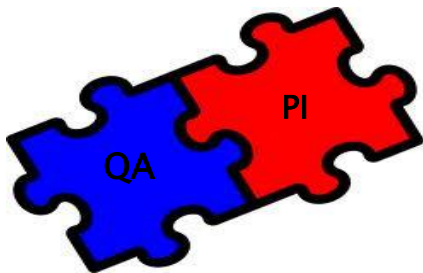


ADVANCED QA/PI FOR ASCs

Presented by Cathy Montgomery, RN







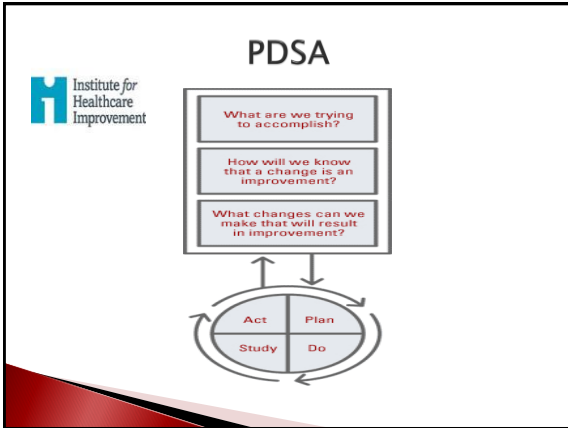


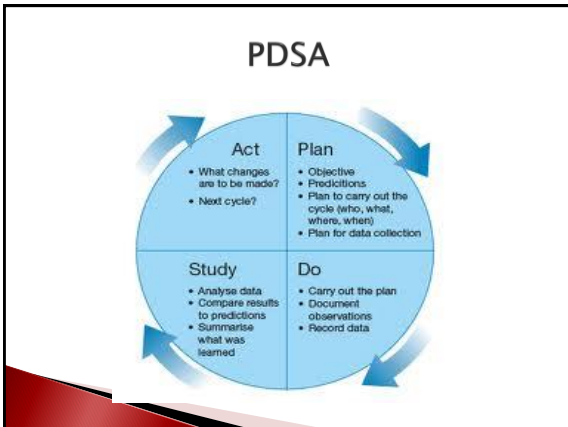
Quality Assurance

Quality Assurance (QA)
Quality assurance can be characterized as a focus on current outcomes, with a retrospective (look-back) view of "what happened". Often, this is done out of a need to ensure compliance and proper follow-up of identified issues.

Performance Improvement

Performance improvement can be thought of as a system that makes things better. Unlike quality assurance, which focuses on compliance, performance improvement focuses on "systems issues" that cause poor outcomes.





- PDSA**
- Setting Aims – overall goal you wish to achieve
 - Testing Changes – small sample
 - Implementing Changes – broader scale
 - Spreading Changes – spread to other areas

QA/PI "Parts"



It Takes Teamwork



Root Cause Analysis

"Root" cause of an issue is important to discover...your only hope to ensure the issue does not return.



Root Cause Analysis



Don't just swat mosquitoes...
drain the swamp.

Root Cause Analysis

A process for identifying the basic or causal factors that underlie variation in performance.

*Always perform RCA for **Sentinel Events**



"An unexpected occurrence involving death or serious physical or psychological injury or risk thereof"

21 Steps – Root Cause Analysis

Preparation

- Organize a team
- Define problem
- Study problem

Proximate Causes

- Find out what happened
- ID process contributing factors
- ID other contributing factors
- Collect and assess data
- Interim changes

Root Causes

- ID systems involved
- Prune list
- Confirm root causes

Action Plan

- ID risk reduction strategies
- Formulate improvement actions
- Evaluate actions proposal
- Design improvement
- Ensure plan acceptability
- Implement plan
- Develop measures
- Evaluate improvement efforts
- Take additional action
- Communicate results

Steps for RCA

1

Organize a Team/Pick a Leader

- Leaders lay the groundwork – credibility
- Keep size of team manageable
- Multidisciplinary
- Choose individuals closest to the event
- Look for diverse knowledge
- Establish ground rules

Steps for RCA

2

- Define the problem
- Focus on what happened, not why
- Obtain all the details

Steps for RCA

3

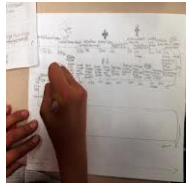
- Study the problem
- Collect information related to the event
- Facts/witness statement
- Physical evidence



Steps for RCA 4

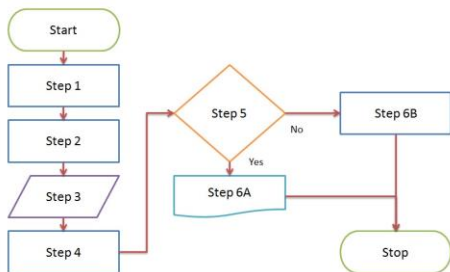
Determine What Happened

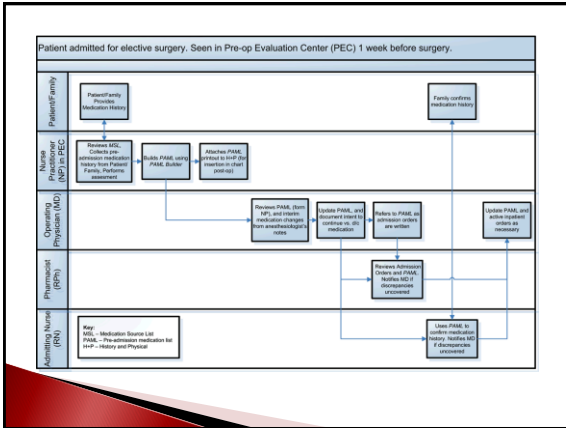
- Chart out sequence (timeline of events)
- Flow chart the ideal sequence
- Flow chart P&P steps





Sample Flowchart





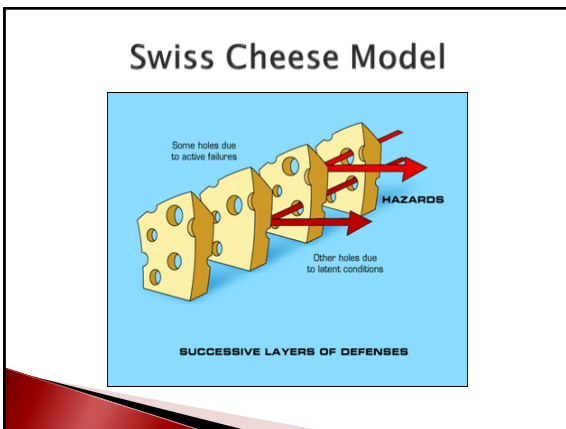
Steps for RCA

5

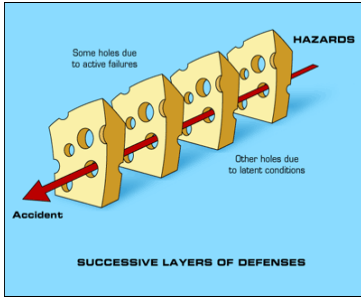
Identify Contributing Process Factors

Why did the event happen?

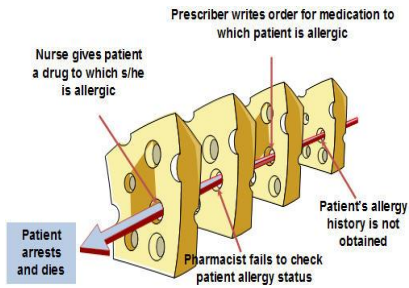
- Which processes were involved?
- What are the steps in the process?
- What is currently done to prevent failure?
- Was it done? Why not?
- Who else was affected?

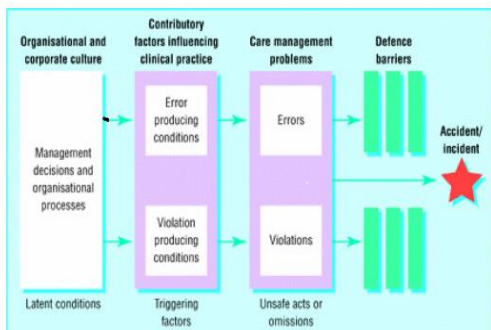


Swiss Cheese Model

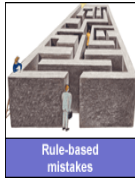


Swiss Cheese Model





Anatomy of an Error



Steps for RCA 6

Identify Other Contributing Factors



General Root Causes

1. Communication
2. Orientation/training
3. Patient assessment
4. Staffing levels
5. Availability of information
6. Competency/credentialing
7. Procedural compliance
8. Physical environment
9. Continuum of care
10. Organization culture

Most Common Root Causes of Medical Errors

1. Communication problems
2. Inadequate information flow
3. Human problems
4. Patient-related issues
5. Organizational transfer of knowledge
6. Staffing patterns/work flow
7. Technical failures
8. Inadequate policies & procedures

Fishbone Diagram

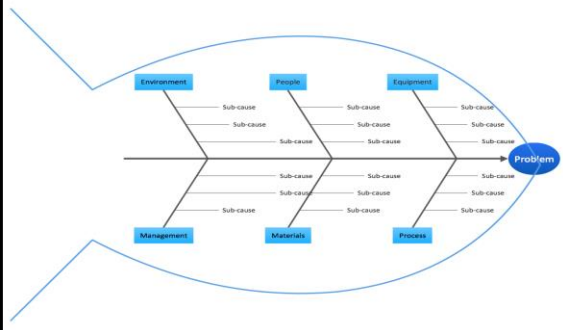
When to go fishing?

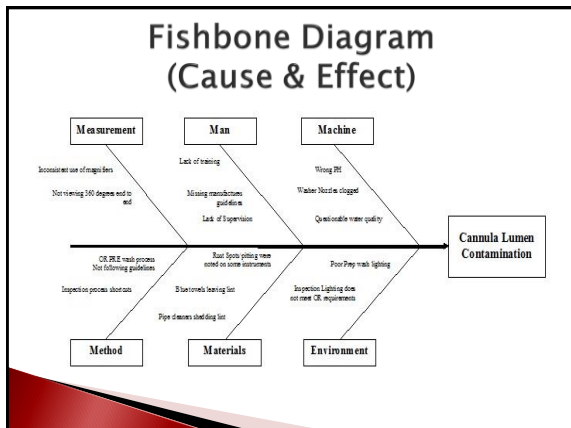
- When trying to identify possible causes
- When thinking tends to fall into a rut

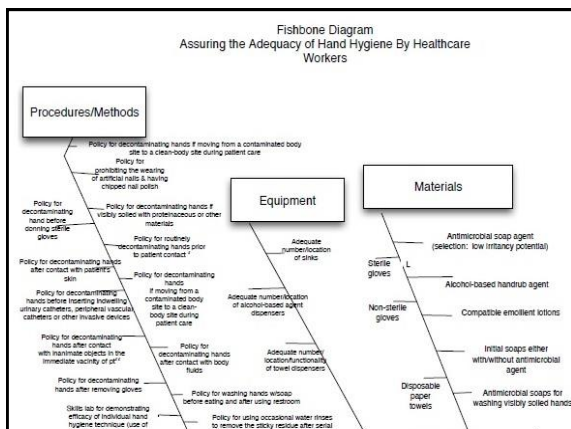


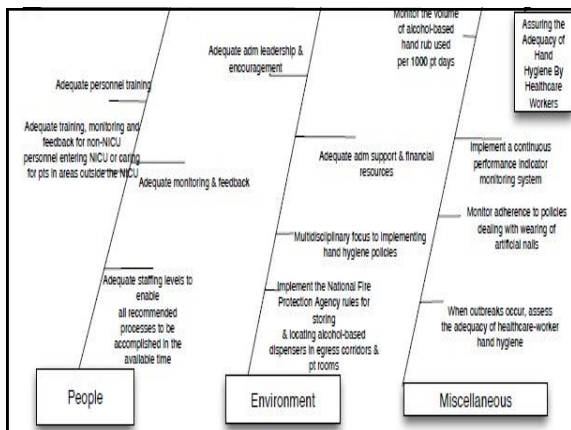
*Works best as a team

Fishbone Diagram (Cause & Effect)









The Process

- Identify the problem
- Brainstorm categories
- Use generic headings when needed
- Ask, “why does this happen”, and assign to a category. Can be in multiple categories.
- Can have sub-causes

Tree Diagram

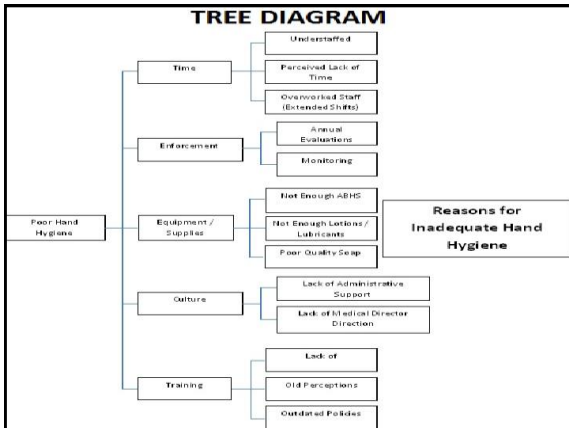
3 Different Types

1. **Planning:** Used proactively in planning and organizing
2. **Problem Solving:** Used reactively in problem solving (also called root-cause tree)
3. **Analysis:** For decision making or problem analysis

Tree Diagram – Planning Type

Improving Customer Satisfaction in a Grocery Store





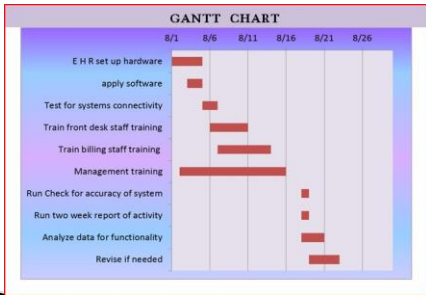
RCA
7
Measure and Collect the Data

- Baseline data
- Ongoing
- Comparison

RCA
8
Design & Implement Interim Changes

- Immediately do the quick fixes
- Decide on your timeline

Gantt Charts



RCA 9

Identify Which Systems are Involved

- Identify underlying causes for the proximate cause
- Drill down using the fishbone, flowchart, or tree analysis

RCA 10

Prune the List of Root Causes
The Big 3???

1. Would the problem have occurred if Cause #1 had not been present?
2. Will the problem recur due to the same causal factor if Cause #1 is corrected or eliminated?
3. Will correction or elimination of Cause #1 lead to similar events?

NO = root cause
YES = contributing cause

RCA 11

Confirm Root Causes

Risk – Reduction Strategies

- Systems approach – do not blame individuals
- Each stage of system development

Error Prevention Strategies

- Systems should be designed to absorb errors
- Look to “mistake proof” when possible

RCA 12

Explore & Identify Risk – Reduction Strategies

Failure Mode & Effect Analysis (FMEA)

- Determine the severity of the potential cause
- Determine the probability
- Design a system to absorb errors
- Training & retraining
- Create a safe reporting environment

RCA 13

Formulate Improvement Actions

- Directed at process
- Use the tools we referenced earlier



RCA 14

Improvement Action Goals

- Address a root cause
- Offer a long term solution
- Offer a more positive than negative impact on other processes
- Be objective and measurable
- Defined implementation time
- Assign accountability

RCA 15

Design Improvement

- What?
- How?
- When?
- Who?



RCA 16

Ensure Acceptability of the Action Plan

- Focus on process
- Identify responsibilities
- Identify timeline
- How will you evaluate the action plan

RCA 17

Implement the Improvement Plan

- Scientific Method: Plan, Test, Study, Implement
- PDSA: Plan, Do, Study, Act

RCA 18

Collect Data

- Risk Manager, Infection Preventionist, Analyst...
- IT assist?



RCA 19

Evaluate Implementation Efforts

- Internal comparisons
- External comparisons
- Practice guidelines/parameters
- Performance targets



RCA
20

Take Additional Steps
POSITIVE

- Communicate results
- Revise processes or procedures
- Complete all retraining
- Plan for continued monitoring
- Roll out improvements to other areas

RCA
20

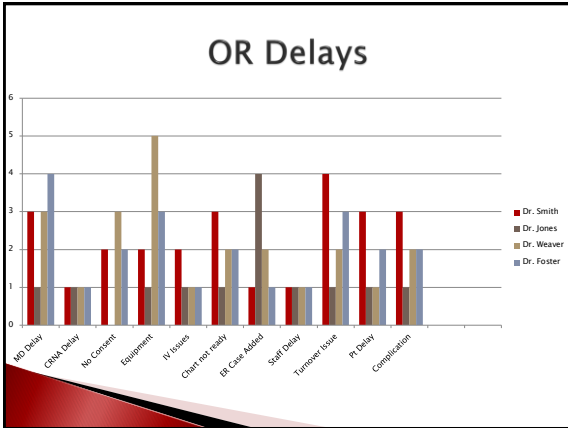
Take Additional Steps
NEGATIVE

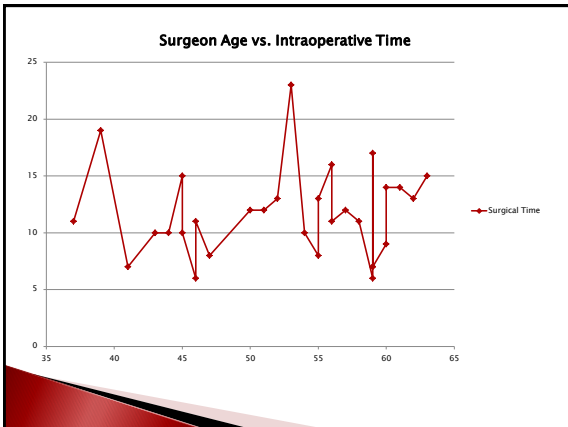
- Double check implementation
- Reconfirm the root cause
- Identify risk reduction strategy
- Plan continued monitoring
- Roll out to other areas

RCA
21

Communicate the Results

- Communicate throughout the process
- Any proposed changes
- New or revised policies
- Celebrate your success





VSMs

Value stream maps are effective tools for facilitating incremental improvements to complex healthcare processes.

Lean Enterprise Institute

Thomas Jefferson University

Operating Room Patient Flow

- Physician Offices
- OR Scheduling
- Pre-Admission Testing
- Registration
- Pre-Procedure Preparation
- Patient Transport
- OR
- Environmental Services
- PACU

1. Staff & Patient Interviews

- Constant changes to the OR schedule on the day prior and the day of
- Poor communication
- Excessive processes
- Inadequate technology
- Workflow variation across all disciplines

2. Gemba Walks

Japanese term that stands for the place of action.



QA/PI

- Show your work
- Illustrate your brainstorming activities
- Outline your plan
- Document your findings
- Charts, lists, graphs
- Celebrate your improvements

QA/PI Advanced Skills

Please email your questions and comments to:

cathy@excellentiagroup.com
Excellentia Advisory Group, LLC
1-636-875-5088