

New Zealand Major Trauma National Minimum Dataset

Core Items

Version 3.1

June 2024

Contents

Version (Control	5
Backgro	und	5
Guide fo	or Use	6
Glossary	of terms	6
Inclusion	n-exclusion criteria	9
Data Def	finitions	10
1.01	Definitive Care Hospital Code	11
1.02	Incident number	13
1.03	National Health Index	14
1.04	Patient first and last name	15
2.01	Date of birth	16
2.02	Age	17
2.03	Sex	18
2.04	Ethnicity	19
2.05	Weight	20
2.06	Contact phone number This field is currently dormant	21
2.07	Contact email This field is currently dormant	22
2.08	Contact postal address	23
3.01	Date & Time of Injury	24
3.02	Injury Cause	25
3.03	Dominant Injury Type	26
3.04	Place of Injury (Domicile) Code	28
3.05	Injury Intent	29
3.06	Place of Injury Occurrence	30
3.07	Activity Engaged in when Injured	31
3.08	Injury Event Description	32
3.09	Safety Devices Used	33
4.01	Date & Time of Observations at Scene	35
4.02	Scene Pulse	37
4.03	Scene Systolic BP	38
4.04	Scene Spontaneous Respiratory Rate	39
4.05	Scene GCS Eye	40
4.06	Scene GCS Voice	41
4.07	Scene GCS Motor	42

4.08	Scene Total GCS	43
4.09	Mode of Transport from Scene	44
5.01	Referring Hospitals	45
5.02	Date & Time of Arrival at Referring Hospital	46
5.04	Referring Hospital Systolic BP	48
5.05	Referring Hospital Respiratory Rate	49
5.06	Referring Hospital Temperature	50
5.07	Referring Hospital GCS Eye	51
5.08	Referring Hospital GCS Voice	52
5.09	Referring Hospital GCS Motor	53
5.10	Referring Hospital Total GCS	54
5.11	Referring Hospital Vital Sign Qualifiers	55
5.12	Date & Time of Departure from Referring Hospital	56
5.13	Mode of Transport to Definitive Care Hospital	57
6.01	Date & Time of Arrival at Definitive Care Hospital	58
6.02	Definitive Care Hospital Pulse	59
6.03	Definitive Care Hospital Systolic BP	60
6.04	Definitive Care Hospital Respiratory Rate	61
6.05	Definitive Care Hospital Temperature	62
6.06	Definitive Care Hospital GCS Eye	63
6.07	Definitive Care Hospital GCS Voice	64
6.08	Definitive Care Hospital GCS Motor	65
6.09	Definitive Care Hospital Total GCS	66
6.10	Definitive Hospital Vital Sign Qualifiers	67
6.11	Trauma Call on arrival	68
6.12	Blood Alcohol Concentration on Arrival	69
6.13	First Measured Venous Base Excess	70
6.14	First Measured INR	71
6.15	Date & Time Index CT Performed	72
6.16	ED Discharge Date & Time	73
6.17	Disposition After ED	74
6.18	Activation of critical bleeding bundle	75
6.19	Post-Traumatic Amnesia (PTA) Screening	76
7.01	Patient Intubated?	77
7.02	Date & Time Patient Intubated	78
7.03	Emergency Operative Procedures	79
7.04	Date & Time for Each Emergency Procedure	80

7.05	AIS Injury Codes	81
7.06	Injury Severity Score	82
7.07	Number of Hours on Ventilator	83
7.08	Total Length of Stay	84
7.09	Length of ICU Stay	85
7.10	Tertiary Survey at Definitive Care Hospital	86
7.11	Diagnosis Made >48 hours After Arrival?	87
7.12	Discharge Destination from Acute Care	88
	Date & Time of Discharge from Definitive Care	
	Type of Death	
7.15	Post-definitive acute care hospital	91
7.16	Date & Time of Discharge from post-definitive acute care hospital	92

Version Control

Date	Version	Status	Key changes
November 2013	1.2	Endorsed and implemented	Original NMDS
July 2015	1.3	Endorsed and implemented	Change to AIS 2005 (with 2008 revisions) and associated lowering of ISS threshold to ISS≥13
June 2019	1.4	Changes endorsed, pending release 1 July 2019	Inclusion of
June 2020	1.5	Endorsed by NZTR Data Governance Group, and by the National Trauma Network Operations Group	Inclusion of contact details Removal of 'not applicable' from specific fields Changes to NZ Trauma Registry and new logo
October 2020	1.6	Endorsed	Changes to:
May / August 2021	1.7	Endorsed by DGG	Amendment to exclusion criteria to remove age and clarify frailty. Contact info fields made redundant as not currently needed for PROMS
January 2022	1.8	Endorsed by DGG	Activation of critical bleeding bundle Post-definitive acute care episode
October 2022	1.9	Endorsed by DGG	PTA screen added
December 2022	1.9	Endorsed by DGG	Ethnicity field change to align to HISO standard
June 2023	2.0	Endorsed by DGG	AIS2015
October 2023	3.0	Endorsed by DGG	Transition from ACC to Te Whatu Ora as Lead Agency Definitive Care definition revised
June 2024	3.1	Endorsed by DGG	PTA Screen definition refined

Background

The National Trauma Network (Network) was founded in 2012 with the goal of improving the outcomes from trauma care in New Zealand. At the time, most aspects of trauma care in New Zealand were of lower quality than international best practice. In particular, there was unwarranted variation in clinical care leading to avoidable deaths and people living with avoidable levels of impairment following injury.

From 2015, ACC has been both the funder and lead agency of the Network. In May 2023, ACC and Te Whatu Ora signed a Statement of Intent to reflect their agreement in principle that ongoing improvement in trauma outcomes is best served by locating the leadership of the Network within the overarching approach for National Clinical Networks within Te Whatu Ora.

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A key objective of the Network is to lead the development and implementation of a national major trauma database, Te Rēhita Whētuki o Aotearoa, the New Zealand Trauma Registry (NZTR).

This document identified the fields included in National Major Trauma Minimum Dataset for data collection and submission to a NZTR.

This dataset was determined with due consideration of the Bi-National Trauma Minimum Dataset (BNTMDS) for Australia and New Zealand, used for the Australian Trauma Registry. The BNTMDS has been endorsed by the Australians following a decade's worth of consultation with trauma stakeholders in Australia and New Zealand. To ensure alignment and potential for future comparison and collaboration, the New Zealand minimum dataset is identical or similar to the BNTMDS wherever possible.

The data dictionary describes the fields to be collected from all hospitals across New Zealand that currently care for major trauma patients. The data set for each patient will be submitted by the final treating hospital, the definitive care hospital, to the NZTR at a national level. New Zealand hospitals are free to collect additional trauma data elements for hospital, or regional purposes, and are not restrained to the minimum data set described here.

A national dataset on all major trauma patients in New Zealand provides a consistent and comprehensive description of severely injured patients in New Zealand, allowing for the monitoring of trends and patterns of injury. This dataset forms an invaluable resource for trauma research, guidelines and policy.

Guide for Use

This data dictionary has been designed to follow the patient journey, from the scene of injury to the referring hospital (where applicable), the definitive care hospital, and any subsequent acute care. In some instances, the scene and referring hospital fields may not be applicable; however fields applying to the definitive care hospital should always be answerable.

Data to be transferred from the pre-hospital service and referring hospitals will include both scene-specific and referring hospital-specific fields, i.e. fields 4.01-4.09 and 5.01-5.11 respectively. Additionally, data from the referring hospitals is required for the fields which refer to either "first" hospital or for fields which may span across referring and definitive hospitals. For example, 7.08 Total Length of Stay, refers to the sum of length of hospital stay in all referring and definitive care hospitals (where applicable).

All fields are mandatory, none more important than others. Where the value for the field is not known and has not been recorded, an option for "unknown" is provided. Further, when the field option does not apply, for example 4.02 Scene Pulse, when a patient's first presentation is to the hospital emergency department, a non-applicable option is provided. Thus, no field should be left blank.

Glossary of terms

Infant

Refers to a child aged 0 – 12 months of age

Pre-hospital

Refers to any event that occurred prior to a patient arriving at the first presenting hospital. This includes scene and transfer and staging but does not include referring hospital care.

Referring Hospitals

The acute care hospital from which the patient has been transferred from (to the definitive care hospital), usually to move the injured patient to a higher level of care where necessary resources optimise recovery.

Definitive Care Hospital

In general, the definitive hospital is the hospital that provides the largest proportion of tertiary care and able to provide leadership and total care for most aspects of the injury.

If a patient has been transferred from one tertiary hospital to another within or outside their region, then the last tertiary hospital providing acute surgical care is the definitive care hospital. Exceptions are expected, for example if the tertiary procedure in the last hospital was just a minor procedure (e.g. metacarpal fixation) comparatively to their other injuries.

Post-definitive acute care hospital

In some cases, patients are transferred from a definitive care hospital to another hospital for ongoing acute care, such as return to a hospital of domicile. It is important to understand this part of the patient journey as it contributes to hospital resources such as bed days and ventilator hours. If the patient is transferred for rehabilitation or convalescence, this does not count as a post-definitive care hospital.

Guide to meaning of categories and headings

DATA ELEMENT NAME

Identifying and definitional attributes

Definition A concise statement that expresses the essential nature of a data item and its

differentiation from all other data items.

Justification The reason for collecting this data item.

Representational attributes

Guide for use These are comments designed to assist in further defining aspects of the data domain.

Validation rules These are included to assist in reducing input error. Where validation rules are known to

exist, they have been included.

Data type The type of symbol or character, or other designation used to represent the data element,

for example, String, Number, Date/Time.

Maximum field size The maximum number of characters allowable to represent the data item values. Where

multiple field options are allowed, this will be represented as the total field size, followed by depiction of this as an addition of two fields. For example, in 2.04 Ethnicity, where each field option is two characters, a maximum of two ethnicities may be selected allowing for

a field size of 4 (2+2).

Data domain The set of possible values for the data item. This may take the form of a code set, or a

description of the possible values. Domain values are only specified where size of the code set is small enough to be reasonably reproduced in the document. In other instances

the domain may be indicated by reference to a source document.

Inclusion-exclusion criteria

While registries from a sole hospital or regional registries benefit from broad patient capture, at a national or international level only patients with injuries which are deemed significant (by some definition) should be included. The comparatively small proportion of patients which will meet assigned inclusion criteria should fit within the funding and time constraints which are imposed, particularly on smaller hospitals or regions without local data collection previously in place. It is therefore reasonable to limit inclusion to patients meeting specified criteria for major trauma.

Major trauma (and the inclusion criterion for the NZTR) is defined at a national level as:

INCLUSIONS

All patients of any age admitted to hospital with either:

- Injury Severity Score (ISS) >12 (based on AIS 2015) or
- Death following injury (including deaths in ED)

Even where patients meet all the inclusion criteria, the following patients will be excluded:

EXCLUSIONS

- Patients with delayed admissions more than 7 days after injury
- Poisoning or drug ingestion that do not cause injury
- Foreign bodies that do not cause injury
- Injuries secondary to medical procedures
- Isolated neck of femur fracture
- Pathology directly resulting in isolated injury (e.g. comorbidity requiring anticoagulation and a subdural haematoma without a clear history of a fall in less than 7 days prior to hospital admission)
- Elderly patients who die with superficial injury only (contusions, abrasions, or lacerations) and/or have coexisting disease that precipitates injury or is precipitant to death (e.g. Stroke, Renal Failure, Heart Failure,
 Malignancy or Advanced Frailty). Advanced frailty is assessed as a score of 7, 8 or 9 on the Clinical Frailty Scale

 see here.
- Hangings
- Drownings

Data Definitions

1.01 Definitive Care Hospital Code

Identifying and definitional attributes

Definition The identifier for the establishment in which the episode of definitive care occurred.

Each hospital code will align to the Manatū Hauora Hospital Code.

Justification Collected for administrative purposes; to assist in service provider identification; to

allow tracking of the patient journey; to allow for determination of hospital patient

volumes and injury demographic comparisons across different hospitals.

Representational attributes

Guide for use Use the code assigned to the facility.

Validation rules Code must not be the same as 5.02 Referring Hospital

Data type String

Field size maximum

Field Size maximum			
Code	Description		
3260	Auckland City Hospital		
4011	Christchurch Hospital		
4211	Dunedin Hospital		
3411	Gisborne Hospital		
5911	Greymouth Base Hospital		
3612	Hawkes Bay Hospital		
5812	Hutt Hospital		
3214	Middlemore Hospital		
3911	Nelson hospital		
3215	North Shore Hospital		
4311	Palmerston North Hospital		
5312	Rotorua Hospital		
4511	Southland Hospital		
4711	Taranaki Base Hospital		
4911	Tauranga Hospital		
4411	Timaru Hospital		
5311	Waikato Hospital		
5511	Wairarapa Hospital		
	3260 4011 4211 3411 5911 3612 5812 3214 3911 3215 4311 5312 4511 4711 4911 4411 5311		

5811	Wellington Hospital
3311	Whakatane Hospital
5711	Whanganui Hospital
4111	Whangarei Hospital

If the facility code is not found here, refer to the full codes found at: http://www.health.govt.nz/nz-health-statistics/data-references/code-tables/common-code-tables/facility-code-table

1.02 Incident number

Identifying and definitional attributes

Definition An identifier which is unique to a specific trauma event for a specific person (an

incident-specific not person-specific number).

Justification Collected for administrative purposes, to assist in the identification of the same

episode of care for a trauma incident;

Representational attributes

Guide for use The code will be automatically generated by the Registry. Each incident number must

be unique and not re-used over time within the establishment.

This field cannot be an identifying number, such as the NHI number.

Validation rules Must not be identical to any other incident number

Data type String

Field size maximum 10

Data domain

1.03 National Health Index

Identifying and definitional attributes

Definition A unique combination of letters and numbers that is assigned by the Ministry of

Health to each person using health and disability support services.

Justification Collected for administrative purposes, to assist in the identification of the same

patient who potentially could cross between administrative boundaries, and to

enable analysis across services.

Representational attributes

Guide for use The code is available on the patient notes. Sometimes a temporary NHI may be

assigned to a patient particularly when they NHI cannot be found. If a temporary NHI is assigned, it will need to be merged with the original once known. The original

NHI must be used in the registry.

Validation rules 3 Alpha 4 Numeric. Must adhere to NHI coding protocol

Data type String

Field size maximum 10

Data domain

Refer to the following link for further information

http://www.health.govt.nz/our-work/health-identity/national-health-index/nhi-information-health-consumers/national-health-index-questions-and-answers#whatis

1.04 Patient first and last name

Identifying and definitional attributes

Definition The first name and last name of the patient as it appears on the hospital Patient

Management System.

Justification Collected for administrative purposes, to assist in the identification of the same

patient.

Representational attributes

Guide for use The code is available on the patient notes.

Validation rules

Data type Text

Field size maximum First name 30, Last name 50

Data domain

2.01 Date of birth

Identifying and definitional attributes

Definition The date of birth of the patient.

Justification Collected for administrative purposes, to assist in individual identification and for

derivation of age in demographic analyses.

Representational attributes

Guide for use If date of birth is not known or cannot be obtained, *Unknown* should be recorded

and provision should be made to collect or estimate 2.02 Age.

If year of birth is known (but date of birth is not) use the date, 0101YYYY of the birth

year to estimate age (where YYYY is the year of birth).

Validation rules Less than all other dates

Data type Date/Time

Field size maximum 8

Data domain Value Description

dd/mm/yyyy Valid Date

? Unknown

2.02 Age

Identifying and definitional attributes

Definition The age of the patient on the date of the injury event

Justification Age is a core data element as a predictive measure of trauma treatment and

outcomes; for demographic analyses.

Representational attributes

Guide for use Age is automatically calculated in the registry based on the date of birth and date

and time of injury.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-130 Automatically calculated once date of injury has been

entered

2.03 Sex

Identifying and definitional attributes

Definition The biological distinction between male and female.

Justification Collected to determine sex specific treatment. It is also a core element in a wide

range of social, labour and demographic statistics.

Representational attributes

Guide for use Diagnosis and procedure codes should be checked against the national ICD-10-AM

sex edits, unless the person is undergoing, or has undergone a sex change or has a

genetic condition resulting in a conflict between sex and ICD-10-AM code.

Validation rules

Data type Number

Field size maximum 1

Data domain

Code
Description

Male

Pemale

Not known

Gender diverse

2.04 Ethnicity

Identifying and definitional attributes

Definition As defined by the Manatū Hauora, an ethnic group is a social group whose

members have one or more of the following:

- they share a sense of common origins

- they claim a common and distinctive history and destiny

- they possess one or more dimensions of collective cultural individuality

- they feel a sense of unique collective solidarity.

Justification Information on ethnicity is collected for monitoring injury patterns across different

ethnic groups; ethnic group codes are key variables for determining the

characteristics of the population who suffer from major trauma in New Zealand.

Representational attributes

Guide for use Ethnicity is a self-identified characteristic in New Zealand. Ethnicity to be recorded as

per Ethnicity Data Protocols for the Health and Disability Sector (HISO 10001:2017 Ethnicity data protocols). The NZTR requires coding at Level 4 with a maximum of six ethnicities recorded and Level 1 for prioritised ethnicity. The source of ethnicity is the Manatū Hauora NHI collection and is automatically integrated into the NZTR and is current at the time the patient is entered into the NZTR (usually within 30 days

of discharge from hospital).

Validation rules

Data type String

Field size maximum 7 (2+2+2+2+2+1)

Data domain Code Description

Ethnicity 1, 2, 3, 4, 5, 6

Prioritised ethnicity

Refer to https://www.health.govt.nz/publication/hiso-100012017-ethnicity-data-protocols

2.05 Weight

Identifying and definitional attributes

Definition The weight of the person if \leq 15 years of age on admission to the definitive care

hospital, measured in kilograms.

Justification

Representational attributes

Guide for use If not recorded to be estimated by a treating clinician

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

1-999 + decimal Weight (kilograms) to one decimal place

? Unknown

/. Not applicable

2.06 Contact phone number This field is currently dormant

Identifying and definitional attributes

Definition	Maximum two phone numbers, as they appear on the hospital Patient Management		
	System. Alpha text may also be used to indicate who the phone number belongs to,		
	for example, 021 xxx xxxx Mother		
Justification	Collected for administrative purposes, to assist in the contact of patients for the		
	Patient Experience Long Term Outcomes work which is to monitor and evaluate the		
	trauma system.		

Representational attributes

Guide for use	Provide as much information as available on the Patient Management System.		
	Include area code for phone number.		
Validation rules			
Data type	Text		
Field size maximum	2 x 30		
Data domain			

2.07 Contact email This field is currently dormant

Identifying and definitional attributes

Definition	Patient's email address, as it appears on the hospital Patient Management System.
Justification	Collected for administrative purposes, to assist in the contact of patients for the
Patient Experience Long Term Outcomes work which is to monitor and e	
	trauma system.

Representational attributes

Guide for use Provide as much information as available on the Patient Management System.

Validation rules

Data type Text

Field size maximum 30

Data domain

2.08 Contact postal address

Identifying and definitional attributes

Definition Patient's postal address, as it appears on the hospital Patient Management System.

Justification Collected for administrative purposes, to assist in the contact of patients for the

Patient Experience Long Term Outcomes work which is to monitor and evaluate the

trauma system.

Representational attributes

Guide for use Provide as much information as available on the Patient Management System.

Validation rules

Data type Text

Field size maximum 30

Data domain

3.01 Date & Time of Injury

Identifying and definitional attributes

Definition The date and time the person received the injuries requiring hospitalisation.

Justification To identify the episode of injury by the date and time; date is used to calculate the

age at date of injury; time is used to calculate the time to treatment and also report

on the most common time of injury.

Representational attributes

Guide for use If time is not accurately known, the best estimate should be used.

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25th November 2011 should be reported as 25/11/11

00:01.

Validation rules Must be less than or equal to:

• 4.01 Date & Time of Observations at Scene

5.03 Date & Time of Arrival at Referring Hospital;

5.12 Date & Time of Departure from Referring Hospital; and

6.01 Date & Time of Arrival at Definitive Care Hospital

Date must be greater than or equal to:

• 2.01 Date of Birth

Data type Date and Time

Field size maximum

Data domainValueDescriptiondd/mm/yyyyValid Date

00:00

Valid Time

3.02 Injury Cause

Identifying and definitional attributes

Definition The ICD10 v11 code which best describes the single environmental event,

circumstance or condition (external factor) which was the primary circumstance or

cause of the trauma event.

Justification Enables categorisation of injury cause and identify trends in defining and monitoring

cause of injuries.

Representational attributes

Guide for use This code must be used in conjunction with an injury code and can be used with

other disease codes. The external cause should be coded to the complete ICD-10-AM

v11 classification.

If two or more cause categories are judged to be equally important, select the one

that comes first in the code list.

Validation rules

Data type String

Field size maximum 6

Data domain International Statistical Classification of Diseases and Related Health Problems, Tenth

Revision, Australian Modification 11th edition

3.03 Dominant Injury Type

Identifying and definitional attributes

Definition The dominant type of injury produced by the trauma event.

Justification Collected to determine trends and calculation of TRISS (blunt and penetrating only).

Representational attributes

Guide for use

In most instances, determination of the dominant injury type will be based on the mechanism of injury, and relate directly to:

Blunt injuries generally occur from mechanisms such as motor vehicle collisions, pedestrian impacts, falls and sports injuries.

Penetrating injuries require skin penetration by an external force as the principal component of injury. Examples include stab and gunshot wounds, bomb fragments, lacerations from a single sharp instrument, glass-related injuries and impalements. This excludes closed contusions, compound fractures where the bone breaks the skin, but includes compound fractures where an external object travels through the skin and into the bone.

Burn injuries are caused by exposure to electrical, thermal or corrosive agents such as flames, hot substances, chemicals or radiation. Examples include situations where electricity has primarily damaged soft tissues (electrical burns).

Unknown - type of injury cannot be determined.

In some cases, the dominant injury type will not be readily apparent. For example, a patient injured in a severe motor vehicle collision (which generally results in blunt injuries) may have additional penetrating injuries. When compared with blunt injuries sustained in such an injury event, such penetrating injuries may be minor (as in superficially embedded glass from a broken window) or major (as in impalement on an object within the vehicle). In such cases, the <u>dominant</u> injury type may be established by additional review of:

- 3.08 Injury event description; and
- 7.05 AIS Injury Codes

Where an injury event results in both blunt and non-blunt trauma of equal AIS severity, the non-blunt injury type should be used.

Validation rules

Data type String

Field size maximum 1

Data domain Code Description

1 Blunt

2 Penetrating

- 3 Burns
- ? Unknown

3.04 Place of Injury (Domicile) Code

Identifying and definitional attributes

Definition The official New Zealand domicile code where the trauma event occurred.

Justification Used in the analysis of injury incident on a geographical level.

Representational attributes

Guide for use The domicile code should be derived from the address of injury where possible.

Where the domicile code is not derivable from the description of the location of

injury, it should be approximated as best as possible.

Where no information is given other than the town or city where the injury event occurred, *Unknown* should be used. For example if the injury occurred somewhere in Auckland but the domicile code cannot be approximated, *Unknown* should be used

and not a generic city code.

If the injury occurs in a location in which a New Zealand domicile code is not applicable, such as on a boat, plane or at an overseas location, code *Not Applicable*

should be used.

Validation rule

Data type Number

Field size maximum 4

Data domain

Value

Description

Valid domicile code

?

Unknown

/.

Not applicable

Manatū Hauora provides software to Te Whatu Ora to access domicile codes. Refer to the following link for further information http://www.health.govt.nz/our-work/health-identity/addressing-and-geocoding

3.05 Injury Intent

Identifying and definitional attributes

Definition The most likely role of human intent in the occurrence of the trauma event as

determined by a clinician's assessment.

Justification Used for injury surveillance.

Representational attributes

Guide for useSelect the code which best characterises the role of intent in the occurrence of the

injury, on the basis of the information available at the time it is recorded. Intent refers to the **intention to cause injury**, rather than the intention to perform an action which may or may not directly result in injury. For example, punching a hard surface in anger may result in injury but this was not the direct intention of the

action, which was to express anger.

If two or more categories are judged to be equally appropriate, select the one that

comes first in the code list.

Validation rules

Data type	String
Field size maximum	1

Tiela Size maximam	-	
Data domain	Value	Meaning
	1	Unintentional (injury)
	2	Self-inflicted
	3	By other
	?	Not known

3.06 Place of Injury Occurrence

Identifying and definitional attributes

Definition The type of location where the trauma event occurred.

Justification To identify trends of injury and for injury prevention and control.

Representational attributes

Guide for use ICD-10-AM code to be used, using the top-level codes described below. If two or

more categories are judged to be equally appropriate, select the one that comes first

in the code list.

Value

Y92.7

Data domain described as per ICD-10-AM International Statistical Classification of Diseases and Related data element Health Problems, Australian Modification

Validation rules

Data domain

Data type String

Field size maximum 1

Y92.09	Home
Y92.19	Residential institution
Y92.29	School, other institution and public administrative area
Y92.39	Sports and athletics area
Y92.49	Street and highway
Y92.59	Trade and service area
Y92.69	Industrial and construction area

Farm

Meaning

Y92.88 Other specified place of occurrence

Y92.99 Unspecified place

3.07 Activity Engaged in when Injured

Identifying and definitional attributes

Definition The type of activity the person was engaged in at the time of the trauma event.

Justification To identify trends of injury and for injury prevention and control. The basis for

identifying work-related and sport-related injuries.

Representational attributes

Guide for use ICD-10-AM code to be used, using the top-level codes described below. If two or

more categories are judged to be equally appropriate, select the one that comes first

in the code list.

There are a number of subtleties in this coding system. Firstly there is no option for "travel", so if a person is injured in a road traffic accident the reason for their travel should be documented; were they travelling to/for work (code as while working for

income), or on holiday (code as engaged in sports or leisure). Further, if a

professional rugby player is injured while playing rugby (and working for an income),

the 'While engaged in sports and leisure' code should be used.

Validation rules

Data type String

Field size maximum 1

Data domain	Value	Meaning
	U70.8	While engaged in sports or leisure
	U73.09	While working for income
	U73.1	While engaged in other types of work
	U73.2	While resting, sleeping, eating or engaging in other vital activities
	U73.8	While engaged in other specified activities
	U73.9	During unspecified activity

Data domain described as per ICD-10-AM International Statistical Classification of Diseases and Related data element Health Problems, Australian Modification

3.08 Injury Event Description

Identifying and definitional attributes

Definition A textual description of the environmental event, circumstance or condition as the

cause of injury.

Justification The narrative of the injury event is important as it identifies features of the event not

necessarily revealed by coded data.

Representational attributes

Guide for use Text description should include information relating to the circumstances prior to

and surrounding the trauma event (including place of injury and activity), and what

'went wrong' to cause the trauma event, and any environmental factors.

Validation rules

Data type Text

Field size maximum 1000

Data domain

3.09 Safety Devices Used

Identifying and definitional attributes

7 6

Justification

Definition

The use (or lack of use) of safety equipment relevant to the injury cause.

Representational attributes

Guide for use

Seatbelt refers to the conventional car restraints used for adults; lap belts go over the waist and attach at two points, whereas sash-lap belts attach at 3 points, with one strap sitting diagonally from one shoulder to the opposite hip, and additionally across the waist.

Child car restraint applies to structures used specifically for small children; a child seat is for infants and smaller children and has an inbuilt harness system while a booster seat is for larger children to help ensure the conventional adult seatbelt sits properly across their bodies.

Helmet examples include bicycle, skiing, motorcycle, rock climbing.

Airbag deployed refers to the deployment of an airbag which directly protects, or attempts to protect, the person from injury. An airbag that deploys in the driver's seat which does not serve to protect the injured person who is travelling in the back seat should not be recorded as airbag deployed.

Other Personal Protection Equipment refers to any other safety equipment which was in use at the time of injury, such as harnesses, protective clothing etc.

Up to two categories may be selected, for example airbag deployed and seatbelt: sash-lap may both apply.

Validation rules

Data type	Number	
Field size maximum	2 (1+1)	
Data domain	Code	Description
	1	No safety device
	2	Seatbelt: sash-lap
	3	Seatbelt: lap only
	4	Child car restraint: child seat
	5	Child car restraint: booster
	6	Airbag deployed
	7	Helmet
	8	Other Personal Protection Equipment

- /. Not applicable
- ? Not stated/inadequately described

Identifying and definitional attributes

Definition The date and time the Scene Observations (4.02 - 4.08) were recorded at the scene

of injury.

Justification Date and time of observations used as a proxy for time of arrival of ambulance at

scene and thus enables calculation of transfer time from scene to first hospital; provides a time-stamp for observations which is important in time sensitive

conditions such as major trauma.

Representational attributes

Guide for use

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25th November 2011 should be reported as 25/11/2011 00:01

If 4.09 Mode of Transport from Scene is completed as either: 1 Road Ambulance, 2 Helicopter Ambulance, then should be completed even in the absence of any recorded Scene observations (4.02-4.08) to allow use as proxy for time of arrival at Scene.

Where the person's first presentation is at either referring or definitive care hospital, code as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are applicable).

Validation rules

Must not be completed as *Not Applicable* if *any* Scene Observations (4.02-4.08) completed.

Must not be completed as *Not Applicable* if 4.09 Mode of Transport from Scene is completed as either: 1 Road Ambulance, 2 Helicopter Ambulance,

Must be greater than or equal to:

3.01 Date & Time of Injury

Must be less than or equal to:

- 5.03 Date & Time of Arrival at Referring Hospital (if applicable)
- 5.12 Date & Time of Departure from Referring Hospital (if applicable)
- 6.01 Date & Time of Arrival at Definitive Care Hospital
- 6.13 Date & Time Index CT performed (if applicable)
- 6.14 ED Discharge Date & Time (if applicable)
- 7.14 Date & Time of Discharge from Definitive Care

Data type

Date/Time

Field size maximum	4	
Data domain	Value	Description
	dd/mm/yyyy	Valid Date
	00:00	Valid Time
	?	Unknown
	/.	Not applicable

4.02 Scene Pulse

Identifying and definitional attributes

Definition The first recorded heart rate measured at the scene of trauma event , measured in

beats per minute.

Justification Used as a proxy to assess injury severity.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team at the scene of the

injury.

Where the person's first presentation is at either referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as not applicable, yet all other scene fields are applicable).

If the person is in cardiac arrest at the time of first measurement, code 997 – *Cardiac arrest*

If the person's heart rate cannot be measured, code *Unknown*

Validation rules

Data type Number

Field size maximum 3

Data domain

Value

Description

0-300

Heart beats per minute

/.

Not applicable

?

Unknown

4.03 Scene Systolic BP

Identifying and definitional attributes

Definition The first recorded systolic blood pressure measured at the scene of trauma,

measured in mmHg

Justification Used in several scoring and is one assessment of patient acuity.

Representational attributes

Guide for use

First measurement taken by any ambulance or retrieval team at the scene of injury.

Where the person's first presentation is at referring or definitive care hospital, code Not Applicable. If 4.01 Date & Time of Observations at Scene recorded as Not Applicable, then should be recorded as Not Applicable. It is likely that if any of the scene fields (4.01-4.08) are recorded as Not Applicable, that this field should also be recorded as Not Applicable. Further, if any scene field is recorded as anything other than Not Applicable, it is likely that none of the scene fields should be recorded as Not Applicable (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as not applicable, yet all other scene fields are applicable).

If the systolic blood pressure is not or cannot be measured, *Unknown* should be

Measurement protocol for resting blood pressure: The systolic blood pressure is one

component of a routine blood pressure measurement (i.e. systolic/diastolic) and

reflects the maximum pressure to which the arteries are exposed.

Validation rules

Number Data type

Field size maximum 3

Data domain Description Value

> 0-300 Millimetre of mercury (mmHg)

Not applicable /.

4.04 Scene Spontaneous Respiratory Rate

Identifying and definitional attributes

Definition The first recorded unassisted rate of respiration measured at the scene of trauma,

measured in number per minute.

Justification Used in several scoring systems and is one assessment of patient acuity.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team prior to hospital.

Where the person's first presentation is at a referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable*, (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are applicable).

If the person is in respiratory arrest at the time of first measurement, value 997 should be used.

If the respiratory rate is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 3

Data domain

Value

Description

0-100

Number per minute

/.

Not applicable

?

Unknown

4.05 Scene GCS Eye

Identifying and definitional attributes

Definition The first recorded indication of the responsiveness to stimuli by eye opening at the

scene of trauma.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial

neurological status prior to arrival at hospital.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team prior hospital.

Where the person's first presentation is at a referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are

applicable).

If eye response cannot be reliably assessed, record as 'Unknown'.

Validation rules

Data type Number

Field size maximum 1

ricia size maximam	-	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response-No Response
	2	Pain-Pain-Pain
	3	Voice-Verbal Stimuli-Verbal Stimuli
	4	Spontaneous-Spontaneous
	/.	Not applicable
	?	Unknown

4.06 Scene GCS Voice

Identifying and definitional attributes

Definition The first recorded indication of the level of verbal response at the scene of trauma.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models and provide an indication of the patient's initial

neurological status prior to arrival at definitive care.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team prior to hospital.

Where the person's first presentation is at a referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are applicable).

Validation rules

Data type Number

?

Field size maximum 1

Field Size Illaxillidili	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response
	2	Incomprehensible words- Incomprehensible words, cries- Moans to pain
	3	Inappropriate words- Inappropriate words- Cries to pain
	4	Confused - Irritable, cries
	5	Oriented- Oriented – Coos, babbles
	/.	Not applicable

Unknown

4.07 Scene GCS Motor

Identifying and definitional attributes

Definition The first recorded indication of the level of motor response at the scene of trauma.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models and provide an indication of the patient's initial neurological status prior to arrival at referring or definitive care. The GCS motor component alone may be useful as an independent predictor of outcome.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team prior hospital.

Where the person's first presentation is at a referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are applicable).

Validation rules

Data type Number

?

Field size maximum 1

Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response
	2	Extension to pain- Extension to pain- decerebrate posturing to pain
	3	Flexion to pain- Flexion to pain- Decorticate posturing to pain
	4	Withdraws to pain- Withdraws to pain- Withdraws to pain
	5	Localises pain- Localises painful stimulus–Withdraws to touch
	6	Obeys commands- Obeys commands- Moves spontaneously
	/.	Not applicable

Unknown

4.08 Scene Total GCS

Identifying and definitional attributes

Definition The first recorded total Glasgow Coma Scale score at the scene of trauma.

Justification Used in several scoring systems and required for the assessment of coma and

impaired consciousness.

Representational attributes

Guide for use First measurement taken by any ambulance or retrieval team prior to hospital.

Where the person's first presentation is at a referring or definitive care hospital, code *Not Applicable*. If 4.01 Date & Time of Observations at Scene recorded as *Not Applicable*, then should be recorded as *Not Applicable*. It is likely that if any of the scene fields (4.01-4.08) are recorded as *Not Applicable*, that this field should also be recorded as *Not Applicable*. Further, if any scene field is recorded as anything other than *Not Applicable*, it is likely that none of the scene fields should be recorded as *Not Applicable* (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as *Not Applicable*, yet all other scene fields are applicable).

If the total GCS is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 2

Data domain

Code
Description

3- 15
Total GCS

/.
Not applicable

?
Unknown

4.09 Mode of Transport from Scene

Identifying and definitional attributes

Definition The type of transport by which the person left the scene of the trauma event.

Justification To monitor patterns of transfer and mode of transportation used.

Representational attributes

Guide for use If two modes of transport are used in the transfer of a patient from scene to the first

hospital, the mode that received the patient from the scene of injury is to be

recorded.

Validation rules

Data type	String	
Field size maximum	1	
Data domain	Code	Description
	1	Road Ambulance
	2	Helicopter Ambulance
	3	Private/Public Vehicle/Taxi/Walk-in
	4	Police/Prison/Fire Vehicle
	1.	Not applicable
	?	Unknown

5.01 Referring Hospitals

Identifying and definitional attributes

Definition The identifier for the establishment or establishments from which the person was

transferred from. Each hospital code will align to the Ministry of Health Hospital

Code.

Justification To identify the referring health service providers for patient tracking.

Representational attributes

Guide for use As described in Guide for Use, this data dictionary is designed to be completed by

the definitive hospital, allowing capture of all treatment and patient care along the patient journey. It is the responsibility of the definitive care hospital to capture the identity and relevant information recorded at a referring hospital for submission to the national registry, including the fields related to "first hospitals" 6.10-6.13.

There may be more than one Referring Hospital. The data from each referring

hospital must be entered into the registry as a new facility tab.

Validation rules If 5.02 Date & Time of Arrival at Referring Hospital recorded as Not Applicable, must

be recorded as Not Applicable.

Data type String

Field size maximum

Data domain Code Description

Refer to 1.01 for hospital codes

5.02 Date & Time of Arrival at Referring Hospital

Identifying and definitional attributes

Definition The date and time patient was first registered, triaged or assessed (whichever comes

first), at the referring hospital.

Justification Enables calculation of transfer time from referring hospital to definitive care

hospital; provides a time-stamp which is important in time sensitive conditions such

as major trauma.

Representational attributes

Guide for use

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25th November 2011 should be reported as 25/11/2011 00:01.

Validation rules

If 5.02 Referring Hospital recorded as *Not Applicable*, must be recorded as *Not Applicable*.

Must be greater than or equal to:

- 3.01 Date & Time of Injury
- 4.01 Date & Time of Observations at scene (if applicable)

Must be less than or equal to:

- 5.12 Date & Time of Departure from Referring Hospital
- 6.01 Date & Time of Arrival at Definitive Care Hospital
- 6.14 ED Discharge Date & Time (if applicable)
- 7.14 Date & Time of Discharge from Definitive Care

Data type Date/Time

Field size maximum 13

Data domainValueDescriptiondd/mm/yyyyValid Date

00:00 Valid Time

5.03 Referring Hospital Pulse

Identifying and definitional attributes

Definition The first recorded heart rate measured following arrival at the referring hospital,

measured in beats per minute.

Justification Used as a proxy to assess injury severity.

Representational attributes

Guide for use

If the person is in cardiac arrest at the time of first measurement, value 997 should

be used.

Record the pulse as it is regardless of any interventions (such as drugs) which could

potentially impact the pulse rate.

If the person's heart rate cannot be measured, code *Unknown*.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-300 Heart beats per minute

5.04 Referring Hospital Systolic BP

Identifying and definitional attributes

Definition The first recorded systolic blood pressure measured following arrival at the referring

hospital, measured in mmHg.

Justification Used in several scoring systems including TRISS and is one assessment of patient

acuity.

Representational attributes

Guide for use

Record the systolic blood pressure as it is, regardless of any interventions (such as

drugs), which could potentially impact the systolic blood pressure.

If the systolic blood pressure is not or cannot be measured, Unknown should be

used.

Measurement protocol for resting blood pressure: The systolic blood pressure is one

component of a routine blood pressure measurement (i.e. systolic/diastolic) and

reflects the maximum pressure to which the arteries are exposed.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-300 Millimetre of mercury (mmHg)

5.05 Referring Hospital Respiratory Rate

Identifying and definitional attributes

Definition The first recorded rate of respiration measured following arrival at the referring

hospital, measured in number per minute.

Justification Used in several scoring systems including TRISS and is one assessment of patient

acuity.

Representational attributes

Guide for use

If the person is in respiratory arrest at the time of first measurement, value 997

should be used.

If the person has been intubated at the time of first measurement, record the

ventilator respiratory rate and complete 5.11 and 7.01.

If the respiratory rate is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-100 Number per minute

5.06 Referring Hospital Temperature

Identifying and definitional attributes

Definition The first recorded body temperature measured following arrival at the referring

hospital, measured in degrees Celsius.

Justification Useful in the measurement of a patient vital status. Very high and low temperatures

can be an indication of organ decomposition for an injured patient. Hypothermia can

present a significant management problem.

Representational attributes

Guide for use

If the temperature is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 4

Data domain Value Description

20.0 – 50.0 Temperature in Celsius

5.07 Referring Hospital GCS Eye

Identifying and definitional attributes

Definition The first recorded indication of the responsiveness to stimuli by eye opening at the

referring hospital.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at hospital. Required for RTS and TRISS.

Representational attributes

Guide for use

If eye response has not been recorded use Unknown.

If eye response cannot be reliably assessed, such as if a blind person is the patient,

record as Not Applicable.

Validation rules

Data type	Number	
Field size maximum	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response-No Response
	2	Pain-Pain-Pain
	3	Voice-Verbal Stimuli-Verbal Stimuli
	4	Spontaneous-Spontaneous
	/.	Not applicable
	?	Unknown

5.08 Referring Hospital GCS Voice

Identifying and definitional attributes

Definition The first recorded indication of the level of verbal response at the referring hospital.

.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at definitive care. Required for RTS and TRISS.

Representational attributes

Guide for use

If patient is intubated or is otherwise unable to respond by voice, record as '1' (no

response), and complete 5.11 and 7.01.

If voice response has not been recorded use Unknown.

If voice response cannot be reliably assessed, such as if a mute person is the patient,

record as Not Applicable.

Validation rules

Data type Number

?

Field size maximum	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response-No Response
	2	Incomprehensible words- Incomprehensible words, cries- Moans to pain
	3	Inappropriate words- Inappropriate words- Cries to pain
	4	Confused- Confused –Irritable, cries
	5	Oriented-Oriented –Coos, babbles
	/.	Not applicable

Unknown

5.09 Referring Hospital GCS Motor

Identifying and definitional attributes

Definition The first recorded indication of the level of motor response at the referring hospital.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at referring or definitive care. The GCS motor component alone may be useful as an independent predictor of outcome. Required

for RTS/TRISS.

Representational attributes

Guide for use

If patient is paralysed and/or sedated, record as 1 - No response, and complete 5.11.

If motor response has not been recorded use Unknown.

If motor response cannot be reliably assessed, such as if the patient is double

amputee, record as Not Applicable.

Validation rules

Data type	Number	
Field size maximum	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response-No Response
	2	Extension to pain- Extension to pain- Decerebrate posturing to pain
	3	Flexion to pain- Flexion to pain- Decorticate posturing to pain
	4	Withdraws to pain- Withdraws to pain- Withdraws to pain
	5	Localises pain- Localises painful stimulus–Withdraws to touch
	6	Obeys commands- Obeys commands- Moves spontaneously
	/.	Not applicable
	?	Unknown

5.10 Referring Hospital Total GCS

Identifying and definitional attributes

Definition The first recorded total Glasgow Coma Scale score at the referring hospital.

Justification Used in several scoring systems including TRISS and required for the assessment of

coma and impaired consciousness.

Representational attributes

Guide for use

If the total GCS is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 2

Data domain

Code
Description

3- 15
Total GCS

/.
Not applicable

?
Unknown

5.11 Referring Hospital Vital Sign Qualifiers

Identifying and definitional attributes

Definition Factors which may impact on vital signs and Glasgow Coma Scale score are recorded.

Justification To enable consistent analysis of vital sign measurements.

Representational attributes

Guide for use Of the following factors, record as many as are applicable at the time of

measurement.

Intubation (refer also to 7.01)

Sedation

Paralytic agents

Respiration assisted

Validation rules

Data type Text

Field size maximum 3

Data domain Code Description

Yes Factor is present

No Factor is not present

5.12 Date & Time of Departure from Referring Hospital

Identifying and definitional attributes

Definition The date and time patient departed from the referring hospital for transfer to the

definitive care hospital.

Justification Enables length of stay at referring hospital to be calculated.

Representational attributes

Guide for use

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

Validation rules Has to be completed if the following collected:

5.02 Referring Hospital (unless patient was taken direct to definitive care)

Must be greater than or equal to:

• 3.01 Date & Time of Injury

• 4.01 Date & Time of Observations at scene (if used)

• 5.03 Date & Time of Arrival at Referring Hospital

Must be less than or equal to:

• 6.01 Date & Time of Arrival at Definitive Care Hospital

Data type Date/Time

Field size maximum 13

Data domainValueDescriptiondd/mm/yyyyValid Date00:00Valid Time?Unknown

5.13 Mode of Transport to Definitive Care Hospital

Identifying and definitional attributes

Definition The type of transport by which the patient was transferred from either the referring

hospital (if applicable) or from the scene, to the definitive care hospital.

Justification To monitor patterns of transfer and mode of transportation used.

Representational attributes

Guide for use If a patient is transferred from the scene to the referring hospital in a road

ambulance but the mode of transport from the referring hospital to the definitive

care centre is not recorded, this should be coded as unknown

Validation rules

String
L
Code

Code	Description
1	Fixed-wing Air Ambulance
2	Helicopter Ambulance
3	Private/Public Vehicle/Taxi/Walk-in
4	Road Ambulance
5	Police/Prison vehicle/fire
6	Other
?	Unknown

6.01 Date & Time of Arrival at Definitive Care Hospital

Identifying and definitional attributes

Definition The date and time patient was first registered, triaged or assessed (whichever comes

first), at the definitive care hospital.

Justification Enables calculation of transfer time from referring hospital to definitive care hospital

(if applicable), time spent in ED, time to CT scan and time to operations and

procedures. This field is also required for length of stay calculation.

Representational attributes

Guide for use

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25th November 2011 should be reported as 25/11/2011 00:01

Validation rules

Must be greater than or equal to:

- 3.01 Date & Time of Injury
- 4.01 Date & Time of Observations at scene (if used)
- 5.03 Date & Time of Arrival at Referring Hospital (if used)
- 5.12 Date & Time of Departure from Referring Hospital (if used)

Must be less than or equal to

• 7.12 Date & Time of Discharge from Definitive Care

Data type Date/Time

Field size maximum 13

Data domain Valid Date and Time

dd/mm/yyyy Valid Date
00:00 Valid Time

6.02 Definitive Care Hospital Pulse

Identifying and definitional attributes

Definition The first recorded heart rate measured following arrival at the definitive care

hospital, measured as beats per minute

Justification Used as a proxy to assess injury severity.

Representational attributes

Guide for use If the person is in cardiac arrest at the time of first measurement, value 997 should

be used.

Record the pulse as it is regardless of any interventions (such as drugs) which could

potentially impact the pulse rate.

If the person's heart rate cannot be measured, code *Unknown*.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-300 Heart beats per minute

6.03 Definitive Care Hospital Systolic BP

Identifying and definitional attributes

Definition The first recorded systolic blood pressure measured following arrival at the definitive

care hospital, measured in mmHg.

Justification Used in several scoring systems including TRISS and is one assessment of patient

acuity.

Representational attributes

Guide for use If the systolic blood pressure is not or cannot be measured, *Unknown* should be

used.

Measurement protocol for resting blood pressure: The systolic blood pressure is one component of a routine blood pressure measurement (i.e. systolic/diastolic) and

reflects the maximum pressure to which the arteries are exposed.

Record the systolic blood pressure as it is, regardless of any interventions (such as

drugs) which could potentially impact the systolic blood pressure.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-300 Millimetres of mercury (mmHg)

6.04 Definitive Care Hospital Respiratory Rate

Identifying and definitional attributes

Definition The first recorded rate of respiration measured following arrival at the definitive care

hospital, measured in number per minute.

Justification Used in several scoring systems including TRISS and is one assessment of patient

acuity.

Representational attributes

Guide for use If the person is in respiratory arrest at the time of first measurement, value 997

should be used.

If the person has been intubated at the time of first measurement, use the ventilator

respiratory rate and complete 6.10 and 7.01.

If the respiratory rate is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-100 Number per minute

6.05 Definitive Care Hospital Temperature

Identifying and definitional attributes

Definition The first recorded body temperature measured following arrival at definitive care

hospital, measured in degrees Celsius.

Justification Useful in the measurement of a patient vital status. Very high and low temperatures

can be an indication of major physiologic compromise in an injured patient.

Hypothermia can present a significant management problem.

Representational attributes

Guide for use If the temperature is not or cannot be measured, unknown should be used.

Validation rules

Data type Number

Field size maximum 4

Data domain Value Description

20.0 – 50.0 Temperature in Degrees Celsius

6.06 Definitive Care Hospital GCS Eye

Identifying and definitional attributes

Definition The first recorded indication of the responsiveness to stimuli by eye opening at the

definitive care hospital.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at hospital. Required for RTS and TRISS.

Representational attributes

Guide for use If eye response cannot be reliably assessed, record as 'Unknown'

Not Applicable option only to be used in instances where the field is truly not

applicable, such as for blind patients.

Validation rules

Data type Number

Field size maximum 1

Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response
	2	Pain-Pain-Pain
	3	Voice-Verbal Stimuli-Verbal Stimuli
	4	Spontaneous-Spontaneous
	/.	Not applicable
	?	Unknown

6.07 Definitive Care Hospital GCS Voice

Identifying and definitional attributes

Definition The first recorded indication of the level of verbal response at the definitive care

hospital.

?

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at definitive care. Required for RTS and TRISS.

Representational attributes

Guide for use Not Applicable option only to be used in instances where the field is truly not

applicable, such as for mute patients.

If patient is intubated or is otherwise unable to respond by voice, record as '1' (no

response), and complete 6.10 and 7.01.

Data type	Number	
Field size maximum	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response-No Response
	2	Incomprehensible words- Incomprehensible words, cries- Moans to pain
	3	Inappropriate words- Inappropriate words- Cries to pain
	4	Confused - Irritable, cries
	5	Oriented-Oriented –Coos, babbles
	/.	Not applicable

Unknown

6.08 Definitive Care Hospital GCS Motor

Identifying and definitional attributes

Definition The first recorded indication of the level of motor response at the definitive care

hospital.

Justification GCS components are combined and used as an important component in a number of

outcome prediction models, and provide an indication of the patient's initial neurological status prior to arrival at referring or definitive care. The GCS motor component alone may be useful as an independent predictor of outcome. Required

for RTS/TRISS.

Representational attributes

Guide for use If patient is paralysed and/or sedated, record as 1 -No response, and complete 6.10.

Not Applicable option only to be used in instances where the field is truly not

applicable.

Validation rules

Data type	Number	
Field size maximum	1	
Data domain	Code	Description (Adult-Child-Infant)
	1	None-No Response
	2	Extension to pain- Extension to pain- Decerebrate posturing to pain
	3	Flexion to pain- Flexion to pain- Decorticate posturing to pain
	4	Withdraws to pain- Withdraws to pain- Withdraws to pain
	5	Localises pain- Localises painful stimulus–Withdraws to touch
	6	Obeys commands- Obeys commands- Moves spontaneously
	/.	Not applicable
	?	Unknown

6.09 Definitive Care Hospital Total GCS

Identifying and definitional attributes

Definition The first recorded total Glasgow Coma Scale score at definitive care hospital

Justification Used in several scoring systems including TRISS and required for the assessment of

coma and impaired consciousness.

Representational attributes

Guide for use If the total GCS is not or cannot be measured, *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 2

Data domain

Code
Description

3- 15
Total GCS

/.
Not applicable

?
Unknown

6.10 Definitive Hospital Vital Sign Qualifiers

Identifying and definitional attributes

Definition Factors which may impact on vital signs and Glasgow Coma Scale score.

Justification To enable consistent analysis of vital sign measurement.

Representational attributes

Guide for use Of the following factors, record as many as are applicable at the time of

measurement.

Intubation

Sedation

Paralytic agents

Respiration assisted

Validation rules

Data type Text

Field size maximum 3

Data domain Code Description

Yes Factor is applicable

No Factor is not present

6.11 Trauma Call on arrival

Identifying and definitional attributes

Definition Whether or not the patient had a trauma response (Trauma Call) activated at the

first hospital (whether referring or definitive care hospital) within 30 minutes of patient's arrival. Trauma Calls outside of 30 minutes of patient arrival are not

recorded as a trauma call as it does not denote a timely response.

Justification A trauma response generates the resource availability allowing the efficient and

effective assessment and initial treatment of a major trauma patient. Ideally all major trauma patients should be admitted with a trauma response and the

percentage that do is a KPI for the Major Trauma Network.

Representational attributes

Guide for use Should be completed using whatever evidence available that this occurred (e.g.

ambulance run sheet, ED record, telephonists log, and medical notes).

Validation rules Must be recorded as Y or N or unknown or not applicable

Data type String

Field size maximum 1

Data domain Code Description
1 No

2 Yes

? Unknown

/. Not applicable

6.12 Blood Alcohol Concentration on Arrival

Identifying and definitional attributes

Definition The first blood alcohol concentration result recorded at the first presenting hospital

(whether referring or definitive care hospital), measured in mmolL⁻¹.

Justification Alcohol affects the Glasgow Coma Scale.

Representational attributes

Guide for use Must be taken within 6 hours of arrival at the first hospital. If outside of this time,

record as unknown

If the blood alcohol concentration is not or cannot be measured, Unknown should be

used.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

0-120 Blood alcohol concentration (mmolL⁻¹)

6.13 First Measured Venous Base Excess

Identifying and definitional attributes

Definition The first recorded venous base excess recorded at the first presenting hospital

(whether referring or definitive care hospital), measured in mmolL-1.

Justification Clinical assessment of patient's condition on arrival at definitive care hospital which

may indicate the need for additional treatment. Identify complication of trauma.

Representational attributes

Guide for use Must be taken within 6 hours of arrival at the first hospital. If outside of this time,

record as Unknown.

If the venous base excess is not or cannot be measured, *Unknown* should be used.

Use venous result only. If arterial base excess is known, but not venous, value

Unknown should be used.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

-30 to 30 Venous base excess value (mmolL⁻¹)

6.14 First Measured INR

Identifying and definitional attributes

Definition The first recorded prothrombin time INR recorded at the first presenting hospital

(whether referring or definitive care hospital).

Justification Clinical assessment of patient's condition on arrival at definitive care hospital which

may indicate the need for additional treatment. Identify complication or

comorbidity.

Representational attributes

Guide for use Must be taken within 6 hours of arrival at the first hospital. If outside of this time,

record as Unknown

If the INR is not or cannot be measured, value *Unknown* should be used.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

2.0 – 3.0 INR value

6.15 Date & Time Index CT Performed

Identifying and definitional attributes

Definition The date and time the person received the first CT scan, if within 24 hours of injury,

Justification Represents the time required to initiate key diagnostic tests, and may be seen as a

measure of the efficiency of the trauma system.

Representational attributes

Guide for use Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

Validation rules Must be greater than or equal to:

• 3.01 Date & Time of Injury

• 4.01 Date & Time of Observations at scene (if used)

Must be less than or equal to:

24 hours exceeding 3.01 Date & Time of Injury

7.12 Date & Time of Discharge from Definitive Care

Data type Date/Time

Field size maximum 13

Data domain Valid Date and Time

dd/mm/yyyy Valid Date
00:00 Valid Time

6.16 ED Discharge Date & Time

Identifying and definitional attributes

Definition The date and time patient left the emergency department at the definitive care

hospital, or (if dying in the emergency department) the time of death.

Justification Calculation of total length of ED stay at the definitive care hospital.

Representational attributes

Guide for use Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

If a patient is a direct admission and goes directly to another area in the hospital on

hospital arrival (such as ICU or OR), this should be the same as:

• 6.01 Date & Time of Arrival at Definitive Care Hospital

Validation rules Unless patient died in ED, must be greater than or equal to:

• 6.01 Date & Time of Arrival at Definitive Care Hospital

Unless patient died in ED, must be less than or equal to:

• 7.12 Date & Time of Discharge from Definitive Care

Data type Date/Time

Field size maximum 10 + 5

Data domain Valid Date and Time

dd/mm/yyyy Valid Date
00:00 Valid Time
? Unknown

/. Not applicable

6.17 Disposition After ED

Identifying and definitional attributes

Definition The first location for which the patient departed on leaving the emergency

department at the definitive care hospital.

Justification To monitor the status and location of patients on departure from the ED.

Representational attributes

Guide for use If a patient is a direct admission and goes directly to another area in the hospital on

hospital arrival (such as ICU or OR), code the unit or department where the patient

was admitted to.

If the patient goes home after ED they do not meet the inclusion criteria, and should

not be submitted to the NZTR.

If a patient goes for an X-ray from ED this does not count as a discharge from ED and

the location they are disposed to following the X-ray should be recorded

Validation rules

Data type Number

Field size maximum 1

Data domain	Code	Description
	1	Ward
	2	Intensive Care Unit (ICU)
	3	High Dependency Unit (HDU)
	4	Operating Room (OR)
	5	Death in ED
	?	Unknown

6.18 Activation of critical bleeding bundle

Identifying and definitional attributes

Definition Whether or not the patient had a critical haemorrhage protocol activated within 30

minutes of arrival at the first hospital. The definition of a critical bleeding bundle is a

formal process to accelerate the treatment pathway for patients with critical haemorrhage, appropriate to the size of hospital and resources. It is not the

activation of the Massive Transfusion Protocol (MTP) on its own, although the MTP

may be activated as part of the bundle

Justification Represents a quality measure to identify a hospital response to critical haemorrhage

Representational attributes

Guide for use Use Yes if the bundle has been activated. Use No if the hospital does not have a

protocol in place, or if the bundle was not activated. Only use Unknown if activation

was not known.

Validation rules

Data type Number

Field size maximum 1

Code Description **Data domain** 1

Yes

2 No

6.19 Post-Traumatic Amnesia (PTA) Assessment

Identifying and definitional attributes

Definition Whether or not the patient has been assessed for PTA using a validated tool prior to

discharge from definitive care hospital. Assessment should be done at the earliest possibility when the patient is conscious and can communicate. There are several validated tools which can be used to assess PTA such as the Abbreviated Westmead

PTA assessment.

Justification Systematic assessment for post-traumatic amnesia after an injury is important to

identify patients who are at risk of long-term complications, and to allow referral to

appropriate services.

Representational attributes

Guide for use Use Yes if a PTA assessment has been done.

Use No if PTA assessment was not done

Use Unknown if it is not known whether the patient had a PTA assessment.

Validation rules None

Data type Number

Field size maximum 12

Data domain Value Description

Yes PTA assessment done

No PTA assessment not done

Unknown Unknown

7.01 Patient Intubated?

Identifying and definitional attributes

Definition Whether the person was intubated before or within 6 hours of arrival at the first

hospital, (whether this is the referring or definitive care hospital).

Justification Identifies patients requiring definitive airway management and may be used in the

evaluation of quality of care.

Representational attributes

Guide for use This field is designed to capture patients who require intubation for airway

> management, rather than those requiring intubation for the administration of anaesthesia prior to surgery; thus only those intubated before or within 6 hours of arrival at the first hospital are recorded and the location of this intubation is also

recorded to provide context for the purpose of intubation.

Patients who have been intubated and extubated for the sole purpose of anaesthesia

for an operative procedure are recorded as 1-No.

Validation rules

Data type String

Field size maximum 1

Data domain	Code	Description
	1	No
	2	Yes: Pre-hospital
	3	Yes: Emergency Department (at either referring or definitive care hospital)
	4	Yes: ICU (at either referring or definitive care hospital)
	5	Yes: Operating Room (at either referring or definitive care hospital)
	6	Yes: Other
	?	Unknown

7.02 Date & Time Patient Intubated

Identifying and definitional attributes

Definition The date and time patient was first intubated if intubated before or within 6 hours of

arrival at the first treating hospital.

Justification To calculate time to intubation; to establish whether the patient was intubated at

the time of scene, referring hospital or definitive care hospital arrival.

Representational attributes

Guide for use

Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

Validation rules

Must be greater than or equal to:

3.01 Date & Time of Injury

Must be less than or equal to:

7.12 Date & Time of Discharge from Definitive Care

Data type Date/Time

Field size maximum 13

Data domainValueDescriptiondd/mm/yyyyValid Date

dd/mm/yyyy Valid Date
00:00 Valid Time

7.03 Emergency Operative Procedures

Identifying and definitional attributes

Definition Emergency operative intervention for life threatening or potentially life threatening

conditions undertaken within 24 hours of arrival at hospital, whether that is a

referring hospital or definitive care hospital.

Justification Used to characterise procedures used to treat specific injury types to enable analysis

of triage and treatment.

Representational attributes

Guide for use Limited to immediate interventions for severe or potentially severe injuries only,

including: thoracotomy, craniotomy, laparotomy or interventional radiology

procedures to stop bleeding.

Validation rules Must be completed 2,3,4 if 7.04 Operation Date & Time completed

Data type String

Field size maximum 3

Data domain Code Description

Blank No operation or none of the following procedures performed

3841800 Thoracotomy

3960000 Craniotomy

3037300 Laparotomy

35321-10 Interventional radiology

7.04 Date & Time for Each Emergency Procedure

Identifying and definitional attributes

Definition The date and time emergency procedures are undertaken.

Justification Allows time to each emergency procedure to be calculated.

Representational attributes

Guide for use Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

Start time is the time anaesthesia is administered.

Validation rules Must be greater than or equal to:

• 3.01 Date & Time of Injury

Must be less than or equal to:

• 7.12 Date & Time of Discharge from Definitive Care

Must be less than or equal to 24 hours after:

 Date and Time of 5.02 Referring Hospital Arrival if applicable, if no Referring Hospital exists then 6.01 Date and Time of Definitive Care Hospital Arrival

Data type Date/Time

Field size maximum 20+

Data domain Value Description

dd/mm/yyyy Valid Date

00:00 Valid Time

7.05 AIS Injury Codes

Identifying and definitional attributes

Definition The assigned Abbreviated Injury Scale anatomical scoring codes for each injury

sustained by the patient.

Justification The main purpose is to calculate the overall injury severity of the patient which can

be used for TRISS and outcome analysis.

Representational attributes

Guide for use Abbreviated Injury Scale codes AIS 2015.

AIS codes can be entered by numerical values if available or by detailed description

search.

Validation rules

Data type String

Field size maximum 8

Data domain AIS 2015

7.06 Injury Severity Score

Identifying and definitional attributes

Definition The calculated Injury Severity Score based on the entered Abbreviated Injury Scale

codes at discharge. ISS is an anatomical scoring system that provides an overall score

for patients with multiple injuries.

Justification To determine severity of injury for trauma patients. Used to characterise patients

and hospital outcomes based upon the presence, severity and type of injury.

Representational attributes

Guide for use This is automatically calculated on the Registry.

A non-zero integer number calculated based on AIS codes. If AIS codes are available, this will be derived as a calculated field

If an injury is assigned an AIS severity of 6

(non-survivable injury), the ISS score is automatically assigned 75.

Validation rules

Data type Number

Field size maximum 2

Data domain Code Description

1 - 75 ISS codes

7.07 Number of Hours on Ventilator

Identifying and definitional attributes

Definition The total number of hours on which mechanical ventilation was used

Justification Ventilation hours is a key metric in trauma care, and long periods of ventilation

increase risk of complications, such as Ventilator-Associated Pneumonia, and may

lead to potentially poorer outcomes.

.

Representational attributes

Guide for use Include use of mobile ventilators during transport.

When a patient is on a ventilator and remains so during an operation, this time will

be included.

Validation rules

Data type Number

Field size maximum 3

Data domain Value Description

7.08 Total Length of Stay

Identifying and definitional attributes

Definition The total number of hospital days spent in referring, definitive and post-definitive

care acute hospitals from date of first admission to date of discharge or death,

measured in days.

Justification Length of stay can be associated with increased risk of complications and poorer

outcomes. Length of stay also reflects the use of hospital resources.

Representational attributes

Guide for use This is automatically calculated on the registry.

Validation rules

Data type Number

Field size maximum 5

Data domain Value Description

1-400.00 Valid days – this is automatically calculated on the Registry

7.09 Length of ICU Stay

Identifying and definitional attributes

Definition The total number of hospital hours spent in the Intensive Care Unit (ICU) across the

referring, definitive, and post-definitive acute care hospitals.

Justification An important measure of the patient care process.

Representational attributes

Guide for use Calculated length of hours stay in the intensive care unit at the referring, definitive,

and post-definitive care hospitals.

Length of ICU stay ends on discharge from ICU.

Length of stay includes first admission and any readmissions.

Validation rules

Data type Number

Field size maximum 6

Data domain Value Description

dd/mm/yyyy Valid Start Date
00:00 Valid Start Time
dd/mm/yyyy Valid Stop Date
00:00 Valid Stop Time

Once the modification to the Registry is done this will change to a single field for hours.

7.10 Tertiary Survey at Definitive Care Hospital

Identifying and definitional attributes

Definition Whether or not the patient had a tertiary survey at the definitive care hospital

Justification A tertiary survey is a re-evaluation of the patient and available investigations at a

point more than 24 hours after admission. It is best undertaken using a proforma (as the initial assessment is) agreed by the Trauma clinicians. There is evidence that approximately 10% of major trauma patients have additional findings at this point evident on clinical examination or definitive radiology reports and a small number of those require specific actions that would not have otherwise been taken. Ideally all major trauma patients should have a tertiary survey and the percentage that do is a

Key Performance Indicator for the Major Trauma Network.

Representational attributes

Guide for use Should be completed using whatever evidence available that this occurred (e.g.

completed proforma, or annotation in the clinical notes).

Validation rules

Data type String

Field size maximum 1

Data domain Code Description

1 No

2 Yes

? Unknown

/. Not applicable

7.11 Diagnosis Made >48 hours After Arrival?

Identifying and definitional attributes

Definition Whether a specified injury with an AIS ≥ 2 was diagnosed more than 48 hours after

arrival at the first hospital and after tertiary survey and radiology reports reviewed.

Justification Represents a quality measure to identify injuries which should have been identified

but were not.

Representational attributes

Guide for use

Validation rules

Data type

Number

Field size maximum

1

Data domain

Code

Pescription

1

Yes

2

No

7.12 Discharge Destination from Acute Care

Identifying and definitional attributes

Definition The location to which the patient was discharged from acute care in the definitive

care hospital.

Justification To determine the outcome status of patients.

Representational attributes

Guide for use
If the patient is discharged back to the usual or original place of residence such as a

nursing home, aged care facility or special accommodation, code 1 – Home

Validation rules

Data type Number

Field size maximum 2

Data domain	Code	Description
	1	Home
	2	Rehabilitation
	3	Residential aged care service or nursing home - not the usual place of residence
	4	Special accommodation (includes prisons, hostels and group homes providing primarily welfare services) that is not the usual place of residence
	5	Hospital for convalescence
	6	Left against medical advice/discharge at own risk
	7	Death
	8	Other
	?	Unknown
	X	Hospital for ongoing acute care

7.13 Date & Time of Discharge from Definitive Care

Identifying and definitional attributes

Definition The date and time patient was discharged from the definitive care hospital, or (if

died in hospital) the time of death.

Justification To calculate length of stay at the definitive care hospital.

Representational attributes

Guide for use Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

It is the date of separation from the definitive care hospital.

If not collected, can be concatenated if the following data is collected at the

definitive care hospital:

• Episode of admitted patient care - separation date (METeOR ID: 270025)

• Episode of admitted patient care - separation time (METeOR ID: 270026)

Validation rules Must be greater than or equal to:

• Date & Time of Arrival at Definitive Care Hospital

• ED Discharge Date & Time

Data type Date/Time

Field size maximum 13

Data domain Valid Date and Time

7.14 Type of Death

Identifying and definitional attributes

Definition The clinical cause of death

Justification

Representational attributes

Guide for use If a patient dies following admission to either the referring or definitive care hospital

prior to hospital discharge the type of death should be recorded.

Validation rules

Data type Number

Field size maximum 2

Data domain	Code	Description
	1	Central Nervous System (CNS)
	2	Multiply Organ Failure (MOF)
	3	Medical
	4	Haemorrhage: Chest
	5	Haemorrhage: Abdomen
	6	Haemorrhage: Pelvis
	7	Haemorrhage: Unspecified
	?	Unknown

7.15 Post-definitive acute care hospital

Identifying and definitional attributes

Definition The identifier for the establishment or establishments from which the person was

transferred to post-definitive care hospital. Each hospital code will align to the

Ministry of Health Hospital Code.

Justification To identify the post-definitive acute care health service providers for patient

tracking.

Representational attributes

Guide for useThis field should be completed if the patient is discharged from the definitive care

hospital to another hospital for ongoing acute care. Do not use if the patient was transferred to another hospital for rehabilitation or convalescence or other reasons

where acute care is not needed.

Validation rules If 7.12 discharge from definitive hospital recorded as Hospital for ongoing acute care,

must be recorded with the name of the hospital the patient is transferred to

Data type String

Field size maximum

Data domain Code Description

Refer to 1.01 for hospital codes

7.16 Date & Time of Discharge from post-definitive acute care hospital

Identifying and definitional attributes

Definition The date and time patient was discharged from the post-definitive care hospital, or

(if died in hospital) the time of death.

Justification To calculate length of stay through the acute journey of care.

Representational attributes

Guide for use Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not

accepted). Example, midnight 25th November 2011 should be reported as

25/11/2011 00:01

It is the date of discharge from the post-definitive acute care hospital.

Validation rules Must be greater than or equal to:

• Date & Time of discharge from Definitive Care Hospital

Data type Date/Time

Field size maximum 13

Data domain Valid Date and Time