Making Near Misses Count: Turning Mistakes into Teachable Moments Chloë Nunneley, MD Carolyn Marcus, MD Erica Lee, PhD Sara Toomey, MD, MPhil, MPH, MSc

In Collaboration with Eva Gómez, MSN RN NPD-BC CPN and Lori Newman, MEd





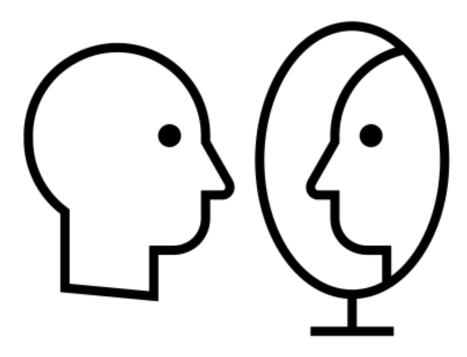
By the end of the session, participants will be able to:

- 1. Define "near misses" and their impact
- 2. Identify the opportunities and challenges related to discussing near misses
- 3. Introduce the NEAR MISS framework for turning near misses into teachable moments with learners





Reflecting on Our Experiences







Instructions for PollEverywhere

Please text "MEDEDUCATION" to the number 22333 or sign on to <u>Pollev.com</u>



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Respond at PollEv.com/mededucation Text MEDEDUCATION to 22333 once to join, then text your message

Why is it difficult to talk about errors and/or learn from them?

No responses received yet. They will appear here...

Emotional barriers







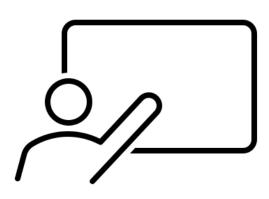
- Emotional barriers
- Cognitive barriers







- Emotional barriers
- Cognitive barriers
- Lack of training







- Emotional barriers
- Cognitive barriers
- Lack of training
- Logistics: time, space, awareness







- Emotional barriers
- Cognitive barriers
- Lack of training
- Logistics: time, space, awareness
- "Fix and forget"

Original research

Learning from near misses: from quick fixes to closing off the Swiss-cheese holes

Lianne Jeffs,^{1,2,3} Whitney Berta,⁴ Lorelei Lingard,^{5,6} G Ross Baker⁴

ORIGINAL RESEARCH

Fix and forget or fix and report: a qualitative study of tensions at the front line of incident reporting

Tanya Anne Hewitt,¹ Samia Chreim²







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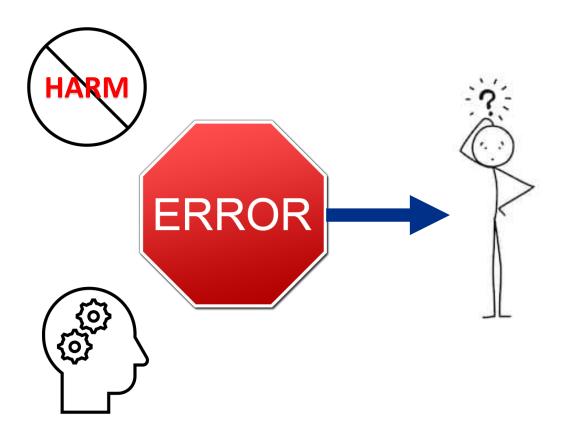






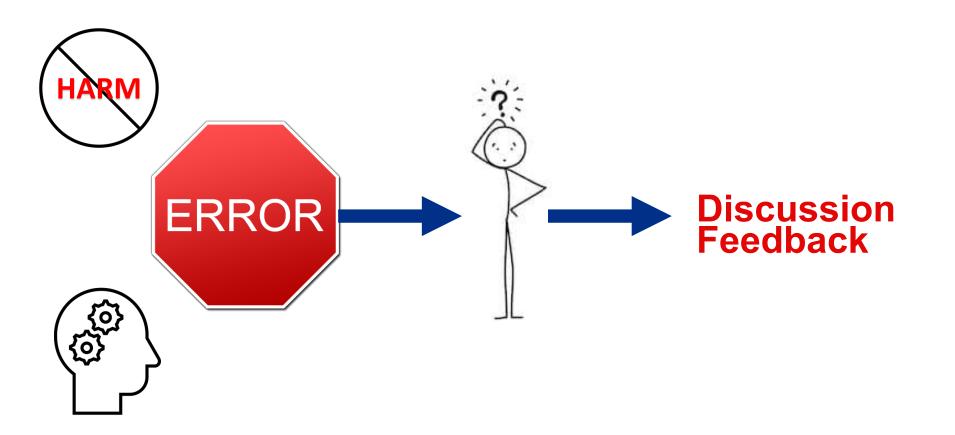






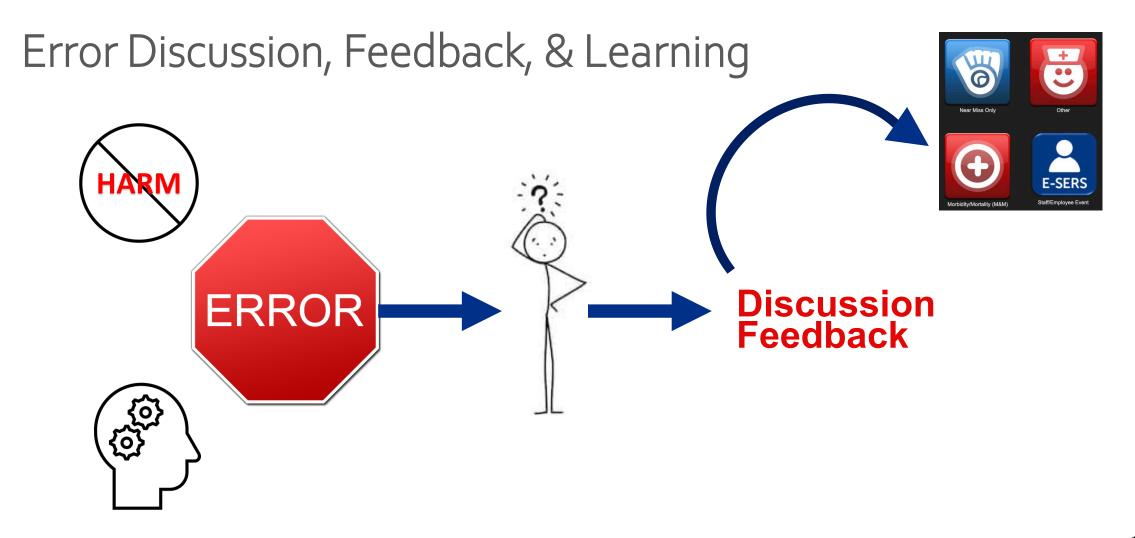






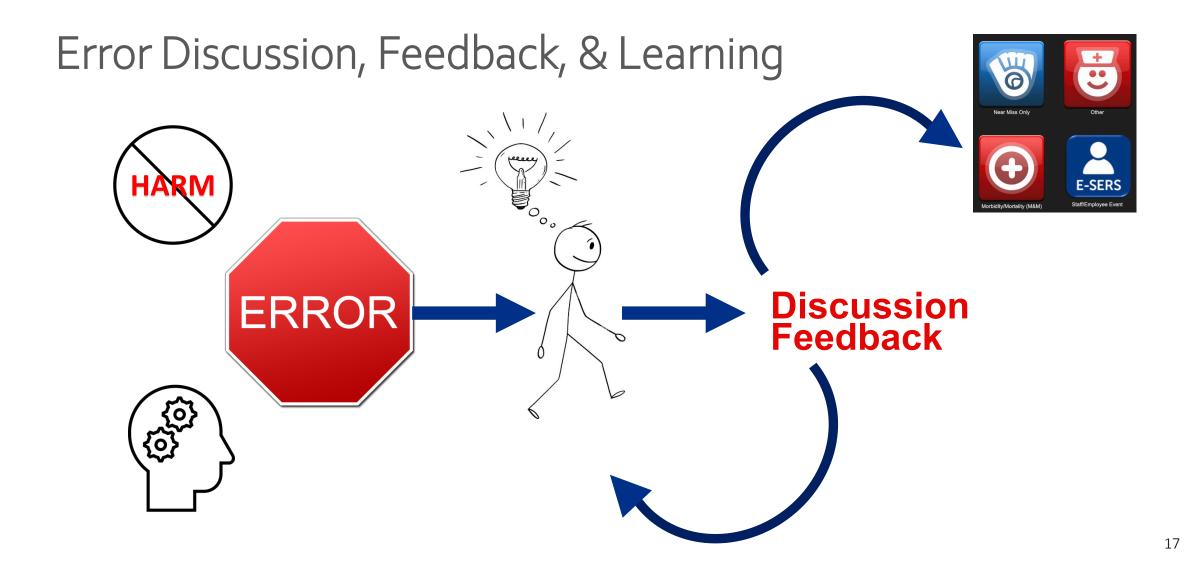
















Near miss = an error that <u>does not cause injury</u> to a patient, either by chance or because it is <u>intercepted</u> before being administered or provided to the patient





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Severity of Scale **Near Miss** Adverse Event **P-value** Error Importance Mild 4.00 (0.97) 4.61 (0.60) <.001 Rating^{*}, 4.61 (0.60) 4.87 (0.33) Moderate <.001 mean (±SD) **Effort to Notify** Mild 2.55 (0.64) 2.58 (0.60) <.001 Rating[^], Moderate 2.58 (0.60) 2.64 (0.56) <.001 mean (±SD)

Comparison of Responses to Near Misses vs. Adverse Events

*Importance was rated on 5-point Likert scale (1 = not at all, 2 = slightly, 3 = moderately, 4 = very, 5 = extremely).

^Effort was calculated from two multiple-choice questions pertaining to actions the respondent would take in response to an error. Minimum = 0; maximum = 3.





Study Participant Responses:

...we're all already working so hard and trying our best, and it would feel **unnecessarily punitive and accusatory** or elicit **shame or guilt**. Also, some errors are quite minor and not necessarily worth bringing up if they won't lead to any meaningful change.

> I worry significantly about contributing to **burn out and/or shame** surrounding errors and learning.

The major factor is whether there was significant risk to the patient or **if harm occurred**. Things that have little or no consequence are sometimes not worth bringing up to avoid making peers feel **judged/criticized/condescended to**.

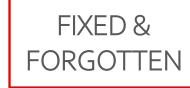




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Laying the Foundation









Psychological Safety

- Perception that you can engage in <u>interpersonally risky behaviors</u> in the work environment, such as asking questions, reporting mistakes, and seeking feedback, <u>without negative consequence</u> (Edmondson, 1999)
- Shifts focus to shared goals
- Facilitates clinical learning



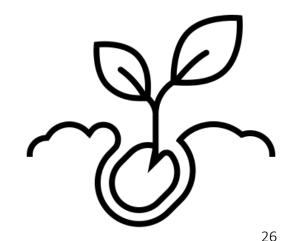




Growth Mindset

 The belief that intelligence and ability can be developed (Dweck, 2015)

- Compared to fixed mindset
- Facilitates motivation and receptiveness to feedback







System Level Learning



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How Do Hospitals Learn from Near Misses?

A structured process for near miss and lower-level safety events







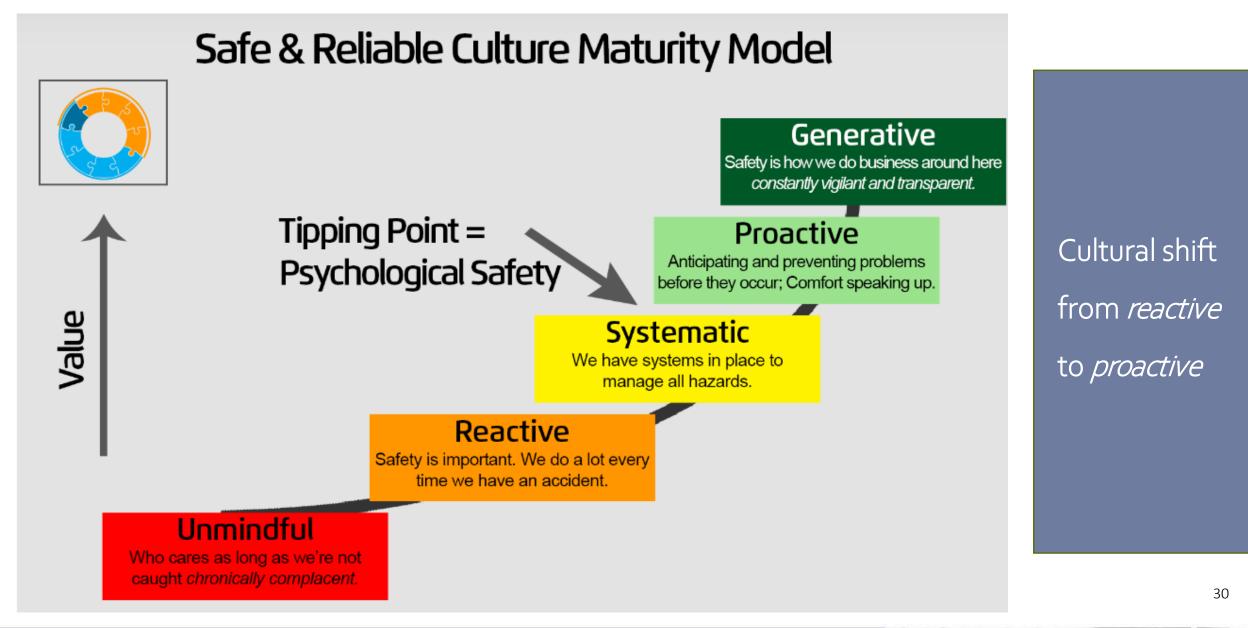
Apparent Cause Analysis

- A *limited* investigation of adverse events that:
 - reach the patient resulting in minimal or no harm (often called precursor events) OR
 - do not reach the patient and are caught by detection barrier or chance (near miss)

* Emphasis on identifying *immediate local changes* to prevent recurrence











An Apparent Cause Analysis is a 5-Step Process

- 1. Identify criteria to initiate
- 2. Investigate the event and identify immediate actions
- 3. Create an apparent cause statement
- 4. Identify corrective actions

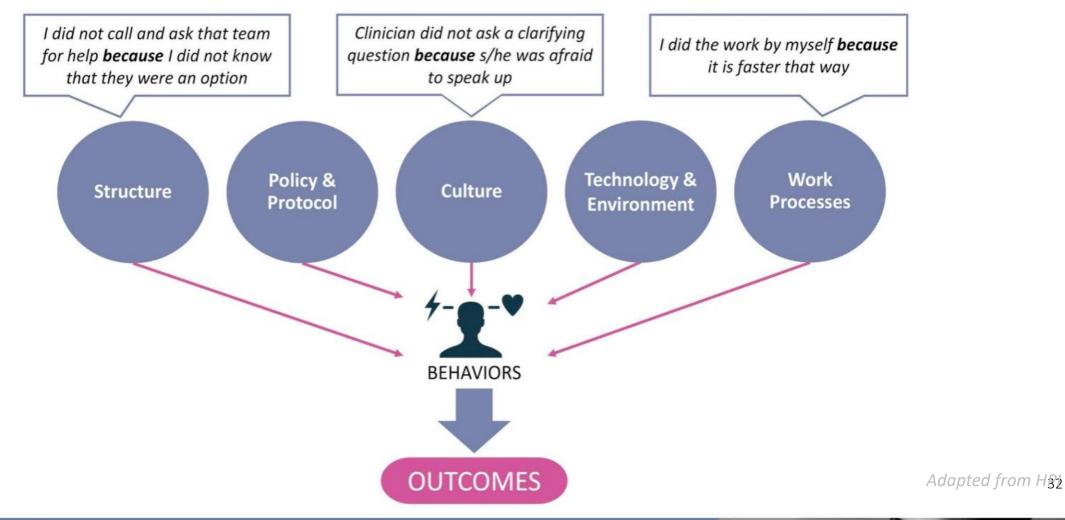


5. Develop solutions and recommendations for organizational learning





The Power of *Because*



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Boston Children's



Safety Story for Shared Learning

What Happened:

A nasogastric tube was replaced by the bedside nurse in a patient status post major sinus surgery

Severity: What is a <i>reasonable</i> "worst case" scenario for this event? Select severity level:		ACA Guide	Guide Potential Severity: Worst case scenario for this event				
Catastrophic Major Moderate	Death or permanent loss of function Permanent lessening of bodily functions, disfigurement or surgical intervention required Increased length of stay or increased level of care			Catastrophic	Major	Moderate	Minor
Minor	No injury, increased length of stay, or level of care		Frequent				
Frequency: What is the frequency of this potentially occurring? Select the frequency:		<u>Frequency</u>	Occasional	*			
Frequent	Likely to occur immediately or within a short period (may happen several times in 1 year)	of event	Uncommon				
Occasional	Probably will occur (may happen several times in 1-2 years)	occurring	oncommon				
Uncommon	Possible to occur (may happen sometime in 2-5 years)		Remote				
Remote	Unlikely to occur (may happen sometime in 5-30 years)						
		Postor	Children's				

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Safety Story for Shared Learning

ACA Statement:

The bedside nurse replaced the tube BECAUSE this is a routine bedside task for nurses and BECAUSE a system alert did not identify risk.

Local Clinical Action Items:

- 1. EDUCATION
- 2. CHECKLISTS
- 3. COGNITIVE AIDS (signage)
- 4. DECISION SUPPORT (clinical orders)

Broader Dissemination: Presented at an inpatient M & M

Action Item Strength and Reliability	Action Item Plan	Assigned Point Value	
Most Reliable	 Forcing functions Physical stops and constraints Computerized automation Redundancy Simplification, removal of unnecessary steps 	1	
Somewhat Reliable	 Checklists, cognitive aids, decision support Reduce distractions Standardization Forced pauses, self-check, double- checks 	2	
Least Reliable	 Education and training Rules, policies, procedures 	3 34	





Role Play

A learner admits a patient with pneumonia. The patient has a severe seizure disorder. The learner does not order the patient's seizure medication, but a parent at bedside alerts the team that seizure medication is due.







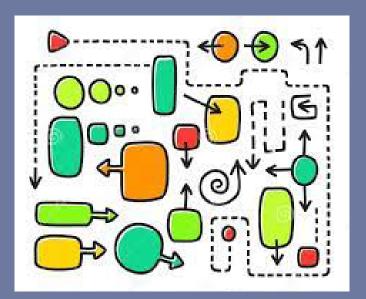


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NEAR MISS Framework









NEAR MISS Framework

Note the time

Evaluate facts & feelings

Approach with curiosity & kindness

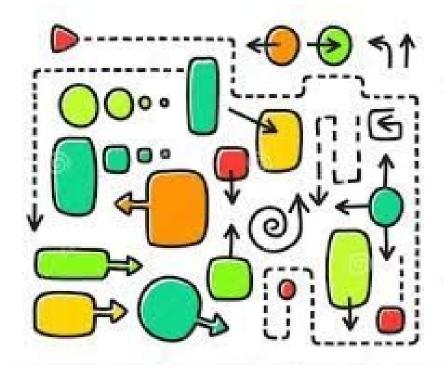
Review error specifically

Make it a teachable moment

Invite reflection

Strategize for change

Support the learner







Note the time

- Not too long after event
- Good time for learner
- Good time for you



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner

39





Note the time

• How long ago did this occur? Do I need to address this immediately?

- Is it sign out time? Is the learner amid time-sensitive tasks?
- Am I emotionally and physically available to discuss this?



Note the time

Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment

nvite reflection

Strategize for change

Support the learner

40





Evaluate facts & feelings

- Learn facts of event
- Reflect on your own feelings about the event
- Reflect on any biases you may have



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner





Evaluate facts & feelings

- What do I know about what actually happened?
- What am I assuming about the learner?
- How am I feeling right now?



Note the time Evaluate facts & feelings

Approach with curiosity & kindness

Review error specifically Make it a teachable moment Invite reflection Strategize for change

Support the learner

42





Approach with curiosity & kindness

- Try to understand learner's frames, assumptions, and knowledge that may have guided their actions
- Maintain respect for learner and value their perspectives



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner







Approach with curiosity & kindness

- I'm wondering...
- How were you seeing that situation...
- Can you help me understand...



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment

Strategize for change

Support the learner

44





Review error specifically

- Discuss the details of the error
- Name the "near miss"



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner





Review error specifically

- What I observed was...
- This was a <u>near miss</u> because...



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner





Make it a teachable moment

Instill teaching points into discussion



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner



Make it a teachable moment

- It is completely understandable how this error occurred, but I hope we can still learn from it...
- This is important because...
- *Address knowledge gaps or biases specifically*



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner

48



Invite reflection

 Ask the learner about their thoughts, feelings, and perspectives about the event



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner





Invite reflection

- What thoughts do you have?
- Did you see things differently?



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner

50





Strategize for change

- Make a plan with the learner for the next time to avoid a similar error
- Discuss potential system changes
 Report the error (i.e., SERS)



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner





Strategize for change

- Do you have any ideas about how you could do things differently next time?
- What can we change for the future?
- I think others can learn from this too... Have you filed a SERS before?



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change

52





Support the learner

- Normalize and share own experiences
- Listen to the learner's feelings
- Provide overall evaluation if relevant/helpful
- Refer for outside support if needed (e.g., OCS, other supervisors)



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner



Support the learner

- This is a common mistake that has been made by many other learners...
- I have made the same mistake before...
- I have confidence in your abilities...
- I appreciate your willingness to discuss this and learn from it...
- How can I support you in making that change in the future?
- If it might be helpful to talk to someone else about this (now, next week, next month...), there are other resources (OCS, supervisors, program leaders, etc.)....



Note the time Evaluate facts & feelings Approach with curiosity & kindness Review error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner

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NEAR MISS Framework

Note the time Evaluate facts & feelings Approach with curiosity & kindness **R**eview error specifically Make it a teachable moment Invite reflection Strategize for change Support the learner

Have you tried anything similar or different?

What might you add?

What might make this challenging to implement?





What is one thing you are going to take away or change as a result of this session?



Conclusion

- Near misses are common, no-harm events that are typically "fixed & forgotten"
- Near misses are opportunities to facilitate
 - individual learning
 - system learning
 - culture change
- NEAR MISS can be utilized to approach learners with empathy and kindness in order to turn a mistake into a teachable moment















References

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- 6. Rudolph JW, Simon R, Dufresne RL, Raemer D. There's no such thing as "nonjudgmental" debriefing: a theory and method for debriefing with good judgment. Simul Healthc. 2006 Spring;1(1):49-55.



