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Disclosures

Conflict of interest: CommunifyHealth.





Application of Best Practices from High Reliability Organizations to Advance Overall Wellness of Providers

Description of the workshop:

The goal of this workshop is to improve overall wellness of providers through application of formal human factors and barriers management principles to improve patient safety and care delivery processes.

Learning objectives:

- To develop care delivery processes using barriers management principles, which are defined as the associated process steps, safeguards, and safety barriers.
- Apply human factors engineering and Lean thinking for problem solving to spearhead continuous quality improvement efforts.



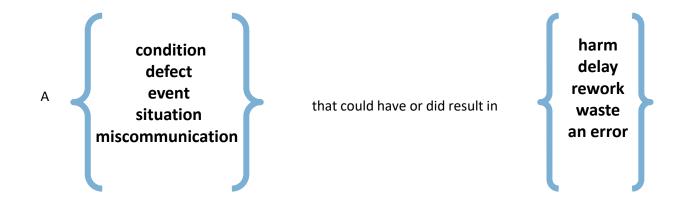
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Identifying your interventions





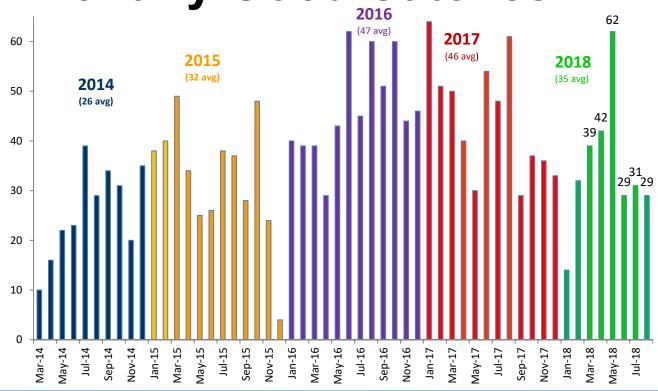
Good Catch Program





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Total Monthly Good Catches





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Human Factors Analysis and Classification System (HFACS)



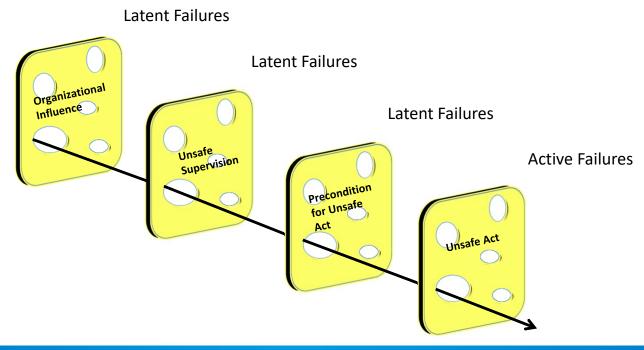


HFACS

- The human factors Analysis and Classification System (HFACS)
 - An investigation framework that utilizes system approach.
 - Originally developed by Weigmann and Shappell (1997)
 - 4 Main levels
 - 12 sub-levels
 - Aviation, nuclear power plants, road and rail transportation, healthcare etc.



Reason's Swiss Cheese Model for Human Error Causation (1990)





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Human Factors Analysis and Classification System (HFACS)



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Actions

- Routine violation (workarounds, shortcuts)
 - An individual "bends the rules" in a manner that is culturally accepted or commonly done, with good intentions
 - e.g., Clinic is running behind, so the MD instructs the nurses not to check vitals or do an assessment, and just to room the patient
 - Delivery of care outside scope of practice
 - e.g., Clinic is running behind, so nurses are asked to do the status check independent of the MD
- Exceptional violation
 - Intentional rule-breaking that is not culturally accepted
 - e.g., Intentionally providing a wrong treatment to a patient



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Types of errors

Communication:

- -problems in interaction with patients
- -problems in interaction between health care providers/staff

Studies:

- ordered incorrectly
- not ordered when indicated
- not done as ordered
- error in reporting results to provider
- error in responding to results

Administration:

- errors in handling/transmission of messages
- errors in appointment scheduling

Diagnosis:

- insufficient evaluation for diagnosis
- wrong and/or missed diagnosis based on available data

Medication:

- ordered incorrectly (wrong medication, wrong dose, or not indicated)
- no medication ordered when indicated
- not delivered as ordered

Records:

- incomplete
- incorrect



Exercise: Your Turn to Submit Good Catches

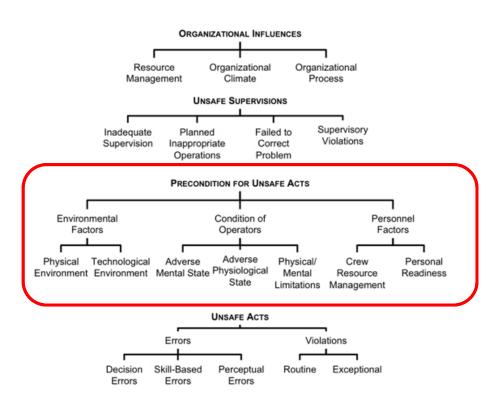




Collecting information in the context (how to better understand provider's burnout) – Sara



Human Factors Analysis and Classification System (HFACS)



https://www.skybrary. aero/images/7/7c/HF ACS_Org_Inf.jpg



Contextual Inquiry Methodology

- Systems Analytic Approach to understanding the CONTEXT
 - Evidence-based
 - Rich observational data-driven process
 - · Consolidated models of personas, roles & relationships, and breakdowns
 - Understand the people
 - Their motivations
 - Their experiences
 - Understand the roles
 - Each of the roles within the context
 - The interactions and relationships between the roles
 - Understand the breakdowns
 - Breakdowns in environment (e.g., technology, physical)
 - Breakdowns in roles/relationships
 - · Breakdowns in process



She has practiced medicine over 12 years

She has clinic hours from 8:00 AM to 6 PM, 4 days a week

00 AM

She provides care to 22-30 patients a day (at times 105 – 120% schedule utilization)

She is married and the mother of 2 children under age 10

She is passionate about patient care

She thinks its important to spend time talking and connecting with her patients

She enjoys joking with her colleagues "better to laugh some, than to always be crying"



3 hours into her shift, she's already received countless care-related communications (e.g., phone calls, pages, in-basket messages)

She's typically managing multiple patients concurrently, including numerous ad-hoc "work-ins"

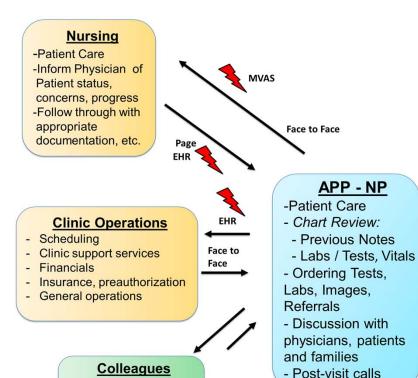
For every 15 minutes spent with patient, she spends 2 to 4 times that documenting in EHR

She spends ~2 hours of "pajamatime" documenting in EHR



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Medical Assistant

- Rooming
- Scribing
- Assist with documentation, medication reconciliation
- Room turnover



Physician

- -Patient Care
- -Oversee NP, APP
- Chart Review:
- Previous Notes
- Labs / Tests, Vitals
- Ordering Tests, Labs, Images, Referrals
- Discussion with consults, patients and families
- Post-visit calls



Labs/Radiology

- Perform ordered Lab-work
- Perform X-ray tests
- Read / Analyze Images
- Interpret labs / Images



Available to Collaborate

Advice / Support Consultation on Patient

Care

Relationships

Communication

Documentation

Physical Space

Other Groups

<u>Labs</u>

- Missing/late lab results
- · Wrong labs run
- Wrong timestamp

Specialist Referrals

- Scheduling delays
- Incomplete treatment plan
- Missing Notes in EHR

Pharmacy

- Problems with prescriptions, authorizations
- Prescription renewals

Coordination of Care

Roles & Responsibilities

- Performing others' tasks
- Spending time tracking down test results
- Spending time tracking down specialist diagnoses
- Spending time documenting other's information in HER
- Spending time documenting "unnecessary" information

EHR

Notes

- Copious historical notes, too much information to attend to
- Superfluous or no longer relevant information
- Incomplete or missing notes

Medication Reconciliation

- Too many options
- Lack of integrity in information
- Cumbersome process, too many clicks

Interruptions

Phone calls

- Patient questions
- Pharmacy
- Spending time tracking down specialist diagnoses

Paging

- Pages for nonurgent issues
- Too many pages
- Incorrect pages
- Incomplete information in page
- Paging system goes "dark"

Technology

Hardware

- Out-of-date hardware
- Computers that won't work
- Inaccessible printers
- Printers not networked

<u>Software</u>

- Out-of-date software
- Software incompatible or lack of integration
- · Slow to load
- Glitchy produces errors that need to be manually corrected

Work-space conditions

Work-Environment

- Not enough work stations
- · Old equipment
- Poor lighting and ventilation
- Too much ambient sound
- Patient load increasing faster than physical space can accommodate
- Insufficient space for private conversations
- Insufficient "break" space



Exercise: Prioritize Your Issues



