## **Root Cause Analysis**

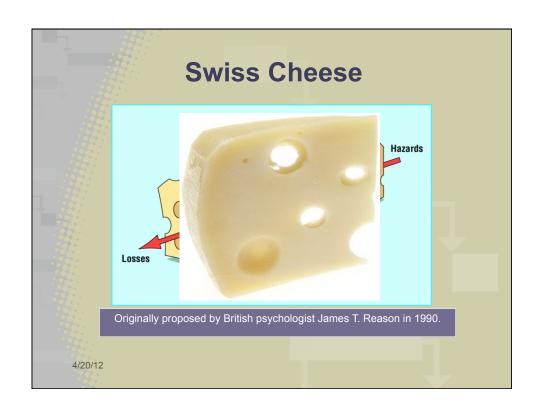
"The Source to Understanding"

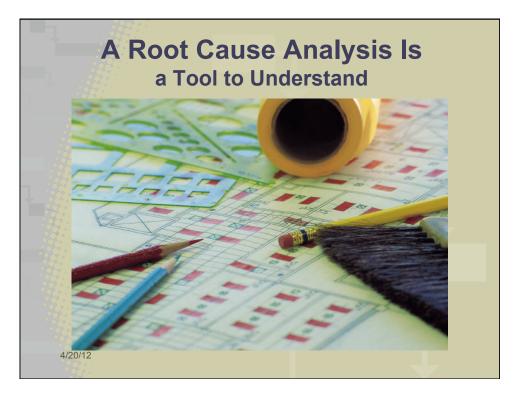
Bev Ranstrom, RHIA, CPHQ
Presented to CAH Quality Network - April 19, 2012

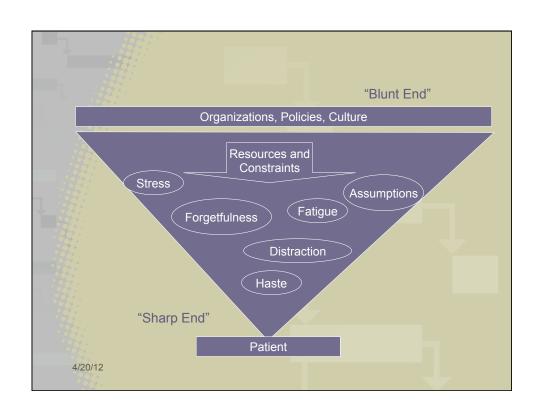


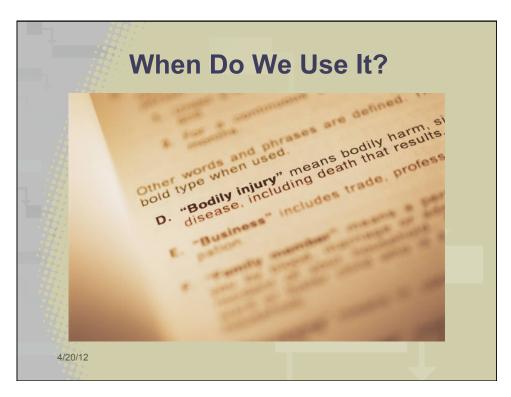
### **Objectives**

- Understand value of conducting a Root Cause Analysis (RCA)
- Become aware of tools and resources available for conducting a RCA
- Become aware of special concerns for small hospitals

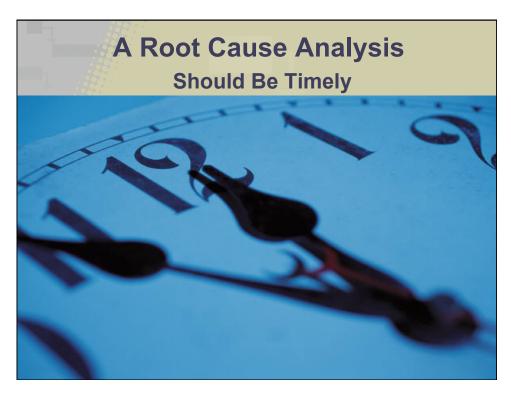


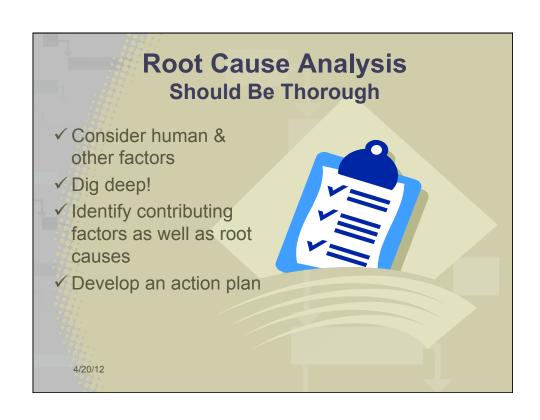


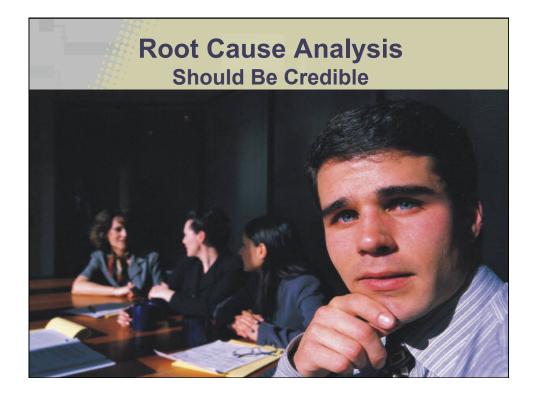


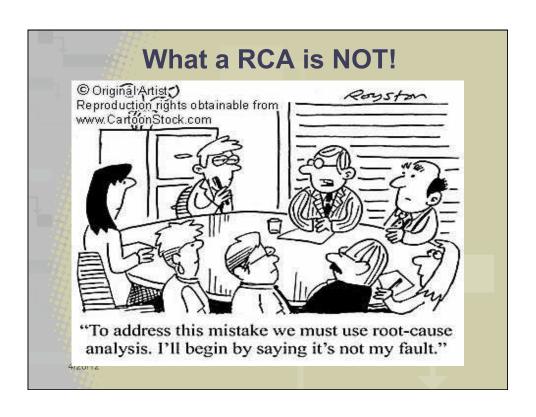


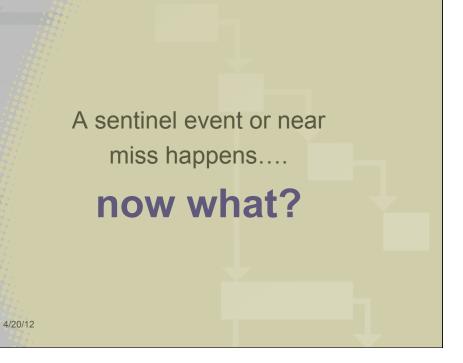






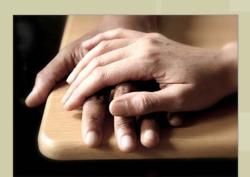






### **Patient and Family First**

- Express sincere sympathy and compassion
- Refrain from castigation or infighting



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#### **Positive Measures**

- Immediately,
  - Assess situation & communicate w patient/family.
  - Determine who will discuss the event, with whom, and when.
  - Maintain contact with patient/family for questions
  - Organize family meeting if several relatives involved or treatment decisions complicated

#### **More Positive Measures**

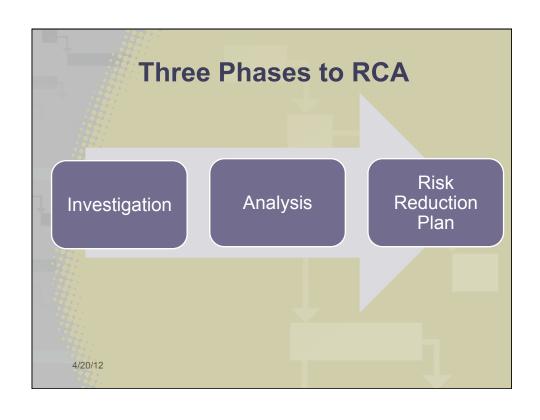
- · Also,
  - Empathize with patient/family and offer emotional support.
  - Attempt to reconcile opposing perceptions of what has occurred.
  - Accept responsibility for follow-up of serious complaints but do not accept/assign blame or criticize the care of other providers.

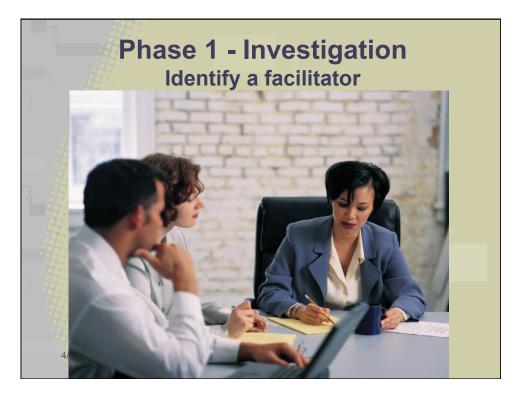
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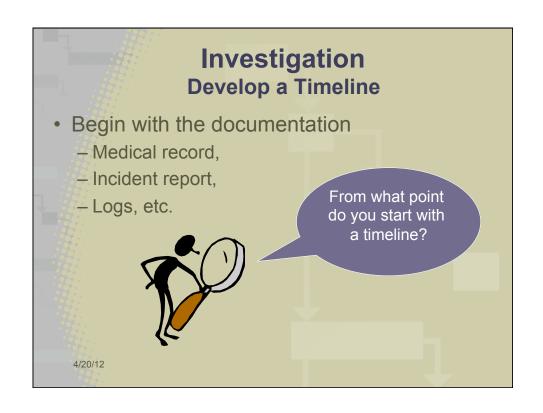
### Resources

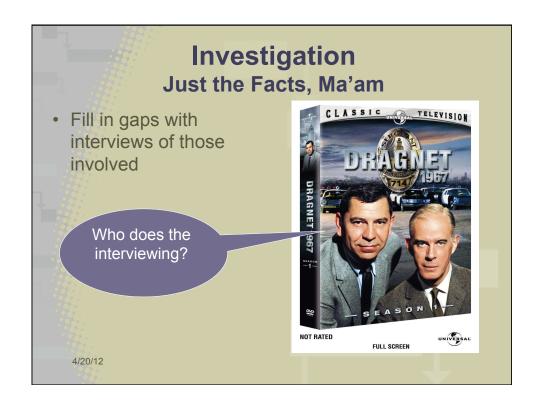
Get advice about ways to communicate in a manner that is forthright & comforting but does not unintentionally alarm, misinform, or render judgment from

- Risk manager
- Legal counsel
- Liability insurance company

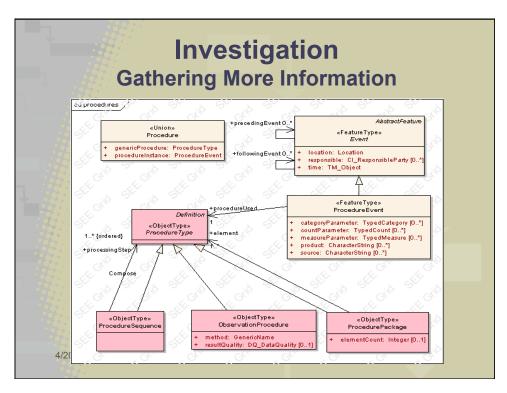


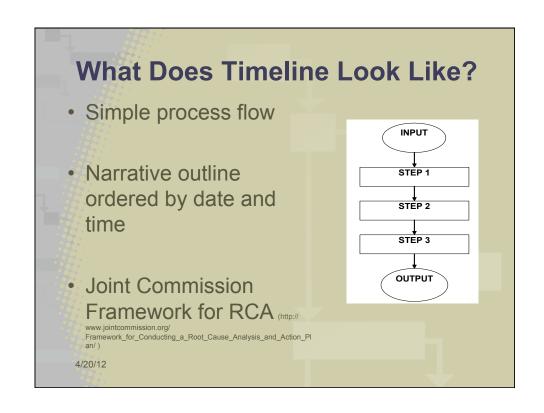


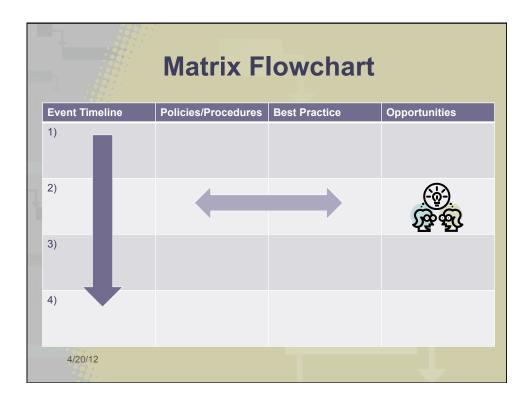












# Putting the Team Together Everyone Is Equal

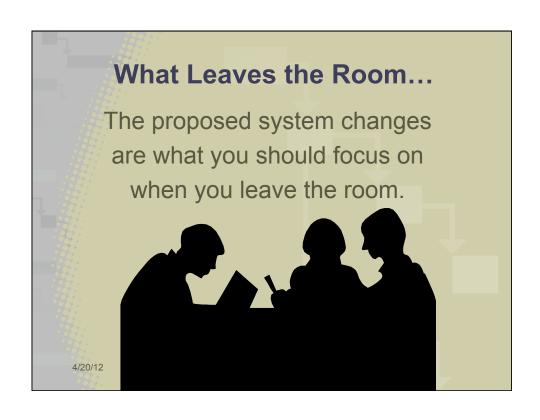


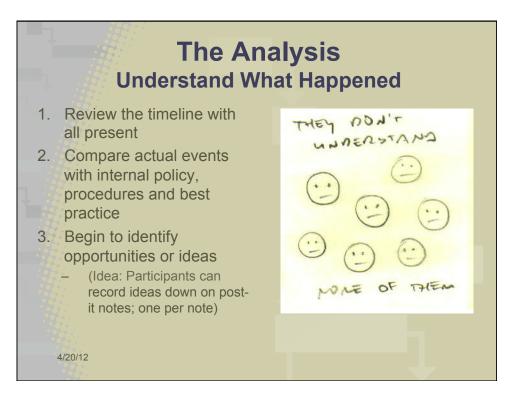
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## Phase 2 - Analysis Begins Ground Rules for Team

- Review purpose of RCA
- All are equal; be respectful
- Use the "parking lot" to validate concerns but stay on task
- Be open-minded; speak candidly and honestly
- Confidentiality What is said in the room about who said or did what stays in the room







## The Analysis Determine the Root Cause

- Ask why, why, why, why, why?
- Group into categories of causal factors:
  - Human factors communication
  - Human factors fatigue/staffing
  - Environment/Equipment
  - Rules/Policies/Procedures
  - Information management
  - Culture



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podine Types of Sone	nel Events for Critical Access Hospitals.												
	1) post of schiller Events												
Areas of Potential Root Causes	Suicide (24 Hour Care)	Medication Error	Procedural Complication	Wrong-site surgery	Treatment Delay	Restraint Death	Elopement Death	Assault/Rape/Homicide	Transfusion Death	Patient Abduction	Unanticipated Death of Full- Term Infant	Unintended Retention of foreign Body	Fall Related
Behavioral assessment process	X	È	Ë	ŕ	_	X	x	×			-		∸
Physical assessment process	X	x	x	x	х	X	x				x		x
Individual identification process	_ ^	×	Ĥ	x		_	L^		x		_		
Individual observation procedures	x	Ĥ		m	х	x	х	x	X		x		x
Care planning process	X		x	$\vdash$		X	x		_		X		X
Continuum of care	X	×	L^	x	x		_						X
Staffing levels	X	X	x	X	X	x	x	x	x	x		x	X
Orientation and training of staff	X	X	X	X	X	X	X	X	X	X	x	X	X
Competency assessment/credentialing	x	x	x	x	х	x	х	х	х	х	х	х	х
Supervision of staff	×	х	х	$\vdash$	х	x			х			х	-
Communication w individual/family	х	х		х	х	х	х			х			х
Communication among staff members	х	х	х	х	х	х	х	х	х	х	х	×	х
Availability of information	x	х	х	х	х	x			x		х		x
Adequacy of technological support	+ "	X	X	m		<u> </u>			<u> </u>		<u> </u>		
Equipment maintenance/management		х	×		х	х					х		х
Physical environment	×	х	x	х		x	x	x	х	x			х
Security systems and processes	×	۲	۲	m		X	×	X	Ĥ	X			
Medication management	+ ^	×	x	$\vdash$	х	<u> </u>	L^		x	^	х		x

## The Analysis Contributing Factor vs. Root Cause

#### **Contributing Factor**

- A factor that, if corrected would <u>not</u> prevent a recurrence, but is significant enough to fix
- Contributing factors result in future unwanted events if not corrected

#### **Root Cause**

- The most basic condition that, if corrected, prevents recurrence
- Within management's control to correct

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#### **Phase 3 - Risk Reduction Plan Risk Reduction Plan Evaluation Plan** Responsible Responsible **Root Cause** Y/N Risk Reduction Person & Measurement Person & Status Timeframe Indicator Timeframe Staff not trained on falls risk assessment Simplify form difficult to fill out RM&PSI, Lansing , Michigan 4/20/12



## **Reduction Plan**

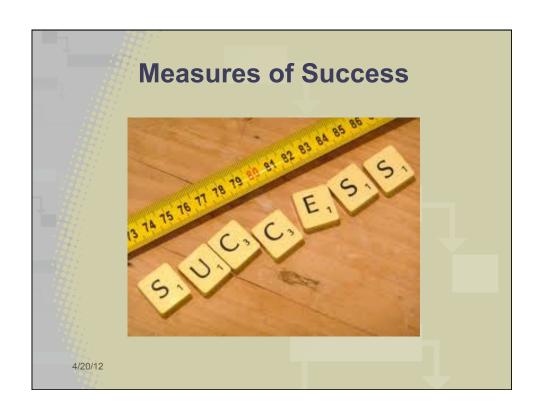
- For each contributing and root cause, identify corrective measures
- 2. Create a timeframe for completion
- 3. Assign accountability for implementation
- 4. Develop a plan for pilot testing
- 5. Determine measurement method

- 6. Assign accountability for measurement
- 7. Evaluate effectiveness of actions
- 8. Set a date to review measurement results
  - Risk reduced?
  - Revised action plan if necessary
  - Evaluate RCA process; ask if process valuable

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## Risk Reduction Plan

	Risk	Reduction Plan	Evaluation Plan					
Root Cause	Y/N	Y/N Risk Reduction Per Time		Measurement Indicator	Responsible Person & Timeframe	Status		
				_	RM&PSI, Lansing ,	Michigan		
4/20/12								





#### **Lessons Learned**

- Team members must be truly equal...titles are dropped at the door
  - Idea: Symbolic gesture –
     place name badges in a bowl
- Open, learning environment must be created
- Facilitator can ask those who blame to leave

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#### **Lessons Learned**

- Assume failure is NOT individual fault
- If evidence points to intentional unsafe act, stop RCA; refer for disciplinary action
- Those involved in discipline DO NOT facilitate RCA
  - Consider external facilitator for sensitive events
- Train multiple people to facilitate RCA



## Other Considerations The Logistics

- Do we conduct
  - Multiple sessions or single session to identify root causes?



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### **Number of Meetings**

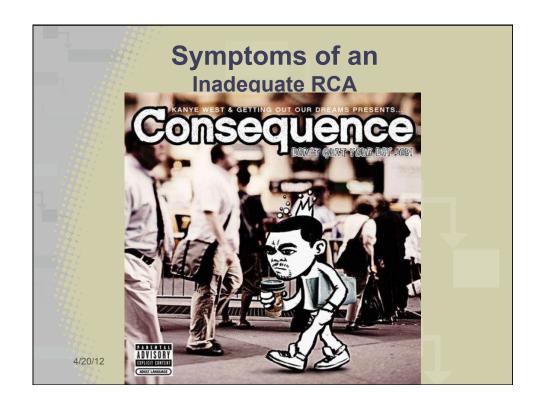
- Multiple meetings
  - Complex process
  - Multiple people involved in the event
  - Staff available for multiple one hour meetings
  - Internal skilled facilitator available

- Single meeting
  - Difficult for staff to meet multiple times
  - Staff available for one 3hour meeting
  - Need for external facilitator
  - First meeting debriefs & identifies topics for action plans

## **Special Concerns** for Small Hospitals

- Few staff to draw team from
  - Management must encourage & adjust staff to allow participation in RCA team activity
  - Ensure feedback/ "Thank you's" to participants
- Administrator "show and go"; re-engage during action planning





### **Summary**

- ? Root Cause Analysis consists of \_\_\_\_ separate phases.
- ? A thorough investigation of an event includes reviewing \_\_\_\_ conducting \_\_\_ and reviewing the literature for current

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- ... Root Cause Analysis consists of **three** separate phases.
- ... A thorough investigation of an event includes reviewing documentation conducting interviews, and reviewing the literature for current guidelines.

### **Summary**

- ? Credible RCA starts with the \_\_\_\_\_ point, or special cause, and finishes with consideration of the \_\_\_\_ end, or common causes that impact processes.
- ? A \_\_\_\_\_ factor is one that, if corrected, would <u>not</u> prevent a recurrence but is significant to fix.

- ... Credible RCA starts with the **sharp** point, or special cause, and finishes with consideration of the **blunt** end, or common causes that impact processes.
- ... A **contributing** factor is one that, if corrected, would <u>not</u> prevent a recurrence but is significant to fix.

# Summary

? The facilitator needs to be \_\_\_\_\_ and not directly involved with the \_\_\_\_\_.

... The facilitator needs to be **impartial** and not directly involved with the **event**.

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Every problem is really an opportunity.

Every system defect, a treasure.

Kitchiro Toyoda Founder of Toyota