

New Zealand

Major Trauma National Minimum Dataset

National Trauma Network

Core Items

Version 1.8

January 2022

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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 Tertiary survey Trauma team activation Inclusion of first, last name in line with practice.
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: Sex for 'gender diverse' D/T observations at referral and definitive care hospital changed to "arrival'
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

Background

In June 2012 the Ministry of Health and the Accident Compensation Corporation established and jointly funded the Major Trauma National Clinical Network (the 'Network'). The role of the Network is to establish a contemporary trauma system that assures a planned and consistent approach to the provision of major trauma services across New Zealand. The Network has membership from nominated sector representatives across a range of clinical disciplines and relevant organisations. A key objective of the Network is to lead the development and implementation of a national major trauma database, the New Zealand Trauma Registry (NZTR).

In 2013 a data subcommittee was convened to assist in the specifications and data components of NZTR. With this foundation in place and the addition of subsequent revisions, this document reports the fields to be 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, DHB 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.

This updated version of the National Trauma Minimum Dataset has been endorsed by the NZTR Data Governance Group, and the National Trauma Operations Group.

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 largest hospital the patient has been managed in. This is usually a tertiary hospital that is able to provide leadership and total care for most aspects of the injury.

However, if a patient has been transferred from one tertiary hospital to another, then the last tertiary hospital is the definitive care hospital. This is expected to be an exception.

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.

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 2005 Update 2008) 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
 <u>see here</u>.
- 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 Ministry of Health 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.

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		
Data domain	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

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: <u>http://www.health.govt.nz/nz-health-statistics/data-references/code-tables/common-code-tables/facility-code-table</u>

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;

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-healthconsumers/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.

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.

JustificationCollected for administrative purposes, to assist in individual identification and for
derivation of age in demographic analyses.

Guide for use	If date of birth is not known or cannot be obtained, <i>Unknown</i> 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 othe	r 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 useAge 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

Identifying and definitional attributes

DefinitionThe biological distinction between male and female.JustificationCollected to determine sex specific treatment. It is also a core element in a wide
range of social, labour and demographic statistics.

Guide for use Validation rules	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
	1	Male
	2	Female
`	3	Not known
	4	Gender diverse

2.04 Ethnicity

Identifying and definitional attributes

Definition	As defined by the Ministry of Health, 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.

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 (1). This protocol allows for multiple levels of recording (1-4 with level 4 being the most specific). The NZTR requires coding at level 2 as a minimum, as per the protocol requirements. The data domain provided is for level 2 coding. A maximum of two ethnicities may be recorded.	
Validation rules		
Data type	String	
Field size maximum	4 (2+2)	
Data domain	Code	Description
	1.	European not further defined
	2.	NZ European / Pakeha
	3.	Other European
	4.	Maori
	5.	Pacific Island not defined
	6.	Samoan
	7.	Cook Island Maori
	8.	Tongan
	9.	Niuean
	10.	Tokelauan
	11.	Fijian
	12.	Pacific Indian

- 13. Pacific Islander
- 14. Other Pacific
- 15. Asian not further defined
- 16. South East Asian
- 17. Chinese
- 18. Indian
- 19. Other Asian
- 20. Middle Eastern
- 21. Latin American/Hispanic
- 22. African
- 23. Other
- 24. Sri Lankan
- ? Unknown
- /. Not stated

(1) Ministry of Health. 2004. *Ethnicity Data Protocols for the Health and Disability Sector*. Wellington: Ministry of Health

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

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 redundant

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.

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 redundant

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 evaluate the		
	trauma system.		

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

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

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

DefinitionThe date and time the person received the injuries requiring hospitalisation.JustificationTo 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.

Guide for use	If time is not accurately known, the best estimate should be used.			
	-	be entered as 00:01 of the following date (00:00 and 24:00 are not le, midnight 25 th November 2011 should be reported as 25/11/11		
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	2.01 Date of Birth		
Data type	Date and Time			
Field size maximum				
Data domain	Value	Description		
	dd/mm/yyyy	Valid 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.

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).

Guide for use		most instances, determination of the dominant injury type will be based on the echanism of injury, and relate directly to:		
		nerally occur from mechanisms such as motor vehicle collisions, cts, falls and sports injuries.		
	component of in lacerations from This excludes clo	ies require skin penetration by an external force as the principal jury. Examples include stab and gunshot wounds, bomb fragments, a single sharp instrument, glass-related injuries and impalements. sed contusions, compound fractures where the bone breaks the s compound fractures where an external object travels through the bone.		
	as flames, hot su	caused by exposure to electrical, thermal or corrosive agents such bstances, chemicals or radiation. Examples include situations where imarily 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 Descript			
	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, <i>Unknown</i> should be used. For example if the injury occurred somewhere in Auckland but the domicile code cannot be approximated, <i>Unknown</i> 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 <i>Not Applicable</i> should be used.		
Validation rule			
Data type	Number		
Field size maximum	4		
Data domain	Value	Description	
		Valid domicile code	

Unknown /. Not applicable

?

The MoH provides software to DHBs 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	
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.

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.	
	Data domain described as per ICD-10-AM International Statistical Classification of Diseases and Related data element Health Problems, Australian Modification	
Validation rules		
Data type	String	
Field size maximum	1	
Data domain	Value	Meaning
	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
	Y92.7	Farm
	Y92.88	Other specified place of occurrence
	Y92.99	Unspecified place

3.07 Activity Engaged in when Injured

Identifying and definitional attributes

DefinitionThe type of activity the person was engaged in at the time of the trauma event.JustificationTo 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.	
	"travel", so if a pe should be docum income), or on ho professional rugb	per of subtleties in this coding system. Firstly there is no option for erson is injured in a road traffic accident the reason for their travel ented; were they travelling to/for work (code as while working for oliday (code as engaged in sports or leisure).Further, if a y player is injured while playing rugby (and working for an income), ed 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 useText 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

Definition

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

Justification

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.

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

Validation rules

/. Not applicable? Not stated/inadequately described

4.01 Date & Time of Observations at Scene

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 25 th 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 <i>Not Applicable</i> . It is likely that if any of the scene fields (4.01-4.08) are recorded as <i>Not Applicable</i> , that this field should also be recorded as <i>Not Applicable</i> . Further, if any scene field is recorded as anything other than <i>Not Applicable</i> , it is likely that none of the scene fields should be recorded as <i>Not Applicable</i> (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as <i>Not Applicable</i> , yet all other scene fields are applicable).
Validation rules	Must not be completed as <i>Not Applicable</i> if <i>any</i> Scene Observations (4.02-4.08) completed.
	Must not be completed as <i>Not Applicable</i> 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

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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.

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 <i>Not Applicable</i> . If 4.01 Date & Time of Observations at Scene recorded as <i>Not Applicable</i> , then should be recorded as <i>Not Applicable</i> . It is likely that if any of the scene fields (4.01-4.08) are recorded as <i>Not Applicable</i> , that this field should also be recorded as <i>Not Applicable</i> . Further, if any scene field is recorded as anything other than <i>Not Applicable</i> , it is likely that none of the scene fields should be recorded as <i>Not Applicable</i> (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.		

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 <i>Not Applicable</i> . If 4.01 Date & Time of Observations at Scene recorded as <i>Not Applicable</i> , then should be recorded as <i>Not Applicable</i> . It is likely that if any of the scene fields (4.01-4.08) are recorded as <i>Not Applicable</i> , that this field should also be recorded as <i>Not Applicable</i> . Further, if any scene field is recorded as anything other than <i>Not Applicable</i> , it is likely that none of the scene fields should be recorded as <i>Not Applicable</i> , it is likely that none of the scene fields should be recorded as <i>Not Applicable</i> . 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, <i>Unknown</i> 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)	
	/.	Not applicable	
	?	Unknown	

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.

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 <i>Not Applicable</i> . If 4.01 Date & Time of Observations at Scene recorded as <i>Not Applicable</i> , then should be recorded as <i>Not Applicable</i> . It is likely that if any of the scene fields (4.01-4.08) are recorded as <i>Not Applicable</i> , that this field should also be recorded as <i>Not Applicable</i> . Further, if any scene field is recorded as anything other than <i>Not Applicable</i> , it is likely that none of the scene fields should be recorded as <i>Not Applicable</i> , (exceptions exist, for example if a blind person is the patient 4.05 Scene GCS Eye may be recorded as <i>Not Applicable</i> , 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

DefinitionThe first recorded indication of the responsiveness to stimuli by eye opening at the
scene of trauma.JustificationGCS 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	
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-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	
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

4.07 Scene GCS Motor

Identifying and definitional attributes

DefinitionThe first recorded indication of the level of motor response at the scene of trauma.JustificationGCS 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*, it is likely that none of the scene fields should be recorded as *Not Applicable*. 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-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

DefinitionThe first recorded total Glasgow Coma Scale score at the scene of trauma.JustificationUsed in several scoring systems and required for the assessment of coma and
impaired consciousness.

Representational attributes

Guide for useFirst 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 useIf 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
	/.	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.

Guide for use	the definitive hos patient journey. I identity and relev	uide for Use, this data dictionary is designed to be completed by spital, allowing capture of all treatment and patient care along the t is the responsibility of the definitive care hospital to capture the vant information recorded at a referring hospital for submission to stry, including the fields related to "first hospitals" 6.10-6.13.
	•	pre than one Referring Hospital. The data from each referring entered into the registry as a new facility tab.
Validation rules	If 5.02 Date & Tin be recorded as N	ne of Arrival at Referring Hospital recorded as Not Applicable, must ot Applicable.
Data type	String	
Field size maximum		
Data domain	Code	Description
	Refer to 1.01 for hospital codes	
	?	Unknown

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

Validation rulesIf 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 Injury4.01 Date & Time of Observations at scene (if applicable)Must be less 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:
• 4.01 Date & Time of Observations at scene (if applicable) Must be less than or equal to:
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 domain Value Description
dd/mm/yyyy Valid 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.

Guide for use		
	If the person is in be used.	cardiac arrest at the time of first measurement, value 997 should
	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
	?	Unknown

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.

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, <i>Unknown</i> 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)	
	?	Unknown	

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	
	?	Unknown	

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.

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	
	?	Unknown	

5.07 Referring Hospital GCS Eye

Identifying and definitional attributes

DefinitionThe first recorded indication of the responsiveness to stimuli by eye opening at the
referring hospital.JustificationGCS 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-Spontaneous
	/.	Not applicable
	?	Unknown

5.08 Referring Hospital GCS Voice

Identifying and definitional attributes

Definition	The first rec	The first recorded indication of the level of verbal response at the referring hospital.		
Justification	outcome pro	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 at	tributes			
Guide for use				
	•	intubated or is otherwise unable to respond by voice, record as '1' (<i>no</i> nd complete 5.11 and 7.01.		
	If voice resp	onse 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

DefinitionThe first recorded indication of the level of motor response at the referring hospital.JustificationGCS 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

DefinitionThe first recorded total Glasgow Coma Scale score at the referring hospital.JustificationUsed in several scoring systems including TRISS and required for the assessment of
coma and impaired consciousness.

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

Yes

No

?

Identifying and definitional attributes

DefinitionFactors which may impact on vital signs and Glasgow Coma Scale score are recorded.JustificationTo 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.	
	• Intubat	ion (refer also to 7.01)
	• Sedatio	n
	 Paralyt 	ic agents
	• Respira	tion assisted
Validation rules		
Data type	Text	
Field size maximum	3	
Data domain	Code	Description

Factor is present

Unknown

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.

Guide for use			
	Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25 th November 2011 should be reported as 25/11/2011 00:01		
Validation rules	Has to be comple	ted if the following collected:	
	• 5.02 Referring Hospital (unless patient was taken direct to definitive care)		
	Must be greater t	han or equal to:	
	 3.01 Date & Time of Injury 4.01 Date & Time of Observations at scene (if used) 		
	• 4.01 Date 8	k Time of Observations at scene (if used)	
	• 5.03 Date &	k Time of Arrival at Referring Hospital	
	Must be less than	or equal to:	
	• 6.01 Date 8	k Time of Arrival at Definitive Care Hospital	
Data type	Date/Time		
Field size maximum	13		
Data domain	Value	Description	
	dd/mm/yyyy	Valid Date	
	00:00	Valid 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 useIf 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		
Data type	String	
Field size maximum	1	
Data domain	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.

Guide for use	Guid	е	for	use
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	Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25 th November 2011 should be reported as 25/11/2011 00:01		
Validation rules	Must be greater than or equal to:		than or equal to:
	•	3.01 Da	te & Time of Injury
	•	4.01 Da	te & Time of Observations at scene (if used)
	٠	5.03 Da	te & Time of Arrival at Referring Hospital (if used)
	٠	5.12 Da	te & Time of Departure from Referring Hospital (if used)
	Must be less than or equal to		or equal to
	•	7.12 Da ⁻	te & Time of Discharge from Definitive Care
Data type	Date/Time		
Field size maximum	13		
Data domain	Valid Date and Time		me
	dd/mm/	⁄уууу	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.

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	
	2	Unknown	

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.

Guide for use	If the systolic blood pressure is not or cannot be measured, <i>Unknown</i> 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)	
	?	Unknown	

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.

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	
	?	Unknown	

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 attributesGuide for useIf the temperature is not or cannot be measured, unknown should be used.Validation rulesValueData typeNumberField size maximum4Data domainValueValueDescription20.0 – 50.0Temperature in Degrees Celsius?Unknown

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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.

Guide for use	If eye response cannot be reliably assessed, record as 'Unknown'		
	<i>Not Applicable</i> 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-No Response	
	2	Pain-Pain-Pain	
	3	Voice-Verbal Stimuli-Verbal Stimuli	
	4	Spontaneous-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 useNot 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- 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.

Guide for use	If patient is paralysed and/or sedated, record as 1 -No response, and complete 6.10.		
	<i>Not Applicable</i> 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-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

DefinitionThe first recorded total Glasgow Coma Scale score at definitive care hospitalJustificationUsed in several scoring systems including TRISS and required for the assessment of
coma and impaired consciousness.

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.

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

Code	Description
Yes	Factor is applicable
No	Factor is not present
?	Unknown

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.

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.	

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, <i>Unknown</i> should be used.		
Validation rules			
Data type	Number		
Field size maximum	3		
Data domain	Value	Description	
	0-120	Blood alcohol concentration (mmolL ⁻¹)	
	?	Unknown	

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.

Guide for use	Must be taken within 6 hours of arrival at the first hospital. If outside of this time, record as <i>Unknown</i> .			
	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 <i>Unknown</i> 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)		
	?	Unknown		

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.

Guide for use	Must be taken within 6 hours of arrival at the first hospital. If outside of this time, record as <i>Unknown</i>		
	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	
	?	Unknown	

6.15 Date & Time Index CT Performed

Identifying and definitional attributes

DefinitionThe date and time the person received the first CT scan, if within 24 hours of injury,JustificationRepresents the time required to initiate key diagnostic tests, and may be seen as a
measure of the efficiency of the trauma system.

Guide for use	Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25 th November 2011 should be reported as 25/11/2011 00:01			
Validation rules	Must be greater than or equal to:			
	• 3.01 Da	te & Time of Injury		
	• 4.01 Da	4.01 Date & Time of Observations at scene (if used)		
	Must be less than or equal to:			
	• 24 hour	24 hours exceeding 3.01 Date & Time of Injury 7.12 Date & Time of Discharge from Definitive Care		
	• 7.12 Da			
Data type	Date/Time			
Field size maximum	13			
Data domain	Valid Date and Time			
	dd/mm/yyyy	Valid Date		
	00:00	Valid Time		
	?	Unknown		

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.		

Guide for use	Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25 th 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 8	6.01 Date & Time of Arrival at Definitive Care Hospital		
Validation rules	 In 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.		

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 useUse 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	
Data domain	Code	Description
	1	Yes
	2	No
	?	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 useThis 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

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
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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	Date/Time		
Field size maximum	13			
Data domain	Value	Description		
	dd/mm/yyyy	Valid Date		
	00:00	Valid Time		
	?	Unknown		

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.

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	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.

Guide for use	Midnight should be entered as 00:01 of the following date (00:00 and 24:00 are not accepted). Example, midnight 25 th November 2011 should be reported as 25/11/2011 00:01	
	Start time is the t	ime anaesthesia is administered.
Validation rules	Must be greater t	han or equal to:
	• 3.01 Date 8	a 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:	
		me of 5.02 Referring Hospital Arrival if applicable, if no Referring ists 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.

Guide for use	Abbreviated Injury Scale codes AIS 2005 Update 2008.	
	If earlier AIS versions are used, these codes will need to be mapped to the comparable 2008 AIS estimates.	
	AIS codes can be entered by numerical values if available or by detailed description search. Codes can also be auto-populated by using the Tri-Code Injury section.	
	Tri-code and coding section can be used together, but once coding section utilised you cannot further enter through Tri-code without losing coding section information.	
	If the Tri-code section is not used manual entry of AIS codes can occur here.	
Validation rules		
Data type	String	
Field size maximum	8	
Data domain	AIS 2005 Update 2008 codes	

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.

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

DefinitionThe total number of hours on which mechanical ventilation was usedJustificationVentilation 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 be included.	s on a ventilator and remains so during an operation, this time will
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 automatic	ally 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	
	?	Unknown	

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	and post-definitiv Length of ICU stay	of hours stay in the intensive care unit at the referring, definitive, we care hospitals. y ends on discharge from ICU. cludes 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.

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 \geq 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.

Guide for use		
Validation rules		
Data type	Number	
Field size maximum	1	
Data domain	Code	Description
Data domain	Code 1	Description Yes
Data domain		-

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.

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
	Х	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.		

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

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.

Guide for use	hospital to anoth	be completed if the patient is discharged from the definitive care er hospital for ongoing acute care. Do not use if the patient was other hospital for rehabilitation or convalescence or other reasons e 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	
	?	Unknown

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.

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