

Data Dictionary
Version 11

October 2018

### **Australian and New Zealand Hip Fracture Registry**

**Background:** A minimum data set (MDS) was created for the Australian and New Zealand (ANZ) Hip Fracture Registry Steering Group. The purpose of the minimum dataset and registry is to support consistent, local collection of data across Australia and New Zealand to enable facilities to compare practice and outcomes for hip fracture care against national clinical guidelines and standards of care. The MDS has been developed to capture information relevant to ANZ Hip Fracture Guidelines and national Hip Fracture Care Clinical Care Standards and is comparable to the United Kingdom (UK) national hip fracture registry and other registries emerging across the world.

**Purpose:** The ultimate goal of the ANZ Hip Fracture Registry is to use data to improve performance and maximise outcomes for older people who fracture their hip by reducing mortality and morbidity, reducing rates of institutionalisation, maximising functional independence and preventing future fractures by monitoring secondary prevention interventions.

MDS development: The MDS has been reviewed by the ANZ Hip Fracture Registry Steering Group, which consists of representatives of key professional and consumer bodies from Australia and New Zealand: Australian and New Zealand Society for Geriatric Medicine (ANZSGM); Australian Orthopaedic Association (AOA); Australian and New Zealand College of Anaesthetists (ANZCA); Australasian College of Emergency Medicine (ACEM); New Zealand Orthopaedic Association (NZOA); Royal Australasian College of Surgeons (RACS); Royal Australasian College of Physicians (RACP); Australian and New Zealand Orthopaedic Nurses Association (ANZONA); Australasian Faculty of Rehabilitation Medicine (AFRM); Australian Physiotherapy Association (APA); Osteoporosis Australia (OA); and Osteoporosis New Zealand (ONZ). This version of the ANZHFR Data Dictionary includes data variables for both the Patient Level Audit (the Registry) and the Facility Level Audit (annual snapshot of hospital level processes and protocols).

The data variables collected in the MDS (Patient Level) are from six (6) key components of care and include: (1) Patient information; (2) Admission; (3) Assessment; (4) Treatment; (5) Discharge; and (7) 120 day follow-up. The data variables collected in the MDS (Facility Level) cover: (1) Hospital Information; (2) Model of Care; (3) Protocols and processes; (4) Beyond the acute hospital stay; (5) Other aspects of care.

## Core and non-core data items

Core variables are those variables collected by all using the minimum dataset e.g. date and time of admission, or type of hip fracture, and will be uploaded to the ANZ Hip Fracture Registry (ANZHFR). A number of these items will be considered mandatory for the purposes of forming a meaningful registry. Non-core items are collected at a local level and are held either locally or on the central server, or are generated automatically at a central level using data uploaded.

**Review:** The MDS will be reviewed annually by the ANZHFR Steering Group. It is anticipated that any new item to be added must be presented with a clear case for the benefits of adding it. Equally the Committee will be charged with removing redundant items which are felt not to add value either at a facility or central level.

**Patient Eligibility:** A person aged 50 years and older, who has been admitted to a participating hospital with an acutely fractured hip from a minimal or low trauma injury, and who undergoes either surgical or non-surgical management of the hip fracture.

# **Version history:**

| Version | Description of Change                                    | Author                   | Date Changed   | Status         |
|---------|--|--------------------------|----------------|----------------|
| 1.0     | Draft  | Rebecca Mitchell         | July 2012      | Rough          |
|         |  |                          |                | draft          |
| 2.0     | Draft  | Rebecca Mitchell         | 6 Dec 2012     | Draft          |
| 3.0     | Draft  | Rebecca Mitchell         | 8 Jan 2013     | Draft          |
| 4.0     | Draft  | Rebecca Mitchell         | 3 May 2013     | Draft          |
| 5.0     | Draft  | Rebecca Mitchell         | 31 May 2013    | Draft          |
| 6.0     | Penultimate  | Rebecca Mitchell         | 21 June 2013   | Draft          |
| 7.0     | Final  | Rebecca Mitchell         | 5 July 2013    | Final          |
| 8.0     | Revised to ensure data capture                           | Jacqui Close             | 4 Dec 2013     | Final          |
|         | consistent with Guideline                                |                          |                |                |
|         | recommendations  |                          |                |                |
| 8.1     | Revised to ensure data capture                           | Jacqui Close             | 11 Dec 2013    | Final          |
|         | consistent with Guideline                                |                          |                |                |
|         | recommendations and the                                  |                          |                |                |
|         | requirement to capture identifying                       |                          |                |                |
|         | data for follow up and data linkage                      |                          |                | _              |
| 9.0     | Review by the Steering Group against                     | Elizabeth                | August 2016    | Draft          |
|         | the 2014 ANZ Guidelines for Hip                          | Armstrong                |                |                |
|         | Fracture Care and the 2016 ACSQHC                        |                          |                |                |
|         | Hip Fracture Care Clinical Care                          |                          |                |                |
|         | Standard and Indicators; incorporation                   |                          |                |                |
|         | of definitions for the Facility Level                    |                          |                |                |
| 0.1     | Audit variables  |                          | Contombou 2016 | Final          |
| 9.1     | Revision with Steering Group and Data Committee feedback | Elizabeth                | September 2016 | Final<br>Draft |
| 10.0    | Review by the Steering Group to                          | Armstrong Steering Group | August 2017    | Draft          |
| 10.0    | incorporate feedback from                                | Steering Group           | August 2017    | Diait          |
|         | participating sites and ensure data                      |                          |                |                |
|         | dictionary continues to be fit for                       |                          |                |                |
|         | purpose  |                          |                |                |
| 10.1    | Revision with Data Committee                             | Data Committee           | October 2017   | Draft          |
| 10.1    | feedback   | Data committee           | 0000001 2017   | Diane          |
| 10.2    | Revision with Data Committee                             | Data Committee           | October 2017   | Final          |
|         | feedback   |                          | 300000. 2027   | Draft          |
| 11      | Annual Steering Group review to                          | Data Committee           | October 2018   | Final          |
| _       | ensure data dictionary continues to be                   |                          |                |                |
|         | fit for purpose  |                          |                |                |

# List of Data Variables

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#### **ANZHFR Patient Level Audit**

#### Section 1 Patient information

Variable Number 1.01

Variable Unique identifier

Variable Name ID

**Definition** A consecutive number allocated to each record of a hip fracture

**Justification** To allow for the identification of records

Format 10 digit numeric

Status Non-core (created centrally)

Coding Source Coding Frame

**DD Comments** This is the unique record number used to identify each record

Variable Number 1.02

Variable Australian and New Zealand jurisdiction

Variable Name Area

**Definition** The Australian or New Zealand jurisdiction of the hospital

**Justification** To enable the identification of hospitals in Australian and New Zealand

jurisdictions

Format 2 digit numeric

Status Non-core (created centrally)

Coding Source Adapted from the National Health Data Dictionary, Version 15 (METeOR

identifier 269941)

**Coding Frame** 1 New South Wales

2 Victoria3 Queensland4 South Australia5 Western Australia

6 Tasmania

7 Northern Territory

8 Australian Capital Territory

9 Other Territories (Cocos Keeling Islands, Christmas Island and Jervis Bay

Territory)

10 New Zealand

**DD Comments** The order used here is the standard for the Australian Bureau of Statistics

(ABS).

Variable First name of patient

Variable Name Name

**Definition** First name of the patient

**Justification** To allow for checking of duplicate entries for the one person and to contact

the patient for the 120 day follow-up

Format Character Status Core

**Coding Source**To allow for checking of duplicate entries for the one person as well as the

ability to follow up patient including future data linkage

**Coding Frame** Character string

**DD Comments** The format should be the same as that indicated by the person (for example

written on a form) or in the same format as that printed on an identification card, such as Medicare card, to ensure consistent collection of name data

Variable Number 1.04

Variable Surname of patient

Variable Name Surname

**Definition** Surname of the patient

**Justification** To allow for checking of duplicate entries for the one person as well as the

ability to follow up patient including future data linkage

Format Character Status Core

Coding Source Coding Frame

**DD Comments** The format should be the same as that indicated by the person (for example

written on a form) or in the same format as that printed on an identification card, such as Medicare card, to ensure consistent collection of name data

Variable Number 1.05

Variable Hospital MRN / URN / event number

Variable Name MRN

**Definition** Hospital Medical Record Number

**Justification** Unique person-identifier for each patient in each hospital and contributes to

collection of information on follow up e.g. re-operation

Format String XXXXXX[X(14)]

**Status** Core

Coding Source Coding Frame

**DD Comments** Key field: must be entered to create a patient record. Individual hospitals

use their own alphabetic, numeric, or alphanumeric coding systems. With the eventual move to E-Health in Australia, each patient will have a unique id nation-wide. Note: Western Australia uses URN. New Zealand to record

the hospital event number.

Variable Contact telephone number for patient

Variable Name phone

**Definition**Contact telephone number of the patient **Justification**To contact the patient for the 120 day follow-up

Format 10 digit numeric

**Status** Core

Coding Source Coding Frame

**DD Comments** Only record one telephone number. This should be the best land line

telephone or mobile phone number to contact the patient for the 120 day follow-up. Record the prefix plus telephone number without punctuation,

for example, 08 8226 6000 or 0417 123456.

Variable Number 1.07

Variable Date of birth

Variable Name DOB

**Definition** Date of birth of the patient

**Justification** Basic demographic details. Required for probabilistic data linkage

Format 8 digit, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15 (METeOR identifier 287007)

Coding Frame DD/MM/YYYY

**DD Comments** Key field Australia: must be entered to create a patient record. Only include

people who are 50 years and older at the time of their hip fracture

admission. Date not known is recorded as: 99999999.

Variable Number 1.08

Variable Age derived

Variable Name Age

**Definition** Age of the patient in (completed) years at admission

**Justification** Basic demographic details

Format 3 digit, N[NN]

Status Non-core (created centrally)

Coding Source National Health Data Dictionary, Version 15 (METeOR identifier 303794)

**Coding Frame** 999 Unknown/Not stated

**DD Comments** If age (or date of birth) is unknown or not stated, and cannot be estimated,

use Code 999. Age to be calculated automatically from Date of Birth and ED/hospital arrival date (operating hospital) or ED/hospital arrival date (transfer hospital) for patients transferred to an operating hospital

Variable Sex of person

Variable Name Sex

**Definition** Sex of the patient

**Justification** Basic demographic details

Format 1 digit numeric

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame 1 Male

2 Female

3 Intersex or indeterminate

9 Not stated / inadequately described

**DD Comments** Key field: must be entered to create a patient record.

Variable Number 1.10

Variable Australian Indigenous status

Variable Name Indig

**Definition** Was the patient of Aboriginal or Torres Strait Islander origin?

**Justification** Basic demographic details

**Format** 1 digit numeric, N

**Status** Core

Coding Source National Health Data Dictionary, Version 15 (METeOR identifier 291036)

**Coding Frame** 1 Aboriginal but not Torres Strait Islander origin

2 Torres Strait Islander but not Aboriginal origin3 Both Aboriginal and Torres Strait Islander origin4 Neither Aboriginal or Torres Strait Islander origin

9 Not stated / inadequately described

**DD Comments** An Aboriginal or Torres Strait Islander is a person of Aboriginal or Torres

Strait Islander descent who identifies as an Aboriginal or Torres Strait Islander and is accepted as such by the community in which he or she lives.

Collected Australia only

Variable NZ ethnic status

Variable Name ethnic

**Definition** Was the patient of Māori or Pacific Peoples origin?

**Justification** Basic demographic details

Format 1 digit numeric

**Status** Core

**Coding Source** Statistical Standard for Ethnicity, 2005

Coding Frame 1 European

2 Māori

3 Pacific Peoples

4 Asian

5 Middle Eastern / Latin America / African

6 Other Ethnicity

9 Not elsewhere included

**DD Comments** There is no classification for people who might identify as more than one

ethnicity in New Zealand. Statistics NZ has an algorithm that is used to determine primary ethic status. The double identification is handled by inviting individuals to record up to 3 ethnicities that they identify with. The algorithm is then used to identify a primary ethnicity. The ethnicity that is derived in the NZ hospital system should be used here as this ethnicity will

be the primary ethnicity. Collected New Zealand only.

Variable Number 1.12

Variable Patient's postcode

Variable Name Apcode

**Definition** What was the postcode of the suburb of the usual residence of the patient?

JustificationBasic demographic detailsFormat4 digit numeric, {NNNN}

**Status** Core

**Coding Source** Australia Post or New Zealand Post websites (www.auspost.com.au or

www.nzpost.co.nz) provide up-to-date postcodes and localities

**Coding Frame** 1000 No fixed abode

9998 Overseas

9999 Postcode not known

**DD Comments** Use a valid Australian or New Zealand postcode

Variable Medicare number (Australia) / National Health Index (New Zealand)

Variable Name Medicare

**Definition** Patient's Medicare number

**Justification** To allow for checking of duplicate entries for the one person and for

multiple admissions

Format Characters, N(11)

**Status** Core

Coding Source Coding Frame

**DD Comments** Enter the full Medicare number for an individual (i.e. family number

plus person individual reference number).

Key field New Zealand: must be entered to create a patient record. New Zealand will provide the National Health Index (NHI) which is a unique number assigned to every person who uses health and disability services in New Zealand. New Zealand will use this variable as the main mechanism to

identify each patient.

Variable Patient type

Variable Name ptype

**Definition** Payment status

**Justification** To identify the source of revenue received by a health industry relevant

organisation

Format 3 digit numeric

**Status** Core

Coding Source Adapted from the National Health Data Dictionary, Version 15

Coding Frame 1 Public

2 Private3 Overseas9 Not known

**DD Comments** For New Zealand all surgery for hip fractures takes place in the public sector.

There will be the occasional patient from overseas and this should be noted

accordingly.

In Australia, private sector patients include those with treatment funded by: private health insurance, workers' compensation insurance, motor vehicle third party insurance, other compensation (e.g. Public liability, common law, medical negligence), private households (i.e. self-funded and out-of-pocket expenditure), non-profit institutions serving households, corporations (other than health insurance), other private sector revenue

In Australia, public sector patients include those with treatment funded by: Medicare, Pharmaceutical Benefits Scheme and Repatriation Pharmaceutical Benefits Scheme, Department of Veterans' Affairs, National Health and Medical Research Council, Australian Health Care Agreements, other Special

Purpose payments, Other Australian Government Departments,

State/Territory non-health departments, or other public sector revenue

Variable Usual place of residence

Variable Name uresidence

**Definition** What is the usual place of residence of the patient?

**Justification** Type of accommodation before and after admission are collected to

compare where the patient has come from (what was their usual

accommodation) and where they are going to (what will become their usual

accommodation). This is an indicator of patient outcome.

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the Australasian Rehabilitation Outcomes Centre Inpatient

Dataset, Version 3.0; NSW SNAP Data Collection, Version 4.0

**Coding Frame** 1 Private residence (including unit in retirement village)

2 Residential aged care facility

3 Other 4 Not known

**DD Comments** Record the patient's usual accommodation type at admission.

Residential aged care refers to a supported facility that provides

accommodation and care for a person on a long-term basis. This may include multi-purpose services in Australia and private hospitals or rest homes in

New Zealand.

If the patient lives with a relative or in a community group home or boarding

house code 'private residence'.

If the patient was admitted from respite care, record their usual place of

residence when not in respite care.

Variable Statistical linkage key 581

Variable Name slk581

**Definition** A specific code (key) that can be used to bring together two or more records

belonging to the same individual. It is represented by a code consisting of characters from the person's surname, first name, date of birth and gender.

**Justification** Brings together data from different sources to enable greater understanding

of the utilisation of health care and/or services. Clinical quality registries should have the capacity to enhance their value through the use of linkage to other datasets (Australian Commission on Safety and Quality in Health

Care Framework for Australian Clinical Quality Registries 2014)

Format 14 Characters XXXXXDDMMYYYYN

Status Core (created centrally)

Coding Source Coding Frame DD Comments National Health Data Dictionary, Version 16 (METeOR identifier 349895)

It is represented by a code consisting of the second, third and fifth characters of a person's family name, the second and third letters of the person's given name, the day, month and year when the person was born

and the sex of the person, concatenated in that order.

In Australia, the linkage key is designed to make it possible to count number of clients and services they received, without counting the same client more than once. It can also be used for linking to other related data collections.

This may be useful for New Zealand, although the NHI is usually the best and only identifier used for data matching in New Zealand.

## Section 2 Admission

Variable Number 2.01

Variable Establishment identifier of operating hospital

Variable Name Ahoscode

**Definition** Name of the operating hospital where the patient received surgery for the

hip fracture

**Justification** To allow for the identification of the establishment for benchmarking and

comparison purposes

Format Character Status Core

Coding Source Coding Frame

**DD Comments** Note: For data analysis each hospital will have to be given a unique number

Variable Number 2.02

Variable Admission via ED of operating hospital

Variable Name EDadmit

**Definition** Did the patient present directly to the ED of the operating hospital?

**Justification** Ability to monitor the time spent in ED.

Format 1 digit Status Core

**Coding Source** 

Coding Frame 1 Yes

2 No transferred from another hospital

3 No was an inpatient fall9 Other / Not known

**DD Comments** If the patient was admitted via the ED of the operating hospital, information

on the date and time that the patient arrived and left the ED of the

operating hospital will be recorded.

Variable Transfer hospital

Variable Name Athoscode

**Definition** Name of the hospital where the patient first presented and was diagnosed

with a hip fracture

**Justification** To allow for the identification of the establishment for benchmarking and

comparison purposes

Format Character Status Core

**Coding Source** 

**Coding Frame** Not transferred

If transferred enter hospital name of first transfer hospital

**DD Comments** If the patient has not been transferred, this will need to be indicated by

recording 'not transferred'. Note: For data analysis, each hospital will be

given a unique number.

If patient is not transferred, data variables 2.04 and 2.05 regarding transfer

date/time should be automatically filled in as 'not relevant'

Variable Number 2.04

Variable ED / hospital arrival date (transfer hospital)

Variable Name tarrdate

**Definition** Date on which the patient presented to the transferring hospital with a hip

fracture

**Justification** To enable the identification of the date of arrival in transferring hospital.

Will allow for quantification of true time to surgery and overall LOS

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** If the patient is transferred several times, this should be the hospital where

the patient first presented with the hip fracture.

If the presenting hospital has no ED or the patient wasn't admitted through ED, state the date presenting to the transferring hospital with a hip fracture. If the hip fracture occurred as an in-patient, record the date the fracture was

diagnosed.

Note: 00000000 indicates that the patient did not present through the ED and 9999998 indicates that patient was not transferred (i.e. not relevant) and 99999999 indicates that the date was not known. To be used in the calculation of time to surgery and total LOS in the health system for the care

episode.

Variable ED arrival time (transfer hospital)

Variable Name tarrtime

**Definition** Time at which the patient arrived in the ED of the transferring hospital

**Justification** To enable the identification of the time of arrival in the ED

Format 4 digit Status Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame hh:mm

**DD Comments** Time is recorded using the 24 hour clock.

If the patient is transferred several times, this should be the hospital where the patient first presented with a hip fracture.

If the presenting hospital has no ED or the patient wasn't admitted through ED, state the time presenting to the transferring hospital with a hip fracture.

If the hip fracture occurred as an in-patient, record the time the fracture was diagnosed.

Note: 0000 indicates that the patient did not present through the ED, 9998 indicates that patient was not transferred (i.e. not relevant), and 9999 indicates that time was not known. To be used in the calculation of total LOS

in the health system for the care episode.

Variable Number 2.06

Variable ED / other ward arrival date (operating hospital)

Variable Name arrdate

**Definition** Date on which the patient arrived in the ED / other ward of the operating

hospital

**Justification** To enable calculation of age at presentation, time spent in ED, time to

surgery and LOS

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** If the patient was not admitted through the ED but was transferred from

another hospital and admitted directly to a ward of the operating hospital,

state the date admitted to the ward of the operating hospital.

If the patient was admitted via the ED of the operating hospital, information on the date and time that the patient left the ED of the operating hospital will be recorded. The Australian National Emergency Access Target (NEAT) aims that by 2015, 90% of patients will leave the ED within 4 hours — either by discharge, being admitted to hospital or through transfer to another hospital for treatment (http://www.ecinsw.com.au/node/128). For New Zealand patients are expected to be discharged or admitted to hospital

within 6 hours.

Variable ED / other ward arrival time (operating hospital)

Variable Name arrtime

**Definition** Time at which the patient arrived at the ED / other ward of the operating

hospital

**Justification** To enable calculation of time spent in ED, time to surgery and LOS

Format 5 digit Status Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame hh:mm

**DD Comments** Time is recorded using the 24 hour clock.

If the patient was not admitted through the ED but was transferred from another hospital and admitted directly to a ward of the operating hospital,

state the time admitted to the ward of the operating hospital.

Note: 9999= time not known. If the patient was admitted via the ED of the operating hospital, information on the date and time that the patient left

the ED of the operating hospital will be recorded

Variable Number 2.08

Variable ED departure date (operating hospital)

Variable Name depdate

**Definition** Date on which the patient departed from the ED of the operating hospital

**Justification** To enable calculation of time spent in ED, time to surgery and LOS

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** Note: 99999999 indicates that the patient did not present through the ED. If

the patient was admitted via the ED of the operating hospital, information on the date and time that the patient left the ED of the operating hospital

will be recorded

Variable ED departure time (operating hospital)

Variable Name deptime

**Definition** Time at which the patient departed from the ED of the operating hospital

**Justification** To enable calculation of time spent in ED, time to surgery and LOS

Format 4 digit Status Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame hh:mm

**DD Comments** Time is recorded using the 24 hour clock.

Note: 9999= time not known. If the patient was admitted via the ED of the operating hospital, information on the date and time that the patient left

the ED of the operating hospital will be recorded.

Variable Number 2.10

Variable In-patient fracture date

Variable Name admdateop

**Definition** Date on which the admitted patient commences the episode of care at the

operating hospital with radiological-confirmed diagnosis of hip fracture

**Justification** To enable the identification of the date of hip fracture occurring as an in-

patient and calculation of time to surgery and LOS

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** Note: 99999999 = date not known

Fractures sustained while on leave from an existing hospital admission are not classified as inpatient fractures. They are recorded as a new event and

date and time of presentation are recorded at 2.06 and 2.07.

Variable Number 2.11

Variable In-patient fracture time

Variable Name admtimeop

**Definition** 24-hour time at which the admitted patient commences the episode of care

at the operating hospital with radiological-confirmed diagnosis of hip

fracture

**Justification** To enable the identification of the time of hip fracture occurring as an in-

patient and calculation of time to surgery and LOS

Format 4 digit Status Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame hh:mm

**DD Comments** Time is recorded using the 24 hour clock. Note: 9999 = time not known

Variable Pain assessment

Variable Name painassess

**Definition** Did the patient have a documented assessment of pain within 30 minutes of

presentation to the emergency department

**Justification** Acute pain associated with the hip fracture can have adverse effects on

outcome. Hip Fracture Care Clinical Care Standard Indicator 2b.

Format 1 digit Status Core

**Coding Source** 

Coding Frame 1 Documented assessment of pain within 30 minutes of ED presentation

2 Documented assessment of pain greater than 30 minutes of ED

presentation

3 Pain assessment not documented or not done

9 Not known

**DD Comments** A pain assessment is any qualitative or quantitative assessment of pain

recorded in the notes.

A standardised pain assessment system should be used that specifically addresses the needs of patients with cognitive impairment and those unable to communicate pain. Time to pain assessment in the ED to be identified from clinical notes. Time is calculated from date and time of presentation to

the emergency department of the first hospital.

Variable Number 2.13

Variable Pain management

Variable Name painmanage

**Definition** Did the patient receive appropriate analgesia within 30 minutes of

presentation to the emergency department?

**Justification** Acute pain associated with the hip fracture can have adverse effects on

outcome. Hip Fracture Care Clinical Care Standard Indicator 2b.

Format 1 digit Status Core

**Coding Source** 

**Coding Frame** 1 Analgesia given within 30 minutes of ED presentation

2 Analgesia given more than 30 minutes after ED presentation

3 Analgesia provided by paramedics

4 Analgesia not required

9 Not known

**DD Comments** Time to analgesia in the ED to be identified from clinical notes. Time is

calculated from date and time of presentation to the emergency

department of the first hospital.

Variable Ward type

Variable Name ward

**Definition** What type of ward was the patient admitted to from ED?

**Justification** To enable the identification of the ward where the patient commenced their

episode of care

Format 1 digit Status Core

**Coding Source** 

**Coding Frame** 1 Hip fracture unit/Orthopaedic ward/ Preferred ward

2 Outlying ward 3 HDU / ICU / CCU 9 Other / Not known

**DD Comments** HDU refers to High Dependency Unit. ICU refers to Intensive Care Unit. CCU

refers to Coronary Care Unit.

An outlying ward refers to a ward not clinically appropriate to meet the

patient's current needs.

### Section 3 Assessment

Variable Number 3.01

Variable Pre-admission walking ability

Variable Name walk

**Definition** What was the patient's walking ability pre-admission?

**Justification** To enable the identification of the mobility status pre-admission

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 1 Usually walks without walking aids

2 Usually walks with either a stick or crutch

3 Usually walks with two aids or frame (with or without assistance of a

person)

4 Usually uses a wheelchair / bed bound

9 Not known

**DD Comments** If a person has different levels of mobility on different surfaces then record

the level of most assistance. For example, inside their residence a person usually walks without a walking aid but when outside the residence the person usually walks with a frame, then the level of mobility recorded is

option 3.

Variable Number 3.02

Variable Pre-operative cognitive assessment

Variable Name cogassess

**Definition** Following admission to hospital, cognitive status is assessed prior to surgery

using a validated tool and recorded in the medical record

**Justification** Hip fracture patients are at high risk of having an existing cognitive impairment

or developing delirium. Cognitive impairment and delirium in these patients is

associated with increased morbidity and mortality, and a decrease in

rehabilitation potential and return to pre-fracture functioning.

Care at Presentation Hip Fracture Care Clinical Care Standard Indicator 1b.

Format 1 digit Status Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 1 Cognition assessed and normal

2 Cognition not assessed

3 Cognition assessed and impaired

9 Not known

**DD Comments** Cognitive assessment requires the use of a validated tool. Some validated tools for assessing cognitive function include:

for assessing cognitive function include:

Abbreviated Mental Test Score (AMTS) (Hodkinson 1972)

 Standardised Mini-Mental State Examination (SMMSE) (Molloy & Standish 1997)

Modified Mini Mental State Exam (3MS) (Teng & Chui 1987)

 General Practitioner's Assessment of Cognition (GPCOG) (Brodaty et al. 2002)

• The 4AT (Bellelli et al. 2014)

 Other tools, such as the Rowland Universal Dementia Assessment Scale (RUDAS) (Storey et al. 2004) and the Kimberly Indigenous Cognitive Assessment (KICA) (LoGiudice et al. 2006), may be more appropriate for some people from culturally and linguistically diverse groups

Variable Number

3.05

Variable

**Pre-admission cognitive status** 

**Variable Name** 

cogstat

Definition

What was the cognitive status of the patient prior to admission?

Justification

To enable the identification of the cognitive status of the patient prior to

admission.

**Format** 

1 digit numeric

Status

Core

**Coding Source Coding Frame** 

1 Normal cognition

2 Impaired cognition or known dementia

9 Not known

**DD Comments** 

Normal cognition refers to 'no history of cognitive impairment or dementia'. Impaired cognition or known dementia refers to a 'loss of cognitive ability and/or a decline in memory or other thinking skills severe enough to reduce a person's ability to perform everyday activities' (Alzheimer's Association).

**Variable Number** 

3.06

Variable

Bone protection medication at admission

Variable Name

bonemed

**Definition** 

Was the patient taking bone protection medication prior to sustaining the

hip fracture?

Justification

Ability to monitor use of bone protection medication prior to hip fracture

**Format** 

1 digit numeric

Status

Core

**Coding Source** 

Adapted from the UK National Hip Fracture Database

**Coding Frame** 

0 No bone protection medication1 Yes - Calcium and/or vitamin D only

2 Yes - Bisphosphonates, strontium, denosumab or teriparitide (with or

without calcium and/or vitamin D)

9 Not known

**DD Comments** 

Calcium or vitamin D includes Calcitriol, calcium and vitamin D or Alpha-

calcidol (or one alpha).

Bisphosphonates includes: Etidronate, Alendronate, Risedronate,

Ibandronate, Zoledronate, Pamidronate.

Variable Pre-operative medical assessment

Variable Name passess

**Definition** Who conducted the pre-operative medical assessment apart from

anaesthetic and orthopaedic review?

**Justification** To determine level of pre-operative medical assessment. Hip Fracture Care

Clinical Care Standard Indicator 3a.

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 No assessment conducted

1 Geriatrician / Geriatric Team2 Physician / Physician Team

3 GP

4 Specialist nurse 9 Not known

**DD Comments** The pre-operative assessment is conducted in addition to an anaesthetic

review and orthopaedic assessment. If the pre-operative assessment is conducted by a number of assessment team members, select the highest numerical option in the coding frame drop down list eg. the highest

numerical option to select is '1' geriatrician.

Variable Number 3.08

Variable Side of hip fracture

Variable Name side

**Definition** What was the side of the patient's hip fracture?

**Justification** To enable the identification of the side of the hip fracture

Format 1 digit numeric

**Status** Core

**Coding Source** 

Coding Frame 1 Left

2 Right

**DD Comments** Key field: must be entered to create a patient record.

If the patient has bilateral hip fractures, a separate record should be created

for each fracture.

Variable Atypical fracture

Variable Name afracture

**Definition** Was the type of the patient's hip fracture either pathological or atypical? **Justification** To enable the identification of fractures which are not consistent with the

nature of the injury

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 Not a pathological or atypical fracture

1 Pathological fracture2 Atypical fracture

**DD Comments** A pathological fracture is considered to be a fracture that has occurred when

a bone breaks in an area that has been weakened by another disease process (except osteoporosis), such as a tumour, infection or an inherited

bone disorder.

An atypical fracture is one where the radiologically observed fracture pattern is not consistent with the mechanism of injury described and is not

thought to be attributable to a discrete underlying disease process

Variable Number 3.10

Variable Type of fracture

Variable Name ftype

**Definition** What was the type of the patient's hip fracture? **Justification** To enable the identification of the type of hip fracture

Format 1 digit numeric

**Status** Core

Coding SourceAdapted from the UK National Hip Fracture DatabaseCoding Frame1 Intracapsular undisplaced/impacted displaced

2 Intracapsular displaced3 Per/intertrochanteric4 Subtrochanteric

**DD Comments**Basal/basicervical fractures are to the classified as per/intertrochanteric

Variable Surgical repair

Variable Name surg

**Definition** Did the patient undergo surgical repair of the hip fracture?

**Justification** To enable quantification of percentage patients undergoing surgery

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

Coding Frame 1 No

2 Yes

**DD Comments** 

Variable Number 3.12

Variable ASA grade

Variable Name asa

**Definition** What is the ASA grade for the patient?

**Justification** A marker of disease severity and operative risk and used for case-mix

adjustment

Format 1 digit numeric

**Status** Core

**Coding Source** American Society of Anaesthesiologists

**Coding Frame** 1 Healthy individual with no systemic disease

2 Mild systemic disease not limiting activity

3 Severe systemic disease that limits activity but is not incapacitating 4 Incapacitating systemic disease which is constantly life threatening 5 Moribund not expected to survive 24 hours with or without surgery

9 Not known

**DD Comments** ASA grade is used in case-mix adjustment for outcome at 30 and 120 days

post-surgery

#### Section 4 Treatment

Variable Number 4.01

Variable Date of surgery for hip fracture

Variable Name sdate

**Definition** Date on which the surgery for the hip fracture takes place

**Justification** To enable the identification of the date of primary surgery. Hip Fracture Care

Clinical Care Standard Indicator 4a.

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** If there was no surgery, enter 00000000. Date not known is classified as:

9999999

Variable Number 4.02

Variable Time of surgery for hip fracture

Variable Name stime

**Definition** 24-hour time at which the surgery for the hip fracture commences. This

time is taken from the start of the anaesthetic process.

**Justification** To enable the identification of the start time of the primary surgery. Hip

Fracture Care Clinical Care Standard Indicator 4a.

Format 4 digit Status Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame hh:mm

**DD Comments** Time is recorded using the 24 hour clock

The time of surgery for the hip fracture is taken from the start of the

anaesthetic process. Unknown time is classified as: 9999.

Variable Surgery delay

delay

Variable Name

**Definition** What was the primary reason for the delay if the delay was greater than 48

hours from the time of arrival in the emergency department of the first hospital, or diagnosis of a fracture if the fracture occurred as an in-patient?

**Justification** Ability to monitor time to surgery as a standard of care

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 1 No delay, surgery completed <48 hours

2 Delay due to patient deemed medically unfit3 Delay due to issues with anticoagulation

4 Delay due to theatre availability 5 Delay due to surgeon availability

6 Delay due to delayed diagnosis of hip fracture

7 Other type of delay

9 Not known

**DD Comments** Delay is calculated from the time of presentation in the emergency

department of the first hospital.

A person is considered medically unfit if he/she have acute health-related issues which need to be stabilised/optimised or reversed prior to proceeding

with anaesthesia and a surgical procedure.

If there is more than one delay to surgery, choose the reason for the first

delay.

Variable Number 4.04

Variable Surgery delay other text

Variable Name delay\_txt

**Definition** What was the reason for the other delay, if the delay was greater than 48

hours from the time of arrival in the emergency department?

**Justification** Ability to monitor time to surgery as a standard of care

Format Character Status Core

Coding Source Coding Frame DD Comments

Variable Type of anaesthesia

Variable Name anaesth

**Definition** What type of anaesthesia for the hip fracture surgery?

**Justification** Ability to monitor variation, post-operative complications and patient choice

Format 2 digit numeric

**Status** Core

**Coding Source** 

Coding Frame 1 General anaesthesia

2

5 Spinal / regional anaesthesia

6 General and spinal/regional anaesthesia

97 Other 99 Not known

**DD Comments** CSE=Combined Spinal/Epidural. Recorded in anaesthetic chart

Variable Number 4.06

Variable Analgesia - nerve block

Variable Name analges

**Definition** Did the patient have a nerve block?

**Justification** Monitoring against Guideline recommendation

Format 2 digit numeric

**Status** Core

**Coding Source** 

**Coding Frame** 1 Nerve block administered before arriving in OT

2 Nerve block administered in OT

3 Both 4 Neither

99 Not known

**DD Comments** 

Variable Consultant surgeon present

Variable Name consult

**Definition** Was the consultant surgeon operating or assisting with the operation? **Justification** Ability to monitor the impact of consultant surgeon presence on the quality

and safety of patient outcome

Format 1 digit numeric

Status Core

**Coding Source** 

**Coding Frame** 0 No

1 Yes

9 Not known

**DD Comments** Identified by checking if the consultant surgeon is recorded on the operation

sheet

Variable Number 4.08

Variable Type of operation performed

Variable Name optype

**Definition** What type of operation was performed for the hip fracture?

**Justification** To enable the identification of the patient's type of hip fracture operation

Format 2 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 1 Cannulated screws (e.g. multiple screws)

2 Sliding hip screw

3 Intramedullary nail short 4 Intramedullary nail long

5 Hemiarthroplasty stem cemented6 Hemiarthroplasty stem uncemented7 Total hip replacement stem cemented8 Total hip replacement stem uncemented

97 Other 99 Not known

**DD Comments** Intramedullary nail includes: Proximal femoral nail, Antegrade femoral nail,

Proximal femoral nail antirotation (PFNA), and Gamma nail.

For cemented versus uncemented procedures, this only includes whether the stem was cemented or not. This does not include whether or not the

cup was cemented.

Austin Moore prosthesis to be included in hemiarthroplasty – uncemented.

Sliding hip screws include dynamic hip screws (DHS)

Variable Full weight bear

Variable Name wbear

**Definition** What is the patient's immediate post-operative weight bearing status? **Justification** Ability to monitor variation in practice. Hip Fracture Care Clinical Care

Standard Indicator 5b.

Format 1 digit numeric

**Status** Core

**Coding Source** 

**Coding Frame** 0 Unrestricted weight bearing

1 Restricted / non weight bearing

9 Not known

**DD Comments** Unrestricted weight bearing refers to a patient who is able to mobilise with

full use of the affected limb to weight bear as pain allows.

Restricted weight bearing refers to a patient where there is a specific instruction that prevents the patient being allowed to fully utilise the leg irrespective of degree of pain. Restricted weight bearing includes terms such

as partial weight bear, touch-weight bear and non-weight bear

Variable First day mobilisation

Variable Name mol

**Definition** Was the patient with a hip fracture provided with the opportunity to be

mobilised on day one post hip fracture surgery?

**Justification** Hip Fracture Care Clinical Care Standard Indicator 5a. Low mobility during

hospitalisation is associated with death, and declining function in activities of daily living at discharge and at one month follow-up, which induces a risk

of staying dependent in these activities (Pedersen et al. 2013).

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 Patient given opportunity to start mobilising day 1 post surgery

1 Patient not given opportunity to start mobilising day 1 post surgery

9 Not known

**DD Comments** Day 1 post-surgery means the next calendar day following the day of the

patient's primary surgery for hip fracture.

Mobilised means the patient was sat out of bed and given the opportunity to start mobilising on day 1 post hip fracture surgery. Mobility may include

getting in/out of bed, standing up from a chair, and/or walking.

Patients who have been given the opportunity to mobilise but are determined by the clinical team to be too unwell to mobilise are included provided both the opportunity to mobilise and the clinical determination are

documented in the medical record.

Patients that have declined to mobilise are included provided both the opportunity to mobilise and the reason for declining are documented in the

medical record.

Variable New pressure injuries of the skin

Variable Name Pulcers

**Definition** Did the patient acquire a new pressure injury (Stage II or above) during their

stay in hospital for the treatment of their hip fracture?

**Justification** Hip Fracture Care Clinical Care Standard Indicator 5bc Pressure injuries of

the skin are potentially preventable. They can affect a person's level of pain,

quality of life, cost of care, and mortality.

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

Coding Frame 0 No 1 Yes

9 Not known

**DD Comments** A pressure injury is an area of localised damage to the skin and underlying

tissue caused by pressure, shear or friction forces, or a combination of

these. Grading for pressure ulcers consists of 4 levels:

Stage I pressure injury: non-blanchable erythema (intact skin with non-blanchable redness of a localised area usually over a bony prominence).

Stage II pressure injury: partial thickness skin loss (Partial thickness loss of dermis presenting as a shallow open ulcer with a red pink wound bed, with

slough).

Stage III pressure injury: full thickness skin loss (Subcutaneous fat may be

visible but bone, tendon, or muscle, are not fully exposed).

Stage IV pressure injury: full thickness tissue loss (Full thickness tissue loss

with exposed bone, tendon or muscle).

The pressure injury classification is from the National Pressure Ulcer Advisory Panel (NPUAP) and European Pressure Ulcer Advisory Panel

(EPUAP), Prevention and Treatment of Pressure Ulcers: Clinical Practice

Guideline. 2009, Washington DC: NPUAP

Variable Assessed by geriatric medicine

Variable Name gerimed

**Definition** Was the patient assessed by geriatric medicine during the acute phase of

the episode of care?

**Justification** Ability to monitor quality of care. Hip Fracture Care Clinical Care Standard

Indicator 3a.

Format 1 digit numeric

**Status** Core

**Coding Source** 

Coding Frame 0 No 1 Yes

8 No geriatric medicine service available

9 Not known

**DD Comments** An assessment by geriatric medicine refers to an assessment by a

geriatrician or a medical practitioner (Registrar) working under the

supervision of a geriatrician.

The acute phase (IHPA Admitted Hospital Care Types: Guide For Use 2015) is care in which the primary clinical purpose or treatment goal is to:

• cure illness or provide definitive treatment of injury

perform surgery

• relieve symptoms of illness or injury (excluding palliative care)

• reduce severity of an illness or injury

• protect against exacerbation and/or complication of an illness and/or

injury which could threaten life or normal function

• perform diagnostic or therapeutic procedures

Variable Number 4.14

Variable Geriatric medicine assessment date

Variable Name gdate

**Definition** Date on which an admitted patient was first assessed by geriatric medicine

during the acute phase of their episode of care

**Justification** To enable the identification of the date of geriatric assessment. Hip Fracture

Care Clinical Care Standard Indicator 3a.

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** A geriatric assessment is considered to include an assessment by a

geriatrician or a medical practitioner (Registrar) working under the

supervision of a geriatrician.

If no geriatric assessment was conducted enter: 0000000. Date not known is

entered as: 99999999

Variable Specialist falls assessment

Variable Name fassess

**Definition**Did the patient undergo a specialist falls assessment? **Justification**Did the patient undergo a specialist falls assessment?

Ability to monitor secondary hip fracture prevention

Format 1 digit numeric

Status Core

**Coding Source** 

Coding Frame 0 No

1 Performed during admission2 Awaits falls clinic assessment

3 Further intervention not appropriate 8 Not relevant, e.g. patient died

9 Not known

**DD Comments** A specialist falls assessment is undertaken by a multidisciplinary team and

includes a systematic assessment by a suitably trained person (i.e. geriatrician or a specialist assessment trained nurse), which must go over the following domains: (i) falls history (noting previous falls); (ii) cause of index fall (including medication review); (iii) risk factors for falling and injury (including fracture) and from this information formulate and document an

individualised plan of action to prevent further falls. A specialist falls

assessment is not a screening tool

Variable Number 4.16

Variable Bone protection medication at discharge from acute hospital

Variable Name dbonemed1

**Definition** What bone protection medication was the patient using at discharge from

acute hospital?

**Justification** Ability to monitor use of bone protection medication. Hip Fracture Care

Clinical Care Standard Indicator 6a.

Format 1 digit numeric

Status Code

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 No bone protection medication

1 Yes - Calcium and/or vitamin D only

2 Yes - Bisphosphonates, strontium, denosumab or teriparatide (with or

without calcium and/or vitamin D)

9 Not known

**DD Comments** Calcium or vitamin D includes Calcitriol, calcium and vitamin D or Alpha-

calcidol (or one alpha).

Bisphosphonates includes: Etidronate, Alendronate, Risedronate,

Ibandronate, Zoledronate, Pamidronate.

Variable Number 4.17

Variable Delirium assessment

Variable Name delassess

**Definition** Did the patient have a documented assessment of delirium in the week

following surgery for their hip fracture?

**Justification** Identifying patients with delirium is the first step in taking action to

providing high quality care. Early diagnosis and prompt treatment offers

patients with delirium the best chance of recovery.

Format 1 digit
Status Non-Core

**Coding Source** 

Coding Frame 1 Not assessed

2 Assessed and not identified3 Assessed and identified

9 Not known

**DD Comments** 

Assessment of delirium requires the use of a validated tool. There are a range of validated diagnostic tools for delirium and they include:

- Confusion Assessment Method (CAM) (Inouye et al. 2014; Shi et al. 2013)
- Confusion Assessment Method (CAM-ICU) (Ely et al. 2001)
- 3D-CAM (Marcantonio et al. 2014).

If a person declines assessment record as not assessed.

Delirium is defined as an acute change in mental status that is common among older patients in hospital (Clinical Epidemiology and Health Service Evaluation Unit 2006). It is characterised by a disturbance of consciousness, attention, cognition and perception that develops over a short period of time (usually hours to a few days) (National Institute for Health and Clinical Excellence 2010; Inouye 2014). Patients with delirium may be agitated and restless (hyperactive delirium), quiet and withdrawn (hypoactive delirium), or move between these two subtypes (mixed delirium) (Clinical Epidemiology and Health Service Evaluation Unit 2006; National Institute for Health and Clinical Excellence 2010).

| Variable Number      | 4.18  |
|----------------------|---|
| Variable             | Clinical malnutrition assessment  |
| Variable Name        | malnutrition  |
| Definition           | Did the patient undergo clinical assessment of their protein/energy nutrition status during the acute phase of the episode of care?   |
| Justification        | Hip fracture patients are at high risk of malnutrition. Malnutrition in these patients is associated with increased morbidity and mortality, and a decrease in return to pre-fracture functioning.  |
| Format               | 1 digit   |
| Status               | Core  |
| <b>Coding Source</b> | Adapted from the UK National Hip Fracture Database  |
| Coding Frame         | 0 Not done 1 Malnourished 2 Not malnourished 9 Not known  |
| DD Comments          | Clinical assessment of a person's nutritional status is encouraged during the acute phase. Sites should use tools that are validated for such purposes, and are advised to discuss with their Dietitians how best to record the results using this variable's options.  If the nutritional assessment is performed more than once, please record the first assessment after admission that uses a validated tool. |

#### **Section 5** Discharge

**Variable Number** 5.01

Variable Discharge date from acute ward

**Variable Name** 

**Definition** Date on which the patient was discharged from an acute ward during their

episode of care

**Justification** To enable the identification of the date of discharge from an acute ward so

as to calculate LOS

**Format** 8 digit date, date in DDMMYYYY

**Status** 

**Coding Source** National Health Data Dictionary, Version 15

**Coding Frame** DD/MM/YYYY

**DD Comments** The discharge date refers to the patient physically leaving the acute ward.

Record the date the patient was physically discharged from the acute

orthopaedic stay. Date not known is entered as: 99999999

Variable Number 5.02

**Variable** Discharge destination from acute orthopaedic episode

Variable Name

**Definition** What is the discharge (geographical) destination of the patient from the

acute/ orthopaedic ward?

**Justification** To assess patient outcome

**Format** 2 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database **Coding Frame** 

1 Private residence (including unit in retirement village)

2 Residential aged care facility 3 Rehabilitation unit public 4 Rehabilitation unit private

5 Other hospital / ward / specialty

6 Deceased

7 Short term care in residential care facility (New Zealand only)

97 Other 99 Not known

**DD Comments** Record the patient's discharge destination at discharge from the acute

> orthopaedic stay. If the patient is discharged to live with a relative or in a community group home or boarding house code 'private residence'. Private

rehabilitation units will not be applicable in New Zealand.

Residential aged care refers to a supported facility that provides

accommodation and care for a person on a long-term basis. This may include multi-purpose services in Australia and private hospitals or rest homes in

New Zealand.

Short-term care in residential care facility may be relevant if the patient is

non-weight bearing, and is used in New Zealand and, to a lesser degree, in Australia. For example, in New Zealand, some District Health Boards have programmes that fund patients who are non-weight bearing to be cared for in a residential care facility. When they are approved by the Orthopaedic Department to fully weight bear they are either admitted to Older Peoples Health for rehabilitation or discharged home.

Variable Number

5.03

Variable

Discharge from hospital date

**Variable Name** 

hdisch

Definition

Date on which an admitted patient was discharged from the operating

hospital following their episode of care

**Justification** 

To enable the identification of the date of discharge from hospital and

calculation of LOS

Format

8 digit date, date in DDMMYYYY

Status

Core

**Coding Source** 

National Health Data Dictionary, Version 15

**Coding Frame** 

DD/MM/YYYY

**DD Comments** 

Date not known is entered as: 99999999

Discharge from hospital date may be the same as discharge from acute ward if patient discharged from hospital system on discharge from acute ward

date.

**Variable Number** 

5.04

Variable

Length of stay (operating hospital)

Variable Name

olos

**Definition** 

The length of stay of a patient at the operating hospital, excluding leave days

or days before fracture if occurred in hospital, measured in days

Justification

To enable the identification of the length of stay at the operating hospital

Format

3 digit numeric

Status

Non-core (created centrally)

**Coding Source** 

National Health Data Dictionary, Version 15

**Coding Frame** 

NNN

**DD Comments** 

Formula: Length of Stay (LOS) = Separation date - Admission date - Total leave days. The calculation is inclusive of admission and separation dates.

LOS will be calculated automatically from the operating hospital separation

and admission dates.

If the hip fracture occurred as an in-patient then the length of stay should be

from time hip fracture was diagnosed.

Variable Number 5.05

Variable Length of stay (health system)

Variable Name

**Definition** The length of stay of a patient from admission/diagnosis of a hip fracture to

final date of discharge from an inpatient facility (public or private), excluding

leave days, measured in days

**Justification** To enable the identification of the total length of stay in the health system

Format 4 digit, unit of measure (day)

Status Non-core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame NNNN

**DD Comments** Formula: Length of stay (LOS) = Separation date - Admission date - Total

leave days. The calculation is inclusive of admission and separation dates.

LOS will be calculated automatically from the ED arrival date of the transferring hospital (or the ED arrival date of the operating hospital, if no transfer occurred) and the discharge from hospital date. If the final date of discharge from the hospital system is known, this date should be used.

It should be noted that the total length of stay in the hospital system will be difficult to calculate in some jurisdictions, due to differences in treatment

settings for rehabilitation-based care.

Variable Number 5.06

Variable Discharge place of residence

Variable Name dresidence

**Definition** What is the usual place of residence of the person following discharge from

the whole hospital system?

**Justification** Type of accommodation before and after admission are collected to

compare where the patient has come from (what was their usual

accommodation) and where they are going to (what will become their usual accommodation). Comparison of accommodation pre and post admission is

an indicator of patient outcome.

Format 1 digit numeric

**Status** Core

**Coding Source** Adapted from Australasian Rehabilitation Outcomes Centre Inpatient

Dataset, Version 3.0; NSW SNAP Data Collection, Version 4.0

**Coding Frame** 1 Private residence (including unit in retirement village)

2 Residential aged care / rest home

3 Deceased7 Other9 Not known

**DD Comments**Record the patient's accommodation type at discharge from the whole

hospital system.

If the patient lives with a relative or in a community group home or boarding

house code 'private residence'.

Residential aged care refers to a supported facility that provides

accommodation and care for a person on a long-term basis. This may include multi-purpose services in Australia and private hospitals or rest homes in

New Zealand.

# Section 7 120 day follow-up\*

\*120-day follow up is undertaken by the operating hospital

Variable Number 7.01

Variable 120 day follow-up date

Variable Name fdate2

**Definition** Date on which the 120 day follow-up was completed post the initial hip

fracture surgery

**Justification** To monitor patient outcomes post-surgery

**Format** 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** Date not known is entered as: 99999999

Variable Number 7.02

Variable Survival at 120 days post-surgery

Variable Name fsurvive2

**Definition**Is the patient alive at 120 days post-surgery**Justification**To monitor patient outcomes post-surgery

Format 1 digit numeric

**Status** Core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**DD Comments** 

Variable Number 7.03

Variable Date health system discharge at 120 day follow-up

Variable Name date 120

**Definition** What date was the patient discharged from the hospital system?

**Justification** To enable the identification of the total length of stay in the health system

Format 8 digit date, date in DDMMYYYY

**Status** Core

**Coding Source** National Health Data Dictionary, Version 15

Coding Frame DD/MM/YYYY

**DD Comments** If the patient is still in hospital, 00000000 is entered.

Date not known is entered as: 99999999

Variable Number 7.04

Variable Place of residence at 120 day follow-up

Variable Name fresidence2

**Definition** What is the place of residence of the person at 120 days post-surgery? **Justification** To monitor patient outcomes post-surgery. Hip Fracture Care Clinical Care

Standard Indicator 7b.

Format 2 digit numeric

**Status** Core

Coding Source Adapted from the Australasian Rehabilitation Outcomes Centre Inpatient

Dataset, Version 3.0; NSW SNAP Data Collection, Version 4.0

**Coding Frame** 1 Private residence (including unit in retirement village)

2 Residential aged care / rest home

3 Rehabilitation unit public4 Rehabilitation unit private5 Other hospital / ward / specialty

6 Deceased

7 Short term care in residential care facility (New Zealand only)

97 Other 99 Not known

# **DD Comments**

Record the patient's discharge destination at 120 days post-surgery. If the patient is discharged to live with a relative or in a community group home or boarding house code 'private residence'. Private rehabilitation units will not be applicable in New Zealand.

Residential aged care refers to a supported facility that provides accommodation and care for a person on a long-term basis. This may include multi-purpose services in Australia and private hospitals or rest homes in New Zealand.

Short-term care in residential care facility may be relevant if the patient is non-weight bearing and is used in New Zealand and to a lesser degree in Australia. For example, in New Zealand, some District Health Boards have programmes that fund patients who are non-weight bearing to be cared for in a residential care facility. When they are approved by the Orthopaedic Department to fully weight bear they are either admitted to Older Peoples Health for rehabilitation or discharged home.

Variable Number 7.05

Variable Full weight bear at 120 day follow-up

Variable Name wbearf2

**Definition** Is the patient allowed full weight bearing at 120 day follow-up?

**Justification** Ability to monitor variation in clinical practice

Format 1 digit numeric

**Status** Core

**Coding Source** 

**Coding Frame** 0 Unrestricted weight bearing

1 Restricted / non weight bearing

8 Not relevant 9 Not known

**DD Comments** Unrestricted weight bearing refers to a patient who is able to mobilise with

full use of the affected limb to weight bear as pain allows.

Restricted weight bearing refers to a patient where there is a specific instruction that prevents the patient being allowed to fully utilise the leg irrespective of degree of pain. Restricted weight bearing includes terms such

as partial weight bear, touch-weight bear and non-weight bear

Variable Number 7.06

Variable Post-admission walking ability at 120 day follow-up

Variable Name fwalk2

**Definition** What was the patient's walking ability at 120 days post-surgery?

**Justification** To monitor patient mobility status post-discharge. Hip Fracture Care Clinical

Care Standard Indicator 5d.

Format 2 digit numeric

Status Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 1 Usually walks without walking aids

2 Usually walks with either a stick or crutch

3 Usually walks with two aids or frame (with or without assistance of a

person)

4 Usually uses a wheelchair / bed bound

8 Not relevant 9 Not known

**DD Comments** Usually walks with two aids or frame includes with or without assistance of a

person

If a person has different levels of mobility on different surfaces then record the level of most assistance. For example, inside their residence a person usually walks with no walking aid but when outside the residence the person usually walks with a frame, then the level of mobility recorded is option 3. Variable Number 7.07

Variable Bone protection medication at 120 day follow-up

Variable Name fbonemed2

**Definition** What bone protection medication was the patient using at 120 days post-

surgery?

**Justification** Ability to monitor use of bone protection medication

Format 1 digit numeric

**Status** Code

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 No bone protection medication

5 Yes - Calcium and/or vitamin D only

6 Yes - Bisphosphonates, strontium, denosumab or teriparatide (with or

without calcium and/or vitamin D)

9 Not known

**DD Comments** Calcium or vitamin D includes Calcitriol, calcium and vitamin D or Alpha-

calcidol (or one alpha).

Bisphosphonates includes: Etidronate, Alendronate, Risedronate,

Ibandronate, Zoledronate, Pamidronate.

Variable Number 7.08

Variable Re-operation within 120 day follow-up

Variable Name fop2

**Definition** What kind of re-operation has been required (if any) for the patient within

120 days post-surgery?

**Justification** To monitor patient outcomes post-surgery

Format 2 digit numeric

**Status** Core

**Coding Source** Adapted from the UK National Hip Fracture Database

**Coding Frame** 0 No reoperation

1 Reduction of dislocated prosthesis

2 Washout or debridement

3 Implant removal

4 Revision of internal fixation5 Conversion to hemiarthroplasty6 Conversion to total hip replacement

7 Excision arthroplasty9 Revision arthroplasty

99 Not known

**DD Comments** Option 2 washout and debridement includes liner change. Note: record the

most significant procedure only.

# **ANZHFR Facility Level Audit**

Hospitals are identified using the variable 2.01: Establishment identifier of operating hospital

| Section 8   | Hospital information  |
|---|---|
| Variable #<br>Variable  | 8.01 Major trauma centre  |
| Variable Name<br>Definition<br>Justification<br>Format<br>Status<br>Coding Source | Is the hospital a designated major trauma centre?  To identify the Level 1 trauma centres  Numerical, N  non core   |
| Coding Frame  | 0 No<br>1 Yes<br>9 Not known  |
| FLA Comment   | Investigators can determine this using the Australasian trauma verification program manual. The manual is available at: https://www.surgeons.org/media/21043200/march-2016-trauma-verification-manual.pdf |
| Variable #<br>Variable  | 8.02 Hip fractures  |
| Variable Name<br>Definition   |   |
| Justification<br>Format<br>Status   | To estimate the number of hip fractures being treated at the hospital Numerical, NNNN core  |
| Coding Source<br>Coding Frame   | 1 0-50<br>2 51-100<br>3 101-150<br>4 151-200<br>5 201-300<br>6 301-400<br>7 401+<br>9 Not known   |
| FLA Comment   | s Record the estimated number of fractures treated annually.  |

### Section 9 Model of care Variable # 9.01 Variable **Orthogeriatric service** Variable Name ogs Definition Was there a formal orthogeriatric service in place? Justification To determine if there was an orthogeriatric service available for hip fracture patients at the hospital Format Numerical, N Status core **Coding Source Coding Frame** 0 No 1 Yes 9 Not known

monitoring of cognition (ANZHFR Guideline 2014, p.68).

Orthogeriatric care involves a shared care arrangement of hip fracture patients between the specialties of orthopaedics and geriatric medicine. The geriatrician is involved in the pre-operative optimisation of the patient in preparation for surgery and then takes a lead in the post-operative medical care and coordinates the

discharge planning process. Implicit in this role are many of the aspects of basic care including nutrition, hydration, pressure care, bowel and bladder management, and

**FLA Comments** 

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Variable # 9.02

Variable Model of care

Variable Name moc

Definition Select the model of care that best describes the service provided for care of older hip

fracture patients in your hospital.

Justification To determine the model of care used to treat hip fracture patients. Hip Fracture Care

Clinical Care Standard Indicator 3a.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 1 Orthopaedics and Geriatric Medicine shared care

2 Orthogeriatric Liaison Service where Geriatric Medicine provides daily review during

working week

3 Medical Liaison Service where Physician or GP provide daily review during working

week

4 Orthogeriatric Liaison Service where Geriatric Medicine provides intermittent

review once or more per week

5 Medical Liaison Service where Physician or GP provides intermittent review once or

more per week

6 A geriatric service provided on referral

7 A Medical Service provided on referral

8 No formal service

9 Other

99 Not known

### **FLA Comments**

Documented local arrangements for the management of hip fracture patients according to an orthogeriatric (or alternative physician or medical practitioner) model of care. The documentation should be an agreement showing acceptance of a "shared care" model for all hip fracture patients, and signed by the heads of both Geriatric Medicine and Orthopaedic Surgery.

The key features of an orthogeriatric model of care are:

- · regular medical assessment including medication review;
- managing patient comorbidities;
- optimisation for surgery;
- early identification of each patient's goals and care co-ordination. If appropriate and clinically indicated, provision of multidisciplinary rehabilitation aimed at increasing mobility and independence, and to facilitate a return to pre-fracture residence and support long-term wellbeing;
- early identification of most appropriate service to deliver rehabilitation, if indicated:
- ongoing orthogeriatric and multidisciplinary review including reassessment of cognition after surgery, and discharge planning liaison with primary care, including falls prevention and secondary fracture prevention.

# Section 10 Protocols and processes

Variable # 10.01

Variable Imaging protocol

Variable Name ct\_mri

Definition For a suspected hip fracture, does your hospital have a protocol or pathway for access

to CT / MRI for inconclusive plain imaging?

Justification To determine if the hospital has a protocol for the imaging of patients suspected of

having a hip fracture

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

FLA Comments CT is Computed Tomography

MRI is Magnetic Resonance Imaging

Offer magnetic resonance imaging (MRI) if hip fracture is suspected despite negative anteroposterior pelvis and lateral hip X-rays. If MRI is not available within 24 hours or

is contraindicated, consider computed tomography (CT).

Variable # 10.02

Variable Hip fracture pathway

Variable Name hipfrac\_path

Definition The hospital has a hip fracture pathway that is used for the management of patients

admitted with a hip fracture.

Justification To determine if the hospital has a hip fracture pathway. Hip Fracture Care Clinical

Care Standard Indicator 1a.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes - ED only

2 Yes - whole acute journey

9 Not known

FLA Comments Evidence of local arrangements for the management of patients with hip fracture in

the emergency department. Documented local arrangements for the management of

limited to: diagnostic imaging; pain control; cognitive assessment. The documentation

patients with hip fracture in the emergency department that address timely assessment and management of the patient's medical conditions, including but not

may be in the form of local protocols and/or a clinical pathway.

Variable Venous thromboembolism protocol

Variable Name vte

Definition Does your hospital have a VTE protocol?

Justification To determine if the hospital has a VTE protocol for hip fracture patients

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

FLA Comments VTE refers to venous thrombo-embolism

Variable # 10.04

Variable Pain protocol

Variable Name pain\_path

Definition Does your hospital have a protocol or pathway for the management of pain in hip

fracture patients?

Justification To determine if the hospital has a pain protocol for hip fracture patients. Hip Fracture

Care Clinical Care Standard Indicator 2a.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes - ED only

2 Yes - whole acute journey

9 Not Known

FLA Comments Documented local arrangements include a written clinical protocol to ensure patients

with a hip fracture receive prompt and effective pain management. The protocol should take into account the hierarchy of pain management medicine for managing pain associated with hip fracture and aim to minimise the use of opioid medicine.

Pain should be assessed immediately upon presentation at hospital and within 30 minutes of administering initial analgesia and hourly until settled on the ward and regularly as part of routine nursing observations throughout admission.

Protocols should include the use of a standardised pain assessment system, which specifically addresses the assessment of pain for patients with cognitive impairment and those unable to communicate pain, particularly with regard to minimising the use of opioid medicine in this group.

Variable Planned theatre list

Variable Name oplist\_planned

Definition Does your hospital have a planned emergency list / planned orthopaedic trauma list

for hip fracture patients?

Justification To determine if the hospital has access to an appropriately skilled operating team for

patients admitted with a hip fracture.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

0 No 1 Yes

9 Not known

FLA Comments A planned emergency list or planned orthopaedic trauma list provides access to an

appropriately skilled team to undertake the surgical procedure.

Variable # 10.06

Variable Anaesthesia

Variable Name anaes\_choice

Justification To determine if the hospital routinely offers a choice of anaesthesia for hip fracture

patients

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 Never

1 Rarely2 Frequently3 Always9 Not known

FLA Comments Patients should be involved in the decision as of the approach to anaesthesia taken.

They should be made aware of the potential risks and benefits of both general and regional anaesthesia so as to be able to make an informed decision about their care.

Variable Nerve block for pain pre-surgery

Variable Name

nvblock\_preop

Definition

Are hip fracture patients offered local nerve blocks as part of pain management prior

to surgery?

Justification

To determine if the hospital offers hip fracture patients local nerve blocks as part of

pain management pre-surgery

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 Never

1 Rarely 2 Frequently 3 Always 9 Not known

**FLA Comments** 

Nerve blocks offer an alternative to systemic analgesia and have the potential to reduce the dose requirements of potent systemic analgesic agents, which may reduce unwanted side effects such as sedation, respiratory complications and delirium.

Variable # 10.08

Variable Nerve block for pain post-surgery

Variable Name

nvblock\_postop

Definition
Justification

Are local nerve blocks used at the time of surgery to help with postoperative pain? To determine if the hospital offers hip fracture patients local nerve blocks as part of

pain management post-surgery

Format Numerical, N

Status

Coding Source

Coding Frame

0 Never

core

1 Rarely2 Frequently3 Always

9 Not known

**FLA Comments** 

Nerve blocks offer an alternative to systemic analgesia and have the potential to reduce the dose requirements of potent systemic analgesic agents, which may reduce unwanted side effects such as sedation, respiratory complications and delirium.

Variable Therapy access

Variable Name therapy\_we

Definition Does your hospital offer hip fracture patients routine access to therapy services at

weekends?

Justification To determine if the hospital offers hip fracture patients therapy services at weekends

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes - Physiotherapy only

2 Yes – other 9 Not known

FLA Comments Early mobilisation is also associated with short term gains related to a reduction in

postoperative complications. Unless medically or surgically contraindicated, mobilisation should start the day after surgery. Patients should be offered an opportunity to mobilise at least once a day with regular physiotherapy review

ensured.

Variable # 10.10

Variable **Delirium protocol** 

Variable Name del\_path

Definition Does your hospital have a protocol or pathway for the implementation of

interventions to prevent delirium in hip fracture patients?

Justification To determine if the hospital has a protocol in place to offer interventions to prevent

delirium to patients with a hip fracture. Delirium Clinical Care Standard Indicator 3a.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes , interventions specific to the individual's needs are offered

2 Yes, interventions not specific to the individual's needs are offered

9 Not Known

FLA Comments Documented evidence of local arrangements for implementing interventions for

patients identified as being at risk of developing delirium: medication review; correction of dehydration/ malnutrition/constipation; mobility activities; oxygen therapy; pain assessment and management; regular reorientation and reassurance; activities for stimulating cognition; non-drug measures to help promote sleep;

assistance for patients who usually wear hearing or visual aids.

These interventions should be tailored to individuals depending on the individual's clinical risk factors and the setting.3,4 The local arrangements should provide for tailored interventions. They must include a process for documenting the interventions and discussing with the patient and/or their carer the interventions being put in place. They must also include encouraging carers to be involved (e.g. providing orientation

and reassurance to the patient).

# Section 11 Beyond the Acute Hospital Stay

Variable # 11.01

Variable Information on treatment and care

Variable Name hipfrac\_written

Definition Does your hospital routinely provide patients and/or family and carers with written

information about treatment and care for a hip fracture?

Justification To determine if the hospital routinely provides hip fracture patients and/or their

family/carers with written information about their hip fracture treatment and care

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable # 11.02

Variable Inpatient rehabilitation

Variable Name inpt\_rehab

Definition Access to in-patient rehabilitation

Justification To determine if the hospital provides on- or off-site hip fracture rehabilitation for

patients unable to meet the criteria for early supported discharge

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 1 Onsite

2 Offsite 3 Both

4 No inpatient rehabilitation available

9 Not known

FLA Comments Consider in-patient rehabilitation for those in whom further improvement with a

structured multidisciplinary programme is anticipated.

Variable Home-based rehabilitation

Variable Name homebased\_serv

Definition Does your hospital have access to an early supported home-based rehabilitation

service (not the same as the Commonwealth funded transitional aged care program

or community services)?

Justification To determine if the hospital has access to early supported home-based hip fracture

rehabilitation for patients recovering from a hip fracture.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

FLA Comments Early supported discharge should be considered provided the patient is medically

stable and has the mental ability to participate in continued rehabilitation and is able

to transfer and mobilise short distances and has not yet achieved their full rehabilitation potential, as discussed with the patient, carer and family.

Variable Injury prevention

Variable Name

prevention\_written

Definition

Does your service provide individualised <u>written</u> information to patients on discharge

that includes recommendations for future falls and fracture prevention? (not the

same as a copy of a discharge summary)

Justification To determine if the hospital provides written information to patients on discharge

regarding fall and fracture-related injury prevention. Hip Fracture Care Clinical Care

Standard Indicator 7a.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Evidence of local arrangements for the development of an individualised care plan for hip fracture patients prior to the patient's separation from hospital. Documented local arrangements for patients with a hip fracture to have an individualised care plan developed prior to the patients separation from hospital, and provisions to make this available to them (and/or their carer), and to their general practitioner and other ongoing clinical care provider within 48 hours of the patient leaving the hospital.

The plan should describe the care received by the patient during their hospital stay and ongoing care and goals of care. The plan must include a summary of any changes to medicines, any new medicines, and equipment and contact details for rehabilitation services they may require. It should also describe mobilisation activities, wound care and function post-surgery, and include information and

recommendations for secondary fracture prevention.

Variable # 11.05
Variable Falls clinic
Variable Name falls clinic

Definition Does your service have access to a Falls Clinic (Public)

Justification To determine if the hospital has access to a Falls clinic for the prevention of future

falls

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable Osteoporosis clinic

Variable Name

op\_clinic

Definition

Does your service have access to an Osteoporosis Clinic (Public)

Justification

To determine if the hospital has access to an osteoporosis clinic for the management

of bone health

Format

Numerical, N

Status

core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable # 11.07

Variable

Falls and bone health clinic

Variable Name

falls\_bone\_clinic\_comb

Definition Justification Does your service have access to a combined Falls and Bone Health Clinic (Public) To determine if the hospital has access to a Falls and Bone Health clinic for the

management and prevention of future injury.

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable # 11.08

Variable Orthopaedic clinic

Variable Name

ortho\_clinic

Definition Justification Does your service have access to an Orthopaedic Clinic (Public) To determine if the hospital has access to an Orthopaedic clinic

Format Numerical, N

Status

**Coding Source** 

Coding Frame 0 No

1 Yes

core

9 Not known

**FLA Comments** 

Variable Fracture liaison service

Variable Name fls

Definition Do you have a Fracture Liaison Service, whereby there is systematic identification of

fracture patients by a fracture liaison nurse, with a view to onward referrals and

management of osteoporosis?

Justification To determine if the hospital has access to a fracture liaison service

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 Yes – hip fracture patients only

2 Yes – all fracture patients (including hip)

9 Not known

FLA Comments A Fracture Liaison Service may employ health care professionals who are not nurses,

such as physiotherapists, and who are called Fracture Liaison Coordinators.

# Section 12 Other aspects of care

Variable # 12.01

Variable Hip fracture data

Variable Name data\_collect

Definition Does your hospital routinely collect hip fracture data?

Justification To determine if the hospital routinely collects hip fracture data to enable review of

service provision and outcomes

Format Numerical, N

Status core

**Coding Source** 

Coding Frame 0 No

1 ANZ Hip Fracture Registry

2 Local System9 Not known

**FLA Comments** 

Variable # 12.02

Variable Service provision plans

Variable Name serv\_alt\_12mths

Definition Do you have any plans to alter any of your service provision for hip fracture patients

over the next 12 months – if so please give details?

Justification To determine if the hospital will alter any service provision for hip fracture patients

Format Numerical, N Status non core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable # 12.03

Variable Service provision plan details

Variable Name serv\_alt\_detail

Definition Type of service provision plans

Justification To determine the type of service provision changes that are to be made

Format Text Status non core

Coding Source Coding Frame FLA Comments

Variable Service provision barriers

Variable Name serv\_alt\_barriers

Justification To determine if there are any perceived barriers to service provision changes

Format Numerical, N Status non core

**Coding Source** 

Coding Frame 0 No

1 Yes

9 Not known

**FLA Comments** 

Variable # 12.05

Variable Service provision barrier details

Variable Name serv\_barriers\_detail

Definition Type of barriers to proposed service redesign

Justification To determine the type of perceived barriers to service provision changes

Format Text Status non core

Coding Source Coding Frame FLA Comments