

Clinical Safety & Effectiveness Cohort # 8

The "Garfield" Project

September 16, 2011



Greg Orr, MBA has no relevant financial relationships with commercial interests to disclose.

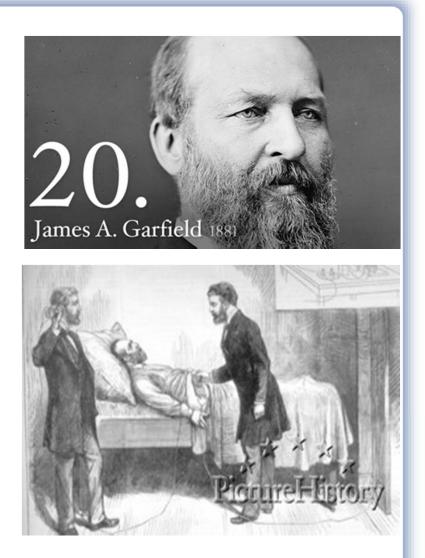
James Souza's, MD financial relationships with commercial interests will be disclosed prior to her presentation.

Geoffrey Swanson's, MD financial relationships with commercial interests will be disclosed prior to her presentation.

Samantha Collier's, MD, MBA financial relationships with commercial interests will be disclosed prior to her presentation.

James A. Garfield

- •20th US President
- •Assassination or Malpractice ???
- Unwashed Surgeon
- Died from the Infection—Not the Bullet



The Team



CS & E Team	ICU/CCU Leadership	Infection Control	Hospital Administration
Samantha Collier, MD Greg Orr, MBA James Souza, MD Geoff Swanson, MD Katie Robinson*	Rick Bassett, RN Carol Bodnar, RN Bill Dittrich, MD Sheri Grabowski, RN Candy Prouty, RN Kristen Blincoe, RN Kristy Gempler, RN Keely Cardwell, RN Jen Brown, RN	Nikki Grae, MS Meredith Hotchkiss, RN	Bart Hill, MD

Project Milestones



- Team Created
- AIM statement created
- Weekly Team Meetings
- Background Data, Brainstorming
- Workflow and Fishbone Analyses
- Interventions Implemented
- Data Gathering & Analysis
- CS&E Presentation

Apr 2011 May 2011 May 16, 2011 – Sep 8 2011 Jun 1, 2011 to Aug 2011 June 2011 July – September 2011 July – September 2011 September 16, 2011

Description of the Problem



- Compliance is positively correlated with decreases in hospital infection rates
- House-wide compliance with HH policy is 41%
 - High of 100% and low of 20%
- Many attempts at education, posters, cajoling, etc. have been made to address the problem.

None have made an impact on compliance rates.

- Board of Directors is concerned and demanding improvement
 - System-wide policy proposed that is punitive and inequitably applied

AIM Statement



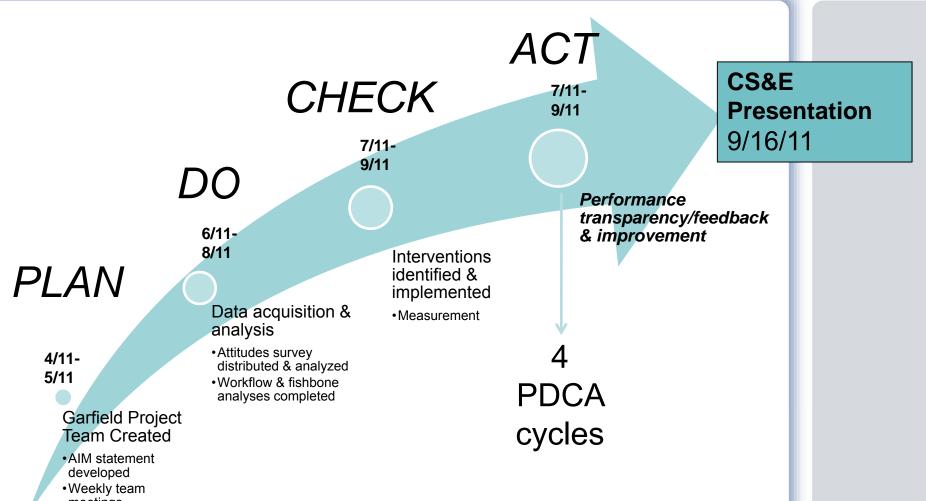
The Garfield Project



"Achieve 100% compliance with SLHS's hand hygiene policy, by September 2011 in the SL-B ICU and all St. Luke's Treasure Valley inpatient units by March 2012."

Garfield Project Timeline

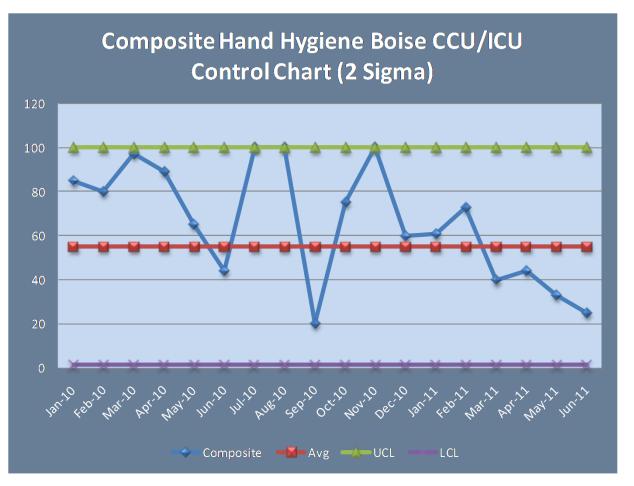




meetings established

Baseline Data for ICU/CCU





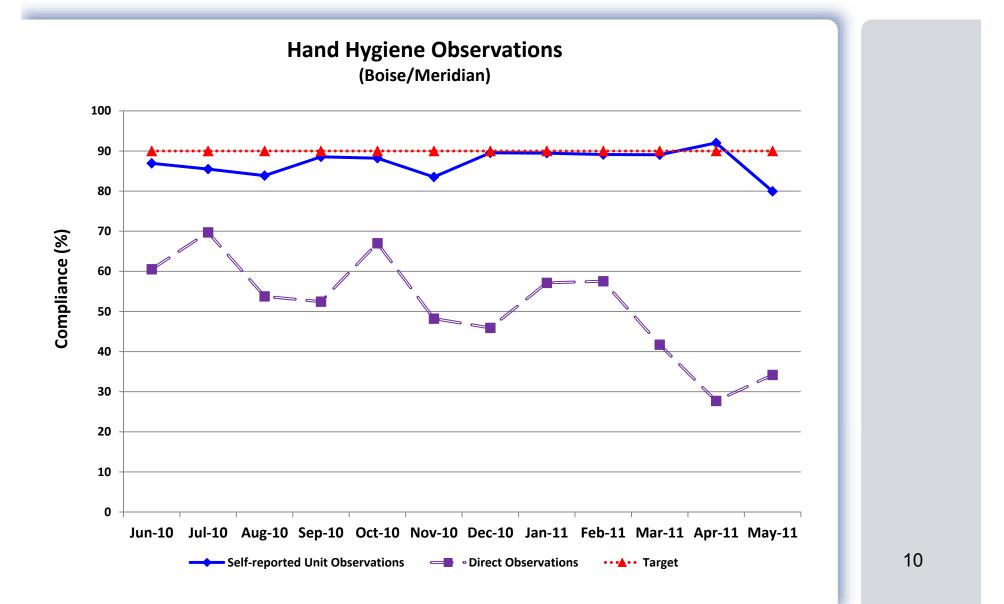
•Variable observation methodology

Process
appears to have
control issues:
Avg = 55%
SD = 26%

•Compliance appears to be decreasing

Self-Reported (Historical) Hand Hygiene Observations





Analysis and Tools



- Gather Data and Review Literature
- •Brainstorm and Initial Data Review
- Fishbone Diagram
- Attitudes and Obstacles Survey
- •Site Visit to Seattle by IC Staff
 - Seattle Children's Hospital
 - Swedish/Cherry Hill
- Weekly Interventions and Run Charts

Barriers, Observations and Opportunities From Staff During Project

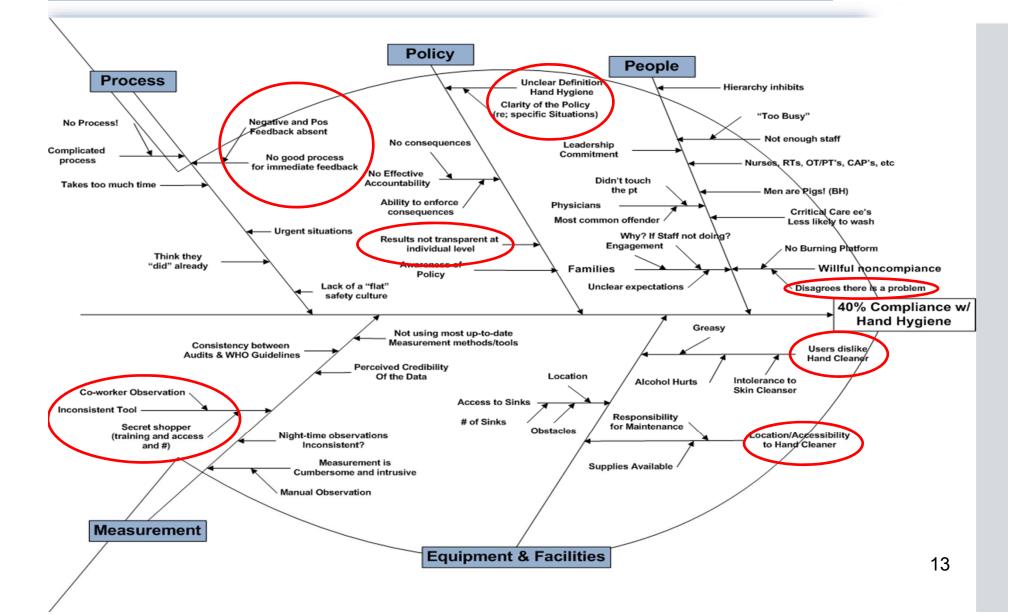


- Isolation room
- Left room with glove to chart
- Entered room to check on the computer
- MD took phone call
- Pt with possible r/o C.diff sanitized hands when exiting room
- Putting on isolation gear
- Hands full
- Left room to get supplies with gloves
- Exited room with phone
- Cookie and phone in hand
- No hand hygiene at all (entry or exit)
- Using phone
- Pushing equipment out of room
- On phone; answered phone while walking out of room

- family meeting
- didn't know had to wash hands enter/exit empty patient room
- Busy with patient decreasing BP; starting pressors
- Went to IV pump
- Busy with new admit (x7)
- Wheeling in BiPAP
- MD grabbed chart from room
- Carrying multiple supplies/equipment into room (x3)
- Patient desaturating; took off BiPAP
- Admitting OH pt (x2)
- Carrying towel into room

A Fish Called "Garfield"





Key Interventions



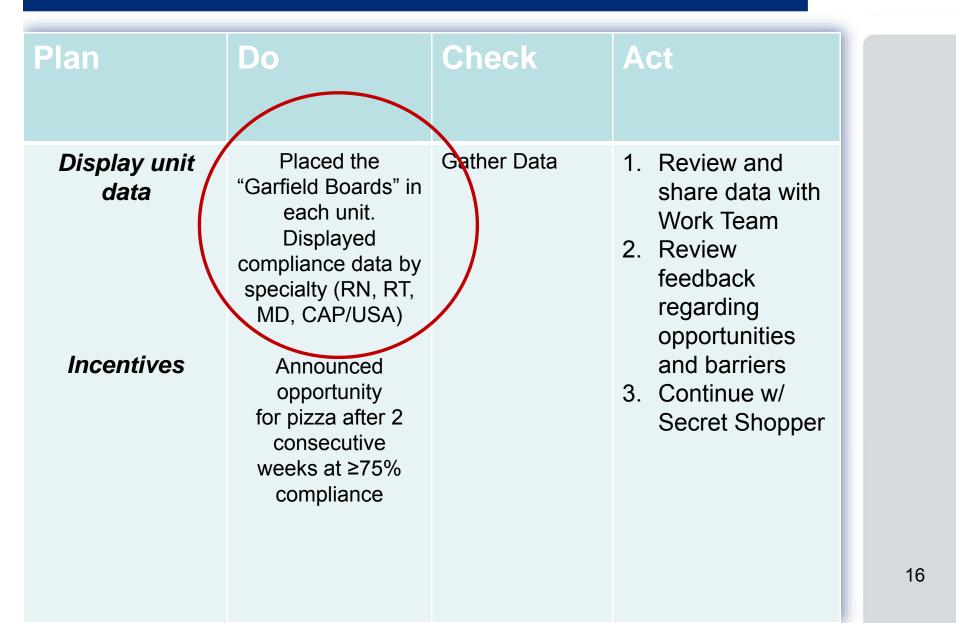
- Revised Hand Hygiene Policy
 - •Modified the "5 Moments" of HH •Before and After contact with patient and/or environment and/or gloves
- Education
 - •All Staff & Physicians (intensivists) in ICU/CCU
- Garfield Boards in each unit
- Posted data by dept & caregiver type •RN's, CAPs/USAs, Physicians,RT's
- Pizza Incentive
- "Have you Seen Dr. Garfield?"
- •Transparent compliance data





PDCA # 2





Garfield Project Boards





Magnetic Whiteboards in Units

In central work area (physician dictation and nurse work areas

Purpose

- Raise Awareness of Project
- Provide Education
- Provide Feedback in the form
- of data & encouragement

Solicit feedback and ideas from staff

Maintained by the unit





Plan	Do	Check	Act
Individual and 'Real-time' Feedback	Leaders and staff coached on how to remind co-workers using the phrase: "Have you seen Dr. Garfield?"	 Gather, review and share data with work Team Limited success 	 Continue monitoring Review feedback regarding opportunities and barriers Move to Week # 4 Intervention

PDCA # 4



Transparency:



Garfield Project

Our ICU core staff has been observed either washing or using gel on their hands while entering/exiting a room. This is a listing of the number of times each staff member was observed either yes (washing their hands) or no (not washing their hands).

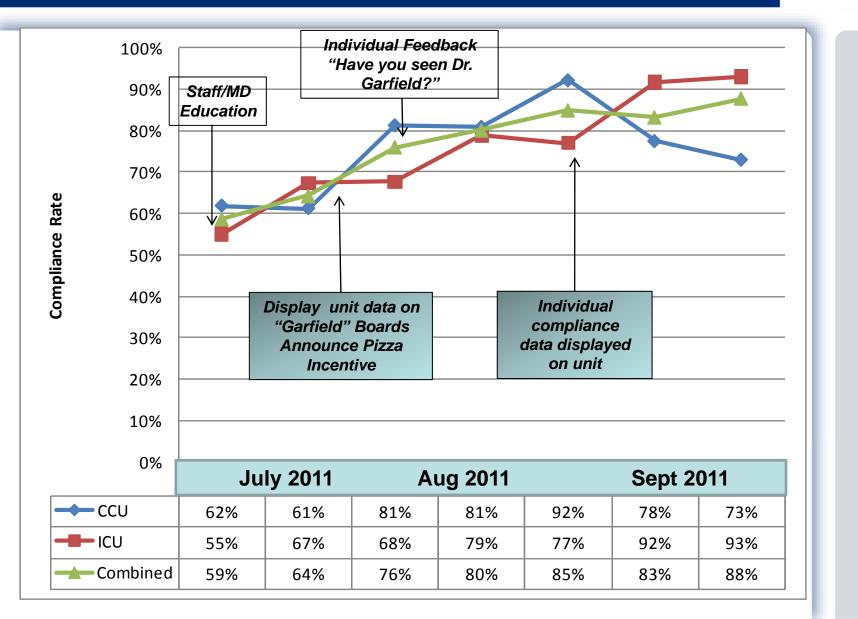
		Week 1		Week 2		Weel	Week 3		Week 4		Week 5	
		# of Observations	Compliance	# of Observations	Complianc							
A	Suzanne	0	na	5	80%	2	100%	0	na	4	100%	
Ał	Kristen	0	na	0	na	0	na	0	na	0	na	
Al	Tiffany	0	na	0	na	0	na	0	na	0	na	
Ba	Jana	1	100%	0	na	4	0%			0	na	
Ba	Mark	0	na	2	50%	1	100%	0	na	0	na	
Bolinan	Carol	0	na	1	100%	0	na	0	na	0	na	
Ci	Keely	0	na	3	100%	2	100%	0	na	0	na	
Cl	Winston	0	na	5	40%	1	0%		0	1	100%	
C	Kristen	3	66%	2	100%	5	100%	0	na	0	na	
De	Donna	1	0%	0	na	0	na	1	100%	0	na	
Falsie	Susan		na	1	100%	0	na	3	66%	3	33%	
Filtek	Grace	1	100%	1	100%	Û	Па	Û	па	2	100%	
Filaciaen	Kristina	0	na	1	100%	0	na	0	na	0	na	
Glassia	Traci	1	100%	1	100%	0	na	3	100%	1	100%	
Ha share she in	Memnuna	0	na	7	58%	0	na	0	na	1	100%	
Ha	Katerine	0	na	2	100%	0	na	0	na	0	na	
He moore	Stephanie	2	50%	0	na	11	45%	3	0%	5	40%	
He innick 🚽	Erica	0	na	2	0%	4	75%	3	100%	0	na	
st	Britt	0	na	0	na	<u>0</u>	na	1	100%	4	100%	
Jo ngensen	Kimberly	0	na	3	100%	1	100%	0	na	5	80%	
Ke	Angela	3	66%	2	100%	Û	Пd	7	na	0	na	
Landredd	Becky	0	na	0	na	0	na	4	100%	0	na	
Le	Sang	3	66%	2	0%	3	33%	2	100%	0	na	
Natesay	Wendi	0	na	1	100%	1	100%	1	0%	2	100%	
Mehrennen	Catherine	0	na	0	na	1	100%	0	na	0	na	
Niphol	Troy	0	na	3	66%	2	100%	4	100%	2	0%	
Ni	Heather	0	na	4	100%	Ž	100%	Û	Па	0	na	
Pa	Cindy	9	11%	5	0%	6	0%	0	na	4	75%	

Letter from Dr. Souza to all ICU/CCU staff and physicians

Each name & rate of compliance posted on the "Garfield" board of each unit.

Hand Hygiene Compliance Rates Post Intervention Boise Adult CC Units





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Return on Investment



Cost of Hospital Acquired Infections

Summary of Total Excess Costs & Hospital Days due to Hospital Associated Infections (Treasure Valley- CY2010)							
	Total Excess Costs	I Total Excess Hospital Days					
34	\$37,672.00	68					
42	\$1,411,953.00	710					
8	\$217,408.00	92					
66	\$1,274,130.00	792					
15	\$116,281.00	81					
100	\$409,622.00	600					
265	\$3,467,066.00	2343					
\$13,083							
8.8							
	Image: cy2010 (milling) Total Infections 34 42 8 66 15 100 265 \$13,083	Total Infections Total Excess Costs 34 \$37,672.00 42 \$1,411,953.00 8 \$217,408.00 66 \$1,274,130.00 15 \$116,281.00 100 \$409,622.00 265 \$3,467,066.00					

SL's Infection Control reports zero HAI's in the Boise Adult Critical Care Units since July. Too early to tell if related to project, but will continue to monitor rates of infection and HH Compliance.

Conclusions



- Change management can be difficult
- •We were able to use rapid cycle improvement techniques to improve hand hygiene compliance in two units
- Monitoring compliance is labor-intensive
- It is likely that a "consequences" intervention will be needed to further increase compliance toward 100%
- Technology may be key to achieving our goal

Lessons Learned On Change Management

St Luke's

- Creating a sense of urgency
 - System Hand Hygiene Proposal
 - St. Luke's move toward accountable care
- Link the project to the organizational vision
- Engage the front line
 - Identification of supply chain issues
 - Education of staff
 - Identification of "Unique Situations"
- Celebrate short-term wins

Barriers We Still Need to Overcome



- The recalcitrant few: Some will not be able or willing to change
- Change the culture (it comes last, not first)
 - The <u>shared value</u> we hope to create is patientcenteredness
 - The failure of the "Dr. Garfield" intervention makes it clear that we are not there
 - The reaction of some to the public posting of results shows we are not yet there
- The best way to cement the change will be to demonstrate results





- Continue the Garfield Team meetings to keep the momentum up
- Decide on a "consequences" component
- Measure, measure, measure—prove that it works
 - •Track HAI rates against hand hygiene compliance as a long-term outcome measure
- Investigate the ROI on a technological solution to monitoring and compliance
- Take it out to other units



Thank You San Antonio!



Questions?