







# **HQIC Office Hours**

Post-Fall Management: Getting to Types of Falls, Repeat Falls and Determining Preventability

### Logistics – Zoom Meeting



To ask questions, click on the **Chat** icon. At the end of the presentation, you will also be able to unmute to ask a question verbally.

You may adjust your audio by clicking the caret next to the **Mute** icon.

Resources from today's session will be shared after the call.







## Today's Presenter



Pat Quigley, PhD, MPH, APRN, CRRN, FAAN, FAANP, FARN
Nurse Consultant







### My Hope

- Change your post-fall management practices to differentiate post-fall huddle as an essential and core intervention
- Increase precision in your application of your post-fall huddle to mitigate and eliminate causes of falls and injury







# Post-Fall Management







## Objectives

- Examine post-fall practices as a key intervention to reduce repeat falls
- Differentiate:
  - Post-fall huddles
  - Post-fall management
  - Post-fall documentation
- 3 Appy QI principles to expand outcomes





#### Burden of Falls

- Falls affect between 700,000 1,000,000 patients each year
- Fall rates: 3-5 per 1,000 patient days
- More than 1/3 of in-hospital falls result in injury
- Ranked among the most reported incidents in hospitals and other facilities
- Falls can lead to severe injuries, hip fractures and head trauma









### **Polling Question**

Which post-fall practice(s) do you currently have in place? (Select all that apply)

- A. Pre-shift safety huddles to discuss patients at risk for falls (as well as other safety topics)
- B. Post-fall huddle
- C. Post-fall assessment/analysis (root cause analysis)
- D. Analyze repeat fallers
- E. Analyze cause of repeat falls









### Post-Fall Practices

- Post-fall huddle
- Post-fall assessment
- Patient/resident/family education
- Staff education









# How Many Huddles Are You Doing?







## Safety Huddles

- Pre-shift huddles
- Post-fall huddles
- Conducted with the patient/resident where the fall occurred within 15 minutes of the fall
- Post-fall analysis
  - What was different this time?
  - When?
  - How?
  - Why?
  - Prevention: Protective action steps to redesign the plan of care

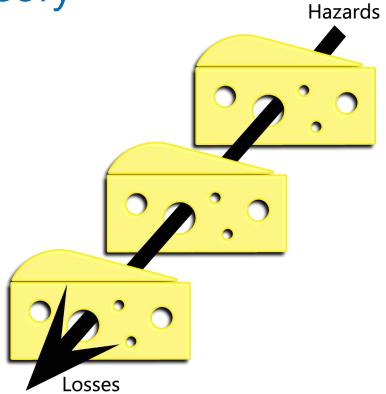








# \*Accident Theory









### Post-Fall Huddle (PFH): Essential Components

- A brief staff gathering, interdisciplinary when possible, that immediately follows a fall event
- Convenes within 15 minutes of the fall event
- Clinician(s) responsible for patient/resident during fall event leads the PFH
- Involves the patient/resident whenever possible in the environment where the patient/resident fell
- Requires "group think" to discover what happened
- Utilizes discovery to determine the root cause/immediate cause of the fall (Why the patient/resident fell)
- Guiding question to ask: What was different this time compared to all the other times you performed the same activity (and did not fall), but this time you fell?





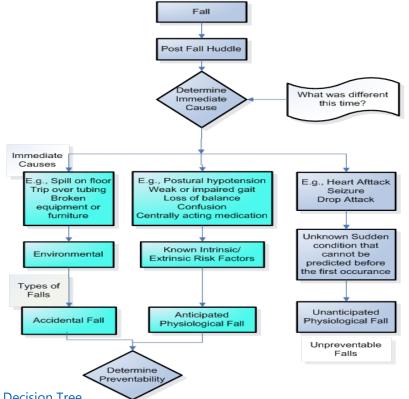
### Steps to the Post-Fall Huddle

Modifies the fall Communicate updated Team leader (TL) prevention plan of care plan of care in patient/resident hand-off makes announcement to include interventions to prevent repeat fall reports TL completes the post-Convene within 15 mins fall huddle form and Complete EMR with the pt/resident in processes the form the environment where according to medical post-fall note center policy and the patient/resident fell procedure TL summarizes Conduct analysis: information gleaned from **Determine root cause** PFH and intervention(s) for prevention of repeat of fall, injury and type fall are decided by the of fall huddle team





## Decision Tree for Types of Falls









### **Determine Preventability**

Step 1: Conduct the post-fall huddle

Step 2: Determine the immediate cause of the fall



**Step 4:** If accidental and anticipated physiological falls, determine preventability:

### Could the care provider (direct care provider) have anticipated this event with the information available at the time?

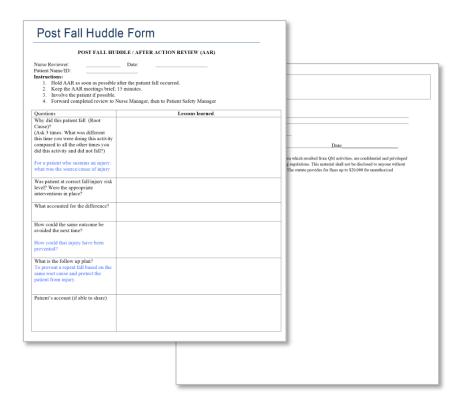
- If the answer is NO, the fall is not preventable
- If the answer is **YES**, the provider must ask another question: Were appropriate precautions taken to prevent this event?
  - If **no**, the fall was clearly or likely preventable
  - If **yes**, the call was clearly or likely unpreventable







### Post Fall Huddle Form



Post Fall Huddle Form







#### Outcomes of Post-Fall Huddles

- Specify root cause (proximal cause)
- Specify type of fall
- Identify actions to prevent reoccurrence
- Change plan of care
- Involve patient/resident (family) in learning about the fall occurrence
- Prevent repeat fall
- Reduce repeat fall rate







#### Post-Fall Huddle Resources



VHA National Center for Patient Safety



Falls Toolkit (Post Fall Huddles)



Preventing Falls in
Hospitals: A Toolkit for
Improving Quality of Care







### Tools

- Post-Fall Huddle Process
- Decision Tree
- Post-Fall Huddle Form
- Determine Preventability
- Case Study Exercises
- Audit Tool







# My Audit Tool

Post Fall Audit Tool - For Reliability of the Protocol	Protocol	Type of Measure	Reliabilit Proto	•	Quality Improvement Data	Notes
Steps of the Post Fall Huddle	Actions during each step					
Step 1:Announcement			Yes	No		
	Staff Member in charge of the patient makes an announcement to convene the post fall huddle	Process			List Leader (RN, CN, etc)	
	Staff Member becomes the Team Leaders of the Huddle	Structure				
Step 2: Gathering	3-4 members of the clinical team who know the patient gather for the huddle	Structure			List Who Attends	
	The huddle includes the patient/resident	Structure				
	If family present, family is included in the huddle	Structure			List Who Attends	
	The huddle occurs where the patient fell	Structure			Identify Location of Fall	
	The hudded convenes within 15 minutes of the fall	Process				
Step 3: Analysis	Team analzyes the fall event to determine root	Process			Document Root Cause	







#### Formative Measures

#### **Structures:**

- Who attends: Nursing and others count them
- Changed plan of care
- Add actions to your run-chart: Annotated run chart;
   Capture interventions

#### **Processes:**

- Timeliness of post-fall huddle (number of minutes)
- Timeliness of changing plan of care
- Time to implement changed plan of care









### Summative Outcome

- Prevent repeat fall: same root cause and same type of fall
- Reduce costs associated with falls and fall-related injuries









### Building Evidence About Post-Fall Huddles

- Two-year demonstration project (quasi-experimental study)
- 16 small rural hospitals (26 beds average)
- Determine associations between conducting post-fall huddles on repeat fall rates and perceptions of teamwork and safety culture







### Study Purpose

**Collaboration** and **Proactive Teamwork Used** to **Reduce** (CAPTURE) **Falls** purpose was to decrease the risk of falls in small rural hospitals by using a multi-team system (MTS) to implement evidence-based fall risk reduction practices.

MTS: Core team, contingency team, coordinating team







#### Results

- 308 pts; 64% had PFH; 347 falls; 223 falls after PFH
- Aggregate mean repeat fall rate 1.12 (1.00-1.45)
   [12% chance of a repeat fall]
- Results demonstrate that the greater the proportion of falls in a hospital that are followed by a post-fall huddle, the lower may be the repeat fall rate
- Staff perceptions of teamwork were consistently high regardless of participation in a post-fall huddle







### Comprehensive Post-Fall Assessment

#### Includes:

- General information about the fall
- Subjective and objective falls documentation
- Patient/resident assessment vital signs, visible signs of injury (type and pain scores), glucometer (if diabetic or facility policy), Glasgow Scale (if suspected brain injury) and Morse Fall Scale
- Interventions based on fall risk scale/Morse Fall Scale
- Facility personnel and family notification





## Post-Fall Assessment: Review of Systems

#### Review patient symptoms to elicit history linked to risk factors

Symptom	Fall Risk Factor
Visual disturbance (double vision, blurry vision, loss of vision)	Visual impairment?
Dizziness/lightheadness	Orthostatic hypotension? Abnormal vital signs?
Leg weakness	Gait or balance instability?
Urinary urgency or frequency	Urinary incontinence?
Syncope/loss of consciousness	One or more chronic diseases





## Post-Fall Note (EMR)

GENERAL INFORMATION ON FALL
Age: 108
Gender: MALE
Date/Time of Fall: *
Has patient already fallen today? *C Yes. C No. C Unknown.
Location of Fall:
C Patient/Resident Room
© Patient/Resident Bathroom If non-nursing
Shared Bathroom department, can type
© Hallway in location of fall
Patient/Resident Lounge
C A Non-Nursing Department -
Fall Witnessed:
🖸 💦 Fall Witnessed – Yes or No
(i.e., no other choices or drop-downs)





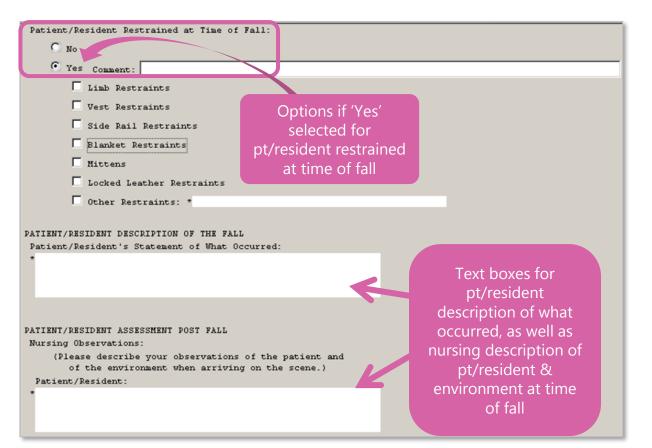
### General Information

GENERAL INFORMATION ON FALL	
Age: 108	
Gender: MALE	
Date/Time of Fall: *	
Has patient already fallen today? *C Yes. C No. C Unknown	
Location of Fall:	
C Patient/Resident Room	
C Patient/Resident Bathroom	
Shared Bathroom	
C Hallway	
C Patient/Resident Lounge	
C A Non-Nursing Department -	
Fall Witnessed:	
C No	
C Yes	If pt/resident assisted to
Patient/Resident Assisted to Minimize Fall:	minimize fall – these are
	answer options for 'Yes'
C No	· · · · · · · · · · · · · · · · · · ·
<b>●</b> Yes	selection; added PT, OT
Category of Person Who Minimized Fall:	
RN I	
LVN/LPN	
NA/UAP	
Other Professional Staff	
Sitter	
Another Patient	
Visitor	















ATIENT/PESIDENT ASSESSMENT POST FALL	
Nursing Observations:	
(Please describe your observations of t of the environment when arriving on	
Patient/Resident:	
Environment:	
Vital Signs (Pulse/Blood Pressure)	
Routine VS (If unable to take ort	:hostatic VS)
Pulse:	Enter routine vital
	signs (VS) if unable to
Blood Pressure:	take orthostatic VS
Respirations:	







Environment:	
Vital Signs (Pulse/Blood Pressure)	
Routine VS (If unable to take orthostatic VS)	
Pulse: Blood Pressure: Orthostatic VS (If patient condition permits)	Clicking on 'orthostatic VS' opens instructions and ability to document vitals
Take BP/P in two positions:  Lying> Standing  OR  Lying> Sitting (if patient is unable to stand becomes symptomatic when sitting).	
Initial: Lying: (Have patient lie flat for two to fi	ive minutes before taking lying VS)
Pulse: Blood Pressure:	
Immediate Change in Position:	
(Take BP/P upon immediate change in positions, lyin	ng to standing or lying to sitting)
C Standing:	
Pulse: Blood Pressure:	
C Sitting: (If unable to stand) Pulse:	
Blood Pressure:  C Unable to take due to fact that patient/residen	t can't tolerate upright position







#### Reminder Dialog Template: NURSING POST FALL ASSESSMENT (595-DT-336)

	• •	rized by a BP decrease of more pontaneously and rapidly returns
to normal so that the per	iod of hypotension and s	ymptoms is short. Classic
orthostatic hypotension i	s characterized by a dec	rease in SBP of 20 mm Hg or
greater and in diastolic	BP of 10 mm Hg or greate	r within 3 minutes of standing.
(Cronin and Kenny, 2010.	Cardiac causes of falls	. Clinics in Geriatric Medicine))
Repeat standing or sitting	ŗ	K
(Take BP/P three minutes a	after immediate position	change)
Standing:		Orthostatic BP
Pulse:	-	Reference/instructions
Blood Pressure:		
Sitting: (If unable to	stand)	
Pulse:		
Blood Pressure:		
O Unable to take due to position	fact that patient/resider	nt can't tolerate upright







```
Glucometer Reading
    Is patient/resident diabetic?
         (If not diabetic but reading was taken, you may enter)
        O No
         Glucometer Reading *
              Is Patient/Resident Hypoglycemic? (blood glucose level equal to or below
               70 mg/dl)
                  O No
```







```
Visible Signs of Injury:
   O No
   • Yes (Select all that apply)
        Swelling:
            Location: (Select all that apply)
           Torso - Front
            Torso - Back
            ☐ Head
           Neck
           ☐ Shoulder - Right
           ☐ Shoulder - Left
           Arm - Right
           □ Arm - Left
           Flbow - Right
            □ Elbow - Left
            ☐ Wrist - Right
           ☐ Wrist - Left
            ☐ Hand - Right
            ☐ Hand - Left
            ☐ Hip - Right
           ☐ Hip - Left
           ☐ Knee - Right
            Knee - Left
            Leg - Right
           Leg - Left
           Foot - Right
            Foot - Left
```

If yes to visible signs of injury, type of injury can be selected (e.g., deformity); selection prompts nurse to select location on pt/resident body





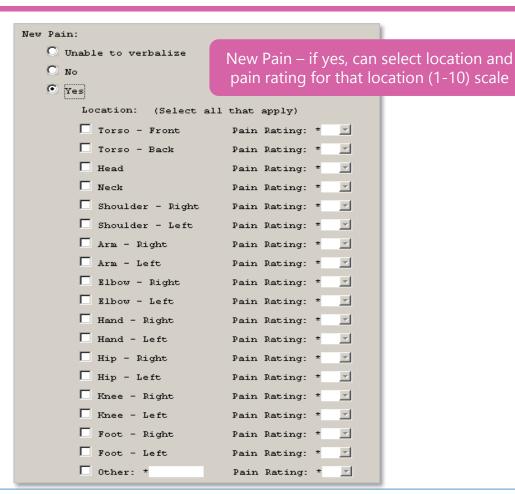


Visible Signs of Injury:
C No
6
Yes (Select all that apply)
☐ Swelling:
Laceration(s):
Abrasion(s):
▼ Deformity(ies):
Other:*
New Pain:
C Unable to verbalize
C No
C Yes
Change in Range of Motion (ROM):
C Unable to test due to pain
C No
C Yes

Physical assessment – New Pain or Change in Range of Motion – If selection is 'Unable to Verbalize' or 'No', can go on to next question (includes list of locations, including other as comment with pain rating)













Change in Range of Motion (ROM):				
O Unable to test due to pain				
Change in ROM: if yes, select body area involved				
⊙ Yes				
$\square$ New decreased range of motion right upper extremity.				
$\square$ New decreased range of motion left upper extremity.				
$\square$ New decreased range of motion right lower extremity.				
$\square$ New decreased range of motion left lower extremity.				
New decreased range of motion back.				
$\Gamma$ New decreased range of motion neck.				
NEUROLOGICAL ASSESSMENT				
Patient/Resident has a suspected or actual impact to the head.				
☐ No If no suspected or actual head				
impact, select 'no' and move on				







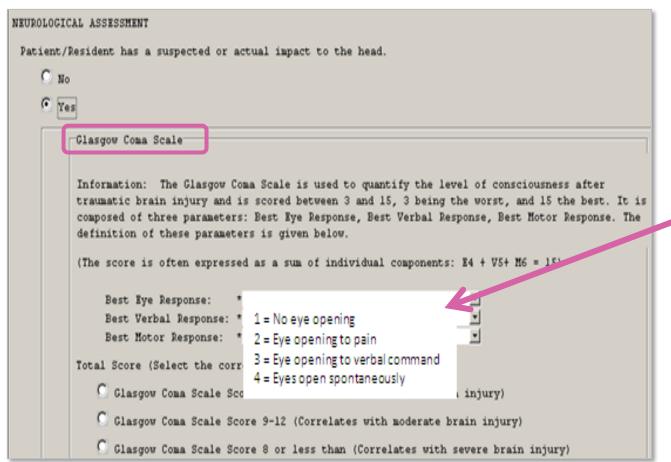
NEUROLOGICAL ASSESSMENT	
Patient/Resident has a suspected or actual impact to	the head.
O No O Yes	If Suspected or actual impact to head: 'Yes' selection opens Glasgow Coma scale and guidance
traumatic brain injury and is scored betwee	Adding up the eye, verbal, and motor scores correlates with mild brain injury)  Adding up the eye, verbal, and motor scores correlates with mild, mod, or severe brain injury

Glasgow Coma Scale Score 8 or less than (Correlates with severe brain injury)









Scoring options for Best Eye Response







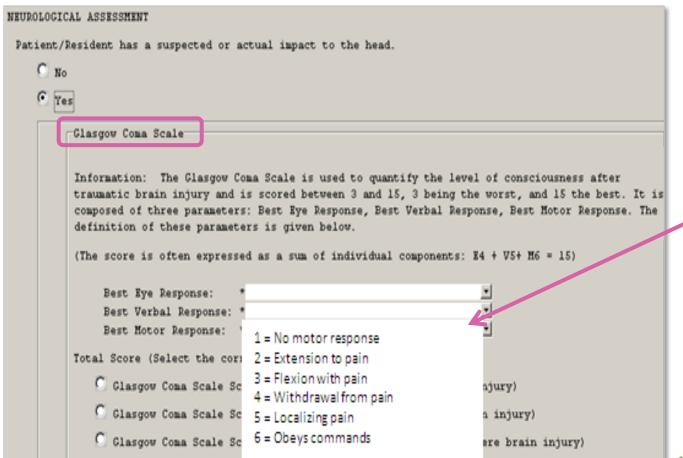


Scoring options for Best Verbal Response









Best Motor Response







	Patient/Resident forgets limitations (Mental Status Assessment) - (positive response to Morse Fall Scale Question #6)
1	choose at least one
	Re-educate/reminders regarding safety
	Move closer to Nurses' Station
	☐ Provide clocks and calendars
	□ Use a wandering monitoring device
	Arrange for diversional activities
	Observe every one hour
	Other:
	Uther:
RY	PREVENTION INTERVENTIONS
ry	Prevention Interventions:
ry	Prevention Interventions:
ry	Prevention Interventions: lect all that apply Injury Prevention:
ry Sel	Prevention Interventions:
ry Sel	Prevention Interventions: lect all that apply Injury Prevention:
iry Sel	Prevention Interventions:  Lect all that apply  Injury Prevention:  Height adjustable bed (low position when resting in bed)
iry Sel	Prevention Interventions:  Lect all that apply  Injury Prevention:  Height adjustable bed (low position when resting in bed)  Hip protectors







njury Prevention Interventions:					
Select all that apply					
Injury Prevention:					
Height adjustable bed (low position when resting in bed)  Hip protectors  Floor mat  Helmet	Preventive intervention selections				
☐ Patient Education about anticoagulation and fall occurrence ☐ Other:	Selections				
DIFICATIONS					
Time of notification:  Name of physician notified:  Nursing Administrator/Nursing Supervisor Notified:  Time of notification:  Name of administrator/supervisor notified:					
Family Notified:					
C Family notified by nursing staff Time of notification: Name of family member/support person notified:					
C MD responsible for notification					
No family members/support person listed Unable to reach family					
C Other					
Nursing Staff Notified (that the patient/resident has fallen and is at Time of notification:	risk to fall again):				

Other Corrective Actions Taken Post Fall:







## Teaching: After a Fall

- Reframe patient/resident education curricula to include "what happens after a fall"
- What can we learn from this event?
- How can we work together to prevent this again?







## Staff Education

- Universal fall prevention
- Individualized fall prevention
- Injury reduction strategies
- Root cause trends of falls
- Interventions for Improvement
- Impact of changes in practices

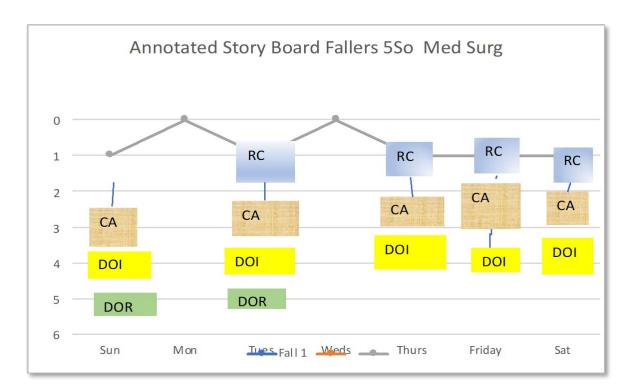








## My Unit Story Board



**RC - Root Cause** 

**CA - Corrective Action** 

**DOI - Date of Implementation** 

**DOR - Date of Resolution** 







## Learn from Falls: Change Your Conversation

- Talk about and trend root causes
- Monitor interventions for mitigation/elimination of root causes
- Align interventions to type of falls
- Precision in program evaluation: Reduction
- Accidental falls
- Anticipated physiological falls
- Unanticipated physiological falls







## To change practice is not for the faint of heart

It takes a lot of work:

Patience, perseverance, champions, positive approach and data



## You Can Always Reach Me

Patricia Quigley, PhD, MPH, ARNP, CRRN, FAAN, FAANP, Nurse Consultant pquigley1@tampabay.rr.com







### References

- AHRQ, Patient Safety Network [PSNet], Patient Safety Primer: Falls. Updated Sept. 2019).
   Available: <a href="https://psnet.ahrq.gov/primer/falls">https://psnet.ahrq.gov/primer/falls</a>
- Ellis S, Mendel R, Nir M. Learning from successful and failed experience: The moderating role of kind of after-event review. J Appl Psychol. 2006;91(3):669–80.
- Jones, K.J.,. Crowe, J., Allen, J.A., Skinner, A.M., High, R., Kennel, V., & Reiter-Palmon, R. (2019). The impact of post-fall huddles on repeat fall rates and perceptions of safety culture: a quasi-experimental evaluation of a patient safety demonstration project. BMC Health Services Research. 19: 650. Available: <a href="https://bmchealthservres.biomedcentral.com/track/pdf/10.1186/s12913-019-4453-y">https://bmchealthservres.biomedcentral.com/track/pdf/10.1186/s12913-019-4453-y</a>
- Tannenbaum SI, Cerasoli CP. Do team and individual debriefs enhance performance? A meta-analysis. Hum Factors. 2013;55(1):231–45.



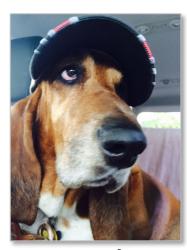




# I fall a lot! Why?



Oreo



Jethro







#### Resources

- VHA National Center for Patient Safety
- Falls Toolkit (Post Fall Huddles)
- Preventing Falls in Hospitals: A Toolkit for Improving Quality of Care

#### **HQIN Resource Center**

- Simple Strategies for Fall Management
- <u>Simple Strategies: Environmental Safety and Fall Prevention</u>
- <u>Simple Strategies: Fall Prevention with Medication Management</u>
- Process Measure Audit Tracking Tool
- Nursing Home Falls Tracking Tool









## July Office Hours

**First Do No Harm**: Our Patient Safety Initiative to Change Clinician Opioid Prescribing

Thursday, July 13 @ 12:00 p.m. EST







## CONNECT WITH US

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