Fall with fractured neck of femur (NOF) length of stay

Te Tāhū Hauora
Health Quality & Safety Commission

Source: /measure/fall-fractured-neck-femur-nof-length-stay

Description
This measure shows the average length of time that a person with a fractured NOF spent in hospital after an out-of-hospital fall. This measure is calculated by dividing the total number of bed-days by the number of admissions. Improving the rehabilitation process inside hospital can reduce the time spent in a hospital bed.

Measure set
Falls and fractures
Improved recovery (hospital)

Notes about this measure set

Type of fall injury is based on the first event in the stay.

- Fractured NOF: ICD-10 code S720* to S722* in diagnosis codes 1–30
- Other fracture: ICD-10 code S*2*, T02* and T12* and excluding fractured neck of femur in diag 1-30
- Non-fracture: No fracture code recorded in diag 1-30

Calculating stays
Consecutive events that together make a stay are calculated with a similar methodology to the Manat? Hauora system-level measure Acute Hospital Bed Days.
Events are considered part of the same stay if:

- the NHI was the same
- the previous event had a transfer end type (DA, DF, DO, DP, DT, DW or ET)
- the end date of the previous event was before or within 1 day of the next event
- there was an external cause code of a fall (W00–W19) that occurred either on or before the event start date.

Sub-analysis is available using the following filters:

- Te Whatu Ora district
- ethnicity (M?ori, Pacific, Asian and Other [including unknown]).

This indicator differs from the falls indicator in the Te T?h? Hauora Atlas of Healthcare Variation, as it counts all acute/arranged hospital admissions (stays), rather than people with more than one fall only counted once.

Numerator
The number of falls hospital bed-days for people with fractured NOF.

Denominator
The number of falls hospital admissions (stays) for people with fractured NOF.

Denominator detail

Stays included in this measure are those that:
- started with an acute or arranged event (admission type codes AA, AC, ZA or ZC)
- started with an event with an external cause code of a fall (W00–W19) that occurred either on or before the event start date.
- started with an event with a diagnosis code of fractured NOF (ICD-10 code S720* to S722*).

ED short stays (treatment in ED for 3 hours or more) are also included.

Denominator exclusions

Stays excluded from this measure are those that:
- had an unknown health district, age or gender
- consisted of only non-case-mix events (EXCLU purchase unit); non-case-mix events are otherwise included as long as a case-mix event is within the stay
- start with a non-acute event code (ie, excluding falls that clearly occur in hospitals, like those measured in the Te T?h? Hauora quality and safety markers).

Additionally, total bed-days excludes:
- bed-days for residential care (health speciality code D10–19, D30-39, D50–59 or D70–79)
- leave days.

Data sources
National Minimum Dataset (NMDS)

Responsible organisation(s)
Health Quality & Safety Commission | Te T?h? Hauora