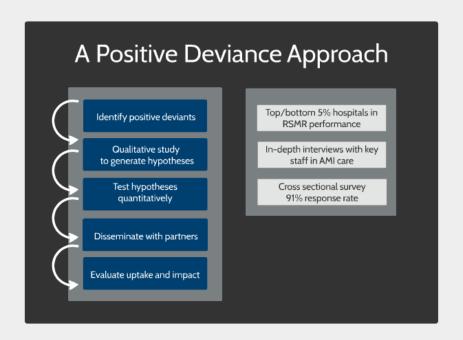
What is organizational culture?

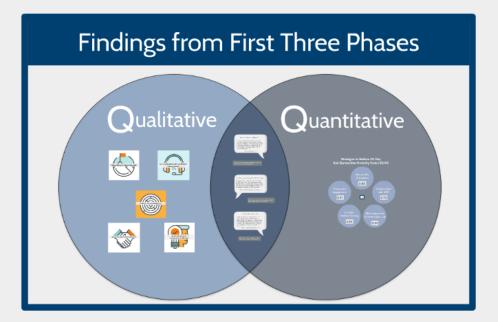
A pattern of basic assumptions invented or developed by a given group as it learns to cope with its problems of external adaptation and internal integration.

"The way we do things around here."



Evidence Base





A Positive Deviance Approach

Identify positive deviants

Qualitative study to generate hypotheses

Test hypotheses quantitatively

Disseminate with partners

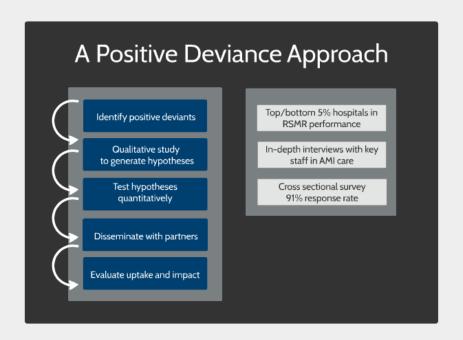
Evaluate uptake and impact

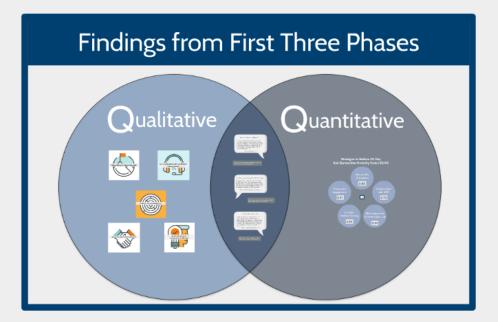
Top/bottom 5% hospitals in RSMR performance

In-depth interviews with key staff in AMI care

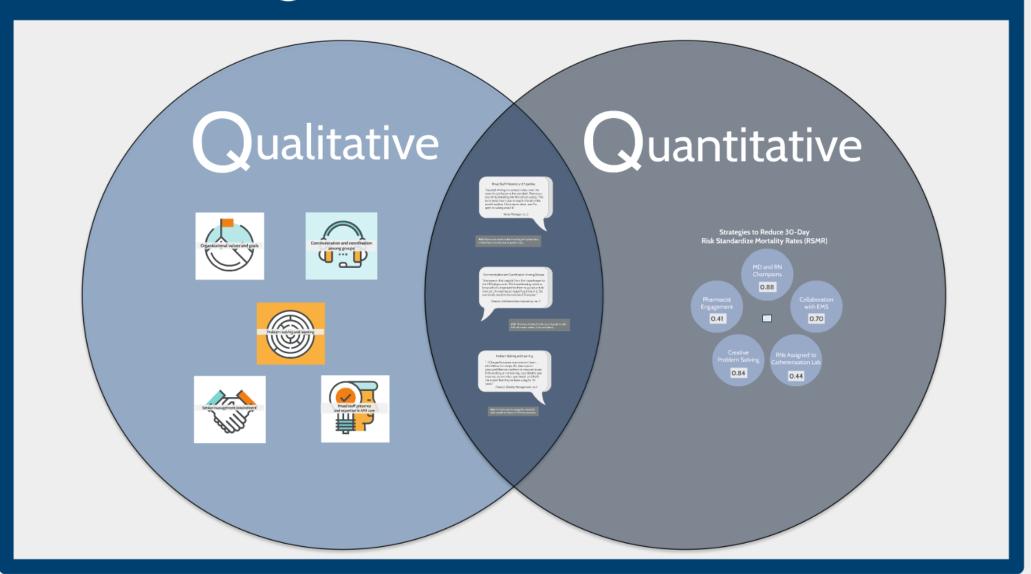
Cross sectional survey 91% response rate

Evidence Base





Findings from First Three Phases





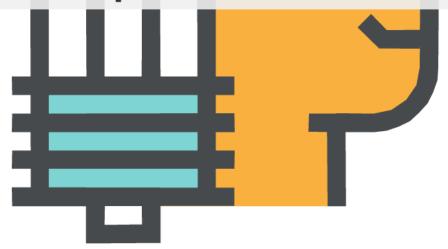








Broad staff presence and expertise in AMI care



Broad Staff Presence and Expertise

"I started writing my consult notes...over the years it's just become the standard...That was a way of my breaking into the culture saying, 'This is my note; I want you to read it. It's not in the nurse's section. I have some ideas...and I'm open to talking about it."

Nurse Manager, no. 5

#65: Nurses are comfortable checking with physicians if they have concerns about patient care.

Communication and Coordination Among Groups

"Everyone in this hospital from the housekeeper to the CEO plays a role...The housekeeping needs to know why it's important for them to go out and do their job...No one has an insignificant role in it...So everybody needs to be educated. Everyone."

Director, Catheterization Laboratory, no. 2

#58: Clinicians involved in the care of patients with AMI value each others' skills and talents.

Problem Solving and Learning

"...[T]he performance improvement team...
identifies action steps, the plan is put in
place,and then we continue to measure to see
if it's working or not working...you identify, you
improve, you monitor, you tweak, and that's
the model that they've been using for 10
years."

Director, Quality Management, no.4

#60: Clinicians are encouraged to creatively solve problems related to AMI care processes.

Strategies to Reduce 30-Day Risk Standardize Mortality Rates (RSMR)

MD and RN Champions

0.88

Pharmacist Engagement

0.41

Collaboration with EMS

0.70

Creative
Problem Solving

0.84

RNs Assigned to Catheterization Lab

0.44

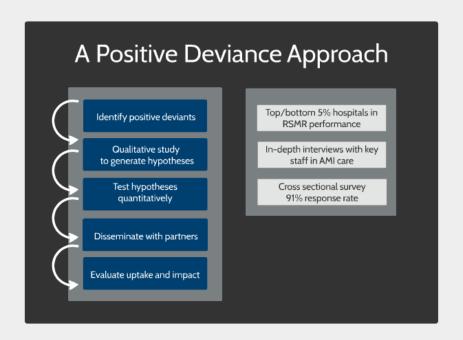
However...

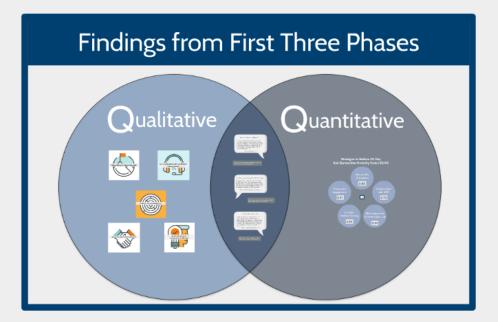
Most hospitals use one strategy.

1% of hospitals use all five strategies.

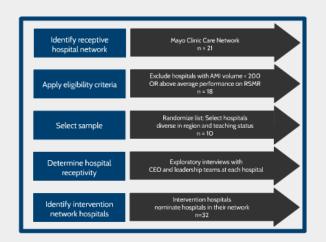
30-Day RSMR is 2% lower for those using all five strategies.

Evidence Base



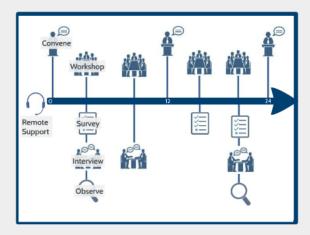


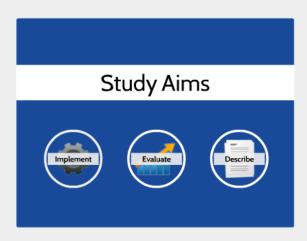
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Study Aims







Identify receptive hospital network

Mayo Clinic Care Network n = 21

Apply eligibility criteria

Exclude hospitals with AMI volume < 200 OR above average performance on RSMR n = 18

Select sample

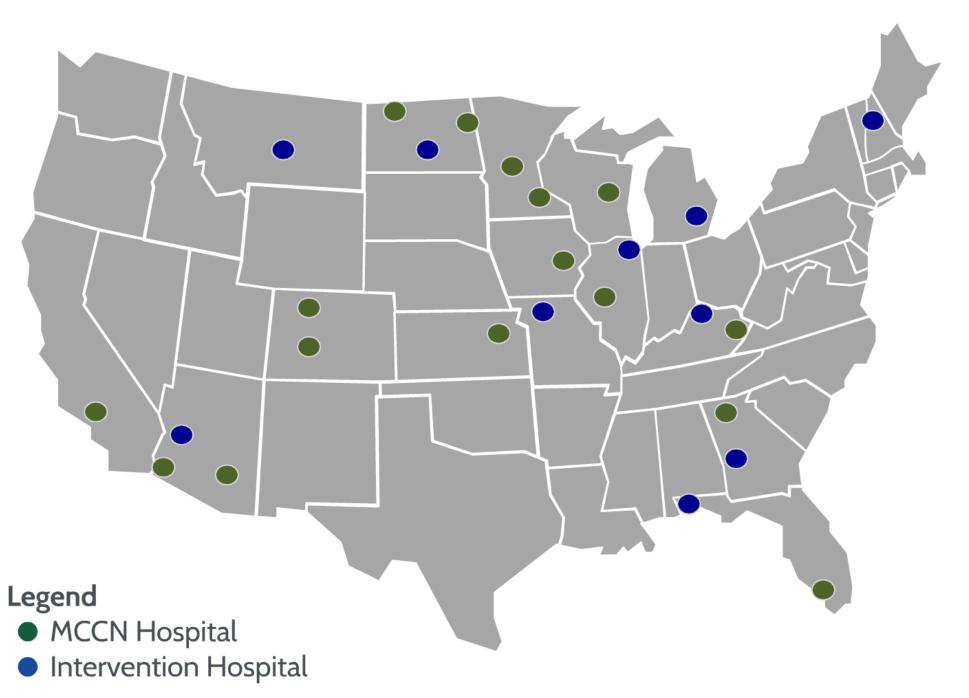
Randomize list; Select hospitals diverse in region and teaching status n = 10

Determine hospital receptivity

Exploratory interviews with CEO and leadership teams at each hospital

Identify intervention network hospitals

Intervention hospitals nominate hospitals in their network n=32



Identify receptive hospital network

Mayo Clinic Care Network n = 21

Apply eligibility criteria

Exclude hospitals with AMI volume < 200 OR above average performance on RSMR n = 18

Select sample

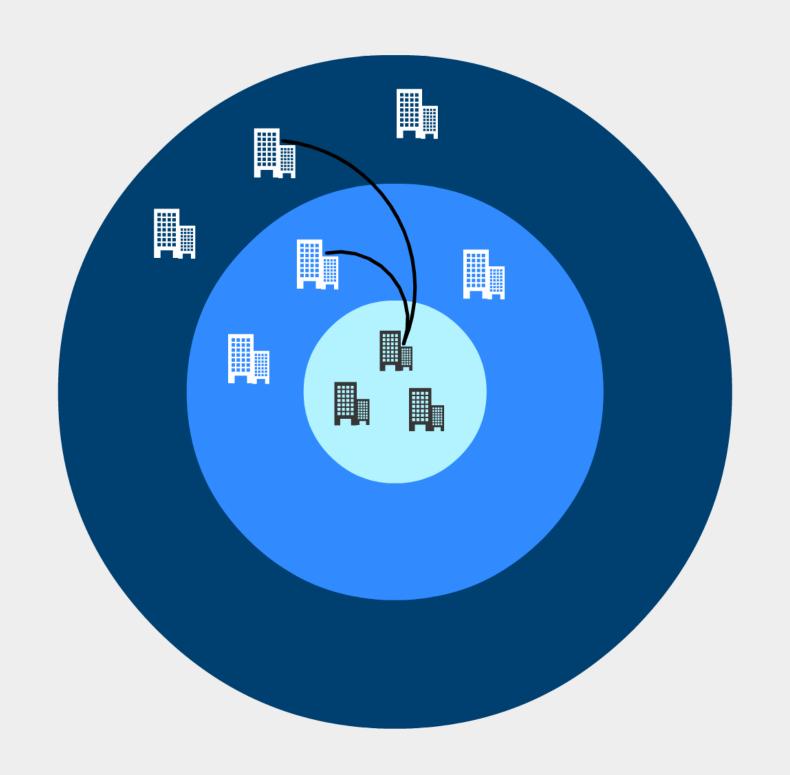
Randomize list; Select hospitals diverse in region and teaching status n = 10

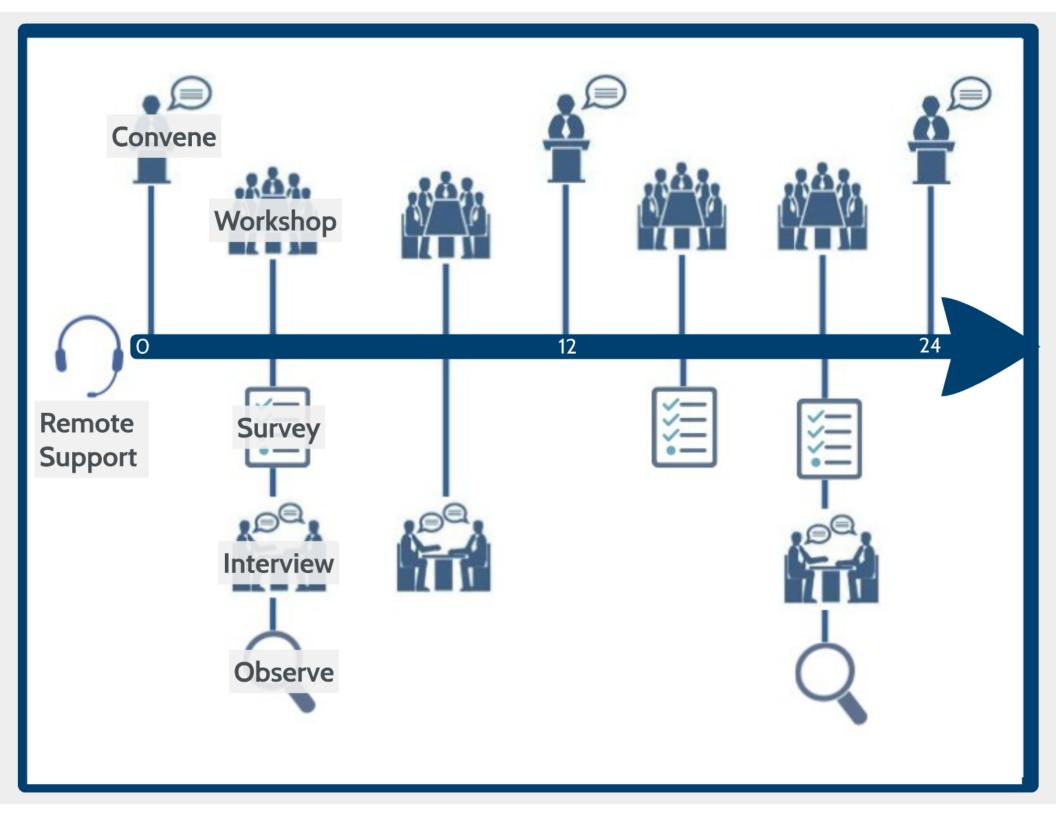
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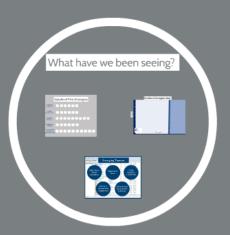




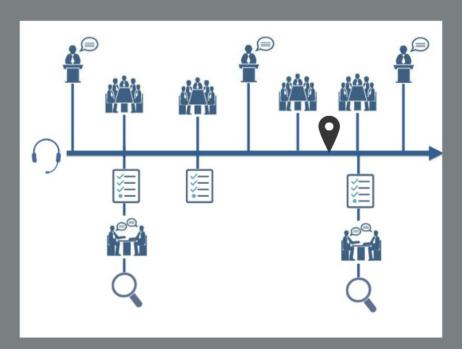
Study Results







Where are we now?



What have we been doing?

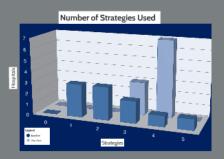






What have we been seeing?







Uptake of Five Strategies

Pharmacist Engagement













Creative **Problem Solving**













MD and RN **Champions**



















Collaboration with EMS













RNs Specifically Assigned to Catheterization Lab











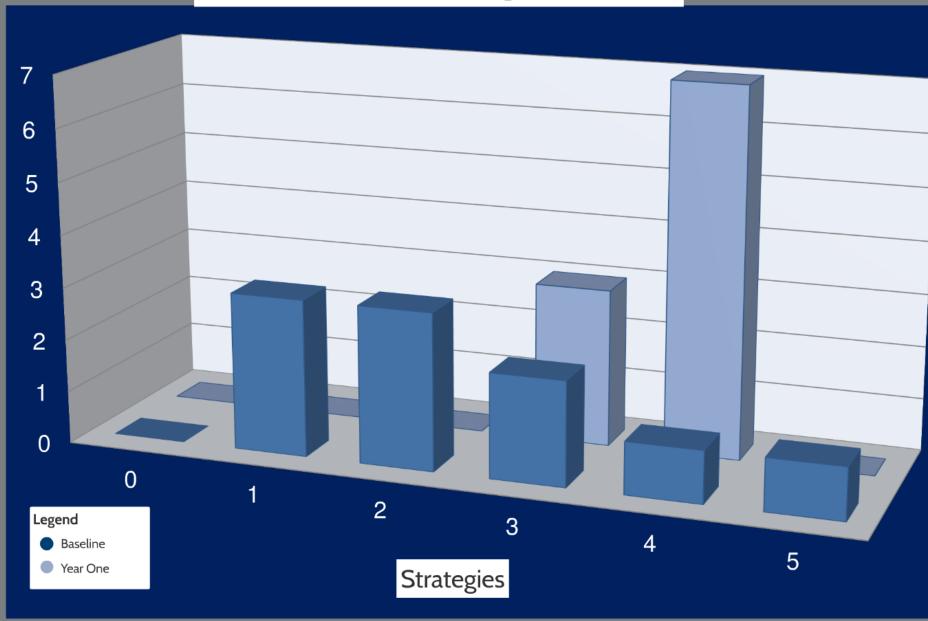












Hospitals



Questions & Contact

Leslie Curry, MPH, PhD

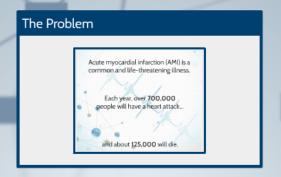
leslie.curry@yale.edu





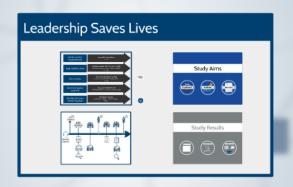
Yale Global Health Leadership Institute













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