

STRATEGIES TO PREVENT INJURIES FROM FALLS

Suzanne Rita RN, MSN
Iowa Health System
Des Moines, Iowa



Learning Outcomes

- Identify the four components of a successful fall/injury prevention program.
- Develop strategies to synthesize new tools into your local fall prevention program.



TCAB Themes and High Leverage Changes... The “what” of TCAB

- **Safe and Reliable Care**
- Vitality and Teamwork
- Transformational Leadership
- **Patient-Centered Care**
- Value-added Care Processes



Model for Improvement



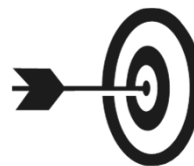
What are we trying to accomplish?

- What is your injury rate?
- What do you know about the distribution of the types of injuries
 - Minor: band aid, ice pack or less
 - Moderate: steri-strips or sutures
 - Major: fracture, reduction, traction
 - Death



Reducing Injuries from Falls

TARGET



Incidents of serious injuries from falls are reduced to 1 or less per 10,000 patient days.



* IHI Transforming Care at the Bedside

Model for Improvement



How will we know that a change is an improvement?

Establishing Measures

- Tells whether changes actually lead to improvement
 - Seek usefulness, Not perfection
- Multiple Balanced Set of Measures
 - Process, satisfaction, value
 - Use sampling
 - Integrate measurement into daily routine

Measures

Outcome Measures:

How is system performing?
What are results?

Process Measures:

Are system parts/steps performing as planned?

Balancing Measures:

Do changes designed to improve one part cause problems in another?



Family of Measures

- Moderate and higher injury rate
- Falls rate
- Minor injury rate
- Process measures like:
Teach back, rounding, reliability, assessments, huddles to id today's pts at highest injury risk



RISK OF INJURY FROM FALL		
RISK OF FALL	<p>+</p> <p><u>+ RISK FALL/- RISK INJURY</u> <i>Traditional approach</i></p> <ol style="list-style-type: none"> 1. Use existing protocols to prevent falls 2. Problem solve every fall 	<p><u>+ RISK FALL/+ RISK INJURY</u> <i>New area of focus</i></p> <ol style="list-style-type: none"> 1. Use existing protocols to prevent falls 2. Add injury reduction interventions 3. Enhance communication about risk of injury 4. Problem solve every fall
	<p>—</p> <p><u>-RISK FALL/-RISK INJURY</u> <i>New area of focus</i></p> <p>Identify, communicate, and intervene when injury risk changes.</p>	<p><u>-RISK FALL/+RISK OF INJURY</u> <i>New area of focus</i></p> <ol style="list-style-type: none"> 1. Identify, communicate, and intervene when fall risk changes. 2. Implement injury reduction strategies 3. Enhance communication about risk of injury 4. Problem solve every fall

Strategies: the Vital Few

- **Assess Risk of Falling and Risk for Injury from a Fall (All Patients)**
- **Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)**
- **Standardize Interventions (Patients at Risk for Falling)**
- **Customize Interventions (Patients at Risk for Injury)**

* IHI's TCAB How to Guide : Reducing Patient Injuries from Falls



Best Outcome for Every Patient Every Time

Strategies: the Vital Few

- **Assess Risk of Falling and Risk for Injury from a Fall (All Patients)**
- **Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)**
- **Standardize Interventions (Patients at Risk for Falling)**
- **Customize Interventions (Patients at Risk for Injury)**



Strategies: the Vital Few

Assess Risk of Falling and Risk for Injury from a Fall (All Patients)

- Perform standardized fall risk assessment on admission and when the patient's clinical status changes.
- Assess patients most at risk of moderate to severe injury from a fall every shift.



Fall Risk Assessment Tool

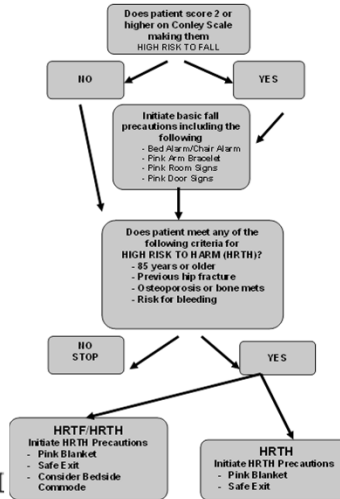
- Morse
- Schmidt
- Conley
- Hendrich II



Fall Injury Assessment Tool: ABCS

- **A:** Age- >85
- **B:** Bones: History of fractures- Hip (although multiple fx could be a sign); Certain Diagnoses- (osteoporosis, bone metastasis); Treatments or medications that cause bone to be weak
- **C:** Coagulation: Blood Thinners(Coumadin, heparin gtt); Coagulopathy
- **S:** Risk of surgical complications post surgery (Recent Abdominal, thoracic surgery, lower limb amputation)

Assessment For High Risk to Injury: Falls Algorithm



Strategies: the Vital Few

- **Assess Risk of Falling and Risk for Injury from a Fall (All Patients)**
- **Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)**
- **Standardize Interventions (Patients at Risk for Falling)**
- **Customize Interventions (Patients at Risk for Injury)**

Strategies: the Vital Few

Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)

- Communicate to all staff information regarding patients who are at risk of falling or sustaining a fall-related injury
- Communicate risks and associated interventions at every shift change
- Educate the patient and family members about risk of fall's injury on admission and throughout hospital stay using health literacy strategies



Communication

- **Visual Indicators**: Wrist band, room identifiers, socks, stickers, etc.



Pre Shift Huddle

Communicate information about our patients identified as the “Vital Few”...

- those who are a high risk for injury if they fall
- those at risk for skin breakdown (HAPUs)
- those who are receiving high alert medications
- the next potential medical response team call
- At the beginning of every shift (shift change) for 5 minutes
- All clinical staff
- Identify safety interventions



Strategies: the Vital Few

Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)

- Communicate to all staff information regarding patients who are at risk of falling or sustaining a fall-related injury
- Communicate risks and associated interventions at every shift change
- Educate the patient and family members about risk of fall's injury on admission and throughout hospital stay using health literacy strategies.

Handoff Tool- Every Patient, Every Time

- Patient's risk assessment score
- Patient's risk to Injury
- Interventions in place
- Walking rounds



Bedside Communication

- Is the patient at high risk to injury?
- How do I know that?
- What interventions are in place to keep the patient safe?
 - Visual cues
 - Low bed suite
 - Patient teach back



A3 Problem Solving

- Structured Problem Solving
- Find the Why's
- Forces Us to Think Critically, Creatively, and Collaboratively
- Gets to the Root Cause of the Problem



Strategies: the Vital Few

Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)

- Communicate to all staff information regarding patients who are at risk of falling or sustaining a fall-related injury
- Communicate risks and associated interventions at every shift change
- Educate the patient and family members about risk of fall's injury on admission and throughout hospital stay using health literacy strategies.

Enhanced Teaching and Learning

“Teach Back”

- ▶ Explain needed information to the patient or family caregiver
- ▶ Ask in a non-shaming way for the individual to explain in his or her own words what was understood
- ▶ Once a gap in understanding is identified, offer additional teaching or explanation followed by a second request for Teach Back



Fall Prevention Tips

(update 6/8/2007)

Sentara is committed to work with our patients and their families to provide a safe and comfortable environment. Here are some general tips to prevent falls. Please consult your nurse if you have any questions.

Job aid posted in patient rooms.

-  **Call** for assistance when getting out of bed or going to the bathroom. Use bathroom emergency light if needed.
-  **Keep** the night light on.
-  **Walk** close to the wall and use handrails for support.
-  **Wear** slippers/shoes with rubber soled bottoms.
-  **Report** spills or unsafe conditions to your healthcare team.
-  **Use** the call bell for any item beyond your reach.
-  **Rise** slowly from lying or sitting position. Dangle your feet before walking and sit down immediately if you feel dizzy.
-  **View** Patient Safety Video.



Fall Precautions



Please help us keep our patients safe

- Please use the call light for help
- Your loved one is on fall precautions. Please let us know when you leave the room for any reason
- Remind your loved one not to get up on their own

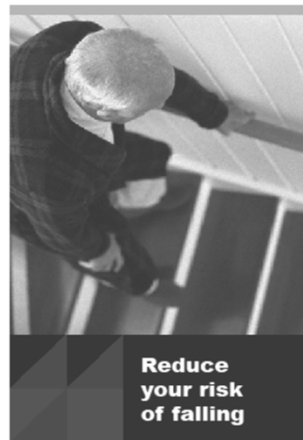


SpeakUP™

Each year, millions of people are injured by falls. People at risk of falling include hospital patients, nursing home residents and those who are recovering from an illness or injury at home. This brochure includes tips and actions you can take to reduce your risk of falling, whether at home or in a medical facility.

The Joint Commission is the largest health care accrediting body in the United States that promotes quality and safety.

Helping health care organizations help patients



Strategies: the Vital Few

Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)

- Educate ALL staff about fall reduction/injury prevention program.



Your role in preventing falls at Grundy County
Memorial Hospital



Staff Education












- Monthly storyboards
- Quality bulletin boards
- Safety Fairs
- Fall prevention related conferences



Strategies: the Vital Few












- **Assess Risk of Falling and Risk for Injury from a Fall (All Patients)**
- **Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)**
- **Standardize Interventions (Patients at Risk for Falling)**
- **Customize Interventions (Patients at Risk for Injury)**

High Risk to Fall Interventions

-  Purposeful rounds every two hours
-  Call bell in reach
-  Teach back on call bell use
-  Toileting prior to pain medication
-  Safety huddle prior to each shift
-  Post fall huddle
-  Bed in low position
-  Brakes locked on bed, chair, commode
-  Appropriate lighting including night light in bathroom.
-  Non slip footwear
-  Bedpan/urinal in reach



High Risk to Fall Interventions

-  Alarm devices as needed
-  Assistive devices as needed
-  Gait belts
-  Bedside commode
-  Positioning devices
-  PT/OT review
-  Pharmacy review
-  Clutter elimination
-  Family or patient attendant with patient
-  Height adjustable beds with mats
-  Rearrange furniture to provide a safe exit



Strategies: the Vital Few

Standardize Interventions (Patients at Risk for Falling)

- Implement both hospital-wide and patient-level improvements to the patient care environment to prevent falls
- Perform purposeful rounding



Places That Falls Occur

- Patient's room – 79.5%
- Bathrooms – 11%
- Hallways /treatment rooms – 9.5%



Tzeng, HM & Yin, CY. 2008. The extrinsic risk factors for inpatient falls in hospital patient rooms. *Journal of Nursing Care Quality*, 23 (3).

The Patient's Bedroom

- Single patient concept
- Height adjustable beds
- Handrails
- Bed alarms/chair alarms/motion sensors
- Equipment placement
- Bundling equipment cords



The Patient's Bedroom

- Night light
- Glowstrips on floor to illuminate route to bathroom
- Non slippery floors
- Bedside chairs that are easy to get in and out of
- Support family presence



The Patient's Bathroom

- Night light
- Motion sensed lighting
- Raised toilets- Fixed, raised toilet seats
- Safety railings on either side of toilet
- Replace doorknobs with levers

The Patient's Bathroom

- Showers
- Non-slippery floors
- Appropriate door openings

Environmental Fall Risk Rounding Checklist: Patient Room

- All wall light switches working properly (also check for burned out bulbs)
- All patient light controls working properly.
- If nightlights present (under bed, in bathroom), do they work properly.
- Call bell functions properly
- Flooring free of tripping hazards such as uneven surface or doorway thresholds.



Environmental Fall Risk Rounding Checklist: Patient Room

- If bed exit alarm present, it operates properly.
- Door openings to bathroom wide enough (36 in) for assistive device to fit through (ex. walker, IV pole)
- Grab bars located next to toilet.
- Portable equipment pushed by patient moves freely & in good repair.



Strategies: the Vital Few

Standardize Interventions (Patients at Risk for Falling)

- Implement both hospital-wide and patient-level improvements to the patient care environment to prevent falls
- Perform purposeful rounding



Why Rounding?

- Studer Group's Alliance for Health Care Strategy (AHCS) **research** showed Hourly Rounding:
 - Reduces call lights by 37.8%
 - Reduces miles walked by nurses by 1.6
 - Reduces falls by 50%
 - Reduces decubiti by 14%
 - Improves patient satisfaction scores by 10 points



Basics of Purposeful Rounding

- 5 Ps
 - Pain
 - Potty
 - Position
 - Personal belongings
 - Pathway – Safe exit

Examples – Key Words

- ▶ “I have time to spend with you right now”
- ▶ “Someone will be in to check on you about every hour”
- ▶ “It is time to.....try to go the bathroom, let me help you”
- ▶ “It is time to...change your position, let me help you”
- ▶ “Someone will be back to check on you in about one hour. Is there anything you need before I leave?”

Strategies: the Vital Few

- **Assess Risk of Falling and Risk for Injury from a Fall (All Patients)**
- **Communicate and Educate (Patients Assessed to be at Risk of Fall or Injury)**
- **Standardize Interventions (Patients at Risk for Falling)**
- **Customize Interventions (Patients at Risk for Injury)**



Strategies: the Vital Few

Customize Interventions for Patients at Highest Risk of a Serious/Major Fall-Related Injury

- Increase the intensity and frequency of observation
- Make environmental adaptations and provide personal devices to reduce risk of fall-related injury
- Target interventions to reduce side effects of medications or treatments



Quick Checks in LTC

WHO

- History of 2 or more falls within 1 month.
- Upon admission for 72 hours.
- Upon readmission from hospitalization for 24 hours.
- For acute illness or medical condition.
- Upon CNA or nurse referral because of changed resident behavior.



Quick Check in LTC

WHEN TO REMOVE

- The resident is no longer at risk related to a decline in mobility or increase in ability.
- Acute illness or medical condition is resolved.
- A change in behavior indicating an understanding of call light use and the need to call for help.



Strategies: the Vital Few

Customize Interventions for Patients at Highest Risk of a Serious/Major Fall-Related Injury

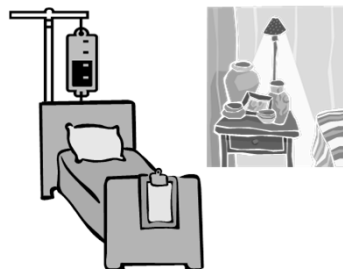
- Increase the intensity and frequency of observation
- Make environmental adaptations and provide personal devices to reduce risk of fall-related injury
- Target interventions to reduce side effects of medications or treatments



Safe Exit



Safe Exit Side
R L



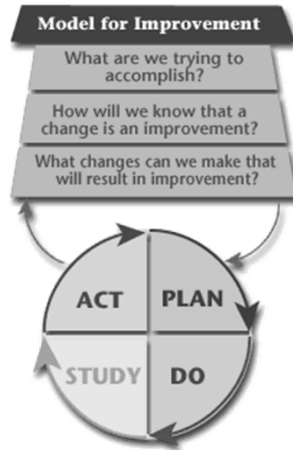
Strategies – The Vital Few

Age > 85	ALL patients that meet at least ONE criterion receive: Armband/ room sign Teach back on high risk to injury Safe exit Purposeful rounds every one hour
Bones	1. Height adjustable bed 2. Mat on floor 3. Hip protectors
Coagulation	1. Height adjustable bed 2. Mat on floor 3. Helmet 4. Education on anticoagulation safety
Surgery	1. Height adjustable bed 2. Mat on floor

Next Steps: Safe Transitions

- Correct assistive device
- Home safety assessment
- Patient and family education on safe home set up
- Community resources

Model for Improvement



ACTION PLANNING

Preventing Falls with Injury: Team Assessment

Instructions: Please answer with either a "Y" for yes or a "N" for no.

	INTERVENTIONS	Have tested this change		Have implemented this change		Tested and abandoned the change		Not yet tested this change	
		Y	N	Y	N	Y	N	Y	N
Assessment									
1	Assess patient for fall risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	Assess patient for risk of injury associate with a fall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication									
3	Communication the risk of Injury amongst the care team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	Communicate the risk of falling or the potential for injury from a fall amongst ancillary departments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Educate patients/families on risk for falling/injury									
5	Teach back	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	Repeat back - use of call light	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	Video/pamphlets for patients and/or families about the risk for falling/injury while hospitalized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	Discharge Instructions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standardize Interventions (Patients at Risk for Falling)									
9	Visual cues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	Low bed and/or floor mat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	Safe exit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	Patient teaching on anticoagulants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	Environmental risk reduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	Focused rounding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Customize Interventions (Patients at Risk for Injury)									
15	More frequent rounding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	Hip protectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

WORK OUT

- Create the Plan for a small test of change
- Work Session = 10 minutes
- Report out = 5 minutes
- Share & Critique



Best Outcome for Every Patient Every Time

WORKSHEET FOR A SMALL TEST OF CHANGE
PDSA CYCLE # _____

TEAM: _____ Date: _____

Aim: What are you trying to accomplish with this test? The Aim includes a numerical goal, timeframe, and patient population and system to be improved. Every aim will require multiple smaller test of change. Write your aim.

Measure: How will you know that a change is an improvement? Write your measure here.

Plan

Describe your first (or next) test of change	Person Responsible	When to be done	Where to be done

List the tasks needed to set up this test of change	Person Responsible	When to be done	Where to be done
1- 2- 3- 4-			

Predict what will happen as a result of this test	What measures will help you determine if the prediction succeeds.
1- 2- 3- 4-	1- 2- 3- 4-



...at this point. You have planned your test and will not be able to complete the Do-Study- Act portion until you run the test.

Do: Describe what actually happened when you ran the test

Study: Describe the measured results and how they compared to the predictions and what you learned from the cycle

Act: Describe modifications for the next cycle based on what you learned

THANK YOU

Suzanne Rita
ritasa@ihs.org



Best Outcome for Every Patient Every Time