

CAPTURE Falls

Collaboration and Proactive Teamwork Used to Reduce

Types of Falls

What is a fall?

Agency for Healthcare Research and Quality
Common Formats Version 2.0

“A fall is a sudden, unintended, descent of a patient’s body to the ground or other object (e.g., onto a bed, chair, or bedside mat) that can be assisted or unassisted.”



Unassisted vs. Assisted Falls

Falling without vs. with help

Unassisted

- Fall occurs without hands-on assist from another person
- May or may not be observed

Assisted

- When a patient begins to fall and is assisted to the ground or other object by another person
- Ideally occurs with a gait belt to allow the caregiver to control the patient's descent



All Falls Are Not Created Equal

Staggs et al, 2014

“When falls tend to occur with assistance, it suggests that staff have identified at-risk patients and are in attendance during mobilization activities....”

“...a more appropriate patient safety goal is reducing unassisted falls, which pose the greatest preventable risk of injury.”

“...we would argue that an assisted fall, particularly during mobilization, is not necessarily a failure for the hospital staff and should not be treated as such.”

All Falls Are Not Created Equal

Staggs et al, 2015

“Unassisted falls...uniquely reflect quality of care in that they occur when staff members are absent, unaware that the patient needs assistance, or unable to help for some other reason.”

“...attempts to prevent all falls could discourage appropriate patient mobilization.”



Predictors of Falling Unassisted

Gender

Male patients more likely than females to fall unassisted

Nursing Staff Mix

Fewer RNs vs. LPNs/assistants related to more unassisted falls

Unit Type

Rehab = most unassisted falls; ICU = least

Total Nurse Hours per Patient Day

(total nursing care hours per month/total patient days per month)

Unassisted falls decline as nurse hours increase beyond 9.1 per patient day

Average tenure of RNs

Unassisted falls decline with longer RN tenure on the unit

Staggs VS, Knight JE, Dunton N. Understanding unassisted falls: effects of nurse staffing level and nursing staff characteristics. *J Nurs Care Qual.* 2012;27(3):194-199.

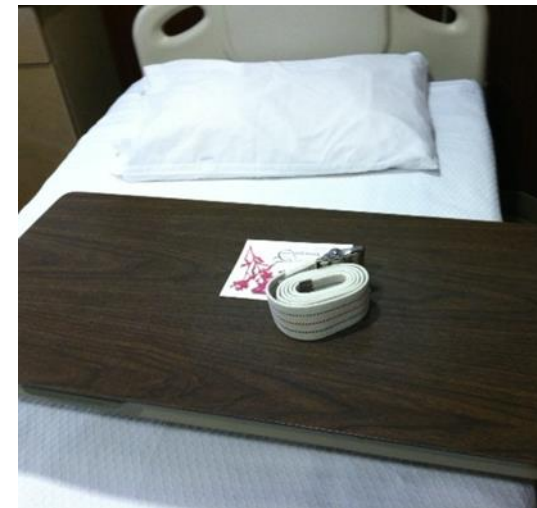
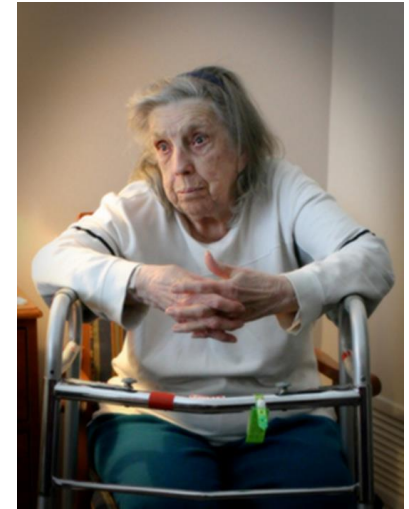
Staggs VS, Mion LC, Shorr RI. Assisted and unassisted falls: different events, different outcomes, different implications for quality of hospital care. *Jt Comm J Qual Patient Saf.* 2014;40(8):358-364.

Staggs VS, Dunton N. Associations between rates of unassisted inpatient falls and levels of registered and non-registered nurse staffing. *Int J Qual Health Care.* 2014;26(1):87-92.

Predictors of Falling Unassisted

Based on 353 falls reported by 17 rural Nebraska hospitals in 2012-2014, the odds of a fall being unassisted were:

- 2.5 times greater for someone ≥ 65 vs. < 65
- 3.7 times greater for someone with cognitive impairment vs. without
- 7 times greater if a gait belt was not identified as an intervention in the care plan for that patient vs if it was identified as an intervention.



Injurious vs. Non-injurious Falls

Harm of any kind vs. no harm

Injurious

- Patient is harmed by the fall
- Harm ranges from minor injury to death

Non-Injurious

- Patient is not harmed by the fall



Extent of Harm From Injurious Falls

National Database of Nursing Quality Indicators

Minor

- Fall resulted in application of dressing, ice, cleaning of wound, limb elevation, topical medication

Moderate

- Fall resulted in suturing, application of steri-strips/skin glue, splinting or muscle/joint strain

Major

- Fall resulted in surgery, casting, traction, consultation for neurological (e.g. skull fracture, subdural hematoma) or internal injury (e.g. rib fracture, liver laceration) or need for blood products

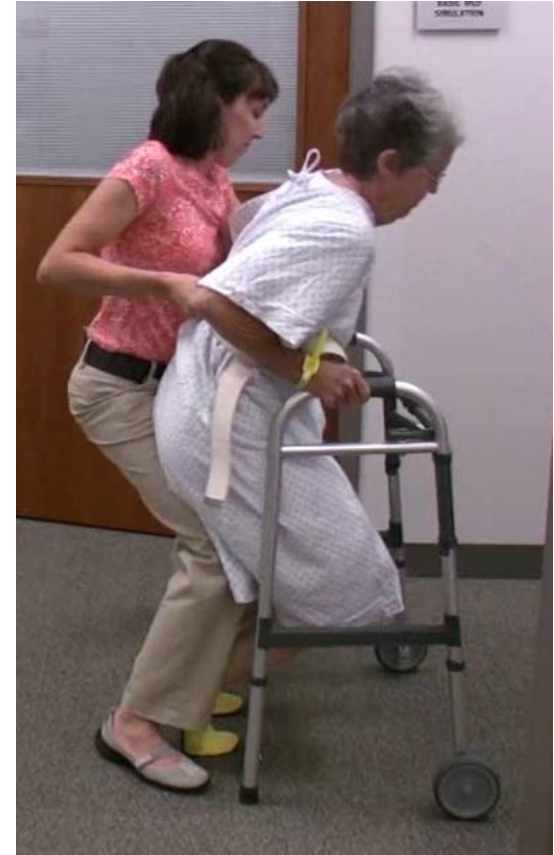
Death

- Patient died as a result of injuries sustained from the fall



Predictors of Fall-Related Injury

- Based on 3,962 falls from 8 Midwestern Hospitals from 2001-2003, the odds of injury for an unassisted fall were 1.83 times that of an assisted fall.
- “Even if fall rates remain the same, increasing the proportion of falls that are assisted by a staff member could help decrease injury rates.”



Predictors of Fall-Related Injury

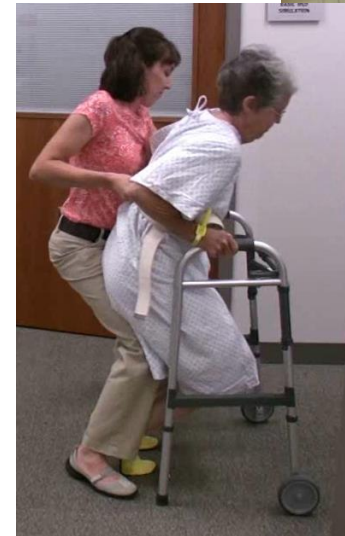
Based on 154,324 falls reported to the NDNQI in 2011, the odds of injury for an unassisted fall were 1.59 times that of an assisted fall.



Predictors of Fall-Related Injury

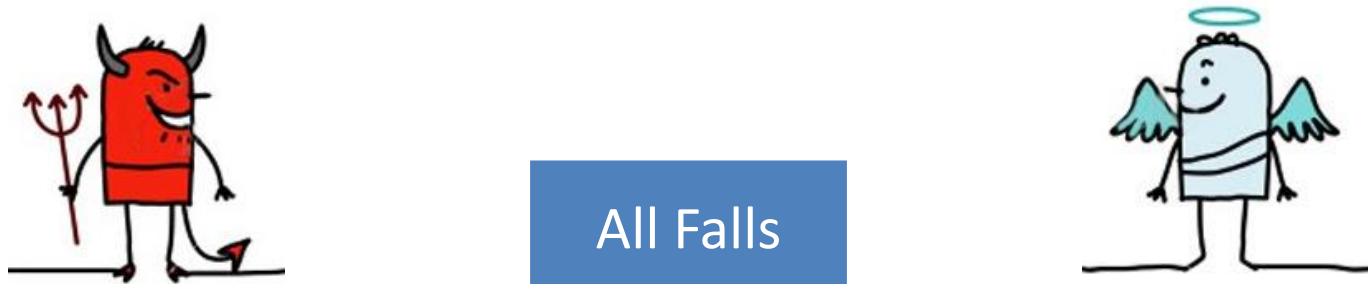
Based on 353 falls reported by 17 rural Nebraska hospitals in 2012-2014, the odds of a fall resulting in injury were:

- 2.5 times greater for someone ≥ 65 vs. < 65
- 2.5 times greater if a fall occurred in the bathroom vs. other location
- 3.7 times greater if an fall was assisted without a gait vs. assisted with a gait belt



Fall Incident Types

Categories combine to make four distinct types of falls



All Falls

Unassisted

Fall alone

Injurious

Worst case

Staff not there to help and patient is harmed

Non-injurious

Got lucky

Assisted

Fall with help

Injurious

Still not good

Non-injurious

Best case

Staff there to help and patient is unharmed

Case Example:

Unassisted, Injurious

Patient

- 95 year-old female

Diagnosis and Comorbidities

- Cerebrovascular Accident
- Dementia

Fall Description

- Patient found in bathroom on floor after nurse heard a loud "thump."

Contributing Factors

- Bowel urgency; left foot drop; staff unaware patient needed to use bathroom

Injury

- Hematoma to head, requiring application of ice and additional neuro checks



Case Example:

Unassisted, Non-Injurious

Patient

- 80 year-old male

Diagnosis and Comorbidities

- Pneumonia
- Hypertension

Fall Description

- Patient found sitting on floor in front of bedside chair. Reports he was attempting to stand, felt lightheaded, and missed the chair seat as he tried to sit back down.

Contributing Factors

- Recent change in blood pressure medication; found to have orthostatic hypotension and low oxygen saturation following the fall upon further assessment.

Injury

- None



Case Example:

Assisted, Injurious

Patient

- 68 year-old male

Diagnosis and Comorbidities

- Total hip arthroplasty

Fall Description

- Patient ambulating in hall with assist of 1, wheeled walker, and gait belt. Loses balance sideways. Hits elbow against wall as staff attempts to steady patient before lowering into a chair.

Contributing Factors

- Anticoagulant medications, pain, deconditioning

Injury

- Skin tear to right elbow requiring dressing



Case Example:

Assisted, Non-Injurious

Patient

- 70 year-old female

Diagnosis and Comorbidities

- Diarrhea
- Dehydration

Fall Description

- Patient performing standing transfer from commode to bed with assist of staff. Legs begin to buckle during the turn. Staff uses gait belt to guide patient back to the commode.

Contributing Factors

- Electrolyte imbalance, lower extremity weakness

Injury

- None



Portions of the content in this document were originally shared as part of a CAPTURE Falls Collaborative Support Call on April 23, 2019.



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