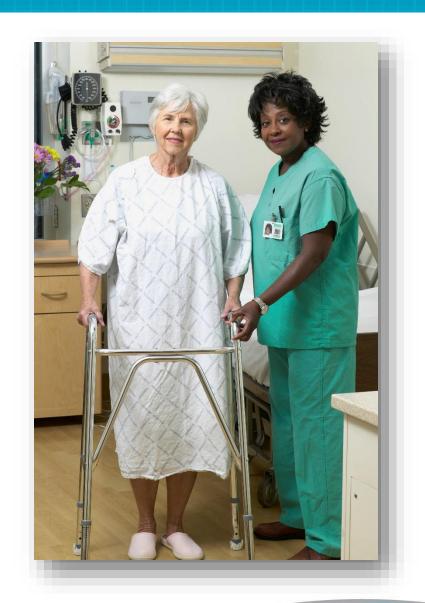
Measuring Fall and Fall-Related Injury Rates and Prevention Practices

Presented by

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Welcome!

Thank you for joining this webinar about how to measure fall and fall-related injury rates and fall prevention practices.



A Little About Myself...

- Work for VHA National Center for Patient Safety
- Have been a nurse since
 1984
- Have worked with numerous teams in fall breakthrough series



Today We Will Talk About

- Purpose of measurement
- Types of falls
- Types of falls to focus on
- Measuring fall and fallrelated injury rates
- Measuring fall prevention practices



These topics were introduced in your 1-day training. Today, we will revisit them in depth.

Please make a note of your questions. Your Quality Improvement (QI) Specialists will follow up with you after this webinar to address them.

Purpose of Measurement

Measuring fall and fall-related injury rates and fall prevention practices tells you—

- If any areas of care can be improved
- If you are meeting your aims
- If your changes are an improvement
- If you sustain your improvements

If you can't measure it, you can't improve it!

Types of Falls

Accidental falls

May be caused by—

- Extrinsic environmental risk factors or hazards
 - Spills, clutter, tubing/cords
- Errors in judgment
 - Not paying attention

Action:

Determine preventability.

Types of Falls

Anticipated physiological falls

May be caused by—

- Known fall risks as indicated on the Morse Fall Scale
 - Loss of balance, impaired gait or mobility, impaired cognition/confusion, impaired vision, history of falls, decreased mobility upon assessment

Action:

Determine preventability.

Types of Falls

Unanticipated physiological falls

May be caused by—

- Factors associated with unknown fall risks that cannot be predicted on a fall risk scale
 - Unexpected orthostasis, extreme hypoglycemia, stroke, heart attack, seizure
- Action:

This type of fall is not preventable.

Types of Falls To Focus On

- Report falls by type.
- Examine trends in preventable falls.
 - Example: Toileting-related falls
- Implement interventions related to the trend identified.
- Examine repeat falls.

Measuring Fall and Fall-Related Injury Rates

- What to count
- Measures used
- Data needed
- How often to calculate
- Improving data

What To Count for Fall and Fall-Related Injury Rates

- Total number of falls on your unit.
 Agree on a definition of "fall."
- Number of repeat falls on your unit.
- Level of injury for each fall.
- Number of occupied bed days on your unit over a given period of time.



Measures Used for Fall and Fall-Related Injury Rates

Suggested approach

- Total falls per 1,000 occupied bed days
- Injurious falls per 1,000 occupied bed days

There are many ways to measure fall and fallrelated injury rates. The most important thing is to be consistent.

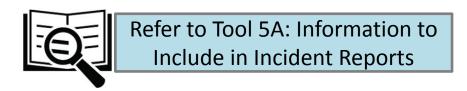


See Section 5.1.7 (page 77) of the Toolkit for a link to the National Database of Nursing Quality Indicators.

Data Needed for Fall and Fall-Related Injury Rates

For each fall, create an incident report that tells—

- Fact that the incident being reported is a fall
- Name of the patient who fell
- Where the patient fell
- When the patient fell
- Unit the patient was assigned to when he/she fell
- Circumstances of the fall (in detail)
- Injury level of the fall



Data Needed for Fall and Fall-Related Injury Rates

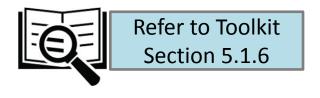
You'll also need to know the **number of occupied beds** on your unit **each day.**

This is easier if your hospital has a computerized system. If **not**:

- Choose a time of day.
- Each day at that time, check the number of occupied beds on your unit.
- Write down that number.

How Often To Calculate Fall and Fall-Related Injury Rates

Calculate fall and fall-related injury rates one time each month, if possible.



How To Calculate Fall and Fall-Related Injury Rates

Example: Fall rate for month of April

- 1. Using incident reports, figure out the **total number of falls** on your unit during April.
- 2. Figure out the **number of occupied beds** on your unit **per day** during April.
- 3. Add up the total number of occupied beds on your unit in April by adding up all the beds per day from Step 2. If your hospital can give you the total, you can skip Step 2.
- 4. Divide the total number of falls by the total number of occupied beds on your unit in April.
- 5. Multiply this number by 1,000.

How To Calculate Fall and Fall-Related Injury Rates

Example: Fall rate for your unit in month of April

Total number of falls = 3

Total number of occupied beds = 879.

Total number of falls divided by total number of occupied beds = $3 \div 879 = 0.0034$.

 $0.0034 \times 1,000 = 3.4.$

Fall rate = 3.4 falls per 1,000 occupied bed days

Improving Data for Fall and Fall-Related Injury Rates

- Review completed incident reports with staff each month.
- Discuss ways to improve, such as giving more details about fall circumstances.
- Examine trends in root causes.



Improving Data for Fall and Fall-Related Injury Rates

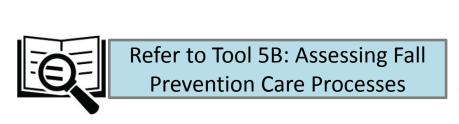
- Examine trends in fall rates such as—
 - Falls related to toileting needs
 - Falls related to risk factors (medicines, blood pressure, gait)
 - Falls related to the environment (poor lighting, uneven or slippery floors)



Measuring Fall Prevention Practices

Process measures

- Post-fall assessment (huddle)
- Intentional rounding
- Fall prevention and care planning





Clinical review—

- Collects data after a patient falls
- Seeks to find out if the patient has immediate risk of injuries or other complications
- May include new fall risk factor assessment with medicine review and lab tests

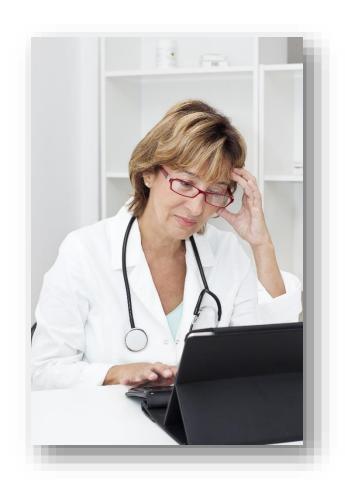


Clinical review may include—

- Checks for signs or symptoms of fracture or possible spine injury before moving patient
- Safe handling methods for patients with signs or symptoms of fracture or possible spine injury
- Regular neurologic checks for all patients with possible or confirmed head injury
- Medical exams
 - Sooner for patients who may have serious injury or who have been immobilized

Root cause analysis (RCA)—

- Helps you understand why a patient fell
- Helps you prevent future falls in this and other patients
- Captures data about a fall from the patient, staff, and other witnesses



Barriers include—

- Competing commitments
- Lack of witnesses
- Multiple causes of a fall
- Trouble assembling relevant team members

Strategies include—

- Having a standard protocol that is easily accessible to unit staff
- Making sure the data gathered with the assessment tool include those needed to file an incident report
- Having a nurse or pharmacist join rounds to discuss medicines that may have caused the fall

Ways to **document** include—

- Care plan
- Incident reporting system
- Risk factor profile

Ways to **communicate** include—

- Oral handoff
- Safety huddle



See Section 5.1.6 (page 76) of the Toolkit for an example of the post-fall huddle.

Data To Measure Fall Prevention

Data can come from—

Medical record reviews

 This approach may be incomplete, because it relies only on the written record.

Direct observations of care by trained observer

 This approach is the most time consuming, but it's also the most accurate.

Surveys of staff

This approach relies on memory, so it may be inaccurate.

Data To Measure Fall Prevention

- Start with a combination of medical record review and direct observation.
- Use a manageable sample, such as no more than 20 patients.



Fall Prevention and Care Planning

Remember:

- Assess fall and fall-related injury risk each time a new patient is admitted.
- Make sure the individualized care plan is tailored to the patient's fall risk factors.
- This targeted approach will reduce the incidence of falls at your hospital and improve the quality of patient care.

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- Measuring fall prevention practices



Any Questions?

Thank you for being such great listeners.

Please refer any questions you have to your QI Specialists.

Resources

- Ganz DA, Huang C, Saliba D, et al. Preventing falls in hospitals: a toolkit for improving quality of care. (Prepared by RAND Corporation, Boston University School of Public Health, and ECRI Institute under Contract No. HHSA290201000017I TO #1.) Rockville, MD: Agency for Healthcare Research and Quality; January 2013. AHRQ Publication No. 13-0015-EF.
 - Tool 3F: Orthostatic Vital Sign Measurement
 - Tool 3G: STRATIFY Scale for Identifying Fall Risk Factors
 - Tool 3H: Morse Fall Scale for Identifying Fall Risk Factors
 - Tool 3I: Medication Fall Risk Scale and Evaluation Tools
 - Tool 3J: Delirium Evaluation Bundle
 - Tool 3K: Algorithm for Mobilizing Patients
 - Tool 3L: Patient and Family Education
 - Tool 3M: Sample Care Plan
 - Tool 3N: Postfall Assessment, Clinical Review
 - Tool 30: Postfall Assessment for Root Cause Analysis
 - Tool 3P: Best Practices Checklist
 - Tool 5A: Information to Include in Incident Reports
 - Tool 5B: Assessing Fall Prevention Care Processes
 - Tool 5C: Measuring Progress Checklist
- Morse JM. Predicting patient falls. CA: Sage Publications; 1997.
- Morse JM. Preventing patient falls. 2nd ed. New York: Springer; 2009.