## Root Cause Analysis and Action (RCAA) Part 2





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- 17 years in quality as a PI Supervisor & Clinical Abstraction Specialist





#### What to expect:

 Type in your question(s) in the chat was we go, and we will also address them at the end of the presentation.

• We may ask for a show of hands at times, and feel free to use the reaction icons and emojis!

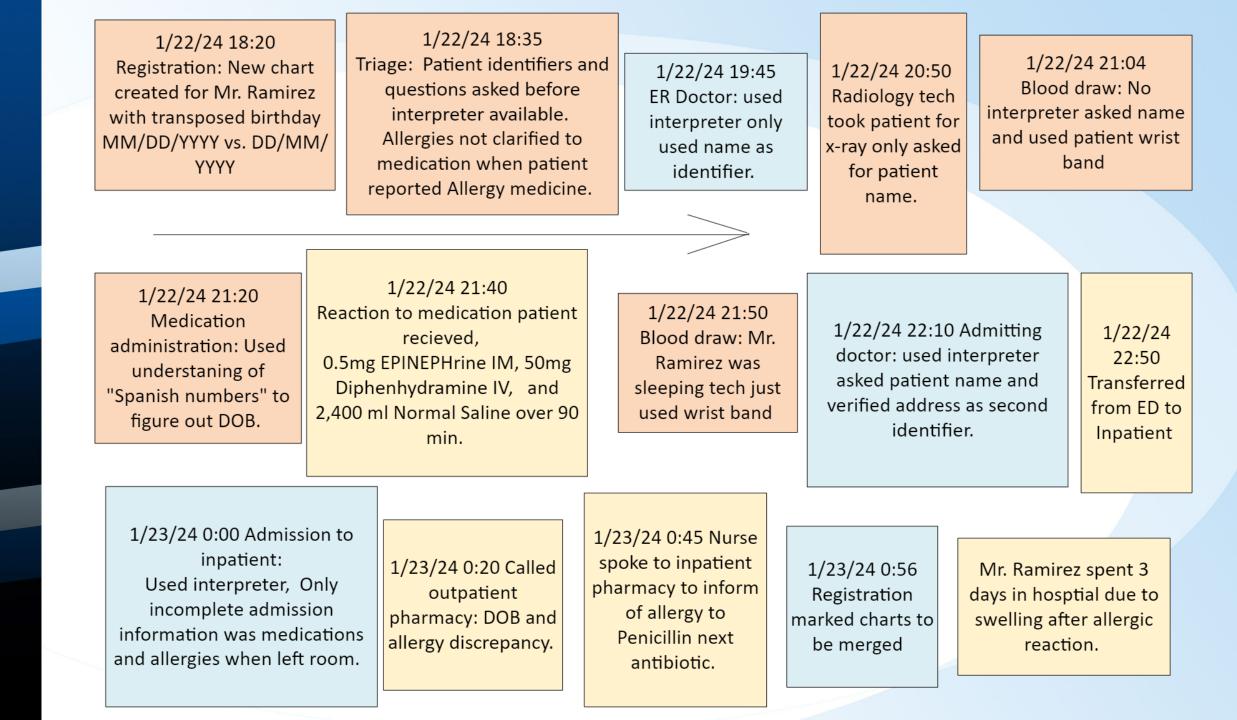


#### The RCAA:

- A Root Cause Analysis is a method of determining the core cause(s) of problem(s) to appropriately identify solutions for those problem(s).
- The RCA looks beyond the superficial "cause and effect" and will show where processes or systems failed or caused an issue in the first place.
- The product of the RCA is an Action plan that shows what strategies an organization intends to implement to reduce the risk of a similar events from occurring in the future.3

#### The Electronic Safety Report (ESR)

Received call from inpatient nurse on 1/23/24 at 00:45 This pharmacist received a call from the admitting nurse on 2B who found that the patient Juan Ramirez had an allergy that was not in the chart and that antibiotic was due in an hour. Called asking how to proceed. This pharmacist indicated that patients prior chart needed to be referenced and merged. Then contacted admitting doctor to obtain order for new antibiotics for pneumonia that patient was not allergic to.



#### Gemba

#### Do a Gemba.

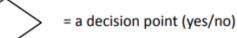
"Japanese term for "Go and See" or (literally translated): "The Actual Place".

What do you see?

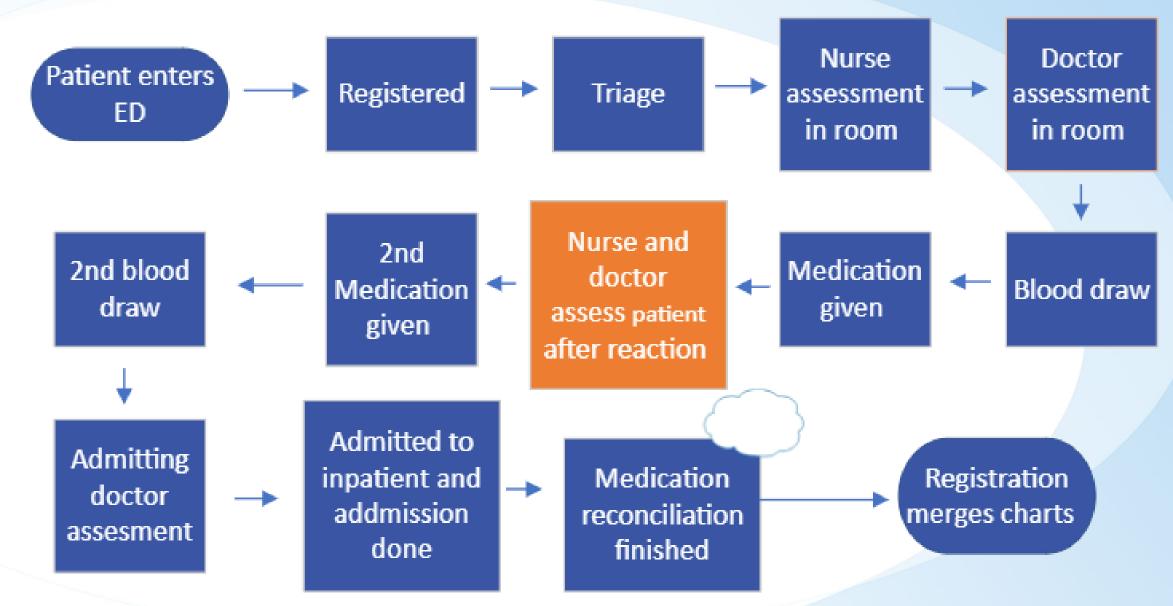
#### Flow chart

- Flowcharts: Diagrams that use shapes to show the types and movement of steps in a process.
- $\checkmark$  Highlights decision points and outcomes.
- ✓ Aids in understand whether a process occurred in one way or various ways.
- Provides visualization of the complexity of a process and problem areas which can suggest where simplification, elimination of unnecessary steps, and standardization is possible.

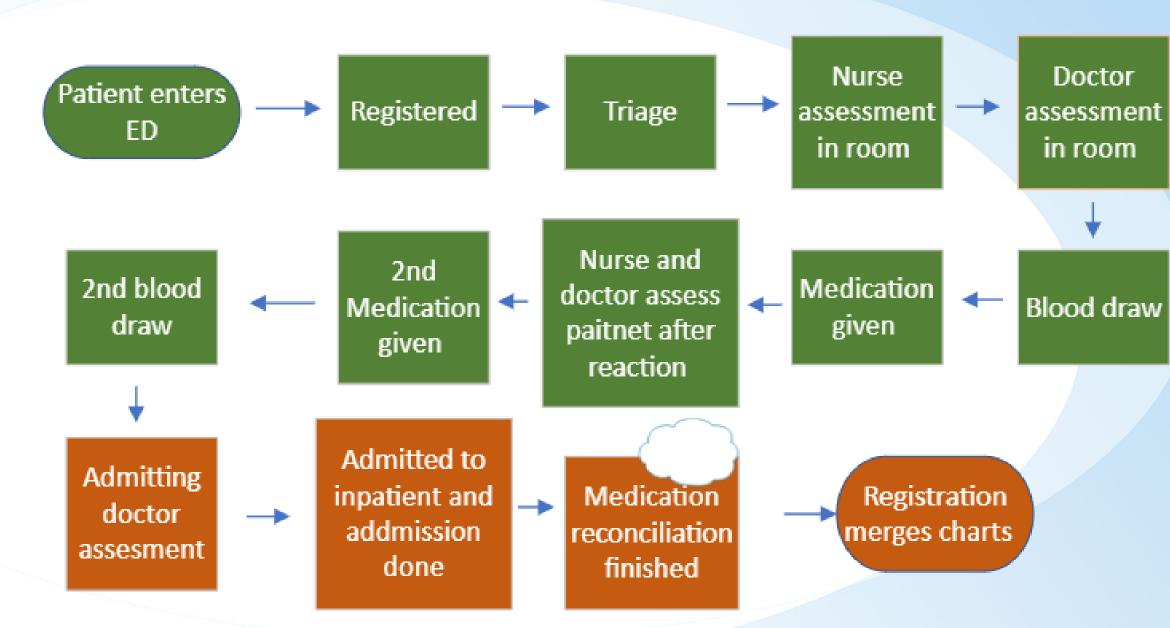
Visual Reference: Centers for Medicare and Medicaid Services. (2018, April). *Flowchart Guide - Centers for Medicare & Medicaid Services*. Flow Chart Guide. https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/QAPI/Downloads/FlowchartGuide.pdf = a task or activity performed in the process



#### **2 Identifiers Ideal Flow Process**



#### **2 Identifiers Actual Flow Process**



#### **Describe what happened**

# From the Discovery Phase of the RCAA and Gemba is where you answer:

- •The "What"
- •The "How"

#### Let's Build a Team

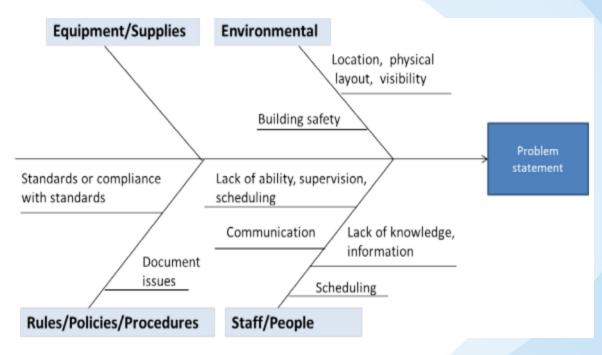
We then will present our findings in the Gemba and discovery phase to our team.

Representatives from roles where opportunities were found:

- Clinical and nonclinical.
- Peers better then person involved (consider emotions).
- Goal is to hear from staff closest to the problem as well as leaders.
- Deep dive and pull apart what happened.

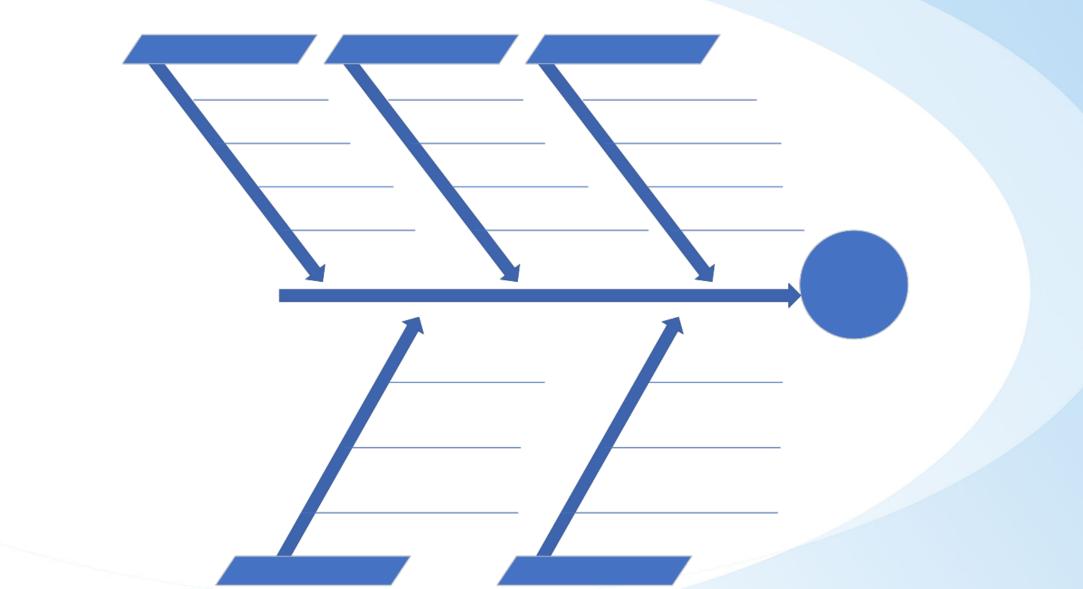
#### **Fishbone Diagram**

- Fishbone diagram "Ishikawa"
- ✓ For visual context
- ✓Interpretation
- ✓ Flow of the incident



Visual Reference: Centers for Medicare and Medicaid Services. (2015, September). *How to use the fishbone tool for root cause analysis - CMS*. How to Use the Fishbone Tool for Root Cause Analysis. https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/QAPI/Downloads/FishboneRevised.pdf

#### How to Start a Fishbone for this Safety Event:



#### **Contributing Factors**

• Human Factors: human/individual characteristics which influence behavior at work in a way which can affect health and safety. This can include how they interact with each other (human interaction), but also how the environment, task, and equipment affect how people work. <sup>2</sup>

In the chat the contributing **Human Factors** you hear?

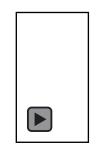
#### **Contributing Factors: Human**

Danni:

- Did not verify the right person when called from waiting room to be triaged. (Deviance from standard policy of 2 identifiers)
- Did not use an interpreter device for triage (Not available). (Both human and process)
- She did not ask "Do you have any allergies to medication?" to clarify. (Deviance form standard policy)
- When giving medication, she did not use the interpreter because she scanned his bracelet and "Knows numbers in Spanish" for DOB. (Deviance from standard policy and noncompliance with federal law 1557)

#### **Contributing Factors: Human**

What other questions could we have asked in the interview to clarify his actions or gather more information?



#### **Contributing Factors: Process**

- **Process/System**: Systemic factors are the underlying conditions and processes that shape the way an organization functions. They include things like organizational culture, processes, and leadership styles. 1

Please put in the chat the **process factors** you identify as you listen to the registration interview.

#### **Contributing Factors: Process**

- Easy to create a new chart (No hard stop required EMR only one demographic entered in making a new chart)
- Knowledge deficit on creating reason for ED visit off a visual observation (No system training for registration, unit-based training only)
- Knowledge deficit on DOB order outside USA (No system training for registration, unit-based training only)
- Limitation of number of desired device for interpretation (location of interpreter is a 3-4 min interruption to get either physical device or call and talk to service via phone)
- No training on OCR Final Rule 1557 (Inadequate training)

#### **Contributing Factors: Process**

Put in chat the questions you would like to ask to clarify what happened and ensure the factors you hear are truly related to **process**.



Process

One tablet interpreter avalible in ER

> Policy : Use of 2 identifiers not consistently used

> > No hard stop when one demagraphic entered in EMR

Limited English speaking patient recieved medication he was allergic to.

Not using interpreter device

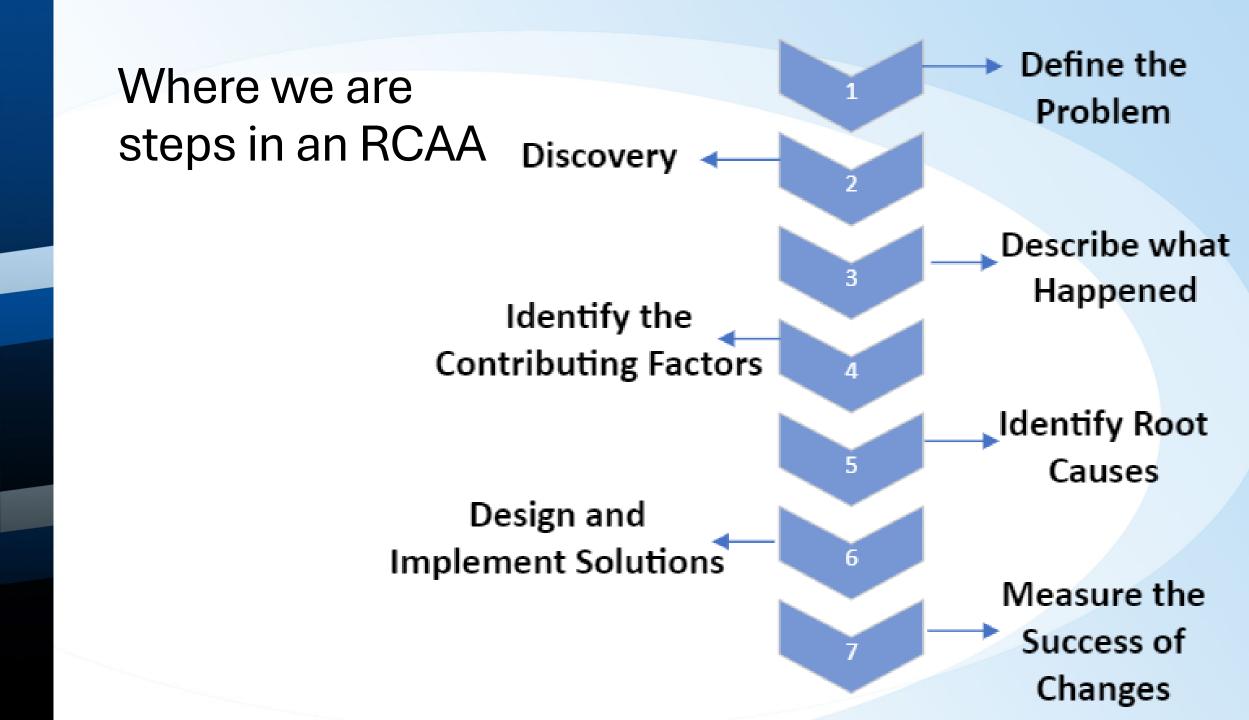
Clerical error in DOB

Not wanting to wait for prefered interpreter device

Human

#### 5 Whys

Why?	Why?	Why?	Why?	Why?
l did not use an interpreter	Because it is not available	We only have one tablet on the unit for interpreter	One has been broken/ missing for over 2 months.	No IT ticket put in. No equipment owner.



## **Identify Root Causes:**

- •What is a Root Cause?
- •With team at the table, we want to discuss our why what happened...happened.
- •Use all your information gathered and your Gemba discoveries.

Factors	Root causes
Interpreter tablet was in use by another staff member	We have not trained on how to contact interpreter service in over 2 years if a tablet is tied up.
2 <sup>nd</sup> interpreter tablet is broken and has been for a while	No owner of equipment problems.
Tablets stored in stock room to charge not close to where patients check in.	The storage location of translator tablets is not good for incoming patients.
Staff "get by with what they know" or can understand from the patient	Policy does not have OCR's final 1557
Chart duplicates are common occurring, after registration staff don't enquire if no history in chart.	No hard stop in EMR to prevent patient chart from being created
Staff only using wrist band as common identifier	No use of redundancy or best practice of bedside labeling (x-ray, labs).
Very few ESR reports get entered	Just culture needs to be established.

#### **Design and Implementing Change**

- Assemble all your materials needed to assist the team:
  - ✓ Electronic Safety Report
  - ✓ Patient chart(s)
  - ✓Interview notes
  - ✓ Fishbone
  - ✓ Ideal and Actual Flow Processes✓ The 5 Whys

#### **Design and Implementing Change:**

During this phase you can:

- Re-interview the staff involved again if needed.
- Ask peers what process/steps they would have taken in a similar situation.
- "If I could I would"... The Magic Wand or Wish List.

### **Design and Implementing Change:**

- Addressed contributing factors?
- What safeguards could we implement?
- Follow best practices and policy:

   OCR FR 1557 in existing policy & educate
   Non-English-Speaking patients
   Universal patient identifiers
  - -Hard stop in EMR when creating new charts

#### **Tools & Methods: Design and Implement**

Remember: Change solutions can range from strong to weak: Examples:

STRONG	INTERMEDIATE	WEAK
Change the physical environment.	Increasing staffing.	Education or re- education.
Engineering controls into system (creating those 'hard stops' into the EMR).	"Read Back" to assure clear communication is taking place.	Posters or flyers within the unit concerning LES patients.
Purchasing new equipment needed.	Eliminate or reduce distractions or unnecessary steps in a process.	Warning or labels.

#### **Design and Implement Solutions**

- Process Improvement Plan
- Standardizing your change solution.
  - Update systems
  - Physical environment
  - Address materials need
- •All on same page
- Educate

#### **Design and Implement Solutions**

#### Before it goes live- Test it! Try it out!

### The Solutions:

<b>Contributing factors</b>	Root Cause	Solutions	
Interpreter tablet was in use by another staff member.	We have not trained on over 2 years if tablet is tied up.	Establish a routine training schedule with 1 <sup>st</sup> execution within 30 days.	
2 <sup>nd</sup> interpreter tablet is broken and has been for a while.	No owner of equipment problems.	Redefine/ Redesign role to establish ownership of equipment issues.	
Staff "get by with what they know" or they understood from the patient.	Policy does not have OCR's final 1557.	Incorporate OCR final rule 1557 in policy.	

#### **Measure the Success of Change**

 Measures of success were monitored over time showing improvement/compliance.

• The goals was achieved (changes were made and sustained, no recurrent events were seen).

 You feel confident that the change is permanent and sustainable.

### **CMS and TJC Websites**

- IMPROVING CARE FOR PEOPLE WITH LIMITED ENGLISH PROFICIENCY (cms.gov)
- Institute For Safe Medication Practices. (2022b, April 18). Education is "predictably disappointing" and should never be relied upon alone to improve safety. Institute For Safe Medication Practices. <u>https://www.ismp.org/resources/education-predictably-disappointing-and-should-never-be-relied-upon-alone-improve-safety</u>
- <u>https://www.jointcommission.org/-/media/tjc/newsletters/quick-safety-issue-13-lep-update-10-5-21.pdf</u>
- <u>Summary Final Rule Implementing Sec 1557 of the ACA | HHS.gov</u>
- <u>Patient Safety Organizations Program | Agency for Healthcare Research and Quality (ahrq.gov)</u>
- <u>https://pso.ahrq.gov/faq/what-is-patient-safety-work-product</u>
- Centers for Medicare & Medicaid Services. (2020, July 14). *R2136OTN (PDF) CMS*. Guidance for Performing Root Cause Analysis (RCA) with Performance Improvement Projects (PIPs). <u>https://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/2018downloads/R2136OTN.pdf</u>

#### **References:**

1. Healthcare Excellence. (2023, April 12). *System Factors*. System factors. https://www.healthcareexcellence.ca/en/resources/patient-safety-and-incident-managementtoolkit/systemfactors/#factors/#:~:text=They%20originate%20from%20different%20system,%2C%20people%2C%20processes%20and%

factors/#:~:text=They%20originate%20from%20different%20system,%2C%20people%2C%20processes%20and% 20resources.

2. Health and Safety Executive . (2021, September 29). *Introduction to human factors*. Human factors/ergonomics – Introduction to human factors.

https://www.hse.gov.uk/humanfactors/introduction.htm#:~:text=%22Human%20factors%20refer%20to%20environental,can%20affect%20health%20and%20safety%22

3. IHI Website. (2023). RCA2: Improving root cause analyses and actions to prevent harm. Institute for Healthcare Improvement. <u>https://www.ihi.org/resources/tools/rca2-improving-root-cause-analyses-and-actions-prevent-harm</u>

4. Institute For Safe Medication Practices. (2020, June 4). *Education is "predictably disappointing" and should never be relied upon alone to improve safety*. Institute For Safe Medication Practices. <u>https://www.ismp.org/resources/education-predictably-disappointing-and-should-never-be-relied-upon-alone-improve-safety</u>

## **Questions?**

