



MONASH
University



Data Dictionary
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Victorian State Trauma Registry & Victorian Orthopaedic Trauma Outcomes Registry

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0 General Methodology and Inclusion criteria

This data dictionary defines each of the items on which data is collected for the Victorian State Trauma Registry (VSTR) and the Victorian Orthopaedic Trauma Outcomes Registry (VOTOR) and provides information on how the required data is sourced and entered in the database. The dictionary consists of a contents page that groups data items according to data that is collected from same source and refers to a particular phase of patient's acute care. The main text document provides detailed information about each data item using the following format:

Dataset

Content	A summary of the content of the dataset.
Collected by	The organisation that routinely reports the dataset.
Collected for	Patients for which the dataset is collected.
Data Source	Where the dataset can be obtained.
Database Location	Location(s) (table name) in the database where the data is stored.

Data Item

Specification

Definition	A definition of the item on which data is collected.
Database name	The name given to the item within the database. This name does not start with a number or include spaces.
Collection	Whether the data item is Mandatory, Conditional, Optional or Calculated from other data items.
Data type	Type of data to be entered eg alphanumeric, numeric.
Form	The form in which the data is to be entered eg code, text.
Field size	The maximum number of characters the data item can take.
Layout	Format in which data is to be entered: N for numeric, A for alphanumeric values.
Code set	The reference database table name and set of codes used for the item where the form is Code.
Reporting guide	Additional Comments or assistance on interpreting, applying or reporting the data item or code set.

Administration

Purpose	The purpose of collecting the data.
Data Users	The permitted users of the data.
Collection start	The date the data collection started (and ceased, if applicable) for the item.
Definition source	The source that originally defined the item.
Code set source	The source that established the set of codes.

Inclusion criteria for the Victorian State Trauma Registry

The Victorian State Trauma Registry (VSTR) incorporates patient data from across the continuum of care, including pre-hospital services and patient outcomes after hospital discharge. The VSTR is a Department of Health and Human Services (DHHS) and Transport Accident Commission (TAC) sponsored project. The Victorian State Trauma Outcome Registry and Monitoring (VSTORM) group is a team of associate investigators, all of whom are experts in the area of trauma, who acts as coordinators and advisers to the project.

Eligible patients

To ensure the VSTR captures all major trauma patients in Victoria, broad-based inclusion criteria are used. The VSTR captures trauma patients whose principal diagnosis is injury, irrespective of age, and who meet any of the registry criteria (Box 1) and none of the exclusion criteria (Box 2). The first four inclusion criteria are based on those recommended in the ROTES report. The remaining criteria are screening filters to capture the wider population of potentially major trauma patients.

Box 1: The VSTR patient inclusion criteria

1. All deaths after injury
2. All patients admitted to an intensive care unit or high-dependency area for more than 24 hours and mechanically ventilated after admission
3. Significant injury to two or more ISS body regions (an AIS of 2 or more in two or more
4. body regions) or an ISS greater than 12
5. Urgent surgery for intracranial, intrathoracic or intraabdominal injury, or fixation of pelvic or spinal fractures
6. Electrical injuries, drowning and asphyxia patients admitted to an intensive care unit and having mechanical ventilation for longer than 24 hours or death after injury or ISS>12
7. All patients with injury as their principal diagnosis whose length of stay is three days or more – unless they meet exclusion criteria
8. All patients with injury as their principal diagnosis transferred to or received from another health service for further emergency care or admitted to a high-dependency area – unless they meet exclusion criteria

1. Box 2: The VSTR patient exclusion criteria

1. Isolated fractured neck of femur
2. Isolated upper limb joint dislocation, shoulder girdle dislocation (unless associated with vascular compromise) and toe/foot/knee joint dislocation – unless meets inclusion criteria 1, 2 or 4
3. Isolated closed-limb fractures only (for example, fractured femur, Colles' fracture) – unless meets inclusion criteria 1, 2 or 4
4. Isolated injuries distal to the wrist and ankle only (for example, finger amputations) – unless meets inclusion criteria 1, 2 or 4
5. Soft tissue injuries only (for example, tendon and nerve injury and uncomplicated skin injuries) – unless meets inclusion criteria 1, 2 or 4
6. Burns to less than 10 per cent of the body – unless meets inclusion criteria 1, 2 or 4
7. Isolated eyeball injury
8. Isolated stable pelvic ring fractures – Unless meets inclusion criteria 1, 2 or 4 (From date of injury 1 July 2017)
9. Isolated Acetabular fractures not further specified – Unless meets inclusion criteria 1, 2 or 4 (From date of injury 1 July 2017)
10. Isolated lumbar or thoracic spine vertebral body fractures – Unless meets inclusion criteria 1, 2 or 4 (From date of injury 1 July 2017)
11. Isolated single rib fractures, two rib fractures or fractures of the sternum – Unless meets inclusion criteria 1 or 2 (From date of injury 1 July 2017)
12. Isolated hypothermia or hypothermia with superficial or soft tissue injuries only and without other injuries does not meet VSTR criteria.

Updated exclusion criteria for patients with data of injury from 1 July 2017:

Following the VSTR review of the inclusion and exclusion criteria for minor trauma (Cases from July 2010 to June 2016), the recommendations from the key findings (below) were endorsed for implementation by the State Trauma Committee on 30 March 2017:

- i. The VSTR inclusion criteria require amendment to **remove the “other significant injury” criterion** as this is not an objective criterion and will be interpreted differently by each data collector. This would reduce the number of minor trauma cases collected each year by approximately 300.
 - **Action:** “Other significant injury” removed from the additional inclusion criteria guidelines on page 2 of the VSTORM data collection manual
- ii. **Stable pelvic ring fractures** (posterior arch intact) and **acetabular fractures not further specified**, where this is the most severe injury sustained and there is no injury to another body region with an AIS severity score >1, could be **added to the exclusion criteria**. This would reduce the number of minor trauma cases collected each year by approximately 500 (400 of these at the non-MTS hospitals).
 - **Action:** Addition of the following injuries to the exclusion criteria in the VSTR data dictionary:
 - Isolated stable pelvic ring fractures (AIS2008 code 856151.2 or isolated ICD-10-AM codes S32.2, S32.2, S32.3, S32.5, S32.81 or S32.83 – check to ensure fracture is stable with posterior arch intact) with no injury to another body region with an AIS severity score >1,

- unless in-hospital death, ICU >24 hours with mechanical ventilation or urgent pelvic surgery (within 48 hours).
 - Isolated Acetabular fractures not further specified (AIS2008 code 856200.2 or isolated ICD-10-AM code S32.4 - check to ensure fracture is not further specified) with no injury to another body region with an AIS severity score >1, unless in-hospital death, ICU >24 hours with mechanical ventilation or urgent pelvic surgery (within 48 hours).
 - iii. **Lumbar and thoracic spine vertebral body fractures** (not further specified or with minor compression only), **lumbar spine transverse process fractures**, and **lumbar spine fractures not further specified**, where this is the most severe injury sustained and there is no injury to another body region with an AIS severity score >1, could be **added to the exclusion criteria**. This would reduce the number of minor trauma cases collected each year by approximately 500.
 - **Action:** Addition of the following injuries to the exclusion criteria in the VSTR data dictionary:
 - Isolated (ie. One) lumbar or thoracic spine vertebral body fracture (not further specified or with minor compression only), lumbar spine transverse process fracture, and lumbar spine fracture not further specified (AIS2008 codes 650430.2, 650432.2, 650630.2, 650632.2, 650620.2 or 650616.2 or isolated ICD-10-AM codes S22.31, S22.32, S22.41, S22.42 or S22.2) with no injury to another body region with an AIS severity score >1, unless in-hospital death, ICU >24 hours with mechanical ventilation or urgent pelvic surgery (within 48 hours). A patient with more than one vertebral body fracture (e.g. L2, L3 and L4 or multiple fractures of one vertebra (e.g. AIS2008 code 6506172) meets VSTORM inclusion criteria (if LOS 3 or more days, ISS>12 or death after injury or urgent surgery criteria met).
 - iv. **Single rib fractures, two rib fractures, and fractures of the sternum**, where this is the most severe injury sustained and there is no injury to another body region with an AIS severity score >1, could be **added to the exclusion criteria**. This would reduce the number of minor trauma cases collected each year by approximately 250.
 - **Action:** Addition of the following injuries to the exclusion criteria in the VSTR data dictionary:
 - Single rib fractures, two rib fractures, and fractures of the sternum (AIS2008 codes 450201.1, 450202.2, 450804.2) with no injury to another body region with an AIS severity score >1, unless in-hospital death, ICU >24 hours with mechanical ventilation.
 - v. There were no head injury diagnoses in the minor trauma patient population that were considered suitable for exclusion.
 - No updates required
 - vi. The number of isolated facial fracture cases was low overall and changes to the exclusion criteria for these injuries would have little impact on workload.
 - No updates required

Notably, the changes recommended are only to the VSTR inclusion and exclusion criteria. *No changes to the trauma system pre-hospital triage guidelines, or inter-hospital transfer guidelines, are recommended.* Therefore, there no change in system or clinical practice is expected.

- i. **Partial or full thickness burns with a %TBSA of 20-29%** should be **reinstated as a criterion for major trauma**. The 2008 update to the AIS resulted in some of these injuries being downgraded from a severity score of 4 (automatic inclusion on the VSTR

due to an ISS>12) to 3. These injuries are a specific injury inclusion on the pre-hospital trauma triage guidelines and the expectation would be that these are managed at a specialist burn centre.

- **Action:** Addition of the following criterion to the Major Trauma definition in the VSTR data dictionary:
 - Burns, 2nd or 3rd degree; partial or full thickness 20-29% (AIS2008 code 912018.3) for patients with date of injury from July 1 2017, cases prior to this date with AIS98 912018.3 or AIS2008 912018.3 have been updated to meet major trauma criteria.
 - Burns20-29 to be added to data extracts as a criterion for major trauma to enable this group to be filtered out if necessary.

Other updates for patients with date of injury from 1 July 2017:

Electrical injuries, drowning and asphyxia cases to be included on the registry if ISS>12 (AIS2008) regardless of mechanical ventilation hours or outcome. The original criteria of ICU admission with mechanical ventilation >24 hours or in-hospital death remains applicable (if ISS≤12).

Major trauma definition

The definition of major trauma for the VSTR is adapted from the ROTES report as outlined in Box 3.

Box 3: The VSTR major trauma definition

All trauma patients with injury as their principal diagnosis (irrespective of age) who meet any of the following criteria:

1. Death after injury
2. ISS greater than 12
3. Admission to an intensive care unit for more than 24 hours, requiring mechanical ventilation
4. Urgent surgery (within 24 hours) for intracranial, intrathoracic or intraabdominal injury, or for fixation of pelvic or spinal fractures
5. Partial or full thickness burns ≥20 per cent total body surface area (TBSA)

Source: Ministerial Taskforce on Trauma and Emergency Services and the Department of Human Services Working Party on Emergency and Trauma Services 1999

Inclusion criteria for the Victorian Orthopaedic Trauma Outcomes Registry

The Victorian Orthopaedic Trauma Outcomes Registry (VOTOR) is a comprehensive database of orthopaedic injuries, treatment, complications and outcomes based on admissions to The Alfred, Royal Melbourne, University Hospital Geelong and The Northern Hospital. The Victorian Orthopaedic Trauma Outcomes Registry first started as a collaborative project between The Alfred and Royal Melbourne Hospital and the Department of Epidemiology and Preventive Medicine at Monash University in 2003 and in 2007 was expanded to include University Hospital Geelong and The Northern Hospital

The VOTOR captures data about all patients with an emergency admission (>24 hours or death within 24 hours) to the participating hospital for an orthopaedic injury. Patients with a pathological fracture related to metastatic disease are excluded. Eligible patients are identified by the discharge diagnosis through ICD-10-AM reports from the hospitals. In the event where ICD-10-Codes are not available, or the patient dies within 24 hours of the hospital admission, the orthopaedic injuries are determined using Abbreviated Injury Scale codes.

Box 4: The VOTOR inclusion and exclusion criteria

INCLUSION	EXCLUSION
All patients admitted with a new orthopaedic injury with a length of stay >24 hours. Please note isolated soft tissue injuries that were operatively managed with a date of injury prior to and including 31/12/17 were included on the registry. Death after injury	Pathological fracture related to metastatic disease, and/or Age < 16 years Isolated soft tissue injuries with a date of injury from 1/1/2018.

1 Patient Details/Contact

Content	Patient and Contact identifying and demographic data
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All patients
Data source	Hospital Medical Record or Health Information System

1.1 Patient Identifier

Definition	A system generated value that uniquely identifies a VSTR patient		
Database Name	PatientID	Collection	System generated
Datatype	Numeric	Form	Integer
Field size	6	Layout	NNNNNN
Database Location	Patient Table, Contact Table, Event Table Ambulance Table, Admission Table, Discharge Table, Outcome Table, Transfer Table, Injury Table, Operation Table, Diagnosis Table, Procedure Table, Prosthetics Table, Follow-up Tables, Optoff Table (where applicable)		
Code set	-		
Reporting guide	Begins at 1		
Purpose	Patient identification Provision of de-identified datasets		
Data Users	VSTORM Database Staff, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.2 Surname

Definition	The Surname of the Patient or Contact person		
Database Name	SNAM	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	30	Layout	AAAAAAAAAAAAA
Database Location	Patient Table Contact Table		
Code set	-		
Reporting guide	Permitted characters: A to Z, hyphen		
Purpose	Patient identification Patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.3 Given Name

Definition	The given name(s) of the patient or contact person		
Database Name	GivenName	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	30	Layout	AAAAAAAAAAAAA
Database Location	Patient Table Contact Table		
Code set	-		
Reporting guide	Permitted characters: A to Z, hyphen		
Purpose	Patient identification Patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.4 Date of Birth

Definition	The date of birth of the patient		
Database Name	DOB	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY
Database Location	Patient Table		
Code set	A valid date.		
Reporting guide	DOB must be on or before the current date. Century (CC) can only be 18,19, 20 or 99 If unknown, use the date 09/09/9999		
Purpose	Patient Identification Calculation of age at date of injury (difference between Date of Birth and Date of Injury)		
Data Users	Data collectors, VSTORM staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.5 Sex

Definition	The sex of the patient		
Database Name	Sex	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	Patient Table		
Code set	_sex (reference table)		
	Code	Description	
	1	Male	
	2	Female	
	3	Intersex	
	-1	Unknown	
Reporting guide	Select the gender of the patient, intersex added in 2015 for transgender patients.		
Purpose	Service utilisation and epidemiological studies		
Data Users	DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code Set source	NHDD/VSTORM		

1.6 Address 1

Definition	The first line of the postal address of the patient or contact person		
Database Name	Address1	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	100	Layout	AAAAAAAAAAAAA
Database Location	Patient Table Contact Table		
Code set	Permitted characters: A to Z, space, hyphen		
Reporting guide	This should generally follow the format of: [Street number] [Street Name] [Street Type] However, RMB addresses and PO Box addresses are acceptable Suburb/Town is not acceptable in this field		
Purpose	Patient identification Patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2002		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

1.7 Address 2

Definition	The second line of the postal address of the patient or contact person		
Database Name	Address2	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	100	Layout	AAAAAAAAAAAAA
Database Location	Patient Table Contact Table		
Code set	Permitted characters: A to Z, space, hyphen		
Reporting guide	This field should only contain values when the postal address of the patient (as it would appear on an envelope), is three lines (including suburb/town) Suburb/Town is not acceptable in this field		
Purpose	Patient identification Patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2002		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

1.8 Suburb

Definition	The name of the town/suburb of the patient or contact person's postal address		
Database Name	Suburb	Collection	Mandatory
Datatype	Alphanumeric	Form	Code
Field size	22	Layout	AAAAAAAAAAAAAA
Database Location	Patient Table Contact Table		
Code set	tlkp_PostC (reference table)		
Reporting guide	This should be the exact town/suburb name, as would be used when addressing mail, and not an abbreviation or description.		
Purpose	Patient identification Patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2002		
Definition source	VSTORM and VOTOR		
Code set source	Australia Post		

1.9 State/Country

Definition	The state, or, where appropriate, country, of the patient's residence		
Database Name	State	Collection	Mandatory
Datatype	Alphanumeric	Form	Code
Field size	4	Layout	NNNN
Database Location	Patient Table Contact Table		
Code set	_country (reference table)		
Reporting guide	The Country Code Table is based around the Country of Birth Table in the VEMD.		
Purpose	Patient identification Sending patient letters Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2002		
Data source	Hospital Medical Record		
Definition source	VSTORM and VOTOR		
Code set source	DHHS / NHDD / Australian Standard Classification of Countries for Social Statistics. (Australian Bureau of Statistics, catalogue no. 1269.0)		

1.10 Residential Postcode

Definition	The postcode of the patient or contact person's postal address												
Database Name	Postcode	Collection	Mandatory										
Datatype	Alphanumeric	Form	Name										
Field size	4	Layout	NNNN										
Database Location	Patient Table Contact Table												
Code set	tlkp_PostC (reference table) Refer to the Postcode/Locality/SLA reference file available from: http://www1.auspost.com.au/postcodes/index.asp?sub=2 Other codes for use in this field: <table><tr><th>Code</th><th>Description</th></tr><tr><td>1000</td><td>No Fixed Abode</td></tr><tr><td>8888</td><td>Overseas</td></tr><tr><td>9988</td><td>Unknown in Victoria</td></tr><tr><td>9999</td><td>Unknown outside Victoria</td></tr></table>			Code	Description	1000	No Fixed Abode	8888	Overseas	9988	Unknown in Victoria	9999	Unknown outside Victoria
Code	Description												
1000	No Fixed Abode												
8888	Overseas												
9988	Unknown in Victoria												
9999	Unknown outside Victoria												
Reporting guide	-												
Purpose	Patient identification Sending patient letters Telephone follow-up												
Data Users	Data collectors, VSTORM staff												
Collection start	2002												
Definition source	VSTORM and VOTOR												
Code set source	Australia Post (modified)/DHHS												

Derived Variable (postcode region):

PCregion	PCregionD
1	Barwon South West
2	Gippsland
3	Grampians
4	Hume
5	Loddon Mallee
6	Eastern Metro
7	Northern Metro
8	Southern Metro
9	Western Metro
254	Overseas
255	Unknown in Victoria
256	Unknown outside Victoria
257	No Fixed Abode

258	Unknown
1100	Not further specified
1101	New South Wales
1102	Victoria
1103	Queensland
1104	South Australia
1105	Western Australia
1106	Tasmania
1107	Northern Territory
1108	Australian Capital Territory
1109	Other Territories

1.11 ARIA and IRSAD

Definition	Accessibility/Remoteness Index of Australia (ARIA) and Index of Relative Socio-economic Advantage and Disadvantage (IRSAD)		
Database Name	Postcode	Collection	Mapped from postcode
Datatype	Alphanumeric	Form	Name
Field size	4	Layout	NNNN
Database Location	Main table extract only		
Code set	tlkp_PostC (reference table)		

Refer to the Postcode/Locality/SLA reference file available from:
<http://www1.auspost.com.au/postcodes/index.asp?sub=2>

Other codes for use in this field:

Code	Description
1000	No Fixed Abode
8888	Overseas
9988	Unknown in Victoria
9999	Unknown outside Victoria

Reporting guide	-
Purpose	<p>Determine the socio-economic status of the patient based on postcode of residence</p> <p>Refer to ABS website for more information about ARIA: http://www.abs.gov.au/websitedbs/d3310114.nsf/home/remoteness+structure</p> <p>Refer to ABS website for more information about IRSAD: http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/2033.0.55.001main+features100042011</p>
Data Users	Data collectors, VSTORM staff
Collection start	2014
Definition source	VSTORM and VOTOR
Code set source	<p>DHHS/Australia Post (modified), IRSAD ABS: Postal Area, Indexes, SEIFA 2011 - 2033.0.55.001 - Socio-economic Indexes for Areas (SEIFA), Table 2. Postal Area (POA) Index of Relative Socio-economic Advantage and Disadvantage, 2011</p> <p>(https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/2033.0.55.0012011)</p>

1.12 Telephone

Definition	The patient or contact person's telephone number		
Database Name	Telephone	Reporting	Optional
Datatype	Alphanumeric	Form	-
Field size	30	Layout	03 9999 9999
Database Location	Patient Table Contact Table		
Reporting guide	This should be the patient's landline telephone number and should include area code.		
Related items	-		
Purpose	Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.13 Mobile Phone

Definition	The patient or contact person's mobile phone number		
Database Name	Telephone Number	Reporting	Optional
Datatype	Alphanumeric	Form	-
Field size	10	Layout	0499 999 999
Database Location	Patient Table Contact Table		
Reporting guide	This should be the patient's mobile phone number. Mobile phone is mandatory.		
Related items	-		
Purpose	Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2006		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.14 Email

Definition	The patient or contact person's email address		
Database Name	Email	Reporting	Optional
Datatype	Alphanumeric	Form	Text
Field size	100	Layout	
Database Location	Patient Table		
Reporting guide	Enter the patient or contact person's email address if available		
Related items	-		
Purpose	Telephone follow-up		
Data Users	Data collectors, VSTORM staff		
Collection start	2014		
Definition source	VSTORM and VOTOR		
Code set source	-		

1.15 Preferred Language

Definition	The language (including sign language) most preferred by the patient for communication. This may be a language other than English even where the person can speak fluent English.		
Database Name	PrefLanguage	Collection	Mandatory
Datatype	Alphanumeric	Form	Code
Field size	2	Layout	NN
Database Location	Patient Table		
Code set	_language (reference table)		
Reporting guide	Report valid codes as documented in the Language Table		
Related items	-		
Purpose	Telephone follow-up		
Data Users	VSTORM staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS/NHDD/ ABS mod Aust. Stand. Classification		

1.16 Compensable Fund

Definition	Funding source, where the patient is entitled to compensation as a result of the injury sustained.		
Database Name	Fund	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	Patient Table		
Code set	_fund (reference table)		
	Code	Description	
	1	Transport Accident Commission	
	2	Department of Veterans' Affairs	
	3	Work Cover	
	4	Common Law, Public liability, Other compensable, Service personnel	
	5	Ineligible not compensable	
	6	Medicare patient/Overseas eligible/Ineligible hospital exempt	
	7	Compensable status unknown	
	8	Private	
Reporting guide	-		
Purpose	Service utilisation and epidemiological studies		
Data users	DHHS Reporting, TAC, WorkCover, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS/NHDD		

1.17 Co-morbidities

Definition	Indicator of the presence and severity of any morbidity prior to injury		
Database Name	Comorbidity	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	Patient Table		
Code set	_comorbid (reference table)		

Code Description

- 1 Healthy
- 2 Systemic illness non-limiting
- 3 Systemic illness limiting normal activity
- 4 Systemic illness constant threat to life
- 5 Unknown
- 6 Not Documented

Reporting guide An accurate description of all co-morbidity should ideally be included, but it is likely to be difficult. In the absence of a reliable, simple assessment of co-morbidity, the four grading scales from the American Society of Anaesthesiologists (ASA), will be used. Use of 5 (Unknown) should not be confused with Not Documented. If a patient does not have any documented co-morbidities, and their treatment was not altered due to any co-morbidities, a logical assumption can be made that the patient did not have any co-morbidities. Unknown should only be used if co-morbidity exists, but the degree of co-morbidity is unknown. This should be found in admission notes or from operating room anaesthetic work sheet.

Healthy (1) = A normal healthy patient, without known organic, physiologic, or psychiatric disturbance (e.g. Healthy with good exercise tolerance.)

Non-limiting (2) = A patient with controlled medical conditions without significant systemic effects. Example; controlled hypertension, controlled diabetes mellitus without system effects, cigarette smoking without evidence of Chronic Obstructive Airway (COAD) disease. Anaemia, mild obesity, age less than one or greater than 70 years, pregnancy.

Limiting (3) = A patient having medical conditions with significant systemic effects intermittently associated with significant functional compromise (e.g. Controlled Congestive Cardiac Failure (CCF), stable angina, old myocardial infarction, poorly controlled hypertension, morbid obesity, bronchospastic disease with intermittent symptoms, chronic renal failure).

Constant threat to life (4) = A patient with a medical condition that is poorly controlled, associated with significant dysfunction and is a potential threat to life (e.g. unstable angina, symptomatic COAD, symptomatic CCF, hepatorenal failure).

Purpose Co-morbidity is an important predictor of outcome from trauma. Co-morbidity is useful in the analysis of unexpected death or disability.

Data users DHHS Reporting, Epidemiologists

Collection start 2001

Definition source VSTORM and VOTOR

Code source American Society of Anaesthesiologists/VSTORM

1.18 CCI Charlson Comorbidity Index

Definition	The Charlson Comorbidity Index is a method of categorizing comorbidities of patients based on the International Classification of Diseases (ICD) diagnosis codes.		
Database Name	CCI (CClidx in main table)		
Collection	Derived from definitive care ICD-10-AM codes Mapping table: 180504_VSTR ICD-10-AM Charlson Comorbidity Index map.xlsx		
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	vwDataset_VSTORM_Quarter		
Code set	1,2,3,6 Unknown is left blank (ICD count = zero)		
Reporting guide	The Charlson Comorbidity Index contains 19 categories of comorbidity and predicts the ten-year mortality for a patient who may have a range of co-morbid conditions. Each condition is assigned with a score of 1,2,3 or 6 depending on the risk of dying associated with this condition. The maximum score will be the patient's CClidx. ICDcount (Total number of definitive care ICD-10-AM codes) will also be provided with this data variable.		
Purpose	Co-morbidity is an important predictor of outcome from trauma. Knowledge of co-morbidity is useful in the analysis of unexpected death or disability.		
Data users	DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code source	VSTORM/VOTOR		

1.19 Contact Relationship

Definition	The relationship between the contact person and patient																										
Database Name	Relation	Collection	Mandatory if contact details available																								
Datatype	Numeric	Form	Code																								
Field size	2	Layout	N																								
Database Location	Contact Table																										
Code set	<div>_relation (reference table)</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>0</td><td>Patient</td></tr><tr><td>1</td><td>Parent</td></tr><tr><td>2</td><td>Spouse (including de facto)</td></tr><tr><td>3</td><td>Child</td></tr><tr><td>4</td><td>Sibling</td></tr><tr><td>5</td><td>Friend</td></tr><tr><td>6</td><td>GP</td></tr><tr><td>7</td><td>Other</td></tr><tr><td>8</td><td>Other Health Professional</td></tr><tr><td>9</td><td>Other Guardian</td></tr><tr><td>-1</td><td>Unknown</td></tr></table>			Code	Description	0	Patient	1	Parent	2	Spouse (including de facto)	3	Child	4	Sibling	5	Friend	6	GP	7	Other	8	Other Health Professional	9	Other Guardian	-1	Unknown
Code	Description																										
0	Patient																										
1	Parent																										
2	Spouse (including de facto)																										
3	Child																										
4	Sibling																										
5	Friend																										
6	GP																										
7	Other																										
8	Other Health Professional																										
9	Other Guardian																										
-1	Unknown																										
Reporting guide	-																										
Purpose	To identify the relationship of the contact person to the patient Telephone follow-up																										
Data users	VSTORM follow-up staff																										
Collection start	2001 (Other Health Professional added 2009, Other Guardian added April 2019)																										
Definition source	VSTORM and VOTOR																										
Code set source	VSTORM																										

1.20 Contact Status

Definition	The status (current or previous) of a patient's or next of kin's contact details.		
Database Name	ContactStatus	Collection	Mandatory if contact details available
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	Contact Table		
Code set	_contactstatus (reference table)		
	Code	Description	
	1	Current	
	2	Previous	
Reporting guide	-		
Purpose	To retain 'previous' contact details for patient and contacts		
Data users	VSTR follow-up staff		
Collection start	2011		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

2 Injury Event

Content	Injury Event Demographic data
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All patients
Data source	Ambulance Patient Care Record (PCR) and/or the hospital medical record

2.1 Injury Date

Definition	The date of the incident causing the patient to require hospitalisation.		
Database Name	DOIJ	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY
Database Location	Patient Table		
Code Set	A valid date on or after 01 July 2001 and on or before the current date.		
Reporting guide	The date of the injury is entered in the patient section on the web. Mapped from date of admission for VOTOR only cases. InjuryDateTime is derived from Injury Date and Injury Time.		
Purpose	Patient identification Calculation of age at date of injury (difference between Date of Birth and Date of Injury)		
Data users	Data Collectors, VSTORM staff DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS		

2.2 Injury Time

Definition	The time of the incident causing the patient to require hospitalisation		
Database Name	InjuryTime	Collection	Mandatory
Datatype	Numeric	Form	Time
Field size	4	Layout	HH:NN
Database Location	Event Table		
Code Set	A valid 24-hour time (00:00 denotes Unknown)		
Reporting guide	If time is not accurately known, the best estimate must be used. Default to 00:00 for VOTOR only cases		
	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted)		
Purpose	Reporting the most common time when injury occurs		
Data users	DHHS Annual Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS		

2.3 Injury Cause

Definition	Event, circumstances or condition associated with the occurrence of trauma		
Database Name	Cause	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Database Location	Event Table		
Code set	_cause (reference table)		
	Code	Description	
	1	Motor vehicle - driver	
	2	Motor vehicle – passenger	
	3	Motorcycle – driver (for VSTR includes Vespa scooters)	
	4	Motorcycle – passenger	
	5	Pedal cyclist – rider or passenger	
	6	Pedestrian	
	7	Horse related (fall from, struck or bitten by)	
	8	Other transport-related circumstance (for VSTR include disability scooters, used for TAC report)	
	9	Fall – low (same level or less than or equal to 1 metre)	
	10	Fall – high (greater than 1 metre)	
	11	Submersion or drowning – swimming pool	
	12	Submersion or drowning – other	
	13	Other threat to breathing (includes strangulation, asphyxiation)	
	14	Fire, flames, smoke	
	15	Scalds (hot drink, food, water, other fluid, steam, gas or vapour)	
	16	Contact burn (hot object or substance)	
	17	Poisoning – medication	
	18	Poisoning – other or unspecified substance	
	19	Firearm	
	20	Cutting, piercing object	
	21	Dog related	
	22	Other animal related (Excludes dog 21; horse 7)	
	23	Struck by or collision with person	
	24	Struck by or collision with object	
	25	Machinery	
	26	Electricity	
	27	Hot conditions (natural origin, includes sunlight)	
	28	Cold conditions (natural origin)	
	29	Other specified external cause	
	30	Unspecified external cause	
Reporting guide	Refer to the VEMD Business Rules: Injury Surveillance (3-115) for examples of how the Injury Surveillance fields should be utilised. Mapped from ICD-10-AM for VOTOR only cases.		
Purpose	To enable injury cause categorisation particularly transport related and identify trends in the cause of injuries. Causes 1 to 6 and 8 used to identify transport related trauma.		
Data users	VSTORM staff, DHHS Reporting, TAC, WorkCover, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS (VEMD)		

2.4 Injury Intent

Definition	Most likely human intent in the occurrence of the injury as assessed by clinician		
Database Name	<i>Intent</i>	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Database Location	Event Table		
Code set	_intent (reference table)		
	Code	Description	
	1	Unintentional (from 1 October 2019, previously Accident)	
	2	Intentional self-harm	
	3	Sexual assault (not applicable from 1 July 2016)	
	4	Child neglect, maltreatment by parent, guardian (not applicable for date of injury from 1 July 2016)	
	5	Maltreatment, assault by domestic partner (not applicable for date of injury from 1 July 2016)	
	6	Police, legal intervention or operations of war	
	7	Assault not otherwise specified (not applicable for date of injury from 1 July 2016)	
	8	Adverse effect or complication of medical or surgical care	
	9	Intent cannot be determined	
	10	Other specified intent (not applicable for date of injury from 1 July 2016)	
	11	Intent not specified (not applicable for date of injury from 1 July 2016)	
	12	Sexual assault by current or former intimate partner	
	13	Sexual assault by other family member (excluding intimate partner)	
	14	Sexual assault by other/unknown	
	15	Neglect, maltreatment, assault by current or former intimate partner	
	16	Neglect, maltreatment, assault by other family member (excluding intimate partner)	
	17	Neglect, maltreatment, assault by other/unknown	
Reporting guide	<p>For this item, the issue is the intent to produce the injury, not the intent to undertake an activity, which happened to result in injury.</p> <p>Select the first appropriate category, 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.</p> <p>Examples</p> <p>Refer to the VEMD Business Rules: VEMD Manual: 21st edition (2016-17) — Section 3: Data Definitions, page 46</p>		
Purpose	Injury surveillance research		
Data users	DHHS Reporting, Epidemiologists		
Collection start	2001, VEMD updates to intent codes for date of injury from 1 July 2016		
Definition Source	VSTORM only		
Code set source	DHHS (VEMD)		

2.5 Injury Activity

Definition	The activity being undertaken by the patient, at the time the injury occurred.		
Database Name	<i>Activity</i>	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Database Location	Event Table		
Code Set	_activity (Reference Table)		
	Code	Alphabet	Description
	1	S	Sports and active recreation activity
	2	L	Leisure activity
	3	W	Working for income
	4	E	Engaged in formal education (student)
	5	C	Other work (duties for which no financial benefit is intended or received)
	6	N	Being nursed or cared for
	7	V	Resting, sleeping, eating or other personal activity
	8	O	Other specified activity
	-1	U	Unspecified activity
Reporting guide	<p>Report the first appropriate code listed in the table which best characterises the type of activity being undertaken by the person at the time when the injury occurred, on the bases of the information available at the time it is recorded</p> <p>If two or more categories are judged to be equally appropriate, select the code, which is sequenced first in the code list</p>		
Purpose	To facilitate injury surveillance research, in particular the identification of work-related and sport related injuries		
Data users	DHHS Reporting, WorkCover, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS (VEMD)		

2.6 Injury Place

Definition The physical location of the patient when the injury occurred

Database Name *Place* **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 2 **Layout** NN

Database Location Event Table

Code set *_place* (Reference Table)

Code	Alphabet	Description
1	H	Home
2	I	Residential institution
3	S	School, other institution, or public administrative area
4	M	Medical hospital or health service
5	A	Athletics or sports area
6	R	Road, street or highway
7	T	Trade or service area
8	C	Industrial or construction area
9	Q	Mine or quarry
10	F	Farm
11	P	Place for recreation
12	O	Other specified place
-1	U	Unspecified place

Reporting guide Report the first appropriate code listed in the table which best characterises the location where the patient was situated at the time the injury occurred, on the basis of the information available at the time it is recorded

If two or more categories are judged to be equally appropriate, select the code, which is sequenced first in the code list.

Examples

Refer to the VEMD Business Rules: Injury Surveillance (3-115) for examples of how the Injury Surveillance fields should be utilised.

Purpose To facilitate injury surveillance research

Data users DHHS Reporting, Epidemiologists

Collection start 2001

Definition source VSTORM and VOTOR

Code set source DHHS (VEMD)

2.7 Injury Type

Definition	The type of the most severe injury of the patient		
Database Name	Type	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Database Location	Event Table		
Code set	_type (reference table)		
	Code	Description	
	0	Non-Trauma	
	1	Blunt	
	2	Penetrating	
	3	Burn	
	-1	Unknown	
Reporting guide	Mandatory		
Purpose	Determine epidemiology of injury types		
Data users	DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

2.8 Entrapment

Definition	Indicates whether patient was trapped at the scene of injury		
Database Name	Entrapment	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Database Location	Event Table		
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Pre-hospital analysis of case times		
Data users	DHHS Reporting, Ambulance Services, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

2.9 Entrapment Time

Definition	The length of time (in minutes) that the patient was trapped at the scene of injury		
Database Name	EntrapmentTime	Collection	Mandatory if entrapment = 1 Yes
Datatype	Numeric	Form	Code
Field size	4	Layout	NNNN
Database Location	Event Table		
Code set	Time in minutes of entrapment, blank if not entrapped, -1 if time of entrapment is unknown		
Reporting guide	-		
Purpose	Pre-hospital analysis of case times		
Data users	DHHS Reporting, Ambulance Services, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

2.10 Injury Details

Definition	Patient's personal account or description of the injury event provided at triage		
Database Name	Details	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	650	Layout	
Database Location	Event Table		
Code set	-		
Reporting guide	<p>Briefly and concisely describe the injury event. Information on location, activity, product, safety equipment should be incorporated.</p> <p>Examples Refer to the VEMD Business Rules: Injury Surveillance (3-115) for examples of how the Injury Surveillance fields should be utilised.</p>		
Purpose	To clarify the injury event (vital for identifying the interventions) and provide additional information relevant to the injury (product type, brand name, safety precautions etc.). The narrative is very important to verify the coded data and to identify injury event features not captured by the coded data.		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

2.12 Anticoagulant therapy

Definition Indicates whether the patient is currently on a course of anticoagulant or anticlotting agents including, warfarin, Direct Oral Anticoagulant (DOAC), clopidogrel and Aspirin.

Database Name Anticoagulation **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 2 **Layout** NN

Database Location Event Table

Code Set

Code	Description
1	Yes
0	No
-1	Unknown/not recorded in medical record

If Yes, select the type of medication:

Definition Type of anticoagulant, anticlotting or antiplatelet agent being taken by patient at time of injury

Database Name AnticoagulationType and OtherAnticoagulationType

Collection Mandatory

Datatype Numeric **Form** Code

Field size 2 **Layout** NN

Code Set

Code	Description
1	Warfarin
2	Rivaroxaban
3	Apixaban
4	Dabigatran
5	Clopidogrel
6	Ticagrelor or other platelet function inhibitor
7	Aspirin
8	Heparin
9	Clexane
10	Other
99	Unknown name of anticoagulant

Other (specify) _____

Vitamin K antagonist

Code 1 – Warfarin

Direct Oral Anticoagulants (DOACs)

Code 2 - Rivaroxaban (Direct Xa Inhibitor)

Code 3 - Apixaban (Direct Xa Inhibitor)

Code 4 - Dabigatran (Direct Thrombin Inhibitor)

Inhibition of platelet function

Code 5 - Clopidogrel

Code 6 - Ticagrelor or other platelet function inhibitor

Code 7 - Aspirin

Other anticoagulant

Code 8 - Heparin

Code 9 - Clexane

Code 10 - Other

Other (specify): _____

Reporting guide

Record if there is documentation of the patient taking anticoagulation or blood thinning therapy at the time of the injury. If patient is taking more than one type of anticoagulation or blood thinning therapy please select other and then specify.

Purpose

To identify patients at potential risk of haemorrhage

Data users

VSTORM staff, researchers

Collection start

Date of injury 1 July 2017

Definition source

VSTORM only

Code set source

VSTORM

2.13 Injury Address

Definition	Text description of street Injury Address		
Database Name	InjuryAddress	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	150	Layout	-
Database Location	Event Table		
Code set	Unknown if the address is not known		
Reporting guide	Example Corner of Punt and Commercial Roads, Prahran		
Purpose	To verify the injury location		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

2.14 Injury Postcode

Definition	The postcode where the injury occurred										
Database Name	InjuryPostcode	Collection	Mandatory								
Datatype	Alphanumeric	Form	Name								
Field size	4	Layout	NNNN								
Database Location	Event Table										
Code set	<p>_postcode (reference table)</p> <p>Refer to the Postcode/Locality/SLA reference file available from: http://www1.auspost.com.au/postcodes/index.asp?sub=2</p> <p>Other codes for use in this field:</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>8888</td><td>Overseas</td></tr><tr><td>9988</td><td>Unknown in Victoria</td></tr><tr><td>9999</td><td>Unknown in Australia but outside Victoria</td></tr></table>			Code	Description	8888	Overseas	9988	Unknown in Victoria	9999	Unknown in Australia but outside Victoria
Code	Description										
8888	Overseas										
9988	Unknown in Victoria										
9999	Unknown in Australia but outside Victoria										
Reporting guide	As this is a location postcode, PO Box and other special purpose postcodes (such as Large Volume Recipients) are not permitted in this field										
Purpose	To enable mapping of trauma locations with respect to the location of the treating hospital										
Data users	DHHS Reporting, Epidemiologists										
Collection start	2002										
Definition source	VSTORM only										
Code set source	Australia Post (modified)										

Derived Variable (postcode region):

PCregion	PCregionD
1	Barwon South West
2	Gippsland
3	Grampians
4	Hume
5	Loddon Mallee
6	Eastern Metro
7	Northern Metro
8	Southern Metro
9	Western Metro
254	Overseas
255	Unknown in Victoria
256	Unknown outside Victoria
257	No Fixed Abode
258	Unknown

1100	Not further specified
1101	New South Wales
1102	Victoria
1103	Queensland
1104	South Australia
1105	Western Australia
1106	Tasmania
1107	Northern Territory
1108	Australian Capital Territory
1109	Other Territories

3 Ambulance

Definition	Ambulance service, response times, vital signs and specific procedures
Collected by	All Victorian State Trauma System hospitals (public and private) and Ambulance Victoria where not available
Collected for	Analysis of pre-hospital care
Data source	Ambulance Patient Care Record (PCR), VACIS (Victorian Ambulance Clinical Information System) print out or Ambulance Victoria
Database Location	Ambulance Table

3.1 PCR Code

Definition	Documents which ambulance patient care records were available		
Database Name	PCRCode	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Database Location	Patient Table and Ambulance Table		
Code set	_pcrcode (reference table)		
	Code	Description	
	1	All relevant patient care records available	
	2	Missing first ambulance patient care record	
	3	Missing transporting ambulance patient care record	
	4	No patient care records available	
	-1	Unknown	
	-2	Not Applicable	
Reporting guide	Not Applicable is used if patient arrived by private transport		
Purpose	To determine which ambulance records were available		
Data users	VSTORM Staff		
Collection start	2003		
Definition source	VSTORM only		
Code set source	VSTORM		

3.2 Ambulance Case Number

Definition	The case number(s) of the patient care records used by the ambulance service		
Database Name	AmbulanceCase	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	
Code set	-		
Reporting guide	-1 if case number is unknown		
Purpose	Ambulance Service Identification and Linkage		
Data users	VSTORM Staff, Ambulance Victoria		
Collection start	2003		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.3 Ambulance Service

Definition	Ambulance service used for patient transport to hospital from the scene of injury.																
Database Name	Service	Collection	Mandatory														
Datatype	Numeric	Form	Code														
Field size	2	Layout	N														
Code Set	<div><div>_service (reference table)</div><table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>MAS - Metropolitan Ambulance Service</td></tr><tr><td>2</td><td>RAV - Rural Ambulance Service</td></tr><tr><td>3</td><td>AAV - Air Ambulance Victoria</td></tr><tr><td>6</td><td>Interstate</td></tr><tr><td>9</td><td>RFDS (Private amb)</td></tr><tr><td>-1</td><td>Unknown</td></tr></table></div>			Code	Description	1	MAS - Metropolitan Ambulance Service	2	RAV - Rural Ambulance Service	3	AAV - Air Ambulance Victoria	6	Interstate	9	RFDS (Private amb)	-1	Unknown
Code	Description																
1	MAS - Metropolitan Ambulance Service																
2	RAV - Rural Ambulance Service																
3	AAV - Air Ambulance Victoria																
6	Interstate																
9	RFDS (Private amb)																
-1	Unknown																
Reporting guide	1,2,3,6,9, -1 only for Ambulance data																
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning																
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting																
Collection start	2001																
Definition source	VSTORM only																
Code source	Ambulance Victoria																

3.4 Ambulance Team / Branch Number

Definition	The ambulance service team or branch number		
Database Name	AmbulanceTeam	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	
Code Set	_teamMAS (reference table) _teamRAV2010 (reference table)		
Reporting guide	-		
Purpose	Ambulance Service Identification and Linkage		
Data users	VSTORM Staff, Ambulance Services		
Collection start	01/07/2005		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.5 Ambulance Mode of Transport

Definition	Mode of Transport of ambulance service used for patient transport to hospital.		
Database Name	Mode	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_mode (reference table)		
	Code	Description	
	1	Fixed wing	
	2	Helicopter	
	3	MICA (inactive)	
	4	Road car	
	9	Other	
	-1	Unknown	
	-2	Not applicable	
Reporting guide	1, 2 Only for Admission		
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.6 MICA Paramedic

Definition	Indicates whether the patient's ambulance transport was with a MICA paramedic		
Database Name	MICA	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-1	Unknown	
Reporting guide	1 should also be used if a MICA paramedic attended to the patient in the pre-hospital setting, regardless of the type of ambulance used.		
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning		
Data users	VSTORM Staff, Ambulance Services		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.7 Time Critical

Definition	Indicates whether the injured patient met time critical criteria as documented by the ambulance service		
Database Name	TimeCritical	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-1	Unknown	
Reporting guide	-		
Purpose	To monitor ambulance triage.		
Data users	VSTORM Staff, Ambulance Services		
Collection start	2001		
Definition Source	VSTORM only		
Code set Source	Ambulance Victoria		

3.8 Ambulance Call Received Time

Definition	The date and time the first ambulance at scene's call was received		
Database Name	CallReceived	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	Must be greater than or equal to the Time of Injury Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	To monitor ambulance system performance		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.9 First Ambulance Arrival At Location Time

Definition	The date and time the first ambulance arrived at the location		
Database Name	Location	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	Must be greater than or equal to the date and time Call Received. Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	To monitor ambulance system performance		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.10 First Ambulance Arrival At Patient Time

Definition	The date and time the first ambulance arrived at patient.		
Database Name	PatientFirst	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>Must be greater than or equal to the date and time the First Ambulance arrived at Location.</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	To monitor ambulance system performance		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.11 Transporting Ambulance Arrival At Patient Time

Definition	The date and time the transporting ambulance (which may also be the first ambulance) arrived at patient.		
Database Name	PatientTransp	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>Must be greater than or equal to the date and time the first ambulance arrived at location. If there is only one ambulance the transporting ambulance arrival at patient date/time will be the same as first ambulance arrived at patient.</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	To monitor ambulance system performance		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.12 Transporting Ambulance Scene Departure time

Definition	The date and time the transporting ambulance departed the location.		
Database Name	Depart	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>Must be greater than or equal to the date and time the First and Transporting Ambulance arrived at Patient.</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	Ambulance system performance monitoring		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.13 Ambulance At Destination Time

Definition	The date and time the transporting ambulance arrived at hospital		
Database Name	Destination	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>Must be greater than or equal to the date and time the Transporting Ambulance departed the Location</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	To monitor ambulance system performance		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.14 Ambulance First Recorded Pulse

Definition	First recorded pulse of patient		
Database Name	Pulse	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	Pulse must be between -1 and 300 -1 indicates that a pulse was not recorded 0 indicates that patient is in cardiac arrest		
Purpose	Used as a proxy measure to assess injury severity.		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.15 Ambulance First Recorded Systolic Blood Pressure

Definition	First recorded systolic blood pressure		
Database Name	BloodPressure	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	<p>Must be between -1 and 300</p> <p>-1 indicates that blood pressure was not recorded</p> <p>0 indicates that patient has an unrecordable BP</p>		
Purpose	<p>This is an important component of several scoring systems for triage and is one assessment of patient acuity.</p> <p>TRISS Calculation</p>		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.16 Ambulance Systolic Blood Pressure Quality Indicator

Definition	Indicates whether the systolic blood pressure of the patient dropped below 100 at ten minutes (or next recorded) after treatment commenced by emergency service personnel before arrival at first hospital		
Database Name	QIBloodPressure (BP<100 after 10 minutes)		
Collection	Mandatory		
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of Ambulance systems performance		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.17 Ambulance First Recorded Respiration Rate

Definition	First recorded unassisted patient respiratory rate expressed as number per minute.		
Database Name	Respiration	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Reporting guide	Must be between -1 and 60 -1 indicates that respiration rate was not recorded		
Purpose	Component of several triage scoring systems and provides one assessment of severity of illness or surgery.		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.18 Ambulance First Recorded Oxygen Saturation

Definition	First recorded oxygen saturation		
Database Name	Oxygen	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	Must be between -1 and 100 -1 indicates that oxygen saturation was not recorded		
Purpose	Used as a proxy measure to assess injury severity.		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Ambulance Victoria		

3.19 Ambulance Oxygen Saturation Quality Indicator

Definition	Indicates whether the oxygen saturation of the patient dropped below 90% at ten minutes (or next recorded) after treatment commenced by emergency service personnel before arrival at first hospital		
Database Name	QIOxygen (O ₂ Sat <90 after 10 minutes)		
Collection	Mandatory		
Datatype	Numeric	Form	Code
Field size	1	Layout	NN
Code set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of Ambulance systems performance		
Data users	Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.20 Ambulance First Recorded GCS - Eye

Definition Indication of the responsiveness to stimuli by eye opening

Database Name GCSEye **Collection** Mandatory

Datatype Numeric **Form** Integer

Field size 2 **Layout** N

Code set _gcsEye (reference table)

Score	Adult	Child	Infant
4	Spontaneous	Spontaneous	Spontaneous
3	Voice	Verbal Stimuli	Verbal Stimuli
2	Pain	Pain	Pain
1	None	No Response	No Response
-1	No recorded value		

Reporting guide -

Related items GCS Verbal, GCS Motor, GCS Qualifier, GCS Total

Purpose This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness
TRISS Calculation

Data users Ambulance Services, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/Ambulance Victoria

3.21 Ambulance First Recorded GCS - Verbal

Definition Indication of the style of verbal response from a patient

Database Name GCSVerbal **Collection** Mandatory

Datatype Numeric **Form** Integer

Field size 2 **Layout** N

Code set _gcsVerbal (reference table)

Score	Adult	Child	Infant
5	Oriented	Oriented	Coos, babbles
4	Confused	Confused	Irritable, cries
3	Inappropriate words	Inappropriate words	Cries to pain
2	Incomprehensible words	Cries, Incomprehensible sounds	Moans to pain
1	None	No response	No response
-1	No recorded value		

Reporting guide -

Related items GCS Eye, GCS Motor, GCS Qualifier, GCS Total

Purpose This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness
TRISS Calculation

Data users Ambulance Services, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/Ambulance Victoria

3.22 Ambulance First Recorded GCS - Motor

Definition Indication of the style of motor response from a patient

Database Name GCSMotor **Collection** Mandatory

Datatype Numeric **Form** Integer

Field size 2 **Layout** N

Code set _gcsMotor (reference table)

Score	Adult	Child	Infant
6	Obeys commands	Obeys commands	Moves spontaneously
5	Localises pain	Localises painful stimulus	Withdraws to touch
4	Withdraws to pain	Withdraws to pain	Withdraws to pain
3	Flexion in pain	Flexion to pain	Decorticate posturing to pain
2	Extension to pain	Extension to pain	Decerebrate posturing to pain
1	None	No Response	No Response
-1	No recorded value		

Reporting guide -

Related items GCS Eye, GCS Verbal, GCS Total, GCS Qualifier

Purpose This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness
TRISS Calculation

Data users Ambulance Services, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/Ambulance Victoria

3.23 Ambulance First Recorded GCS - Qualifier

Definition	Indication of the legitimacy of the first calculated Glasgow Coma Scale		
Database Name	GCSQualifier	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_gcs (reference table)		
	Code	Description	
	1	Legitimate	
	2	Sedated	
	3	Intubated	
	4	Paralysed and intubated	
	5	Sedated and intubated	
	6	Altered by database	
	7	Existing Neuro Deficit	
	-1	Unknown	
Reporting guide	-		
Related items	GCS Eye, GCS Verbal, GCS Motor, GCS Total		
Purpose	This must be known in order to evaluate the legitimacy of the Glasgow Coma Scale, which impacts on several trauma scoring systems. TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM		

3.24 Ambulance First Recorded GCS - Total

Definition	The sum of the three Glasgow Coma Scale components: Eye Opening, Verbal Response and Motor Response.		
Database Name	GCSTotal	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Code set	-		
Reporting guide	Values must be between 3 and 15 or -1 -1 is used only when a score cannot be calculated		
Related items	GCS Eye, GCS Verbal, GCS Motor, GCS Qualifier		
Purpose	This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/Ambulance Victoria		

3.25 Endotracheal Tube

Definition	Indicates whether patient received definitive airway management before arrival at first hospital		
Database Name	ETT	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	To determine if intubation occurred pre-hospital TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.26 Defibrillation

Definition	Indicates whether electrical defibrillation was performed before arrival at first hospital		
Database Name	Defib	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.27 Laryngeal Mask

Definition	Indicates whether a laryngeal mask was used before arrival at first hospital		
Database Name	Laryngeal	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	To determine if intubation occurred pre-hospital TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.28 Chest Decompression

Definition	Indicates whether a chest decompression was performed before arrival at first hospital		
Database Name	ChestDecomp	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.29 Adrenaline

Definition	Indicates whether adrenaline was administered before arrival at first hospital		
Database Name	Adrenaline	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.30 **Analgesic**

Definition	Indicates whether any analgesics were administered before arrival at first hospital		
Database Name	Analgesic	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.31 Sedative

Definition	Indicates whether any sedatives were administered before arrival at first hospital		
Database Name	Sedative	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.32 Antiemetic

Definition	Indicates whether any antiemetics were administered before arrival at first hospital. Eg. Maxolon		
Database Name	Antiemetic	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.33 IV Fluids

Definition	Indicates whether any intra-venous fluids were administered before arrival at first hospital		
Database Name	IVFluids	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.34 Naso/Oro Airway

Definition	Indicates whether a nasopharyngeal or oropharyngeal tube was used before arrival at first hospital		
Database Name	NasoTube	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.35 **Cardiopulmonary Resuscitation**

Definition	Indicates whether a cardiopulmonary resuscitation was performed before arrival at first hospital		
Database Name	CPR	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

3.36 Paralysing Agent

Definition	Indicates whether a Paralysing Agent was used eg. Suxamethonium		
Database Name	Paralyze	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Reporting guide	-		
Purpose	Monitoring of procedures administered pre-hospital		
Data users	Ambulance Service, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4 Admission

Definition	Hospital Admission data		
Collected by	All Victorian State Trauma System hospitals (public and private)		
Collected for	All acute patient episodes of care		
Data source	Hospital Medical Record		
Database Location	Admission Table		
Reporting Guide	Definitive Hospital pre-fixed by DefHosp_ Referral Hospital to DefHosp pre-fixed by RefHosp1_ Referral Hospital to RefHosp1 pre-fixed by RefHosp2_ Referral Hospital to RefHosp2 pre-fixed by RefHosp3_ Primary Hospital pre-fixed by PrimHosp_		
PrimaryHosp	First hospital patient presents to	May also be Final Hospital of care (DefHosp) if there was no inter-hospital transfer	
RefHosp3	Third referral hospital prior to def care (if 4 hospital presentations)		
RefHosp2	Second referral hospital prior to def care (if 3 hospital presentations)		
RefHosp1	First referral hospital prior to def care (if 2 hospital presentations)		
DefHosp	Final hospital of care	May also be First Hospital of care (PrimaryHosp) if there was no inter-hospital transfer	

4.1 Admission Identifier

Definition	A system generated value that uniquely identifies a patient's admission		
Database Name	AdmissionID	Collection	System generated
Datatype	Numeric	Form	Integer
Field size	6	Layout	NNNNNN
Code set	-		
Reporting guide	-		
Purpose	Admission identification		
Data Users	Database Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

4.2 Service level

Definition The Victorian State Trauma System designation of the health service

Database Name Servicelevel **Collection** Assigned

Datatype Numeric **Form** Code

Field size 3 **Layout** NNN

Code set _servicelevel (reference table)

Code	Alpha code	Description	MTS Full
99	ALF	Alfred Hospital	MTS
98	RMH	Royal Melbourne Hospital	MTS
97	RCH	Royal Children's Hospital	MTS
96	AUS	Austin Hospital (Spinal)	AUS
9	MeTS	Metropolitan Trauma Service	MeTS
8	RTS	Regional Trauma Service	RTS
6	RUCS	Urgent Care Service	UCS
5	MPCS	Metropolitan Primary Care Service	MPCS
4	RPCS	Regional Primary Care Service	RPCS
3	Non-VSTS	Non-VSTS	Non-VSTS

Outcome Hosp Service Level (variable in data extract)

Code	Description	MTS Full
99	Major Trauma Service	MTS
98	Major Trauma Service	MTS
97	Major Trauma Service	MTS
96	Austin Hospital (Spinal)	AUS
95	Metropolitan Neurosurgical Service	MNS
9	Metropolitan Trauma Service	MeTS
8	Regional Trauma Service	RTS
6	Urgent Care Service	UCS
5	Metropolitan Primary Care Service	MPCS
4	Regional Primary Care Service	RPCS

Reporting guide Data extracts variable Outcome Hos Service Level includes all MTS Full categories (including MNS), DefHosp_ServiceLevel does not include MNS

Purpose To identify the VSTS designation of the health service

Data users VSTORM Staff, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source DHHS / VSTORM

4.3 Hospital

Definition	The health service or hospital and campus in which the Emergency Department presentation occurred.		
Database Name	Hospital	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	3	Layout	NNN
Code set	_hospital (reference table)		
Reporting guide	Report a valid code from the VSTORM Hospital Code Table. The Hospital Code Table is based around the Campus Code Table in the VEMD, but includes other hospitals and health services not listed.		
Purpose	To identify the reporting hospital/health service		
Data users	VSTORM Staff, DHHS Reporting		
Collection start	2002		
Definition source	VSTORM and VOTOR		
Code set source	DHHS / VSTORM		

4.4 Medical Record Number (UR)

Definition	An identifier, unique to a patient within a particular hospital / health service		
Database Name	MedicalRecord	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	20	Layout	XXXXXXXXXXXXXXXXXX
Code set	-		
Reporting guide	Hospital-generated. Individual sites may use their own alphabetic, numeric or alphanumeric coding system		
Related items	Admission Number		
Purpose	Tracking/cross checking with the physical unit record.		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS /Hospitals		

4.5 Admission Number

Definition	An identifier of the number of admissions within a particular hospital / health service		
Database Name	AdmissionNo	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	7	Layout	XXXXXXX
Code set	-		
Reporting guide	Hospital-generated. Individual sites may use their own alphabetic, numeric or alphanumeric coding system		
Related items	Medical Record		
Purpose	Tracking/cross checking with the physical unit record.		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS /Hospitals		

4.6 Arrival Date/Time

Definition	The date and time patient was first registered or triaged (whichever comes first), by clerical officer, triage nurse or doctor in the Emergency Department		
Database Name	Arrive	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date and time not less than the date and time of injury, with a valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	Must be greater than or equal to the Time of Injury, and all ambulance times. Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Length of Stay Calculation		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS		

4.7 Source

Definition	Indicates where the patient has been immediately previous to admission to emergency department		
Database Name	Source	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	_source (reference table)		
	Code	Description	
	1	Hospital (Specify)	
	2	LMO	
	3	Scene	
	4	Other (Specify)	
	5	Home	
	-1	Unknown	
Reporting guide	Only one hospital per patient can have a value other than 1 in this field		
Related items	Referral Hospital Source Other		
Purpose	Patient tracking from scene and between hospitals		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.8 Source Other

Definition	Text description of source when one of coded values is not applicable		
Database Name	SourceOther (Specify)	Collection	Mandatory when source = 4 Other
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	-
Code set	-		
Reporting guide	Only complete when source is 4		
Purpose	To clarify the source when one of the coded values is not applicable		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS		

4.9 Transfer type

Definition	Indicates whether a trauma patient has had an inter-hospital transfer		
Database Name	Transferred & Transfer_Type	Collection	Derived field
Datatype	Transferred (Numeric)	Form	Code
Datatype	Transfer_Type (Alpha))	Form	Text
Field size	1	Layout	NN
Field size	9	Layout	AAAAAAAAA
Code set	vwRefHosp (view table) Transferred: Code Description 0 No 1 Yes Transfer_Type: Primary = 0 transfer (1 hospital) Secondary = 1 transfer (2 hospitals) Tertiary = 2 transfers (3 hospitals) Four = 3 transfers (4 hospitals) Transferred Transfer_Type 0 Primary 1 Secondary 1 Tertiary 1 Four		
Reporting guide	Derived variable based on source to each hospital		
Related items	Referral Hospital Source		
Purpose	Patient tracking between hospitals. Available on data extracts		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.10 Referral Hospital

Definition	Identification of the hospital campus the person has been transferred from, following separation from that hospital.		
Database Name	ReferralHosp	Collection	Optional
Datatype	Numeric	Form	Code
Field size	3	Layout	NNN
Code set	_hospital (reference table)		
Reporting guide	Admitted patient episodes where the Source is 1: Transfer from Other Hospital (Otherwise, report -2) Report a valid code from the VSTORM Hospital Code Table. The Hospital Code Table is based around the Campus Code Table in the VEMD, but includes further hospitals and health services not listed.		
Purpose	To identify the referring hospital/health service for patient tracking, and the study of transfer patients		
Collection start	2002		
Definition source	VSTORM only		
Code set source	DHHS / VSTORM		

4.11 Hospital Service

Definition	Ambulance service used for patient transport to hospital from the scene of injury or between hospitals.																								
Database Name	Service	Collection	Mandatory																						
Datatype	Numeric	Form	Code																						
Field size	2	Layout	N																						
Code Set	<div>__service (reference table)</div> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>Metropolitan Ambulance Service</td></tr><tr><td>2</td><td>Rural Ambulance Service</td></tr><tr><td>3</td><td>Air Ambulance Victoria</td></tr><tr><td>4</td><td>Other</td></tr><tr><td>5</td><td>Private Car</td></tr><tr><td>6</td><td>Interstate</td></tr><tr><td>7</td><td>Private Ambulance</td></tr><tr><td>8</td><td>Retrieval</td></tr><tr><td>9</td><td>RFDS (Private amb)</td></tr><tr><td>-1</td><td>Unknown</td></tr></tbody></table>			Code	Description	1	Metropolitan Ambulance Service	2	Rural Ambulance Service	3	Air Ambulance Victoria	4	Other	5	Private Car	6	Interstate	7	Private Ambulance	8	Retrieval	9	RFDS (Private amb)	-1	Unknown
Code	Description																								
1	Metropolitan Ambulance Service																								
2	Rural Ambulance Service																								
3	Air Ambulance Victoria																								
4	Other																								
5	Private Car																								
6	Interstate																								
7	Private Ambulance																								
8	Retrieval																								
9	RFDS (Private amb)																								
-1	Unknown																								
Reporting guide	-																								
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning																								
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting																								
Collection start	2001																								
Definition source	VSTORM only																								
Code source	VSTORM																								

4.12 Service specify

Definition	Free text field to record the service to hospital		
Database Name	ServiceOther	Collection	Mandatory if hospital service=4
Datatype	Numeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAA
Code Set	Free text		
Reporting guide	-		
Purpose	To record what method of transport the patient used to arrive at hospital		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code source	VSTORM		

4.13 Hospital Air Mode of Transport

Definition	Mode of Air Transport of service used for patient transport to hospital.		
Database Name	Mode	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_mode (reference table)		
	Code	Description	
	1	Fixed wing	
	2	Helicopter	
	-1	Unknown	
	-2	Not applicable	
Reporting guide	1,2 Only for Admission		
Purpose	To monitor patterns of air ambulance usage for the purpose of ambulance policy and planning		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.14 Trauma Team Activation

Definition	Indicates whether a trauma team was activated		
Database Name	TraumaTeam	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-1	Unknown	
	-2	Not Applicable	
Reporting guide	-2 used where no Trauma Team process is in place at the health service		
Related items	-		
Purpose	Hospital Systems Performance Quality Indicator		
Data users	DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.15 Triage Category

Definition Classification according to urgency of need for medical and nursing care, using the National Triage Scale

Database Name Triage **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 2 **Layout** N

Code set _triage (reference table)

Code	Description	Recommended time to treatment
1	Resuscitation	Immediate: ≤ 1 minute
2	Emergency	≤ 10 minutes
3	Urgent	≤ 30 minutes
4	Semi urgent	≤ 60 minutes
5	Non urgent	≤ 120 minutes
6	Dead on arrival (inactive)	
-1	Unknown	
-2	Not Applicable	

Reporting guide Every Emergency Department presentation. -2 used if did not present to Emergency Dept.

The Triage Category is to be allocated by an experienced registered nurse or medical practitioner, even when the patient did not wait for treatment to commence OR if registration was commenced but not completed.

Changes in triage category

It is recognised that triage categories may alter during a presentation. The following guideline should be followed when a patient changes Triage Category during an emergency presentation:

- If the triage category of a patient is altered during their presentation, the original Triage Category is to be transmitted to VSTORM (regardless of whether the re-categorisation is higher or lower)
- Changes in Triage Categories may be recorded locally but should not be submitted to the VSTORM; only the original Triage Category should be reported.

6 - Dead on arrival

This item is not used as they do not meet the VSTORM inclusion criteria.

Purpose To identify and monitor the urgency of a patient's presentation and corresponding time to treatment

Data users Hospital Emergency Departments

Collection start 2001

Definition source VSTORM only

Code set source Australasian College for Emergency Medicine / DHHS / NHDD

4.16 Hospital First Recorded Pulse

Definition	First recorded pulse of patient on arrival at each hospital, as applicable.		
Database Name	Pulse (Depending on transfer type: PrimHosp_Pulse, RefHosp3_Pulse, RefHosp2_Pulse, RefHosp1_Pulse, DefHosp_Pulse)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	Pulse must be between -1 and 300 -1 indicates that a pulse was not recorded 0 indicates that patient has no recordable pulse		
Purpose	Used as a proxy measure to assess injury severity.		
Data users	Health Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.17 Hospital First Recorded Systolic Blood Pressure

Definition	First recorded systolic blood pressure on arrival at each hospital, as applicable.		
Database Name	BloodPressure (Depending on transfer type: PrimHosp_ BloodPressure, RefHosp3_ BloodPressure, RefHosp2_ BloodPressure, RefHosp1_ BloodPressure, DefHosp_ BloodPressure)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	Must be between -1 and 300 -1 indicates that blood pressure was not recorded 0 indicates that patient has no recordable blood pressure		
Purpose	This is an important component of several scoring systems for triage and is one assessment of patient acuity. TRISS Calculation		
Data users	Health Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.18 Hospital First Recorded Respiration Rate

Definition	First recorded unassisted patient respiratory rate (expressed as number per minute), arrival at each hospital, as applicable.		
Database Name	Respiration (Depending on transfer type: PrimHosp_ Respiration, RefHosp3_ Respiration, RefHosp2_ Respiration, RefHosp1_ Respiration, DefHosp_ Respiration)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Reporting guide	Must be between -1 and 99 -1 indicates that respiration rate was not recorded		
Purpose	Component of several triage scoring systems and provides one assessment of severity of illness or surgery. TRISS Calculation		
Data users	Health Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.19 Hospital First Recorded Respiration Rate Qualifier

Definition	Whether the respiration rate at each hospital, as applicable, is legitimate with no forms of mechanical or assisted ventilation.		
Database Name	RespQualifier (Depending on transfer type: PrimHosp_RespQualifier, RefHosp3_RespQualifier, RefHosp2_RespQualifier, RefHosp1_RespQualifier, DefHosp_RespQualifier)		
Collection	Mandatory		
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_respQualifier (reference table)		
	Code	Description	
	1	Legitimate	
	2	Mechanical Ventilation	
	3	Bag Mask Ventilation	
	-1	Unknown	
Purpose	To qualify first recorded respiration rate		
Data users	Health Services, DHHS Reporting		
Collection start	1/7/2005		
Definition source	VSTORM only		
Code set source	VSTORM		

4.20 Hospital First Recorded Oxygen Saturation

Definition	First recorded oxygen saturation		
Database Name	Oxygen (Depending on transfer type: PrimHosp_Oxygen, RefHosp3_Oxygen, RefHosp2_Oxygen, RefHosp1_Oxygen, DefHosp_Oxygen)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Reporting guide	Must be between -1 and 300 -1 indicates that oxygen saturation was not recorded		
Purpose	Used as a proxy measure to assess injury severity.		
Data users	Health Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.21 Hospital First Recorded Oxygen Fraction

Definition	The fraction of inspired oxygen delivered at the time the oxygen saturation was measured, on arrival at each hospital, as applicable.		
Database Name	OxygenFraction (Depending on transfer type: PrimHosp_OxygenFraction, RefHosp3_OxygenFraction, RefHosp2_OxygenFraction, RefHosp1_OxygenFraction, DefHosp_OxygenFraction)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Code set	-		

Reporting guide The fraction of inspired oxygen delivered by facemasks or nasal catheters will be dependent on various factors such as patient ventilation, how well the mask is sealed, and peak inspiratory flow rate.

-1 indicates that the fraction of inspired oxygen was not recorded.

The table below shows the approximate conversion of litres per minute to fraction of inspired oxygen.

Oxygen flow rate (l/min)	Approximate Fraction
Room air	21%
4 l/min	35%
6 l/min	50%
8 l/min	55%
10 l/min	60%
12 l/min	65%
15 l/min	70%

(Oh TE, 1997, Intensive Care Manual, 4th Edition, Butterworth Heinemann)

Purpose	The amount of oxygen delivered to a patient has a direct impact on the oxygen saturation measurement.
Collection start	2001
Definition source	VSTORM only
Code set source	VSTORM

4.22 Hospital First Recorded Temperature

Definition	First recorded temperature (in Celsius) on arrival at each hospital, as applicable.		
Database Name	Temperature (Depending on transfer type: PrimHosp_Temperature, RefHosp3_Temperature, RefHosp2_Temperature, RefHosp1_Temperature, DefHosp_Temperature)		
Collection	Mandatory		
Datatype	Numeric	Form	Decimal
Field size	4	Layout	NN.N
Code set	-		
Reporting guide	Temperature must be between 20.0 and 50.0 -1 indicates Unknown		
Purpose	Temperature is a useful measurement of patient vital status. While minor temperature variations are generally non-specific diagnostic tools, remarkable high or low temperatures can signal significant organ decomposition for the injured patient. Hypothermia can present significant issues.		
Data users	Clinicians, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.23 Hospital First Recorded pH

Definition	Documents the measure of acidity or alkalinity (arterial or venous) in a patient on arrival at each hospital, as applicable.		
Database Name	pH (Depending on transfer type: PrimHosp_pH, RefHosp3_pH, RefHosp2_pH, RefHosp1_pH, DefHosp_pH)		
Collection	Mandatory		
Datatype	Numeric	Form	Number
Field size	4	Layout	
Code Set	-		
Reporting guide	<p>Between 6.8 and 7.8, or -1</p> <p>The reference range for arterial pH is between 7.36 and 7.44, however, the range allowed by VSTORM is the limit of survival, which is between 6.8 and 7.8.</p> <p>-1 indicates that there was no recorded pH value</p>		
Purpose	To aid in the assessment of a patient's condition on arrival		
Data users	Clinicians, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.24 Hospital First Recorded GCS - Eye

Definition Indication of the responsiveness to stimuli by eye opening, first recorded on arrival at each hospital, as applicable.

Database Name GCSEye (Depending on transfer type: PrimHosp_Eye, RefHosp3_Eye, RefHosp2_Eye, RefHosp1_Eye, DefHosp_Eye)

Collection Mandatory

Datatype Numeric **Form** Integer

Field size 2 **Layout** N

Code set _gcsEye (reference table)

Score	Adult	Child	Infant
4	Spontaneous	Spontaneous	Spontaneous
3	Voice	Verbal Stimuli	Verbal Stimuli
2	Pain	Pain	Pain
1	None	No Response	No Response
-1	No recorded value		

Reporting guide -

Related items GCS Verbal, GCS Motor, GCS Qualifier, GCS Total

Purpose This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness
TRISS Calculation

Data users Health Services, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM

4.25 Hospital First Recorded GCS - Verbal

Definition	Indication of the style of verbal response from a patient on arrival at each hospital, as applicable.		
Database Name	GCSVerbal (Depending on transfer type: PrimHosp_Verbal, RefHosp3_Verbal, RefHosp2_Verbal, RefHosp1_Verbal, DefHosp_Verbal)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	2	Layout	N
Code set	_gcsVerbal (reference table)		

Score	Adult	Child	Infant
5	Oriented	Oriented	Coos, babbles
4	Confused	Confused	Irritable, cries
3	Inappropriate words	Inappropriate words	Cries to pain
2	Incomprehensible words	Cries, Incomprehensible sounds	Moans to pain
1	None	No response	No response
-1	No recorded value		

Reporting guide	-
Related items	GCS Eye, GCS Motor, GCS Qualifier, GCS Total
Purpose	This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness TRISS Calculation
Data users	Health Services, DHHS Reporting
Collection start	2001
Definition source	VSTORM only
Code set source	Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM

4.26 Hospital First Recorded GCS - Motor

Definition Indication of motor response from a patient on arrival at each hospital, as applicable.

Database Name GCSMotor (Depending on transfer type: PrimHosp_Motor, RefHosp3_Motor, RefHosp2_Motor, RefHosp1_Motor, DefHosp_Motor)

Collection Mandatory

Datatype Numeric **Form** Integer

Field size 2 **Layout** N

Code set _gcsMotor (reference table)

Score	Adult	Child	Infant
6	Obeys commands	Obeys commands	Moves spontaneously
5	Localises pain	Localises painful stimulus	Withdraws to touch
4	Withdraws to pain	Withdraws to pain	Withdraws to pain
3	Flexion in pain	Flexion to pain	Decorticate posturing to pain
2	Extension to pain	Extension to pain	Decerebrate posturing to pain
1	None	No Response	No Response
-1	No recorded value		

Reporting guide -

Related items GCS Eye, GCS Verbal, GCS Total, GCS Qualifier

Purpose This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness
TRISS Calculation

Data users Health Services, DHHS Reporting

Collection start 2001

Definition source VSTORM only

Code set source Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM

4.27 Hospital First Recorded GCS - Total

Definition	The sum of the three Glasgow Coma Scale components on arrival at each hospital, as applicable: Eye Opening, Verbal Response and Motor Response.		
Database Name	GCSTotal (Depending on transfer type: PrimHosp_GCSTotal, RefHosp3_GCSTotal, RefHosp2_GCSTotal, RefHosp1_GCSTotal, DefHosp_GCSTotal)		
Collection	Mandatory		
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Code set	-		
Reporting guide	Values must be between 3 and 15 or -1 -1 is used only when a score cannot be calculated		
Related items	GCS Eye, GCS Verbal, GCS Motor, GCS Qualifier		
Purpose	This is an important component of several scoring systems and is useful in the assessment of coma and impaired consciousness TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM		

4.28 Hospital First Recorded GCS - Qualifier

Definition	Indication of the legitimacy of the first calculated Glasgow Coma Scale on arrival at each hospital, as applicable		
Database Name	GCSQualifier (Depending on transfer type: PrimHosp_GCSQualifier, RefHosp3_GCSQualifier, RefHosp2_GCSQualifier, RefHosp1_GCSQualifier, DefHosp_GCSQualifier)		
Collection	Mandatory		
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_gcs (reference table)		
	Code	Description	
	1.	Legitimate	
	2.	Sedated	
	3.	Intubated	
	4.	Paralysed and intubated	
	5.	Sedated and intubated	
	6.	Altered by database	
	7.	Existing Neuro Deficit	
	-1	Unknown	
Reporting guide	-		
Related items	GCS Eye, GCS Verbal, GCS Motor, GCS Total		
Purpose	This must be known in order to evaluate the legitimacy of the Glasgow Coma Scale, which impacts on several trauma scoring systems. TRISS Calculation		
Data users	Ambulance Services, DHHS Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Trauma Databank Dictionary, American College of Surgeons		

4.29 First 24 Hours Intubation

Definition	Definitive airway management (this includes LMA) in the first 24 hours (in Emergency Department or ICU). Only record intubation in the Operating Room if it occurs in the first 24 hours, and the patient is not extubated after surgery. Knowledge of the procedures performed in the ED is necessary in identifying quality control indicators and as a proxy measurement for severity of injury (NTDB, American College of Surgeons). If a patient has been intubated prior to the emergency department, either from the ambulance service or referral hospital, record NO.										
Database Name	Intubation (Depending on transfer type: PrimHosp_Intubation, RefHosp3_Intubation, RefHosp2_Intubation, RefHosp1_Intubation, DefHosp_Intubation)										
Collection	Mandatory										
Datatype	Numeric	Form	Code								
Field size	1	Layout	N								
Code set	<div>_questionNA (reference table)</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes</td></tr><tr><td>-1</td><td>Unknown</td></tr></table>			Code	Description	0	No	1	Yes	-1	Unknown
Code	Description										
0	No										
1	Yes										
-1	Unknown										
Reporting guide	Record if patient was intubated within 24 hours of arrival at the hospital (otherwise intubation is recorded in pre-hospital data or as a procedure in the operation table).										
Related Items	Intubation Date										
Purpose	Hospital Systems Performance Quality Indicator										
Data users	DHHS Reporting, Epidemiologists										
Collection start	2001										
Definition source	VSTORM only										
Code set source	VSTORM										

4.30 First 24 Hours Intubation Date

Definition	Date and time the patient received definitive airway management in the first 24 hours		
Database Name	IntubationDate Intubation (Depending on transfer type: PrimHosp_IntubationDate, RefHosp3_IntubationDate, RefHosp2_IntubationDate, RefHosp1_IntubationDate, DefHosp_IntubationDate)		
Collection	Mandatory if Intubation = 1 (yes)		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date after 01/07/2001 and valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>Only if intubation occurred in the first 24 hours (otherwise intubation is recorded as a procedure in the operation table).</p> <p>If date/time was not documented, use 09/09/9999 00:00</p> <p>Midnight</p> <p>Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Related Items	Intubation		
Purpose	Calculation of Time To Intubation		
Data users	DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.31 First 24 Hours Head CT

Definition	Whether the patient received first computed tomography of the head during the first 24 hours of admission		
Database Name	CT	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-1	Unknown	
Reporting guide	-		
Related Items	Head CT Date		
Purpose	Hospital Systems Performance Quality Indicator		
Data users	DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.32 First 24 Hours Head CT Date

Definition	Date and time the patient received first computed tomography of the head during the first 24 hours of admission		
Database Name	HeadCT (Depending on transfer type: PrimHosp_HeadCT, RefHosp3_HeadCT, RefHosp2_HeadCT, RefHosp1_HeadCT, DefHosp_HeadCT)		
Collection	Optional		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date after 01/07/2001 and valid 24-hour time (not 00:00 or 24:00) and less than 24 hours after Arrival		
Reporting guide	Only if Head CT occurred in emergency department within 24 hours. If date/time was not documented, use 09/09/9999 00:00 Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Related Items	Head CT		
Purpose	Calculation of Time To Head CT Hospital Systems Performance Quality Indicator		
Data users	DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.33 Alcohol Test Type

Definition	The type of alcohol test used		
Database Name	<i>AlcoholTestType</i>	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	2	Layout	N
Code set	<i>_alcoholtest</i> (reference table)		
	Code	Description	
	1	Results were from blood test	
	2	Results were from breath test	
	-1	Police Test	
	-2	Alcohol detected but no value	
	-3	No test results available	
	9	Unknown Test Type	
Reporting guide	This field must be completed for all episodes of care. 1 or 2 must be indicated if the value of Alcohol Test is not -1 or -2		
Purpose	Alcohol can affect a patient's Glasgow Coma Scale, and has also been associated with outcomes. All patients in road crashes are legally required to be tested for alcohol, therefore if emergency departments do not complete this test, there may be potential legal issues.		
Data users	Clinicians		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.34 Alcohol Amount

Definition The amount and/or type of alcohol test completed.

Database Name Alcohol (gm%) **Collection** Optional

Datatype Numeric **Form** Decimal

Field size 4 **Layout** N.NN

Code set -

Reporting guide Range = -3 – 1

Code	Description
-1	Police Test
-2	Alcohol detected but no value
-3	No test results available

0.00 – 1.00 Indicates the tested blood alcohol concentration in gm%
Measurements in mmol/L are not allowed.

When both blood and breath tests results are available, the blood result will be used.

Formula for conversion of Ethanol mmol/L to gm%:
 $\text{gm\%} = (\text{mmol/L}) / 217.1$

Purpose Alcohol can affect a patient's Glasgow Coma Scale, and has also been associated with outcomes. All patients in road crashes are legally required to be tested for alcohol.

Data users Clinicians

Collection start 2001

Definition source VSTORM only

Code set source VSTORM

4.35 Departure Status

Definition	Patient status and/or destination on departure from the Emergency Department		
Database Name	DepartureStatus	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_departurestatus (reference table)		
	Code	Description	
	1	Ward	
	2	ICU	
	3	OR/Angio then Ward	
	4	OR/Angio then Death	
	5	OR/Angio then ICU	
	6	Death in ED	
	7	Transfer	
	8	OR/Ang then Transfer	
	9	Other (Specify)	
	-1	Unknown	
Reporting guide	-		
Purpose	To identify and monitor the status and location of patients on departure from the ED		
Data users	Data Collectors, Clinicians		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS /VSTORM		

4.36 Departure Status other

Definition	Other departure status specified		
Database Name	DepStatusOther	Collection	Mandatory if departurestatus=9
Datatype	Aphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAAAAAA
Code set	-		
Reporting guide	Recorded if departure status = 9 (other, specify)		
Purpose	To identify and monitor the status and location of patients on departure from the ED		
Data users	Data Collectors, Clinicians		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

4.38 Departure Time

Definition	The date and time the patient physically leaves the Emergency Department		
Database Name	DepartureTime	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	Must be no earlier than Arrival Date and Time		
	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Calculation of Time in Emergency Department		
Data users	Data Collectors, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

4.39 ICU Length of Stay

Definition	Length of stay, in days, that the patient spent in an Intensive Care Unit (ICU) during their length of stay at the hospital.		
Database Name	ICU Days	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Code set	Must be between -1 and 365 -1 indicates an unknown length of stay 0 indicates the patient was not admitted to ICU during stay at the hospital		
Reporting guide	ICU Length of Stay is recorded in days and rounded up to the next day such that any time spent in ICU after midnight, time code 00:00, qualifies as a day in ICU. The total days in ICU should include the initial days in an ICU as well as subsequent days spent as a readmission to an ICU after discharge to the step down unit or the floor. Part of a day is counted as 1 day (eg. 2 nd July to 8 th July = 7 Days) ICUDays in main table refers to number of days in ICU at definitive care hospital.		
Purpose	ICU length of stay is one important measure of the patient care process.		
Data users	DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	NTDB/VSTORM		

4.40 ICU Greater Than 24 Hours_ICU hours

Definition Whether the length of stay in an Intensive Care Unit was greater than 24 hours.

Database Name ICU24 **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code set _question (reference table)

Code **Description**

0 No

1 Yes

-1 Unknown

Reporting guide -

Purpose The Ministerial Taskforce and Emergency Services 1999 defined admission to an Intensive Care Unit for more than 24 hours requiring mechanical ventilation as one definition for major trauma.

Data users DHHS Reporting, Epidemiologists

Collection start 2019

Definition source VSTORM only

Code set source VSTORM

Definition Hours in ICU to validate ICU greater than 24 hours

Database Name ICUHours **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code set -

Reporting guide 0 if did not go to ICU, -1 if hours in unknown, value of known hours in ICU.

Purpose The Ministerial Taskforce and Emergency Services 1999 defined admission to an Intensive Care Unit for more than 24 hours requiring mechanical ventilation as one definition for major trauma.

Data users DHHS Reporting, Epidemiologists

Collection start 2001

Definition source VSTORM only

Code set source VSTORM

4.41 Ventilated Hours

Definition	The number of hours of mechanical ventilator assistance of an airway the patient received (includes in ED and ICU if applicable).		
Database Name	Ventilated	Collection	Optional
Datatype	Numeric	Form	Integer
Field size	3	Layout	NNN
Code set	-		
Reporting guide	<p>-1 indicates an unknown number of hours ventilated</p> <p>Includes all intubated patients on ventilators, or patients with tracheostomies while on mechanical ventilation</p> <p>Excludes tracked patients breathing on flow-bys, patients breathing mask oxygen, and patients intubated only part of a day for a surgical procedure</p> <p>Ventilated in main table refers to number of hours of mechanical ventilation at definitive care hospital</p>		
Purpose	The Ministerial Taskforce and Emergency Services 1999 defined admission to an Intensive Care Unit for more than 24 hours requiring mechanical ventilation as one criteria for major trauma		
Data users	DHHS Reporting, Clinicians, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

4.42 Blood Given after 24 hours

Definition	Indicates whether the patient received a blood transfusion after the first 24 hours of hospital stay. This does not include blood products such as platelets and albumin.		
Database Name	BloodGiven	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_question (reference table)		
	Code	Description	
	1	Yes	
	0	No	
	-1	Unknown	
Purpose	-		
Data users	Clinicians, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

4.43 Paediatric Airway

Definition	Indicates whether the patient's airway was maintainable on arrival at emergency department														
Database Name	PaediatricAirway	Collection	Optional												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Patient airway is normal</td></tr><tr><td>1</td><td>Patient airway is maintainable</td></tr><tr><td>-1</td><td>Patient airway is unmaintainable</td></tr><tr><td>9</td><td>Patient airway status was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Patient airway is normal	1	Patient airway is maintainable	-1	Patient airway is unmaintainable	9	Patient airway status was not recorded	-2	Not Applicable
Code	Description														
2	Patient airway is normal														
1	Patient airway is maintainable														
-1	Patient airway is unmaintainable														
9	Patient airway status was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The airway status of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.44 Paediatric CNS

Definition	Indicates the status of the patient's central nervous system on arrival at emergency department														
Database Name	PaediatricCNS	Collection	Optional												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Patient is awake</td></tr><tr><td>1</td><td>Patient airway is maintainable</td></tr><tr><td>-1</td><td>Patient airway is unmaintainable</td></tr><tr><td>9</td><td>Patient airway status was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Patient is awake	1	Patient airway is maintainable	-1	Patient airway is unmaintainable	9	Patient airway status was not recorded	-2	Not Applicable
Code	Description														
2	Patient is awake														
1	Patient airway is maintainable														
-1	Patient airway is unmaintainable														
9	Patient airway status was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The airway status of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.45 Paediatric Cutaneous

Definition	Indicates the status of the patient's cutaneous injury on arrival at emergency department														
Database Name	PaediatricCutaneous	Collection	Optional												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Patient has no cutaneous injury</td></tr><tr><td>1</td><td>Patient has minor cutaneous</td></tr><tr><td>-1</td><td>Patient has major/penetrating cutaneous injury</td></tr><tr><td>9</td><td>Patient cutaneous injury was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Patient has no cutaneous injury	1	Patient has minor cutaneous	-1	Patient has major/penetrating cutaneous injury	9	Patient cutaneous injury was not recorded	-2	Not Applicable
Code	Description														
2	Patient has no cutaneous injury														
1	Patient has minor cutaneous														
-1	Patient has major/penetrating cutaneous injury														
9	Patient cutaneous injury was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The cutaneous injury status of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.46 Paediatric Skeletal Injury

Definition	Indicates the status of the patient's skeletal injury on arrival at emergency department														
Database Name	PaediatricSkeletal	Collection	Optional												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Patient has no skeletal injury</td></tr><tr><td>1</td><td>Patient has single closed fracture</td></tr><tr><td>-1</td><td>Patient has open or multiple fractures</td></tr><tr><td>9</td><td>Patient skeletal injury was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Patient has no skeletal injury	1	Patient has single closed fracture	-1	Patient has open or multiple fractures	9	Patient skeletal injury was not recorded	-2	Not Applicable
Code	Description														
2	Patient has no skeletal injury														
1	Patient has single closed fracture														
-1	Patient has open or multiple fractures														
9	Patient skeletal injury was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The skeletal injury status of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.47 Paediatric Weight

Definition	Indicates the patient's weight range.														
Database Name	PaediatricWeight	Collection	Optional												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Patient weighs over 20 kilograms</td></tr><tr><td>1</td><td>Patient weighs between 10 and 20 kilograms</td></tr><tr><td>-1</td><td>Patient weighs less than 10 kilograms</td></tr><tr><td>9</td><td>Patient's weight was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Patient weighs over 20 kilograms	1	Patient weighs between 10 and 20 kilograms	-1	Patient weighs less than 10 kilograms	9	Patient's weight was not recorded	-2	Not Applicable
Code	Description														
2	Patient weighs over 20 kilograms														
1	Patient weighs between 10 and 20 kilograms														
-1	Patient weighs less than 10 kilograms														
9	Patient's weight was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The weight of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children.														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.48 Paediatric BP

Definition	Indicates the patient's BP on arrival.														
Database Name	PaediatricBP	Collection	Derived												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Systolic BP>90mmHg</td></tr><tr><td>1</td><td>Systolic BP 50-90mmHg</td></tr><tr><td>-1</td><td>Systolic BP<50mmHg</td></tr><tr><td>9</td><td>Systolic BP was not recorded</td></tr><tr><td>-2</td><td>Not Applicable</td></tr></table>			Code	Description	2	Systolic BP>90mmHg	1	Systolic BP 50-90mmHg	-1	Systolic BP<50mmHg	9	Systolic BP was not recorded	-2	Not Applicable
Code	Description														
2	Systolic BP>90mmHg														
1	Systolic BP 50-90mmHg														
-1	Systolic BP<50mmHg														
9	Systolic BP was not recorded														
-2	Not Applicable														
Reporting guide	All patients under 16 years of age in all episodes of care														
Purpose	The weight of a child is one component of the Paediatric Trauma Score (PTS), which was developed as a field triage tool for children.														
Data users	Paediatricians														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

4.49 Service Retrieval other (Inactive)

Definition	Other retrieval service		
Database Name	VSTORM	Collection	Currently inactive
Datatype	Alphanumeric	Form	Text
Field size	-	Layout	-
Code Set	-		
Reporting guide	-		
Purpose	-		
Data users	-		
Collection start	-		
Definition source	VSTORM		
Code set source	VSTORM		

4.50 VSTORM

Definition	The VSTORM status of the case.										
Database Name	VSTORM	Collection	System generated								
Datatype	Numeric	Form	Code								
Field size	1	Layout	N								
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Case meets VSTORM criteria</td></tr><tr><td>0</td><td>Case doesn't meet VSTORM criteria</td></tr><tr><td>-1</td><td>VSTORM criteria unknown</td></tr></table>			Code	Description	1	Case meets VSTORM criteria	0	Case doesn't meet VSTORM criteria	-1	VSTORM criteria unknown
Code	Description										
1	Case meets VSTORM criteria										
0	Case doesn't meet VSTORM criteria										
-1	VSTORM criteria unknown										
Reporting guide	All patients on the registry will be allocated a VSTORM status. This can be updated by the Registry data manager.										
Purpose	Determine if a patient meets VSTORM criteria.										
Data users	VSTORM Staff, DHHS Reporting										
Collection start	2001										
Definition source	VSTORM only										
Code set source	VSTORM										

4.51 Major

Definition	The VSTORM major status of the case.										
Database Name	Major	Collection	System generated								
Datatype	Numeric	Form	Code								
Field size	1	Layout	N								
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Case meets VSTORM major trauma criteria Variables criteria met (1=yes, 0=No, -1 = Unknown): Dead = In-hospital death ISS15 (ISS12 in main table) = initially met ISS>15, from 1 July 2010 ISS>12 ICUVent = ICU>24 hours with mechanical ventilation Surgery = Urgent surgery Burns20-29 = Burns, 2nd or 3rd degree; partial or full thickness 20-29% (Patients aged 5 years and older: AIS2008 code 912018.3)</td></tr><tr><td>0</td><td>Case doesn't meet VSTORM major trauma criteria</td></tr><tr><td>-1</td><td>VSTORM major trauma criteria unknown</td></tr></table>			Code	Description	1	Case meets VSTORM major trauma criteria Variables criteria met (1=yes, 0=No, -1 = Unknown): Dead = In-hospital death ISS15 (ISS12 in main table) = initially met ISS>15, from 1 July 2010 ISS>12 ICUVent = ICU>24 hours with mechanical ventilation Surgery = Urgent surgery Burns20-29 = Burns, 2 nd or 3 rd degree; partial or full thickness 20-29% (Patients aged 5 years and older: AIS2008 code 912018.3)	0	Case doesn't meet VSTORM major trauma criteria	-1	VSTORM major trauma criteria unknown
Code	Description										
1	Case meets VSTORM major trauma criteria Variables criteria met (1=yes, 0=No, -1 = Unknown): Dead = In-hospital death ISS15 (ISS12 in main table) = initially met ISS>15, from 1 July 2010 ISS>12 ICUVent = ICU>24 hours with mechanical ventilation Surgery = Urgent surgery Burns20-29 = Burns, 2 nd or 3 rd degree; partial or full thickness 20-29% (Patients aged 5 years and older: AIS2008 code 912018.3)										
0	Case doesn't meet VSTORM major trauma criteria										
-1	VSTORM major trauma criteria unknown										
Reporting guide	All VSTORM patients on the registry with definitive care outcome will be allocated a VSTORM major trauma status.										
Purpose	Determine if a patient meets VSTORM major trauma criteria. Stored in vwmajorminor static table. All cases coded according to AIS2008 in the VSTRdata snapshot.										
Data users	VSTORM Staff, DHHS Reporting										
Collection start	2001 – Burns criterion added from date of injury 1 July 2017										
Definition source	VSTORM only										
Code set source	VSTORM										

4.52 VOTOR

Definition	The VOTOR status of the case.										
Database Name	VOTOR	Collection	Derived								
Datatype	Numeric	Form	Code								
Field size	1	Layout	N								
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>2</td><td>Case meets VOTOR criteria</td></tr><tr><td>1</td><td>Case meets VOTOR potential criteria</td></tr><tr><td>0</td><td>Case doesn't meet VOTOR criteria</td></tr></table>			Code	Description	2	Case meets VOTOR criteria	1	Case meets VOTOR potential criteria	0	Case doesn't meet VOTOR criteria
Code	Description										
2	Case meets VOTOR criteria										
1	Case meets VOTOR potential criteria										
0	Case doesn't meet VOTOR criteria										
Reporting guide	All patients on the registry will be allocated a VOTOR status, potential cases will be updated by VOTOR project coordinator. This field can be updated by the VOTOR project coordinator or the Registry data manager.										
Purpose	Determine if a patient meets VOTOR criteria										
Data users	VOTOR Staff, DHHS Reporting										
Collection start	2003										
Definition source	VOTOR only										
Code set source	VOTOR										

4.53 CRG Filter 1 non-MTS transfer

Definition	Did this admission meet Case Review Group (CRG) filter 1, non-MTS transfer?		
Database Name	CaseReviewFilter1	Collection	VSTORM staff only
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-2	Not applicable	
Reporting guide	VSTORM staff to determine if the case met the CRG filter 1, non-MTS transfer		
Purpose	To identify cases that meet the CRG filter for possible presentation at the Department of Health and Human Services CRG meeting.		
Data users	Case Review Group only		
Collection start	2006		
Definition source	VSTORM only		
Code set source	VSTORM		

4.54 CRG Filter 2 non-MTS def care

Definition	Did this admission meet Case Review Group (CRG) filter 2, non-MTS def care?		
Database Name	CaseReviewFilter2	Collection	VSTORM staff only
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-2	Not applicable	
Reporting guide	VSTORM staff to determine if the case met the CRG filter 2, non-MTS def care		
Purpose	To identify cases that meet the CRG filter for possible presentation at the Department of Health and Human Services CRG meeting.		
Data users	Case Review Group only		
Collection start	2006		
Definition source	VSTORM only		
Code set source	VSTORM		

4.55 CRG Filter 3 time critical transfer >6 hours

Definition	Did this admission meet Case Review Group (CRG) filter 3, time critical transfer >6 hours?		
Database Name	CaseReviewFilter3	Collection	VSTORM staff only
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-2	Not applicable	
Reporting guide	VSTORM staff to determine if the case met the CRG filter 3, time critical transfer >6 hours		
Purpose	To identify cases that meet the CRG filter for possible presentation at the Department of Health and Human Services CRG meeting.		
Data users	Case Review Group only		
Collection start	2006		
Definition source	VSTORM only		
Code set source	VSTORM		

4.56 CRG Filter 4 more than 1 transfer (Inactive)

Definition Did this admission meet Case Review Group (CRG) filter 4, more than 1 transfer?

Database Name CaseReviewFilter4 **Collection** VSTORM staff only

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _question (reference table)

Code	Description
0	No
1	Yes
-2	Not applicable

Reporting guide VSTORM staff to determine if the case met the CRG filter 4, more than 1 transfer

Purpose To identify cases that meet the CRG filters for possible presentation at the Department of Health and Human Services CRG meeting.

Data users Case Review Group only

Collection start 2006, ceased for cases with date of injury from April 1 2013

Definition source VSTORM only

Code set source VSTORM

4.57 CRG Selected for presentation

Definition Was this admission selected for presentation at the CRG meeting?

Database Name SelectedForPresentation

Collection VSTORM staff only

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _question (reference table)

Code	Description
0	No
1	Yes
-2	Not applicable

Reporting guide VSTORM staff record if the case was selected for presentation at the CRG meeting.

Purpose To identify cases that were presented at the Department of Health and Human Services CRG meeting.

Data users Case Review Group only

Collection start 2006

Definition source VSTORM only

Code set source VSTORM

4.58 CRG Selected for Health Service Feedback

Definition	Was this admission selected by the CRG for feedback to the Health Service?		
Database Name	SelectedForHealthServiceFeedBack		
Collection	VSTORM staff only		
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_question (reference table)		
	Code	Description	
	0	No	
	1	Yes	
	-2	Not applicable	
Reporting guide	VSTORM staff to record if the case was selected for Health Service feedback.		
Purpose	To identify cases that were selected for Health Service feedback.		
Data users	Case Review Group only		
Collection start	2006		
Definition source	VSTORM only		
Code set source	VSTORM		

4.59 TAC Claim number (not available for data requests)

Definition	Transport Accident Commission (TAC) claim number if compensable fund is TAC and claim number is available		
Database Name	Claim number		
Collection	VSTORM staff and electronic data transfer		
Datatype	Text	Form	Free text
Field size		Layout	
Code Set	-		
Reporting guide	VSTORM staff to record TAC claim number if the compensable fund was TAC and it is available in the medical record. TAC claim numbers received electronically from The Alfred, RMH, RCH, The Austin, The Northern Hospital and Geelong Hospital.		
Purpose	TAC linkage		
Data users	TAC		
Collection start	2001 for electronic transfer, 2015 for manual data entry		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM/VOTOR		

4.60 TAC Claim number status (not available for data requests)

Definition	Status of the Transport Accident Commission (TAC) claim number if compensable fund is TAC (code 1) or cause code is transport related (1,2,3,4,5,6 or 8)		
Database Name	Claim number status		
Collection	Populated in the SQL backend		
Datatype	Text	Form	Free text
Field size		Layout	
Code Set	-		
Reporting guide	-		
Purpose	TAC linkage		
Data users	TAC		
Collection start	2015		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM/VOTOR		

4.61 TAC Claim Number Status date (not available for data requests)

Definition	The date the Transport Accident Commission (TAC) claim number was source (if compensable fund is TAC or cause code is transport related (1,2,3,4,5,6 or 8)).		
Database Name	Claim number status date		
Collection	Populated in the SQL backend		
Datatype	Date	Form	
Field size		Layout	
Code Set	-		
Reporting guide	-		
Purpose	TAC linkage		
Data users	TAC		
Collection start	2015		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM/VOTOR		

5 Injuries

Content	Abbreviated Injury Scale (AIS) 1990 Update 98 and AIS 2008 codes for injuries (from 1 July 2010)
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	Definitive episode of acute care
Data source	Hospital Data Collectors
Database Location	Injury Table (AIS 2008 codes in Injury2008 table (AIS98 mapped to AIS08 codes prior to 1 July 2010)
Reporting Guide	-

5.1 AIS codes and detailed injury descriptions

Definition	Validation of availability of injuries and AIS codes														
Database Name	Injuries	Collection	Mandatory												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<div>_dataavailable</div> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes – Available</td></tr><tr><td>2</td><td>Yes – Not Available</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>N/A - Not applicable</td></tr></tbody></table>			Code	Description	0	No	1	Yes – Available	2	Yes – Not Available	-1	Unknown	-2	N/A - Not applicable
Code	Description														
0	No														
1	Yes – Available														
2	Yes – Not Available														
-1	Unknown														
-2	N/A - Not applicable														
Reporting guide	Record availability of traumatic injuries and AIS codes														
Purpose	Used to validate the availability of injuries and AIS codes														
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists														
Collection start	2001														
Definition source	VSTORM only														
Code set source	Association for the Advancement of Automotive Medicine (AAAM)														

5.2 AIS Code

Definition	The Abbreviated Injury Scale (AIS) code of the injury		
Database Name	AIS	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	7	Layout	NNNNNNN
Code Set	_ais and _ais2008 (reference tables)		
Reporting guide	Refer to the 1998 update of AIS 1990 From injury date 1 July 2010, AIS 2008 is used		
Purpose	Used to categorise injuries and calculate different trauma scores including Injury Severity Score (ISS)		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	Joint Committee on Injury Scaling, 1990. The Abbreviated Injury Scale: 1990 Revision update 98 and AIS 2005© update 2008. Illinois: Association for the Advancement of Automotive Medicine (AAAM).		

5.3 Injury Description

Definition	Text description of AIS coded value		
Database Name	InjDesc	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	350	Layout	AAAAAAAAAAAAAAAAAAAA
Code set	-		
Reporting guide	As much detail as possible on size, depth, type of fracture, location of injury, blood loss etc.		
Purpose	To verify AIS code		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

5.4 ISS Body Region

Definition	The Body Region used to calculate Injury Severity Score (ISS)																
Database Name	BodyRegion	Collection	Derived														
Datatype	Numeric	Form	Code														
Field size	1	Layout	N														
Code Set	<div>_ais and _ais2008 (reference table)</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Head or Neck</td></tr><tr><td>2</td><td>Face</td></tr><tr><td>3</td><td>Thorax</td></tr><tr><td>4</td><td>Abdominal or pelvic contents</td></tr><tr><td>5</td><td>Extremities or pelvic girdle</td></tr><tr><td>6</td><td>External</td></tr></table>			Code	Description	1	Head or Neck	2	Face	3	Thorax	4	Abdominal or pelvic contents	5	Extremities or pelvic girdle	6	External
Code	Description																
1	Head or Neck																
2	Face																
3	Thorax																
4	Abdominal or pelvic contents																
5	Extremities or pelvic girdle																
6	External																
Reporting guide	Derived from AIS code																
Related Items	AIS Code																
Purpose	Injury Severity Score (ISS) Calculation																
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists																
Collection start	2001																
Definition source	VSTORM only																
Code set source	VSTORM																

5.5 Injury Severity Score (ISS)

Definition	The sum of squares of the three highest AIS severities from the three most severely injured body regions		
Database Name	ISS	Collection	Calculated
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Database Location	Outcome Table		
Code Set	-		
Reporting guide	1-75 -1 indicates that AIS injuries were not recorded		
Related items	AIS		
Purpose	To define injury severity for comparative purposes and impact on outcomes. ISS>12 (based on AIS2008) = major trauma		
Data users	VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	Baker SP, O'Neill B, Haddon W, et al. The injury severity score: A method for describing patients with multiple injuries and evaluating emergency care. J Trauma 1974; 14: 187-196.		

5.6 Max AIS08 for AIS Body Region

Definition	Maximum AIS severity code		
Database Name	BodyRegion	Collection	Derived
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_ais2008 (reference table)		
	Code	Description/column headers	
	1	Head	
	2	Face	
	3	Neck	
	4	Thorax	
	5	Abdominal or pelvic contents	
	6	Spine	
	7	Upper extremity	
	8	Lower extremity	
	9	External and other	
	Severity range		
	Code	Description	
	1	Minor	
	2	Moderate	
	3	Serious	
	4	Severe	
	5	Critical	
	6	Maximal	
	Null	No injuries in that body region	
Reporting guide	Derived from maximum AIS code severity		
Related Items	AIS Code		
Purpose	Injury groupings		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

6 Operations and Procedures

Content	Operations and procedure performed on the patient in the treatment of their admitted injury.
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All patient episodes of acute care where operations or procedures were performed
Data source	Hospital Data Collectors
Database Location	Operation Table
Reporting Guide	-

6.1 Operations or procedures performed

Definition	Validation of operations or procedures for this admission														
Database Name	operations	Collection	Mandatory												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<div>_dataavailable</div> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes – Available</td></tr><tr><td>2</td><td>Yes – Not Available</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>N/A - Not applicable</td></tr></tbody></table>			Code	Description	0	No	1	Yes – Available	2	Yes – Not Available	-1	Unknown	-2	N/A - Not applicable
Code	Description														
0	No														
1	Yes – Available														
2	Yes – Not Available														
-1	Unknown														
-2	N/A - Not applicable														
Reporting guide	Record if any operations or procedures were performed for this admission														
Purpose	Used to validate if any operations or procedures were performed for this admission														
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists														
Collection start	2001														
Definition source	VSTORM only														
Code set source	VSTORM														

6.2 Operation Code

Definition	Defines an operation performed on the patient in the treatment of their admitted injury.		
Database Name	Operation	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	4	Layout	NNNN
Code set	_operation (reference table)		
Reporting guide	All patient episodes of care where an operation or procedure was performed to treat their admitted injury		
Purpose	To enable analysis of patient management and treatment.		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2002		
Definition source	VSTORM only		
Code set source	VSTORM / The Alfred Hospital		

6.3 Operation Start Time

Definition	The date and time an operation or procedure started.		
Database Name	OpStart	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date after 01/07/2001 and valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	This date must be greater than or equal to the Admission Date and Time		
	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Time to operation is a valuable quality indicator		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

6.4 Operation Finish Time

Definition	The date and time an operation finished.		
Database Name	OpFinish	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code Set	A valid date after 01/07/2001 and valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	<p>All patient episodes of care where an operation to treat their admitted injury was performed. Procedures do not require a finish date and time and are entered as 09/09/9999 00:00 (or auto populated with 08/08/8888 00:00).</p> <p>This date must be after the respective Operation/Procedure Start Date</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	Time to operation is a valuable quality indicator		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

6.5 Operation Urgent

Definition	Indicates whether an operation is urgent, and therefore classed as major trauma		
Database Name	OpUrgent	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_opurgent (reference table)		
	Code	Description	
	0	No	
	1	Potentially	
	2	Yes	
Reporting guide	Auto populated according to operation code. OpUrgent = 1 need to be verified by VSTORM staff		
Related items	Operation code		
Purpose	Major Trauma criteria, from 1 July 2006 urgent surgery must be within 48 hours of arrival at the health service		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

6.6 Operation Description

Definition	Text description of coded operation		
Database Name	OpDesc	Collection	Mandatory
Datatype	Alphanumeric	Form	Text
Field size	500	Layout	AAAAAAAAAAAAAAAAAAAA
Code set	-		
Reporting guide	As much detail as possible describing the operation		
Purpose	To verify Operation code		
Data users	Data Collectors, VSTORM Staff		
Collection start	2001		
Definition source	VSTORM only		
Code set source	DHHS/VSTORM		

7 ICD-10-AM Diagnoses

Content	ICD10-AM diagnosis codes and prefixes
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All episodes of acute care
Data source	Hospital Medical Record
Database Location	icdDiag Table
Reporting Guide	<p>The International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Australian Modification (ICD-10-AM) is based on the official version of the World Health Organisation's 10th Revision. ICD-10-AM is designed for classification of morbidity and mortality information for statistical purposes and for the indexing of hospital records by disease and operations, for data storage and retrieval. ICD-10-AM ninth edition (1 July 2015) was developed by the Australian Consortium for Classification Development (ACCD). ACCD has been contracted by the Independent Hospital Pricing Authority (IHPA) to develop the Australian Refined Diagnosis Refined Diagnosis Related Groups (AR-DRG) Classification System. The ICD-10-AM is a component of this system.</p> <p>When a patient has been discharged Health Information Services coding staff will assign ICD-10-AM codes on the patients' discharge summary or separate sheet. This will enable the registry to collect detailed information on all aspects of the patient's stay including complications. Includes all diagnosis codes and their prefixes.</p>

7.1 ICD-10-AM Diagnoses coded for this admission

Definition	Validation of ICD-10-AM codes for this admission														
Database Name	ICDdiags	Collection	Mandatory												
Datatype	Numeric	Form	Code												
Field size	1	Layout	N												
Code Set	<div>_dataavailable</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes – Available</td></tr><tr><td>2</td><td>Yes – Not Available</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>N/A - Not applicable</td></tr></table>			Code	Description	0	No	1	Yes – Available	2	Yes – Not Available	-1	Unknown	-2	N/A - Not applicable
Code	Description														
0	No														
1	Yes – Available														
2	Yes – Not Available														
-1	Unknown														
-2	N/A - Not applicable														
Reporting guide	Record if any ICD-10-AM diagnosis codes are available for this admission														
Purpose	Used to validate if any ICD-10-AM diagnosis codes are available for this admission														
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists														
Collection start	2001														
Definition source	VSTORM and VOTOR														
Code set source	DHHS/VSTORM														

7.2 ICD-10-AM Diagnosis Code

Definition	The ICD-10-AM diagnosis is the decision reached, after assessment, of the nature and identity of the disease, morbid condition or injuries of a patient.		
Database Name	ICDDiag	Collection	Mandatory
Datatype	Alphanumeric	Form	Code
Field size	5	Layout	ANNNN
Code set	_icddiag (reference table – See ICD10-AM Manual, Tenth edition, 2017)		
Reporting guide	-		
Purpose	Diagnostic		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	AIHW, WHO, DHHS, ICD-10-AM (Ninth edition, 1 July 2015), Updated Tenth edition, 2017		

7.3 DHHS Prefix

Definition	Describes what the accompanying ICD-10 AM diagnosis code		
Database Name	Prefix	Collection	Mandatory
Datatype	Alphanumeric	Form	Code
Field size	1	Layout	A
Code set	_icdprefix (reference table)		
	Code	Description	
	P	Primary Diagnoses	
	A	An Associated Condition	
	C	Complications	
	M	Morphology codes	
	O	Other	
Reporting guide	-		
Purpose	To qualify the ICD-10 code		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	DHHS (Modified)		

8 ACHI Procedures

Content	ACHI procedure codes
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All episodes of acute care
Data source	Hospital Medical Record
Database Location	icdProc Table
Reporting Guide	Australian Classification of Health Intervention (ACHI) ninth edition (1 July 2015) was developed by the Australian Consortium for Classification Development (ACCD). ACCD has been contracted by the Independent Hospital Pricing Authority (IHPA) to develop the Australian Refined Diagnosis Refined Diagnosis Related Groups (AR-DRG) Classification System. The ACHI is a component of this system.

8.1 ACHI Procedures coded for this admission

Definition Validation of ACHI (Australian Classification of Health Intervention) codes for this admission

Database Name ICDprocs **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _dataavailable

Code	Description
0	No
1	Yes – Available
2	Yes – Not Available
-1	Unknown
-2	N/A - Not applicable

Reporting guide Record if any ACHI procedure codes are available for this admission

Purpose Used to validate if any ACHI procedure codes are available for this admission

Data users Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists

Collection start 2001

Definition source VSTORM and VOTOR

Code set source DHHS (Modified)

8.2 ACHI Procedure Code

Definition	The procedures coded with an ACHI (Australian Classification of Health Intervention) code.		
Database Name	ICDProc	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	7	Layout	NNNNNNN
Code set	_icdproc (reference table – See ACHI Manual)		
Reporting guide	-		
Purpose	To monitor and compare outcomes of patients with particular procedures		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	AIHW, WHO, DHHS, ACHI		
Code set source	ACHI ninth edition 1 July 2015, updated to ACHI tenth edition 2017		
Definition source	VSTORM and VOTOR		
Code set source	DHHS (Modified)		

8.3 Implant

Definition	Implant used in surgical management of orthopaedic patients and used by health services to obtain government rebates.		
Database Name	SurgProscore	Collection	VOTOR surgically managed
Datatype	Alphanumeric	Form	Code
Field size	5	Layout	AANNN
Database Location	Prosthetics Table		
Code set	_prosthetics (reference table – See separate)		
Reporting guide			
Purpose	To monitor outcomes of patients with particular implants		
Data users	Epidemiologists		
Collection start	2010		
Definition source	VOTOR only		
Code set source	Hospital rebate codes		

9 Discharge

Content	Hospital Discharge destinations and dates
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	All acute patient episodes of care
Data source	Hospital Medical Record
Database Location	Discharge Table
Reporting Guide	-

9.1 Discharge Date

Definition	The date and time the patient was discharged from the hospital/health service		
Database Name	DischargeDate	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00)		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted). 00:00 denotes unknown time		
Purpose	To determine the length of stay		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

9.3 Discharge Type_ArriveToDeathDays

Definition	Patient status and/or destination on departure from the hospital		
Database Name	DischargeType	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_dischargetype (reference table)		
	Code	Description	
	1	Home	
	2	Rehabilitation	
	3	Nursing home	
	4	Special accommodation	
	5	Hospital for convalescence	
	6	Other	
	7	Death	
	8	Transfer to VSTS Hospital for Definitive Care	
	9	Transfer to Non-VSTS Hospital for Definitive Care	
	-1	Unknown	
	ArriveToDeathDays – Calculated variable, time from arrival at definitive care hospital to death:		
	Code	Description	
	-2	Death not recorded on VSTR	
	-1	Known death but date of death and/or time to death not known	
	Value	Days from arrival at definitive care hospital to death, includes in-hospital and post-discharge death	
Reporting guide	Code 5 must not be used when the patient is transferred to another hospital for acute treatment of their admitted injuries		
Purpose	To determine the outcome status of patients		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

9.4 Rehab Centre

Definition	Name of rehabilitation centre patient was discharge to.		
Database Name	RehabCode	Collection	Mandatory if discharge type=2
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_RehabCentre (reference table)		
	Code	Description	
	-1	Unknown	
	1	Other, please specify	
	2	Albury Wodonga Health (Albury Campus)	
	3	Albury Wodonga Health (Wodonga Health)	
	4	Alfred Health	
	5	Eastern Health - Angliss Hospital	
	6	Austin Health	
	7	Bairnsdale Regional Health Services	
	8	Ballarat Health Services	
	9	Barwon Health- The McKellar Centre Campus	
	10	Bass Coast Regional Health (Wonthaggi)	
	11	Bendigo Health Care Group (Anne Caudle)	
	12	Broadmeadows Health Service	
	13	Brunswick Private Hospital (Vaucluse)	
	14	Bundoora Extended Care Centre	
	15	Eastern Health - Maroondah Hospital	
	16	Cabrini Rehabilitation Hospital	
	17	Castlemaine Health	
	18	Caulfield General Medical Centre	
	19	Central Gippsland Health Service (Maffra)	
	20	Sale Community Rehabilitation Centre – CGHS (Wellington)	
	21	Como Private Hospital-Closed Jan 2017	
	22	Cotham Private Hospital-Closed June 2018	
	23	Donvale Rehabilitation Hospital	
	24	Dorset Rehabilitation Centre	
	25	Eastern Health - Box Hill-Not rehab>PJC or Angliss	
	26	Echuca Regional Health	
	27	Epworth Hawthorn	
	28	Epworth Rehabilitation Brighton	
	29	Epworth Rehabilitation Camberwell (Formerly Cedar Court)	
	30	Epworth Richmond (Formerly Bethesda)	
	31	Peninsula Private Rehabilitation Unit	
	32	Barwon - Geelong Private Hospital-Closed June 2018	
	34	Goulburn Valley Health	
	35	Healesville Hospital-Not rehab code to PJC or Angliss	
	36	Monash Health - Kingston Centre	
	37	Latrobe Regional Hospital (Gippsland)	
	42	Mildura Base Hospital	
	43	Monash Health - Monash Medical Centre	
	44	Murray Valley Private Hospital (Wodonga)	
	45	Northeast Health - Wangaratta	
	46	North Eastern Rehabilitation Centre (formerly Ivanhoe Manor)	
	47	Northern Health	
	48	Peninsula Health-Golf Links Road Rehabilitation Centre	
	49	Eastern Health - Peter James Centre	
	50	Ballarat - Queen Elizabeth Centre	
	51	Royal Children's Hospital	
	52	Royal Melbourne Hospital- Royal Park Campus (formerly MECRS)	

53	Royal Talbot Rehabilitation Centre
54	South Eastern Private Hospital
55	South West Healthcare Warrnambool
56	St George's Health Service
57	St John of God Ballarat Hospital
58	Bendigo - St John of God Bendigo Hospital
59	Peninsula - St John of God Frankston (Nepean Rehabilitation)
60	Barwon - St John of God Geelong Hospital
61	St John of God Warrnambool Hospital
62	St Vincent's Hospital Melbourne Ltd.
63	Sunshine Hospital
64	The Victorian Rehabilitation Centre
66	Western District Health Service (Hamilton)
67	Footscray Hospital (formerly Western Health)
68	Wimmera Health Care Group (Horsham)
69	Royal Melbourne Hospital - Parkville Campus
70	Interstate or overseas rehabilitation centre
75	Beleura Private Hospital - Mornington
78	Monash Health - Dandenong
79	Monash Health - Casey
84	Bendigo Health - The Bendigo Hospital
85	Peninsula Health Care Network - The Mornington Centre
86	PHCN -Mount Eliza Centre-Closed June 2017
87	Peninsula Health - Frankston Hospital
88	Peninsula Health - Rosebud Hospital (Hillview rehab)
89	Masada Private Hosp - East St Kilda
90	Olympia Private Rehab Hospital - Thornbury-Closed November 2007
91	Sandringham & District Memorial Hospital
92	Austin Health - Heidelberg Repatriation Hospital campus
93	Williamstown Hospital
94	Eastern Health Rehabilitation - Campus not specified
96	Barwon Health - Geelong Hospital
100	Epworth - Unknown campus
101	Epworth Cliveden Private (East Melbourne)
103	Mercy Public Hospitals (Werribee)
104	Mercy Private Hosp (East Melbourne)
107	Wangaratta Private Hospital
110	St Vincent's Private Hospital (Fitzroy)
112	Hampton Rehabilitation Hospital-Closed 2002
116	Epworth Geelong
118	Homesglen Private Hospital (opened April 2017)
120	Shepparton Private Hospital
121	Monash Health - Monash Children's Hospital
122	St Vincents Private Hospital East Melbourne
123	St Vincents Private Hospital Werribee

Reporting guide	Select rehabilitation centre if discharge type = 2 Rehabilitation
Purpose	To provide further detail on the discharge destination to assist in follow-up
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists
Collection start	2014
Definition source	VSTORM and VOTOR
Code set source	VSTORM

9.5 Specify

Definition	Text Description of the discharge destination if the rehabilitation centre is not on the drop down list, hospital for convalescence or Other.		
Database Name	DischargeOther		
Collection	When Discharge Type = 5, 6 or RehabCode=1		
Datatype	Alphanumeric	Form	Text
Field size	100	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	Only recorded if Discharge Type Codes 5 or 6 or RehabCode=1		
Purpose	To provide further detail on the discharge destination to assist in follow-up		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

9.6 Hospital Discharge GCS – Total (Not active)

Definition	The sum of the three Glasgow Coma Scale components: Eye Opening, Verbal Response and Motor Response at discharge from hospital.		
Database Name	GCSTotal	Collection	Mandatory
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Code set	-		
Reporting guide	Values must be between 3 and 15 or -1 -1 is used only when a score cannot be calculated		
Purpose	This is useful in the assessment of coma and impaired consciousness.		
Data users	Health Services, DHHS Reporting		
Collection start	2001 – Not active		
Definition source	VSTORM only		
Code set source	Teasdale, G. Assessment of coma and impaired consciousness, Lancet 1974/VSTORM		

9.7 Coroner

Definition	Specifies the Coroner's case number		
Database Name	Coroner	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	20	Layout	
Table	Outcome		
Reporting guide	Deceased Patients Only		
Related items	-		
Purpose	To assist in reconciling VSTORM and National Coronial Information System (NCIS) data		
Data users	VSTORM Staff		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM/NCIS		

9.8 Further Comments

Definition	Further Comments of the patient's admission not captured by other data items		
Database Name	FurtherComments	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	500	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	To provide further detail on the admission at discharge, including details on reasons why the admission didn't follow VSTS guidelines for case review		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2011		
Definition source	VSTORM only		
Code set source	VSTORM		

10Transfer

Content	Hospital Transfer destinations, reasons and mode of transport
Collected by	All Victorian State Trauma System hospitals (public and private)
Collected for	Patients that were transferred to another hospital for acute care
Data source	Hospital Medical Record
Database Location	Transfer Table
Reporting Guide	-

10.1 Transfer Hospital

Definition	Indicates the acute health care facility to which the patient was transferred.		
Database Name	TransferHosp	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	3	Layout	NNN
Code set	_hospital (reference table)		
Reporting guide	<p>Mandatory item if patient was transferred from this hospital to another hospital campus, irrespective of whether they were admitted or not admitted at the sending hospital.</p> <p>Report a valid code from the VSTORM Hospital Code Table.</p> <p>The Hospital Code Table is based around the Campus Code Table in the VEMD, but includes further hospitals and health services not listed there.</p>		
Purpose	To identify the reporting hospital/health service		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2002		
Definition source	VSTORM only		
Code set source	DHHS / VSTORM		

10.2 Transfer Service

Definition	Service used for patient transport to another hospital for acute care.																						
Database Name	Service	Collection	Mandatory																				
Datatype	Numeric	Form	Code																				
Field size	2	Layout	N																				
Code Set	<div>_service (reference table)</div> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>Metropolitan Ambulance Service</td></tr><tr><td>2</td><td>Rural Ambulance Service</td></tr><tr><td>3</td><td>Air Ambulance Victoria</td></tr><tr><td>4</td><td>Other</td></tr><tr><td>5</td><td>Private Car</td></tr><tr><td>6</td><td>Interstate</td></tr><tr><td>7</td><td>Private Ambulance</td></tr><tr><td>8</td><td>Retrieval (free text “specify” field to document retrieval service)</td></tr><tr><td>-1</td><td>Unknown</td></tr></tbody></table>			Code	Description	1	Metropolitan Ambulance Service	2	Rural Ambulance Service	3	Air Ambulance Victoria	4	Other	5	Private Car	6	Interstate	7	Private Ambulance	8	Retrieval (free text “specify” field to document retrieval service)	-1	Unknown
Code	Description																						
1	Metropolitan Ambulance Service																						
2	Rural Ambulance Service																						
3	Air Ambulance Victoria																						
4	Other																						
5	Private Car																						
6	Interstate																						
7	Private Ambulance																						
8	Retrieval (free text “specify” field to document retrieval service)																						
-1	Unknown																						
Reporting guide	-																						
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning																						
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting																						
Collection start	2001																						
Definition source	VSTORM only																						
Code source	VSTORM																						

10.3 Other Transfer Service

Definition	Other service used for patient transport to another hospital for acute care.		
Database Name	ServiceOther	Collection	Mandatory if transfer service = 4
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	Specify the service used to transport the patient to another hospital		
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code source	VSTORM		

10.4 Transfer Mode of Transport

Definition	Mode of Transport of service used for patient transport between hospitals.																
Database Name	Mode	Collection	Mandatory														
Datatype	Numeric	Form	Code														
Field size	2	Layout	N														
Code Set	<p>_mode (reference table)</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Fixed wing</td></tr><tr><td>2</td><td>Helicopter</td></tr><tr><td>3</td><td>MICA (inactive)</td></tr><tr><td>4</td><td>Road car</td></tr><tr><td>9</td><td>Other (free text “specify” field to document other mode)</td></tr><tr><td>-1</td><td>Unknown</td></tr></table>			Code	Description	1	Fixed wing	2	Helicopter	3	MICA (inactive)	4	Road car	9	Other (free text “specify” field to document other mode)	-1	Unknown
Code	Description																
1	Fixed wing																
2	Helicopter																
3	MICA (inactive)																
4	Road car																
9	Other (free text “specify” field to document other mode)																
-1	Unknown																
Reporting guide	-																
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning																
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting																
Collection start	2001																
Definition source	VSTORM only																
Code set source	VSTORM																

10.5 Other Transfer Mode of Transport

Definition	Other Mode of Transport of service used for patient transport between hospitals.		
Database Name	ModeOther	Collection	Mandatory if mode of transport=9
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	Specify the mode of transport used to transfer the patient to another hospital		
Purpose	To monitor patterns of ambulance usage for the purpose of ambulance policy and planning		
Data users	VSTORM Staff, Ambulance Services, DHHS Annual Reporting		
Collection start	2001		
Definition source	VSTORM only		
Code set source	VSTORM		

10.6 ARV Activation Date Time

Definition	The date and time Adult Retrieval Services were consulted by the hospital/health service for transfer to a higher designation hospital		
Database Name	ARVActiveDateTime	Collection	When Transfer Service=8 ARV
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	<p>This is only required when the patient is transferred by ARV</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	To determine the time from activation to transfer		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting		
Collection start	2008		
Definition source	VSTORM only		
Code set source	VSTORM		

10.7 ARV Stability (not available for data requests)

Definition	ARV Stability		
Database Name	ARV_Stability	Collection	When Transfer Service=8 ARV
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_ARVstability (reference table)		
	Code	Description	
	1	Stable	
	2	Previously unstable within the last 4 hours	
	3	Unstable	
Reporting guide	This is only required when the patient is transferred by ARV and to be completed by VSTORM staff only		
Purpose	To determine the stability of the patient as assessed by ARV staff		
Data users	VSTORM Staff, DHHS Reporting		
Collection start	2011		
Definition source	VSTORM only		
Code set source	VSTORM, VSTR-Adult Retrieval Victoria (ARV) data linkage		

10.8 ARV Complexity (not available for data requests)

Definition	ARV Complexity		
Database Name	ARV_ Complexity	Collection	When Transfer Service=8 ARV
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_ARVComplexity (reference table)		
	Code	Description	
	1	High	
	2	Medium	
	3	Low	
Reporting guide	This is only required when the patient is transferred by ARV and to be completed by VSTORM staff only		
Purpose	To determine the complexity of the patient as assessed by ARV staff		
Data users	VSTORM Staff, DHHS Reporting		
Collection start	2011		
Definition source	VSTORM only		
Code set source	VSTORM, VSTR-Adult Retrieval Victoria (ARV) data linkage		

10.9 ARV Urgency (not available for data requests)

Definition	ARV Urgency		
Database Name	ARV_ Urgency	Collection	When Transfer Service=8 ARV
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_ARVUrgency (reference table)		
	Code	Description	
	1	Time critical (immediate)	
	2	Acute (less than 60 mins from November 1 2013, less than 90 minutes prior to November 1 2013)	
	3	Non acute (less than 180 mins from November 1 2013, less than 4 hours prior to November 1 2013)	
	4	Scheduled (planned departure)	
	41	Transfer not required	
Reporting guide	This is only required when the patient is transferred by ARV and to be completed by VSTORM staff only		
Purpose	To determine the Urgency of the transfer as assessed by ARV staff		
Data users	VSTORM Staff, DHHS Reporting		
Collection start	2011		
Definition source	VSTORM only		
Code set source	VSTORM, VSTR-Adult Retrieval Victoria (ARV) data linkage		

10.10 ARV REMS (not available for data requests)

Definition	ARV Rapid Emergency Medicine Score (REMS) is used to determine how unwell a patient has been and to determine urgency of care and or transport. The score incorporates the patient's age and the worst value in the prior 4 hours for BP, HR and oxygen saturation.		
Database Name	ARV_ REMS	Collection	When Transfer Service=8 ARV
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Reporting guide	Must be between 0 and 26 This is only required when the patient is transferred by ARV and to be completed by VSTORM staff only		
Purpose	To determine the REMS of the patient as assessed by ARV staff, the higher the score the higher the acuity		
Data users	VSTORM Staff, DHHS Reporting		
Collection start	2011		
Definition source	VSTORM only		
Code set source	VSTORM, VSTR-Adult Retrieval Victoria (ARV) data linkage		

10.11 Transfer Reason

Definition	The reason the patient was transferred to another health care facility for acute care		
Database Name	TransferReason	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_transferreason (reference table)		
	Code	Description	
	1	Acute Care	
	2	No ICU bed	
	3	No bed	
	4	No Operating Room	
	5	Private Insurance	
	6	Patient Request	
	7	Specialty (Specify)	
	8	COVID, Ward bed (transferred under contract of care)	
	9	COVID, ICU bed (transferred under contract of care)	
	-1	Unknown	
Reporting guide	Mandatory item if patient was transferred from this hospital to another hospital campus, irrespective of whether they were admitted or not admitted at the sending hospital.		
Purpose	To determine reason for transfer and to monitor adherence to triage guidelines		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2002		
Definition source	VSTORM only		
Code set source	DHHS / VSTORM		

10.12 Specify Transfer Reason

Definition	The speciality reason the patient was transferred to another health care facility for acute care		
Database Name	TransferReasonSpecify	Collection	Mandatory if transfer reason=7
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAAAAAA
Code set	-		
Reporting guide	Specifies the speciality reason for transfer		
Purpose	To determine reason for transfer and to monitor adherence to triage guidelines		
Data users	Data Collectors, VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2002		
Definition source	VSTORM only		
Code set source	DHHS / VSTORM		

10.13 Transfer Data Available?

Definition	Transfer hospital data available?		
Database Name	TransferData	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_transferdata (reference table)		
	Code	Description	
	-1	Unknown, Referral Hospital doesn't know if data available at Transferred Hosp	
	0	No – Unavailable, Transferred Hospital has no record of patient's admission	
	1	Yes - Available	Flag for when data has been collected
	2	Yes - Pending	Transferred Hospital has been contacted and data is being collected
	3	No - Did not meet criteria, did not meet inclusion criteria at Transferred Hosp, patient will be marked “No” for VSTORM.	
Reporting guide	Mandatory item if patient was transferred from this hospital to another hospital campus, irrespective of whether they were admitted or not admitted at the sending hospital.		
Purpose	To determine if data is available or patient met inclusion criteria at transfer hospital		
Data users	Data Collectors, VSTORM Staff		
Collection start	2002		
Definition source	VSTORM only		
Code set source	DHHS / VSTORM		

11 Trauma Scores

Content	Injury scores derived from AIS coded injuries and patient vital signs
Data source	AIS coded injuries and patient vital signs entered by Hospital Data Collectors

11.1 Injury Severity Score (ISS) and NISS

Definition	ISS: The sum of squares of the three highest AIS severities from the three most severely injured body regions New Injury Severity Score (NISS): The sum of squares of the three highest AIS severities, regardless of body region		
Database Name	ISS and NISS	Collection	Calculated
Datatype	Numeric	Form	Integer
Field size	2	Layout	NN
Database Location	Outcome table, NISS is in VSTR data (snapshot) Outcome table only (based on AIS2008)		
Code Set	-		
Reporting guide	1-75 -1 indicates that AIS injuries were not recorded		
Related items	AIS		
Purpose	To define injury severity for comparative purposes and impact on outcomes		
Data users	VSTORM Staff, DHHS Reporting, Epidemiologists		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	Baker SP, O'Neill B, Haddon W, et al. The injury severity score: A method for describing patients with multiple injuries and evaluating emergency care. J Trauma 1974; 14: 187-196.		

11.2 Revised Trauma Score (RTS)

Definition Score calculated from 3 physiological variables – Glasgow Coma Scale, respiratory rate and systolic blood pressure.

Database Name RTS **Collection** Calculated

Datatype Numeric **Form** Decimal

Field size 5 **Layout** N.NNNN

Database Location VSTR data (snapshot) Outcome table only

Code Set

Coded value	Glasgow Coma Scale (GCS)	Systolic blood pressure (SBP)	Respiratory rate (RR)
4	13-15	>89	10-29
3	9-12	76-89	>29
2	6-8	50-75	6-9
1	4-5	1-49	1-5
0	3	0	0
-1	No recorded value		

$$RTS = 0.9368(GCS) + 0.7326(SBP) + 0.2908(RR)$$

$$\text{Highest} = 3.7472 + 2.9304 + 1.1632 = 7.8408$$

Reporting guide 0-7.8408 (Inactive)

-1 indicates that an RTS could not be calculated

RTS can be calculated only if all of Glasgow Coma Score, Systolic Blood Pressure and unassisted respiratory rate are recorded.

Where available Primary hospital physiologic measures are used.
If not available ambulance physiologic measures are used.
If not available and the patient was transferred, the definitive hospital physiologic measures are used.

Where the patient was intubated at the time of GCS assessment, data substitution of the value 5 is used.

Purpose Originally for field triage. Used in TRISS when combined with ISS.

Data users VSTORM Staff, DHHS Reporting, Epidemiologists

Collection start 2001 - 2010

Definition source VSTORM only

Code set source Champion HR, Sacco WJ, Carnazzo AJ, et al. The trauma score. Crit Care Med 1981; 9: 672-676

11.3 Trauma and Injury Severity Score (TRISS)

Definition A logistic regression method of estimating the probability of survival using a combination of injury severity score (ISS), revised trauma score (RTS), patient age and injury type (blunt or penetrating).

Database Name	TRISS	Collection	Calculated
Datatype	Numeric	Form	Decimal
Field size	5	Layout	N.NNNN

Database Location VSTR data outcome table (ISS based on AIS2008)

Code Set Probability of Survival: $P_s = 1 / (1 + \exp(-b))$, where:

$$b = b_0 + b_1 * RTS + b_2 * ISS + b_3 * Age$$

where:

RTS = Revised Trauma Score

ISS = Injury Severity Score

Age = 1 if age ≥ 55 years, and Age = 0 if age < 55 years.

TRISS - NTDB 1995 coefficients for "b":

Type of injury	Constant (b0)	RTS (b1)	ISS (b2)	Age ≥ 55 years (b3)
Blunt	-0.1748	0.8367	-0.0913	-2.1432
Penetrating	-1.6603	0.9576	-0.1049	-1.4093

TRISS - NTDB 2009 coefficients for "b":

Type of injury	Constant (b0)	RTS (b1)	ISS (b2)	Age ≥ 55 years (b3)
Blunt	-0.4499	0.8085	-0.0835	-1.7430
Penetrating	-2.5355	0.9934	-0.0651	-1.1360

Reporting guide

0.00 to 1.00

-1 indicates that TRISS could not be calculated

TRISS can be calculated only if all of Glasgow Coma Score, Systolic Blood Pressure, unassisted respiratory rate, AIS with sufficient injury detail to prevent AIS=9 (ISS08 available), age and type of injury are recorded.

Purpose

To calculate the probability of survival, to quantify severity of injury and to compare survival rates.

Data users

VSTORM Staff, DHHS Reporting, Epidemiologists

Collection start

2001 - 2010

Definition source

VSTORM only

Code set source

Boyd CR, Tolson MA, Copes WS. Evaluating trauma care: The TRISS method. J Trauma 1987; 27: 370-378.

Schluter PJ, Nathens A, Neal ML, Goble S, Cameron CM, Davey TM, et al. Trauma and Injury Severity Score (TRISS) coefficients 2009 revision. J Trauma 2010;68(4):761-70.

12 Post-Discharge Contact

Content	Contact with patient post-discharge, but prior to first phone interview
Collected by	VSTORM/VOTOR
Collected for	All VSTORM and VOTOR patients
Data source	VSTORM/VOTOR letter generation, patient contact with VSTORM/VOTOR
Database Location	InitialContact Table

12.1 Type of Letter Sent

Definition	The type of letter sent to patient, advising of their inclusion on VSTORM		
Database Name	LetterSent	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code Set	_documents (reference table)		
	Code	Description	
	-3	Not sent by VSTORM – Hospital Sends	
	-4	Not sent – Death post Aug 2016	
	-1	Unknown – pre-2003	
	0	Not sent – insufficiently addressed	
	1	Adult	
	2	Child	
	5	Death	
	6	RCH	
	8	Death RCH	
	11	Adult RMH	
	12	Child RMH	
	15	Death RMH	
	-2	Not sent – more than 8 months since date of injury	
	3	Minor Adult	
	4	Minor Child	
	7	Minor RCH	
	13	Minor Adult RMH	
	14	Minor Child RMH	

Reporting guide If field is blank, no letter has been sent. Codes -2, 3, 4, 7, 13 and 14 no longer used (2008). There is no longer a differentiation between Major and Minor patient's letters, and all patients now receive a letter even if they were injured more than 8 months prior.

Purpose	Internal use, ethics compliance
Data users	VSTORM and VOTOR Staff
Collection start	2001
Definition source	VSTORM and VOTOR
Code set source	VSTORM

12.2 Letter Date

Definition	The date and time the letter was generated		
Database Name	LetterDate	Collection	Mandatory
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	If field is blank, no letter has been sent. Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

12.3 Letter Returned

Definition	Whether the letter sent to the patient was returned to sender																
Database Name	LetterReturn	Collection	Mandatory (where applicable)														
Datatype	Numeric	Form	Code														
Field size	1	Layout	N														
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Yes, Left address</td></tr><tr><td>2</td><td>Yes, insufficiently addressed</td></tr><tr><td>3</td><td>Yes, unknown at this address</td></tr><tr><td>4</td><td>Yes, other</td></tr><tr><td>5</td><td>Yes, with letter re-sent to new address</td></tr><tr><td>0</td><td>No</td></tr></table>			Code	Description	1	Yes, Left address	2	Yes, insufficiently addressed	3	Yes, unknown at this address	4	Yes, other	5	Yes, with letter re-sent to new address	0	No
Code	Description																
1	Yes, Left address																
2	Yes, insufficiently addressed																
3	Yes, unknown at this address																
4	Yes, other																
5	Yes, with letter re-sent to new address																
0	No																
Reporting guide	If field is blank, also indicates letter was not returned.																
Purpose	Internal use																
Data users	VSTORM and VOTOR Staff																
Collection start	2001																
Definition source	VSTORM and VOTOR																
Code set source	VSTORM																

12.4 Re-sent Date

Definition	The date and time the letter was re-sent to patient, if the letter was returned and new postal details were found		
Database Name	LetterResentDate	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

12.5 Type of Contact

Definition	Mode of contact received from patient or his/her representative regarding letter, if any		
Database Name	ContactMode	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_contactMode (reference table)		
	Code	Description	
	-1	Unknown	
	1	Letter	
	2	Phone call	
	3	email	
Reporting guide	-		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

12.6 Contact Date

Definition	The date and time patient or his/her representative contacted VSTORM in response to the letter		
Database Name	ContactDate	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

12.7 Contact Person

Definition	The relation (to the patient) of the person who contacted VSTORM in response to the letter																										
Database Name	ContactPerson	Collection	Mandatory (where applicable)																								
Datatype	Numeric	Form	Code																								
Field size	1	Layout	N																								
Code set	<div>_relation (reference table)</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>Patient</td></tr><tr><td>1</td><td>Parent</td></tr><tr><td>2</td><td>Spouse (including de facto)</td></tr><tr><td>3</td><td>Child</td></tr><tr><td>4</td><td>Sibling</td></tr><tr><td>5</td><td>Friend</td></tr><tr><td>6</td><td>GP</td></tr><tr><td>7</td><td>Other</td></tr><tr><td>8</td><td>Other Health Professional</td></tr><tr><td>9</td><td>Other guardian</td></tr></table>			Code	Description	-1	Unknown	0	Patient	1	Parent	2	Spouse (including de facto)	3	Child	4	Sibling	5	Friend	6	GP	7	Other	8	Other Health Professional	9	Other guardian
Code	Description																										
-1	Unknown																										
0	Patient																										
1	Parent																										
2	Spouse (including de facto)																										
3	Child																										
4	Sibling																										
5	Friend																										
6	GP																										
7	Other																										
8	Other Health Professional																										
9	Other guardian																										
Reporting guide	-																										
Purpose	Internal use																										
Data users	VSTORM Staff																										
Collection start	2001																										
Definition source	VSTORM and VOTOR																										
Code set source	VSTORM																										

12.8 Reason for Contact

Definition	The reason why the patient, or the patient's representative called VSTORM																																
Database Name	ContactReason	Collection	Mandatory (where applicable)																														
Datatype	Numeric	Form	Code																														
Field size	2	Layout	NN																														
Code Set	<div>_contactReason (reference table)</div> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>-1</td><td>Not Given</td></tr><tr><td>1</td><td>Thought they had to call to be involved</td></tr><tr><td>2</td><td>Wanted further clarifications</td></tr><tr><td>3</td><td>Change of details</td></tr><tr><td>4</td><td>Clarification of followup contact</td></tr><tr><td>5</td><td>Other – OK to be involved</td></tr><tr><td>6</td><td>Don't follow up – deceased post discharge</td></tr><tr><td>7</td><td>Don't follow up – Don't like interviews</td></tr><tr><td>8</td><td>Don't follow up – Don't want to be bothered</td></tr><tr><td>9</td><td>Don't follow up – Moved</td></tr><tr><td>10</td><td>Don't follow up – No Reason Given</td></tr><tr><td>11</td><td>Opt off – Privacy</td></tr><tr><td>12</td><td>Opt off – No Reason Given</td></tr><tr><td>13</td><td>Deceased after follow up time points</td></tr></tbody></table>			Code	Description	-1	Not Given	1	Thought they had to call to be involved	2	Wanted further clarifications	3	Change of details	4	Clarification of followup contact	5	Other – OK to be involved	6	Don't follow up – deceased post discharge	7	Don't follow up – Don't like interviews	8	Don't follow up – Don't want to be bothered	9	Don't follow up – Moved	10	Don't follow up – No Reason Given	11	Opt off – Privacy	12	Opt off – No Reason Given	13	Deceased after follow up time points
Code	Description																																
-1	Not Given																																
1	Thought they had to call to be involved																																
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9	Don't follow up – Moved																																
10	Don't follow up – No Reason Given																																
11	Opt off – Privacy																																
12	Opt off – No Reason Given																																
13	Deceased after follow up time points																																
Reporting guide	Codes 6 to 12 remove the patient from the follow-up process. Post-injury outcomes data will not be available for these patients.																																
Purpose	Monitor calls to the hotline and record opt-off from follow up (partial opt off)																																
Data users	VSTORM and VOTOR Staff																																
Collection start	2001																																
Definition source	VSTORM and VOTOR																																
Code set source	VSTORM																																

12.9 Death Date

Definition	The date and time patient died (post-discharge)		
Database Name	DeathDate		
Collection	Mandatory, where patient was reported to have died in 13.8 Reason for Contact		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	<p>Time of death not available for most cases (will display as 00:00). Enter 09/09/9999 for unknown date of death. From August 1 2019: If month and year is known but day is unknown enter 15th of the known month and year. Include text detailing actual day of death is unknown.</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	Determining patient outcomes status		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

12.10 Notes

Definition	Free text field to record any further details		
Database Name	Notes	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	255	Layout	AAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2001		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13 Patient Demographics

Content	Information about the patient's occupation and education
Collected by	VSTORM and VOTOR Follow Up Staff
Collected for	All VSTORM major trauma and VOTOR patients at their first follow-up telephone interview, where an interview was possible
Data source	Patient (telephone interview)
Database Location	InitialPI Table

13.1 Working/Studying Prior to Injury

Definition	Whether the patient was working or studying prior to the injury event		
Database Name	WorkPrior	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_questionNA (reference table)		
	Code	Description	
	-2	NA	
	-1	Unknown	
	0	No	
	1	Yes	
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.2 Occupation Prior to Injury

Definition	Patient's category of occupation prior to injury																																																																																												
Database Name	Occupation	Collection	Mandatory (where applicable)																																																																																										
Datatype	Numeric	Form	Code																																																																																										
Field size	3	Layout	NNN																																																																																										
Code Set	<div><div>_occupation (Reference Table)</div><div>ASCO</div><table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>-1</td><td>Unknown</td></tr><tr><td>11</td><td>Generalist Managers</td></tr><tr><td>12</td><td>Specialist Managers</td></tr><tr><td>13</td><td>Farmers and Farm Managers</td></tr><tr><td>21</td><td>Science, Building and Engineering Professionals</td></tr><tr><td>22</td><td>Business and Information Professionals</td></tr><tr><td>23</td><td>Health Professionals</td></tr><tr><td>24</td><td>Education Professionals</td></tr><tr><td>25</td><td>Social, Arts and Misc Professionals</td></tr><tr><td>31</td><td>Science, Building and Related Associate Professionals</td></tr><tr><td>32</td><td>Business and Administration Associate Professionals</td></tr><tr><td>33</td><td>Managing Supervisors (Sales and Service)</td></tr><tr><td>34</td><td>Health and Welfare Associate Professionals</td></tr><tr><td>39</td><td>Other Associate Professionals</td></tr><tr><td>41</td><td>Mechanical and Fabrication Engineering Tradespersons</td></tr><tr><td>44</td><td>Construction Tradespersons</td></tr><tr><td>45</td><td>Food Tradespersons</td></tr><tr><td>46</td><td>Skilled Agricultural and Horticultural Workers</td></tr><tr><td>49</td><td>Other Tradespersons and Related Workers</td></tr><tr><td>51</td><td>Secretaries and Personal Assistants</td></tr><tr><td>59</td><td>Other Advanced and Clerical Service Workers</td></tr><tr><td>61</td><td>Immediate Clerical Workers</td></tr><tr><td>62</td><td>Immediate Sales and Related Workers</td></tr><tr><td>63</td><td>Immediate Service Workers</td></tr><tr><td>71</td><td>Intermediate Plant Operators</td></tr><tr><td>72</td><td>Intermediate Machine Operators</td></tr><tr><td>73</td><td>Road and Rail Transport Drivers</td></tr><tr><td>79</td><td>Other Intermediate Productions and Transport Workers</td></tr><tr><td>81</td><td>Elementary Clerks</td></tr><tr><td>82</td><td>Elementary Sales Workers</td></tr><tr><td>83</td><td>Elementary Service Workers</td></tr><tr><td>91</td><td>Cleaners</td></tr><tr><td>92</td><td>Factory Labourers</td></tr><tr><td>99</td><td>Other Labourers and Related Workers</td></tr><tr><td>101</td><td>Student</td></tr></tbody></table><div>ANZSCO</div><table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>Other (Specify)</td></tr><tr><td>101</td><td>Student</td></tr><tr><td>111</td><td>Chief Executives, General Managers and Legislators</td></tr><tr><td>121</td><td>Farmers and Farm Managers</td></tr><tr><td>131</td><td>Specialist Managers-Advertising, Public Relations & Sales Managers</td></tr><tr><td>132</td><td>Specialist Managers-Business Administration Managers</td></tr><tr><td>133</td><td>Specialist Managers-Construction, Distribution & Production Managers</td></tr></tbody></table></div>			Code	Description	-1	Unknown	11	Generalist Managers	12	Specialist Managers	13	Farmers and Farm Managers	21	Science, Building and Engineering Professionals	22	Business and Information Professionals	23	Health Professionals	24	Education Professionals	25	Social, Arts and Misc Professionals	31	Science, Building and Related Associate Professionals	32	Business and Administration Associate Professionals	33	Managing Supervisors (Sales and Service)	34	Health and Welfare Associate Professionals	39	Other Associate Professionals	41	Mechanical and Fabrication Engineering Tradespersons	44	Construction Tradespersons	45	Food Tradespersons	46	Skilled Agricultural and Horticultural Workers	49	Other Tradespersons and Related Workers	51	Secretaries and Personal Assistants	59	Other Advanced and Clerical Service Workers	61	Immediate Clerical Workers	62	Immediate Sales and Related Workers	63	Immediate Service Workers	71	Intermediate Plant Operators	72	Intermediate Machine Operators	73	Road and Rail Transport Drivers	79	Other Intermediate Productions and Transport Workers	81	Elementary Clerks	82	Elementary Sales Workers	83	Elementary Service Workers	91	Cleaners	92	Factory Labourers	99	Other Labourers and Related Workers	101	Student	Code	Description	-1	Unknown	0	Other (Specify)	101	Student	111	Chief Executives, General Managers and Legislators	121	Farmers and Farm Managers	131	Specialist Managers-Advertising, Public Relations & Sales Managers	132	Specialist Managers-Business Administration Managers	133	Specialist Managers-Construction, Distribution & Production Managers
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134	Specialist Managers-Education, Health & Welfare Services Managers
135	Specialist Managers-ICT Managers
139	Specialist Managers-Miscellaneous Specialist Managers
141	Hospitality, Retail and Service Managers-Accommodation & Hospitality Managers
142	Hospitality, Retail and Service Managers-Retail Managers
149	Hospitality, Retail and Service Managers-Miscellaneous Hospitality
211	Arts and Media Professionals-Arts Professionals
212	Arts and Media Professionals-Media Professionals
221	Business, Human Resource and Marketing Professionals-Accountants, Auditors & Company Secretaries
222	Business, Human Resource and Marketing Professionals-Financial Brokers & Dealers, & Investment Advisers
223	Business, Human Resource and Marketing Professionals-Human Resource & Training Professionals
224	Business, Human Resource and Marketing Professionals-Information & Organisation Professionals
225	Business, Human Resource and Marketing Professionals-Sales, Marketing & Public Relations Professionals
231	Design, Engineering, Science and Transport Professionals-Air & Marine Transport Professionals
232	Design, Engineering, Science and Transport Professionals-Architects, Designers, Planners & Surveyors
233	Design, Engineering, Science and Transport Professionals-Engineering Professionals
234	Design, Engineering, Science and Transport Professionals-Natural & Physical Science Professionals
241	Education Professionals-School Teachers
242	Education Professionals-Tertiary Education Teachers
249	Education Professionals-Miscellaneous
251	Health Professionals-Health Diagnostic & Promotion Professionals
252	Health Professionals-Health Therapy Professionals
253	Health Professionals-Medical Practitioners
254	Health Professionals-Midwifery & Nursing Professionals
261	ICT Professionals-Business & Systems Analysts, & Programmers
262	ICT Professionals-Database & Systems Administrators, & ICT Security Specialists
263	ICT Professionals-ICT Network & Support Professionals
271	Legal, Social and Welfare Professionals-Legal Professionals
272	Legal, Social and Welfare Professionals-Social & Welfare Professionals
311	Engineering, ICT and Science Technicians-Agricultural, Medical & Science Technicians
312	Engineering, ICT and Science Technicians-Building & Engineering Technicians
313	Engineering, ICT and Science Technicians-ICT & Telecommunications Technicians
321	Automotive and Engineering Trades Workers-Automotive Electricians & Mechanics
322	Automotive and Engineering Trades Workers-Fabrication Engineering Trades Workers
323	Automotive and Engineering Trades Workers-Mechanical Engineering Trades Workers
324	Automotive and Engineering Trades Workers-Panelbeaters, & Vehicle Body Builders, Trimmers & Painters
331	Construction Trades Workers-Bricklayers, & Carpenters & Joiners
332	Construction Trades Workers-Floor Finishers & Painting Trades Workers
333	Construction Trades Workers-Glaziers, Plasterers & Tilers
334	Construction Trades Workers-Plumbers
341	Electrotechnology and Telecommunications Trades Worker-Electricians

342	Electrotechnology and Telecommunications Trades Worker-Electronics & Telecommunications Trades Workers
351	Food Trades Workers
361	Skilled Animal and Horticultural Workers-Animal Attendants & Trainers, & Shearers
362	Skilled Animal and Horticultural Workers-Horticultural Trades Workers
391	Other Technicians and Trades Workers-Hairdressers
392	Other Technicians and Trades Workers-Printing Trades Workers
393	Other Technicians and Trades Workers-Textile, Clothing & Footwear Trades Workers
394	Other Technicians and Trades Workers-Wood Trades Workers
399	Other Technicians and Trades Workers-Miscellaneous
411	Health and Welfare Support Workers
421	Carers and Aides-Child Carers
422	Carers and Aides-Education Aides
423	Carers and Aides-Personal Carers & Assistants
431	Hospitality Workers
441	Protective Service Workers-Defence Force Members, Fire Fighters & Police
442	Protective Service Workers-Prison & Security Officers
451	Sports and Personal Service Workers-Personal Service & Travel Workers
452	Sports and Personal Service Workers-Sports & Fitness Workers
511	Office Managers and Program Administrators-Contract, Program & Project Administrators
512	Office Managers and Program Administrators-Office & Practice Managers
521	Personal Assistants and Secretaries
531	General Clerical Workers-General Clerks
532	General Clerical Workers-Keyframe Operators
541	Inquiry Clerks and Receptionists-Call or Contact Centre Information Clerks
542	Inquiry Clerks and Receptionists-Receptionists
551	Numerical Clerks-Accounting Clerks & Bookkeepers
552	Numerical Clerks-Financial & Insurance Clerks
561	Clerical and Office Support Workers
591	Other Clerical and Administrative Workers-Logistics Clerks
599	Other Clerical and Administrative Workers-Miscellaneous
611	Sales Representatives and Agents-Insurance Agents & Sales Representatives
612	Sales Representatives and Agents-Real Estate Sales Agents
621	Sales Assistants and Salespersons
631	Sales Support Workers-Checkout Operators & Office Cashiers
639	Sales Support Workers-Miscellaneous
711	Machine and Stationary Plant Operators-Machine Operators
712	Machine and Stationary Plant Operators-Stationary Plant Operators
721	Mobile Plant Operators
731	Road and Rail Drivers-Automobile, Bus & Rail Drivers
732	Road and Rail Drivers-Delivery Drivers
733	Road and Rail Drivers-Truck Drivers
741	Storepersons
811	Cleaners and Laundry Workers
821	Construction and Mining Labourers
831	Factory Process Workers-Food Process Workers
832	Factory Process Workers-Packers & Product Assemblers
839	Factory Process Workers-Miscellaneous
841	Farm, Forestry and Garden Workers
851	Food Preparation Assistants
891	Other Labourers-Freight Handlers & Shelf Fillers
899	Other Labourers-Miscellaneous

Purpose	Population description
Data users	VSTORM and VOTOR Staff, Epidemiologists
Collection start	October 2006, Updated to ANZSCO Version 1.2 for cases with date of injury from 1 July 2019
Definition source	VSTORM and VOTOR
Code set source	Aust. Standards Classification of Occupations (ASCO) 2 nd Edition, ABS Cat. no. 1220.0 ANZSCO -- Australian and New Zealand Standard Classification of Occupations, Version 1.2

13.3 Reason not Working or Studying

Definition	Whether the patient was working or studying prior to the injury event		
Database Name	WorkNoReason	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_workNoReason (reference table)		
	Code	Description	
	-1	Unknown	
	0	Other (Specify)	
	1	Disability pension	
	2	WorkCover	
	3	Unemployed	
	4	Retired	
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.4 Reason not Working or Studying (Specify Other)

Definition	Text description of the reason why patient was not engaged in work or study prior to the injury event, if it did not fall within the prescribed categories		
Database Name	WorkPriorOther	Collection	Mandatory (where applicable)
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.5 Capacity of Work Prior to Injury

Definition	The patient's work/study load prior to the injury event		
Database Name	WorkPriorCapacity	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code Set	_workCapacity (reference table)		
	Code	Description	
	-2	NA	
	-1	Unknown	
	1	Work full time	
	2	Work part time	
	3	Study full time	
	4	Study part time	
	5	Work full time and study part time	
	6	Work part time and study full time	
	7	Work part time and study part time	
	9	Other	
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.6 Capacity of Work Prior to Injury (Specify Other)

Definition	Text description of the work/study load of the patient prior to the injury event, if it did not fall within the prescribed categories		
Database Name	WorkPriorCapOther	Collection	Mandatory (where applicable)
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.7 Level of Education

Definition	The patient's highest educational or vocational qualification obtained		
Database Name	Education	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code Set	_education (reference table)		
	Code	Description	
	-1	Unknown	
	1	Postgraduate degree, graduate diploma or graduate certificate	
	2	Bachelor degree	
	3	Advanced diploma, diploma or certificate	
	4	Year 12, VCE, matriculation or equivalent	
	5	Years 9-11 or equivalent	
	6	Year 8 equivalent or below	
	7	Primary school	
	8	Did not attend school	
	9	Still at school	
	99	Other (Specify)	
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.8 Level of Education (Specify)

Definition	Text description of the patient's highest education or vocational qualification obtained, if it did not fall within the prescribed categories		
Database Name	EducationOther	Collection	Mandatory (where applicable)
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

13.9 Marital/Relationship status

Definition	Prior/at the time of injury what was your marital/relationship status?
Database Name	MaritalStatusPrior
Collection	Mandatory
Datatype	Numeric
Form	Code
Field size	1
Layout	N
Code Set	

Code	Description
1	Never married
2	Currently married
3	Separated
4	Divorced
5	Widowed
6	Living with partner (de facto relationship)
7	Partnered but not living together
99	Other
-1	Unknown
-2	Not applicable

Reporting guide

Purpose	Outcomes reporting
Data users	VSTORM VOTOR follow up staff, Epidemiologists, DHHS reporting
Collection start	11 January 2016
Definition source	VSTORM and VOTOR
Code set source	VSTORM

14 Contact Attempts

Content	Information about attempts made to contact patient for follow-up at 6, 12 and 24-month time points post-injury. Follow-up at 36, 48 and 60 month time points post-injury for RESTORE project cases (for selected patients with date of injury from 1 July 2011).
Collected by	VSTORM and VOTOR Follow Up Staff
Collected for	<p>All VSTORM major trauma patients who survived to discharge and without a known death or opt off after discharge for 6,12 and 24 month follow up. All VOTOR patients who survived to discharge and without a known death or opt off after discharge for 6 and 12 month follow up. For 24 month follow up VOTOR patients with a date of injury $\geq 1/7/2011$ with all cause codes excluding</p> <ul style="list-style-type: none"> age ≥ 60 cause code =9, 29 or 30 with the following ICD 10 diag codes S720, S7200, S7201, S7208, S7211, S7202, S7203, S7204, S7205, S721, S7210 age ≥ 80 with cause code =9, 29 or 30 irrespective of injury codes
Data source	VSTORM, VOTOR Patients
Database Location	ContactAttempt Table
Reporting Guide	<p>There is one set of Contact Attempt records per follow-up period. When follow-up data is provided:</p> <p>Six month follow-up records prefixed with M06_ Twelve month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_</p>

14.1 Date/Time of Contact Attempt

Definition	The date and time VSTORM and VOTOR staff attempted to contact patient, for that follow-up period. Up to eight attempts recorded.		
Database Name	ContAtt{n}Date, where {n} is a number 1-8		
Collection	Mandatory (where applicable)		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.2 Reschedule Date/Time of Contact Attempt

Definition	The reschedule date and time for VSTORM and VOTOR staff to contact patient, for that follow-up period. Up to eight reschedule date and times recorded.		
Database Name	ContAtt{n}RescheduleDate, where {n} is a number 1-8		
Collection	Mandatory (where applicable)		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	2015		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.3 Contact Attempt Notes

Definition	Text description of the result of the contact attempt.		
Database Name	ContAtt{n}Note, where {n} is a number 1-8		
Collection	Mandatory (where applicable)		
Datatype	Alphanumeric	Form	Text
Field size	200	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.4 Successful Contact Attempt_Follow up type

Definition Whether or not VSTORM staff were able to complete the telephone interview for the follow-up period

Database Name ContactSuccessful **Collection** Mandatory (where applicable)

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _contactSuccessful1 (reference table)

Code	Description
0	No
1	Yes
2	In Progress
3	Partial Data Collection
4	Patient Death

Purpose Internal use, determining contact success

Data users VSTORM and VOTOR Staff, Epidemiologists

Collection start October 2003

Definition source VSTORM and VOTOR

Code set source VSTORM

Follow Up Type

Definition Mode of completion for successful follow-up

Database Name FollowUpType **Collection** Mandatory (where applicable)

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _contactmode (reference table)

Code	Description
1	Email
2	Phone
3	Email to Phone
4	Phone to Email

Purpose Internal use, determining mode of follow-up completion

Data users VSTORM and VOTOR Staff, Epidemiologists

Collection start October 2003 – updated to include email for cases with date of from 1 April 2020

Definition source VSTORM and VOTOR

Code set source VSTORM

14.5 Reason Unsuccessful

Definition	Reason why contact with patient was unsuccessful		
Database Name	_UnsuccessfulReason1	Collection	Mandatory when successful=0
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_contactSuccessful1 (reference table)		
	Code	Description	
	1	Overseas Address	
	2	No Contact Details	
	3	Phone disconnected	
	4	Wrong Number	
	5	No Answer after 4 th Attempt	
	6	Language Barrier	
	7	Not interested at this time only	
	8	Less than 15 years	
	9	No further contact requested (Partial Opt-Off)	
	10	Other	
	11	Data received >9 months after injury	
	12	Follow-up time exceeded	
	13	Nursing home (for patients with DOIJ from 1/7/2017)	
Reporting guide	-		
Purpose	Internal use, determining patient mortality		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.6 Patient Status

Definition	The patient status if follow up was unsuccessful		
Database Name	PatientStatus	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_contactSuccessful1 (reference table)		
	Code	Description	
	0	Patient Alive	
	-1	Unknown	
Reporting guide	-		
Purpose	Internal use, determining patient status if follow up not able to be completed		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.7 Reason Partial

Definition	Reason for partial follow up only		
Database Name	PartialReason	Collection	Mandatory if successful=3
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code Set	_contactSuccessful1 (reference table)		
	Code	Description	
	1	Dementia	
	2	Head injury	
	3	Other	
	4	Non-cooperative	
	5	Unwell	
	6	Language Barrier	
	7	Patient Moved Overseas	
	8	Parent opts for parent report only	
	9	In hospital/rehab	
	10	Patient not available	
	11	Patient requested short interview	
	12	Difficult interview	
	13	Nursing home	
	14	Communications barrier	
Reporting guide	-		
Purpose	Internal use, determining patient status if partial follow up only completed		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.8 Specify other reason

Definition	Reason for partial follow up only		
Database Name	ContactOther		
Collection	Mandatory if reasonunsuccessful=10 or reasonpartial=3		
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	Specify other reason for unsuccessful or partial follow up		
Purpose	Internal use, determining reason for unsuccessful or partial follow up		
Data users	VSTORM and VOTOR Staff, Epidemiologists		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.9 Death Date

Definition	The date and time patient died (post-discharge)		
Database Name	DeathDate		
Collection	Mandatory, where patient was reported to have died in 15.3 Contact Attempt Status		
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	<p>Time of death not available for most cases (will display as 00:00). Enter 09/09/9999 for unknown date of death. From August 1 2019: If month and year is known but day is unknown enter 15th of the known month and year. Include text detailing actual day of death is unknown.</p> <p>Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).</p>		
Purpose	Determining patient mortality		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.10 Completion Date

Definition	The date and time follow-up interview was completed		
Database Name	CompleteDate	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Date
Field size	8	Layout	DD/MM/CCYY HH:NN
Code set	A valid date and time after Arrival time in valid 24-hour time (not 00:00 or 24:00), or Null		
Reporting guide	Midnight Following international convention, midnight is either 23:59 of preceding date or 00:01 of following date (00:00 and 24:00 are not accepted).		
Purpose	To record the date and time patient, or patient's representative contacted VSTORM		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.11 Contact Person

Definition	The interviewee's relation to the patient		
Database Name	ContactPerson	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_relation (reference table)		
	Code	Description	
	-1	Unknown	
	0	Patient	
	1	Parent	
	2	Spouse (including de facto)	
	3	Child	
	4	Sibling	
	5	Friend	
	6	GP	
	7	Other	
	8	Other Health Professional	
	9	Other guardian	
	-1	Unknown	
Reporting guide	-		
Purpose	Internal use		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.12 Consent for Further Interviews

Definition The interviewee's consent for further interview or future research projects. "Thank you for your time completing this interview. If we do receive additional funding to extend our time points for follow up and/or future research projects, would you be happy for us to contact you again in the future?"

Database Name NextContact **Collection** Mandatory (where applicable)

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code set _nextContact (reference table)

Code	Description
------	-------------

1	Yes
---	-----

7	Not interested next 6 months only
---	-----------------------------------

9	No further contact requested (partial opt-off)
---	--

Reporting guide -

Purpose Internal use only, Opt-offs

Data users VSTORM and VOTOR Staff

Collection start October 2006

Definition source VSTORM and VOTOR

Code set source VSTORM

14.13 Additional Comments

Definition	Free text field to record any further details		
Database Name	ContactComents	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	5000	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Internal use only		
Data users	VSTORM and VOTOR Staff		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

14.14 Escalation Type

Definition	Escalate follow up to supervisor		
Database Name	EscalateType	Collection	Optional
Datatype	Numeric	Form	Code
Field size	1	Layout	1
Code Set	_escalationType (reference table)		
	Code	Description	
	1	Update contact details	
	2	Difficult	
	3	Complaint	
	4	Complete opt-off	
	5	Loss to follow-up	
	6	Other	
	7	Fax required	
	8	Letter to be re-sent	
	9	Awaiting admin	
	10	Duplicate admission	
Reporting guide	-		
Purpose	Administration, notify follow up supervisor with follow up issues, internal use only		
Data users	VSTORM and VOTOR Staff		
Collection start	2015		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM/VOTOR		

14.15 Escalation Comments

Definition	Comments regarding escalation of follow up to supervisor		
Database Name	EscalateComments	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	5000	Layout	AAAAAAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Administration, comments when notifying follow up supervisor of follow up issues, internal use only		
Data users	VSTORM and VOTOR Staff		
Collection start	2015		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM/VOTOR		

15 Patient Interview

Content	Information about the patient's residential status, and whether the patient has returned to work, at the 6, 12 and 24 month time points post injury. Follow-up at 36, 48 and 60 month time points post-injury for RESTORE project cases (for selected patients with date of injury from 1 July 2011 to 30 June 2012).
Collected by	VSTORM and VOTOR Follow Up Staff
Collected for	All major trauma patients and VOTOR patients who have consented to a telephone interview.
Data source	VSTORM, VOTOR Patient (telephone interview)
Database Location	vsPI Table
Reporting Guide	There is one set of Patient Interview records per follow-up period. When follow-up data is provided: Six month follow-up records prefixed with M06_ Twelve month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_
Collection start	All adult major trauma patients definitively managed at an MTS have been followed up at six months since injury from July to September 2003 and this was extended to all adult major trauma patients across the state from October to December 2005. Follow-up at 12 and 24 months after injury commenced for all adult major trauma cases with a date of injury from October 2006, and the follow-up rates are shown in Table 19. Follow-up of paediatric (aged less than 16 years) major trauma cases commenced for patients with a date of injury from 1 April 2010. Follow-up commenced for all VOTOR patients with date of injury from 2007. Telephone interviews from 2003, option for online follow up commenced for adult patients with date of injury from 1 April 2020 (except for patients with AIS head region severity score >2 requiring completion of GOS-E by phone interview).
Definition source	VSTORM/VOTOR

15.1 Marital/Relationship Status

Definition	Has there been any change to your marital/relationship status after injury?
Database Name	MaritalStatusChange
Collection	Mandatory
Datatype	Numeric
Form	Code
Field size	1
Layout	N
Code set	

Code	Description
0	No
1	Yes
-1	Unknown
-2	Not applicable

Reporting guide

Purpose	Outcomes reporting
Data users	VSTORM VOTOR follow up Staff, Epidemiologists, DHHS Reporting
Collection start	11 January 2016
Definition source	VSTORM
Code set source	VSTORM

15.2 Marital/Relationship Status

Definition	What is your current marital/relationship status?																				
Database Name	MaritalStatusAfter																				
Collection	Mandatory																				
Datatype	Numeric																				
Form	Code																				
Field size	1																				
Layout	N																				
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Never married</td></tr><tr><td>2</td><td>Currently married</td></tr><tr><td>3</td><td>Separated</td></tr><tr><td>4</td><td>Divorced</td></tr><tr><td>5</td><td>Widowed</td></tr><tr><td>6</td><td>Living with partner (defacto relationship)</td></tr><tr><td>7</td><td>Partnered but not living together</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>Not applicable</td></tr></table>	Code	Description	1	Never married	2	Currently married	3	Separated	4	Divorced	5	Widowed	6	Living with partner (defacto relationship)	7	Partnered but not living together	-1	Unknown	-2	Not applicable
Code	Description																				
1	Never married																				
2	Currently married																				
3	Separated																				
4	Divorced																				
5	Widowed																				
6	Living with partner (defacto relationship)																				
7	Partnered but not living together																				
-1	Unknown																				
-2	Not applicable																				
Reporting guide	Only required when the answer to change in Marital/Relationship Status was '1-Yes'																				
Purpose	Outcomes reporting																				
Data users	VSTORM VOTOR follow up staff, Epidemiologists, DHHS Reporting																				
Collection start	11 January 2016																				
Definition source	VSTORM																				
Code set source	VSTORM																				

15.3 Current Residential Status

Definition	The patient's residential status; whether living with or without additional care, at this time point		
Database Name	ResStatus	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	N
Code set	_resStatus (reference table)		
	Code	Description	
	-1	Unknown	
	1	At home – without additional care	
	2	At home – with additional care	
	3	At hospital	
	4	At rehabilitation centre	
	5	At a nursing home	
	6	At a hospice or hostel	
	9	Other	
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists, DHHS Reporting		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

15.4 Current Residential Status (Specify)

Definition	The residential status of the patient at this time point, if it did not fit within the specified categories		
Database Name	ResStatusOther	Collection	Optional
Datatype	Alphanumeric	Form	Text
Field size	50	Layout	AAAAAAAAAAAAAAAA
Code Set	-		
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM and VOTOR Staff, Epidemiologists, DHHS Reporting		
Collection start	October 2003		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

15.5 Return to Work

Definition	Whether the patient has returned to work at this time point.																				
Database Name	WorkAfter	Collection	Mandatory (where applicable)																		
Datatype	Numeric	Form	Code																		
Field size	2	Layout	N																		
Code set	<p>_workAfter (reference table)</p> <p>If you/they were working or studying prior to injury, have you/they returned?</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes</td></tr></table> <p>If 0 (No), reason:</p> <p>Is this injury related or is this COVID-19 related or are you now retired?</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>9</td><td>Unknown</td></tr><tr><td>1</td><td>Injury related</td></tr><tr><td>2</td><td>COVID-19 related</td></tr><tr><td>3</td><td>Now retired</td></tr></table>			Code	Description	-1	Unknown	0	No	1	Yes	Code	Description	9	Unknown	1	Injury related	2	COVID-19 related	3	Now retired
Code	Description																				
-1	Unknown																				
0	No																				
1	Yes																				
Code	Description																				
9	Unknown																				
1	Injury related																				
2	COVID-19 related																				
3	Now retired																				
Reporting guide	-																				
Purpose	Population description																				
Data users	VSTORM and VOTOR Staff, Epidemiologists, DHHS Reporting																				
Collection start	October 2003, reason for not working (including COVID-19 option) added May 2020																				
Definition source	VSTORM and VOTOR																				
Code set source	VSTORM																				

15.6 Return to Work (Same Organisation)

Definition	If the patient has returned to work, whether he/she returned to the same organisation he/she worked for prior to injury																		
Database Name	WorkOrgSame	Collection	Mandatory (where applicable)																
Datatype	Numeric	Form	Code																
Field size	1	Layout	N																
Code set	<p>_questionNA (reference table)</p> <p>Is this with the same business, organisation or institution as prior to your/their injury?</p> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes</td></tr></tbody></table> <p>If 0 (No), reason:</p> <p>Is this injury related or is this COVID-19 related?</p> <table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>9</td><td>Unknown</td></tr><tr><td>1</td><td>Injury related</td></tr><tr><td>2</td><td>COVID-19 related</td></tr></tbody></table>			Code	Description	-1	Unknown	0	No	1	Yes	Code	Description	9	Unknown	1	Injury related	2	COVID-19 related
Code	Description																		
-1	Unknown																		
0	No																		
1	Yes																		
Code	Description																		
9	Unknown																		
1	Injury related																		
2	COVID-19 related																		
Reporting guide	-																		
Purpose	Population description																		
Data users	VSTORM and VOTOR Staff, Epidemiologists, DHHS Reporting																		
Collection start	October 2006, reason for not returning to same organisation (including COVID-19 option) added May 2020																		
Definition source	VSTORM and VOTOR																		
Code set source	VSTORM																		

15.7 Return to Work (Same Role)

Definition	If the patient has returned to work, whether he/she has the same role he/she performed prior to injury																		
Database Name	WorkRoleSame	Collection	Mandatory (where applicable)																
Datatype	Numeric	Form	Code																
Field size	1	Layout	N																
Code set	<p>_questionNA (reference table)</p> <p>Is this in the same role?</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes</td></tr></table> <p>If 0 (No), reason:</p> <p>Is this injury related or is this COVID-19 related?</p> <table><tr><th>Code</th><th>Description</th></tr><tr><td>9</td><td>Unknown</td></tr><tr><td>1</td><td>Injury related</td></tr><tr><td>2</td><td>COVID-19 related</td></tr></table>			Code	Description	-1	Unknown	0	No	1	Yes	Code	Description	9	Unknown	1	Injury related	2	COVID-19 related
Code	Description																		
-1	Unknown																		
0	No																		
1	Yes																		
Code	Description																		
9	Unknown																		
1	Injury related																		
2	COVID-19 related																		
Reporting guide	-																		
Purpose	Population description																		
Data users	VSTORM and VOTOR Staff, Epidemiologists, DHHS Reporting																		
Collection start	October 2006, reason for not returning to same role (including COVID-19 option) added May 2020																		
Definition source	VSTORM and VOTOR																		
Code set source	VSTORM																		

16 Pain

Content	Information about the level of pain felt, and where, at the time of the interview
Collected by	VSTORM Follow Up Staff
Collected for	All major trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient (telephone interview)
Database Location	vsPI Table
Reporting Guide	There is one set of Patient Interview records per follow-up period. When follow-up data is provided: Six month follow-up records prefixed with M06_ Twelve month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_

16.1 Pain Level

Definition	The level of physical pain felt by the patient as a result of the injury event, at the time of the interview		
Database Name	Pain	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	Scale of 0-10, where 0 is no pain and 10 is the worst possible pain, -1 is used for unknown		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

16.2 Pain Region

Definition	The region of the body in which the patient feels pain (if any)		
Database Name	Region	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	_painRegion (reference table)		
	Code	Description	
	-2	NA	
	-1	Unknown	
	1	Head	
	2	Face	
	3	Neck	
	4	Thorax	
	5	Abdomen	
	6	Lower back	
	7	Pelvis	
	8	Shoulder	
	9	Upper arm	
	10	Elbow	
	11	Forearm	
	12	Wrist	
	13	Hand	
	14	Hip	
	15	Thigh	
	16	Knee	
	17	Lower leg	
	18	Ankle	
	19	Foot	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

16.3 Pain Side

Definition	The side of the body in which the patient feels pain (if any)		
Database Name	Side	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_painSide (reference table)		
	Code	Description	
	1	Right	
	2	Left	
	3	Bilateral	
	4	Central	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

17 SF-12 Health Survey

Content	Patient responses to the Short-Form 12-Item health survey questions, and the physical and mental health scores derived from the answers. 6-month SF12 information available for patients injured until 30/6/2015, 12-month SF-12 follow-up information available for patients injured until 31/12/2014, 24-month SF-12 follow-up information available for patients injured until 31/12/2013.
Collected by	VSTORM/VOTOR Follow Up Staff
Collected for	All major trauma patients who have consented to a telephone interview.
Data source	VSTORM/VOTOR, Patient (telephone interview)
Database Location	vsPainSF12 Table
Reporting Guide	There is one set of Patient Interview records per follow-up period: Six month follow-up records prefixed with M06_ 12 month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_
Collection dates	From October 2006 to January 10 2016

Reference tables

_sfHeal

Code	Description
-1	Unknown
1	Excellent
2	Very Good
3	Good
4	Fair
5	Poor

_sfFeel

Code	Description
-1	Unknown
1	All of the time
2	Most of the time
3	Good bit of the time
4	Some of the time
5	Little of the time
6	None of the time

_sfLimit

Code	Description
-1	Unknown
1	Yes, Limited a lot
2	Yes, Limited a little
3	No, not limited at all

_sfPain

Code	Description
-1	Unknown
1	Not at all
2	A little bit
3	Moderately
4	Quite a bit
5	Extremely

Yes/No

Code	Description
-1	Unknown
0	No
1	Yes

17.1 SF1

Definition	In general, do you think your health is...		
Database Name	SF1	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfHeal – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.2 SF2

Definition	Does your physical health now limit you in moderate activities such as moving a table, pushing a vacuum cleaner, bowling or playing golf? If so, how much?		
Database Name	SF2	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfLimit – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.3 SF3

Definition	Does your physical health now limit you in climbing several flights of stairs? If so, how much?		
Database Name	SF3	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfLimit – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.4 SF4

Definition	During the past week, have you accomplished less than you would like as a result of your physical health?		
Database Name	SF4	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	Yes/No See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.5 SF5

Definition	During the past week, were you limited in the kind of work or other activities you performed or took part in as a result of your physical health?		
Database Name	SF5	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	Yes/No See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.6 SF6

Definition	During the past week, have you accomplished less than you would like, as a result of any emotional problems (such as feeling depressed or anxious)?		
Database Name	SF6	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	Yes/No See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.7 SF7

Definition	During the past week, have you not worked or performed other activities as carefully as usual, as a result of any emotional problems (such as feeling depressed or anxious?)		
Database Name	SF7	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	Yes/No See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.8 SF8

Definition	During the past week, how much did pain interfere with your normal work (including both work outside the home and housework?)		
Database Name	SF8	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfPain – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.9 SF9

Definition	During the past week, have you felt calm and peaceful?		
Database Name	SF9	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfFeel – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.10 SF10

Definition	Did you have a lot of energy during the past week?		
Database Name	SF10	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfFeel – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.11 SF11

Definition	During the past week, have you felt downhearted and blue?		
Database Name	SF11	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfFeel – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.12 SF12

Definition	During the past week, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting friends, relatives etc.)?		
Database Name	SF12	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_sfFeel except option 3: Good bit of the time		
	Code	Description	
	-1	Unknown	
	1	All of the time	
	2	Most of the time	
	4	Some of the time	
	5	Little of the time	
	6	None of the time	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	SF12 Manual 3 rd Edition		

17.13 SF12 Mental Component Summary Score

Definition	The norm-based SF12 MCS calculated from survey responses		
Database Name	SF_MenScore	Collection	Calculated
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	-		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	-		

17.14 SF12 Physical Component Summary Score

Definition	The norm-based SF12 PCS calculated from survey responses		
Database Name	SF_PhyScore	Collection	Calculated
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	-		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists, DHHS Reporting		
Collection dates	From October 2006 to January 10 2016		
Definition source	VSTORM and VOTOR: QualityMetric Inc.		
Code set source	-		

18 WHODAS

Content	Patient responses to the World Health Organization Disability Assessment Scale (WHODAS) survey questions, and the health scores derived from the answers
Collected by	VSTORM/VOTOR Follow Up Staff
Collected for	All major trauma /VOTOR patients who have consented to a telephone interview.
Data source	VSTORM/VOTOR, Patient (telephone interview)
Database Location	vsWHODAS
Reporting Guide	<p>There is one set of Patient Interview records per follow-up period.</p> <p>When follow-up data is provided:</p> <p>Six month follow-up records prefixed with M06_ 12 month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_</p>
Collection start date	January 11 2016

18.1 WHODAS Proxy

Definition	Whether the WHODAS was completed by the Patient or Proxy
Database Name	Proxy
Collection	Mandatory
Datatype	Numeric
Form	Code
Field size	1
Layout	N
Code set	-
Reporting guide	-
Purpose	Outcomes reporting
Data users	Epidemiologists, DHHS Reporting
Collection start	11 January 2016
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0
Code set source	WHODAS 2.0

18.2 WHODAS S1

Definition In the past 30 days, how much difficulty did you have in: Standing for long periods such as 30 minutes?

Database Name S1

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.3 WHODAS S2

Definition	In the past 30 days, how much difficulty did you have in: Taking care of you household responsibilities?															
Database Name	S2															
Collection	Mandatory															
Datatype	Numeric															
Form	Code															
Field size	1															
Layout	N															
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Mild</td></tr><tr><td>2</td><td>Moderate</td></tr><tr><td>3</td><td>Severe</td></tr><tr><td>4</td><td>Extreme or cannot do</td></tr></table>		Code	Description	-1	Unknown	0	None	1	Mild	2	Moderate	3	Severe	4	Extreme or cannot do
Code	Description															
-1	Unknown															
0	None															
1	Mild															
2	Moderate															
3	Severe															
4	Extreme or cannot do															
Reporting guide																
Purpose	Outcomes reporting															
Data users	Epidemiologists, DHHS Reporting															
Collection start	11 January 2016															
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0															
Code set source	WHODAS 2.0															

18.4 WHODAS S3

Definition	In the past 30 days, how much difficulty did you have in: Learning a new task?															
Database Name	S3															
Collection	Mandatory															
Datatype	Numeric															
Form	Code															
Field size	1															
Layout	N															
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Mild</td></tr><tr><td>2</td><td>Moderate</td></tr><tr><td>3</td><td>Severe</td></tr><tr><td>4</td><td>Extreme or cannot do</td></tr></table>		Code	Description	-1	Unknown	0	None	1	Mild	2	Moderate	3	Severe	4	Extreme or cannot do
Code	Description															
-1	Unknown															
0	None															
1	Mild															
2	Moderate															
3	Severe															
4	Extreme or cannot do															
Reporting guide																
Purpose	Outcomes reporting															
Data users	Epidemiologists, DHHS Reporting															
Collection start	11 January 2016															
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0															
Code set source	WHODAS 2.0															

18.5 WHODAS S4

Definition In the past 30 days, how much difficulty did you have in: How much of a problem did you have joining in community activities in the same way as anyone else can?

Database Name S4

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.6 WHODAS S5

Definition In the past 30 days, how much difficulty did you have in: How much have you been emotionally affected by your health problems?

Database Name S5

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.7 WHODAS S6

Definition In the past 30 days, how much difficulty did you have in: Concentration on doing something for ten minutes?

Database Name S6

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.8 WHODAS S7

Definition	In the past 30 days, how much difficulty did you have in: Walking a long distance such as a kilometre?															
Database Name	S7															
Collection	Mandatory															
Datatype	Numeric															
Form	Code															
Field size	1															
Layout	N															
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Mild</td></tr><tr><td>2</td><td>Moderate</td></tr><tr><td>3</td><td>Severe</td></tr><tr><td>4</td><td>Extreme or cannot do</td></tr></table>		Code	Description	-1	Unknown	0	None	1	Mild	2	Moderate	3	Severe	4	Extreme or cannot do
Code	Description															
-1	Unknown															
0	None															
1	Mild															
2	Moderate															
3	Severe															
4	Extreme or cannot do															
Reporting guide																
Purpose	Outcomes reporting															
Data users	Epidemiologists, DHHS Reporting															
Collection start	11 January 2016															
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0															
Code set source	WHODAS 2.0															

18.9 WHODAS S8

Definition In the past 30 days, how much difficulty did you have in: Washing your whole body?

Database Name S8

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.10 WHODAS S9

Definition	In the past 30 days, how much difficulty did you have in: Getting dressed?															
Database Name	S9															
Collection	Mandatory															
Datatype	Numeric															
Form	Code															
Field size	1															
Layout	N															
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>0</td><td>None</td></tr><tr><td>1</td><td>Mild</td></tr><tr><td>2</td><td>Moderate</td></tr><tr><td>3</td><td>Severe</td></tr><tr><td>4</td><td>Extreme or cannot do</td></tr></table>		Code	Description	-1	Unknown	0	None	1	Mild	2	Moderate	3	Severe	4	Extreme or cannot do
Code	Description															
-1	Unknown															
0	None															
1	Mild															
2	Moderate															
3	Severe															
4	Extreme or cannot do															
Reporting guide																
Purpose	Outcomes reporting															
Data users	Epidemiologists, DHHS Reporting															
Collection start	11 January 2016															
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0															
Code set source	WHODAS 2.0															

18.11 WHODAS S10

Definition In the past 30 days, how much difficulty did you have in: Dealing with people you do not know?

Database Name S10

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.12 WHODAS S11

Definition In the past 30 days, how much difficulty did you have in: Maintaining a friendship?

Database Name S11

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.13 WHODAS S12

Definition In the past 30 days, how much difficulty did you have in: Your day to day work/school?

Database Name S12

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
-1	Unknown
0	None
1	Mild
2	Moderate
3	Severe
4	Extreme or cannot do

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.14 WHODAS H1

Definition Overall, in the past 30 days, how many days were these difficulties present?

Database Name H1

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
999	Unknown
0 - 30	Number of days

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016 – Ceased August 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

18.15 WHODAS H2

Definition	In the past 30 days, for how many days were you totally unable to carry out your usual activities or work because of any health condition?							
Database Name	H2							
Collection	Mandatory							
Datatype	Numeric							
Form	Code							
Field size	1							
Layout	N							
Code set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>999</td><td>Unknown</td></tr><tr><td>0 - 30</td><td>Number of days</td></tr></table>		Code	Description	999	Unknown	0 - 30	Number of days
Code	Description							
999	Unknown							
0 - 30	Number of days							
Reporting guide								
Purpose	Outcomes reporting							
Data users	Epidemiologists, DHHS Reporting							
Collection start	11 January 2016 – Ceased August 2016							
Definition source	VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0							
Code set source	WHODAS 2.0							

18.16 WHODAS H3

Definition Overall, in the past 30 days, Not counting the days that you were totally unable, for how many days did you cut back or reduce your usual activities or work because of any health condition?

Database Name H3

Collection Mandatory

Datatype Numeric

Form Code

Field size 1

Layout N

Code set

Code	Description
999	Unknown
0 - 30	Number of days

Reporting guide

Purpose Outcomes reporting

Data users Epidemiologists, DHHS Reporting

Collection start 11 January 2016 – Ceased August 2016

Definition source VSTORM and VOTOR: World Health Organisation Disability Assessment Schedule 2.0

Code set source WHODAS 2.0

19 Global Outcome Assessment/Glasgow Outcome Score

Content	Patient responses to the Globals and GOS surveys
Collected by	VSTORM Follow Up Staff
Collected for	All major trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient (telephone interview)
Database Location	vsGblGOS Table
Reporting Guide	There is one set of Patient Interview records per follow-up period. When follow-up data is provided: Six month follow-up records prefixed with M06_ 12 month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_

_gbl1

Code	Description
-1	Unknown
1	No disability
2	Mild disability
3	Moderate disability
4	Marked disability
5	Severe disability

_questionNA

Code	Description
-2	Not Applicable
-1	Unknown
1	Yes
0	No

_gos5b

Code	Description
-2	Not Applicable
-1	Unknown
1	Reduced work capacity
2	Able to work only in a sheltered workshop, non-competitive job or currently unable to work

_gos6b

Code	Description
-2	Not Applicable
-1	Unknown
1	Half as often
2	Less than half as often
3	Rarely, if ever take part

_gos7b

Code	Description
-2	Not Applicable
-1	Unknown
1	Occasional – less than weekly
2	Frequent – once a week or more but tolerable
3	Constant – daily and intolerable
5	Severe disability

19.1 GBL1 (Global Outcome Assessment 1)

Definition	The level of disability patient reported, during the week prior to the injury event		
Database Name	GBL1	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gbl1 – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

19.2 GBL2 (Global Outcome Assessment 2)

Definition	The level of disability the patient reported, the week prior to the telephone interview		
Database Name	GBL2	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gbl1 – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, Epidemiologists		
Collection start	October 2006		
Definition source	VSTORM and VOTOR		
Code set source	VSTORM		

19.3 GOS1

Definition	Is the person able to obey simple commands?		
Database Name	GOS1	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.4 GOS2a

Definition	Is the assistance of another person at home essential every day for some activities of daily living?		
Database Name	GBL2a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.5 GOS2b

Definition	Do they need frequent help or someone to be around at home most of the time?		
Database Name	GBL2b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS2a was '1 - Yes'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 Jul 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.6 GOS2c

Definition	Was assistance at home essential before the injury?		
Database Name	GBL2c	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS2a was '1 – Yes'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.7 GOS3a

Definition	Are they able to shop without assistance?		
Database Name	GBL3a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.8 GOS3b

Definition	Were they able to shop without assistance before the injury?		
Database Name	GBL3b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS3a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.9 GOS4a

Definition	Are they able to travel locally without assistance?		
Database Name	GBL4a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.10 GOS4b

Definition	Were they able to travel without assistance before the injury?		
Database Name	GBL4b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS4a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.11 GOS5a

Definition	Are they currently able to work to their previous capacity?		
Database Name	GBL5a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Not required if the answer to GOS4a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.12 GOS5b

Definition	How restricted are they?		
Database Name	GBL5b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gos5b – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS5a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.13 GOS5c

Definition	Were they either working or seeking employment before the injury?		
Database Name	GBL5c	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS5a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.14 GOS6a

Definition	Are they able to resume regular social and leisure activities outside the home?		
Database Name	GBL6a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.15 GOS6b

Definition	What is the extent of restriction on their social and leisure activities?		
Database Name	GBL6b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gos6b – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS6a was '0 – No'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.16 GOS6c

Definition	Did they engage in regular social and leisure activities before the injury?		
Database Name	GBL6c	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.17 GOS7a

Definition	Have there been psychological problems which have resulted in ongoing family disruption or disruption to friendships?		
Database Name	GBL7a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.18 GOS7b

Definition	What has been the extent of disruption or strain?		
Database Name	GBL7b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gos7b – reference table See start of section for code reference.		
Reporting guide	Only required when the answer to GOS7a was '1 – Yes'		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.19 GOS7c

Definition	Were there problems present before the injury?		
Database Name	GBL7c	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.20 GOS8a

Definition	Are there any other current problems relating to the injury which affect daily life?		
Database Name	GBL8a	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.21 GOS8b

Definition	Were there similar problems present before the injury?		
Database Name	GBL8b	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Only required when answer to GOS8a is '1 – Yes'.		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.22 Epilepsy Medication

Definition	Is the patient on any epilepsy medication?		
Database Name	GOSepia	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Question only applies if patient is head injured		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005. Available for all VSTORM major patients with date of injury from 1 October 2017 (6 month follow-up), 1 April 2017 (12 month follow-up) and 1 April 2016 (24 month follow-up). Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019.		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.23 Epileptic Fits

Definition	Since the injury, has the patient had any epileptic fits?		
Database Name	GOSepib	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_questionNA – reference table See start of section for code reference.		
Reporting guide	Question only applies if patient is head injured		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005. Available for all VSTORM major patients with date of injury from 1 October 2017 (6 month follow-up), 1 April 2017 (12 month follow-up) and 1 April 2016 (24 month follow-up). Cases with Head region AIS ≥3 only with date of injury from 1 July 2019.		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

19.24 GOS Overall Rating

Definition	The Glasgow Outcome Scale, calculated from survey responses		
Database Name	GOSrate	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_gosrate (reference table)		
	Code	Description	
	-1	Unable to be determined	
	1	Dead	
	2	Vegetative state	
	3	Severe disability	
	4	Moderate disability	
	5	Good recovery	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585. 1998		

19.25 GOS-E Overall Rating

Definition	The extended Glasgow Outcome Scale, calculated from survey responses		
Database Name	GOSerate	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_goserate (reference table)		
	Code	Description	
	-1	Unable to be determined	
	1	Dead	
	2	Vegetative state	
	3	Lower severe disability	
	4	Upper severe disability	
	5	Lower moderate disability	
	6	Upper moderate disability	
	7	Lower good recovery	
	8	Upper good recovery	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	July 2005, Cases with Head region AIS ≥ 3 only with date of injury from 1 July 2019		
Definition source	VSTORM and VOTOR		
Code set source	Wilson JTL et al: Structured interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: guidelines for their use. Journal of Neurotrauma 15:573-585, 1998		

20 EuroQOL 5D (EQ-5D™)

Content	Patient responses to the EuroQOL Group EQ-5D™ 1990 version.
Collected by	VSTORM and VOTOR Follow Up Staff
Collected for	All VSTORM major trauma patients and VOTOR patients who have consented to a telephone interview.
Data source	VSTORM/VOTOR, Patient (telephone interview)
Database Location	vsEQ5D Table
Reporting Guide	There is one set of Patient Interview records per follow-up period. When follow-up data is provided: Six month follow-up records prefixed with M06_ 12 month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_

20.1 Proxy

Definition Whether the EQ-5D was completed by proxy or patient.

Database Name Proxy **Collection** Mandatory

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code set	Code	Description
	0	Patient
	1	Proxy

Purpose Outcomes reporting

Data users Epidemiologists

Collection start December 2009

Definition source VSTORM and VOTOR

Code set source EuroQOL Group

20.2 Mobility

Definition	Extent of problems with mobility		
Database Name	Mobility	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_EqMobility (3L reference table)		
	Code	Description	
	1	No problems in walking about	
	2	Some problems in walking about	
	3	Confined to bed	
	9	Unknown	
Code set	_EqMobility_2018 (5L reference table)		
	Code	Description	
	1	No problems walking around	
	2	Slight problems walking around	
	3	Moderate problems walking around	
	4	Severe problems walking around	
	5	Unable to walk around	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009, EQ-5D 3L ceased for patients with date of injury 1 July 2018 and EQ-5D 5L commenced		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

20.3 Personal Care

Definition	Extent of problems with self-care		
Database Name	Selfcare	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_EqSelfcare (3L reference table)		
	Code	Description	
	1	No problems with self-care	
	2	Some problems washing or dressing myself	
	3	Unable to wash or dress myself	
	9	Unknown	
Code set	_EqSelfcare_2018 (5L reference table)		
	Code	Description	
	1	No problems washing or dressing	
	2	Slight problems washing or dressing	
	3	Moderate problems washing or dressing	
	4	Severe problems washing or dressing	
	5	Unable to wash or dress	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009, EQ-5D 3L ceased for patients with date of injury 1 July 2018 and EQ-5D 5L commenced		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

20.4 Usual Activities

Definition	Extent of problems with usual activities		
Database Name	Activity	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_EqActivity (3L reference table)		
	Code	Description	
	1	No problems with performing my usual activities	
	2	Some problems with performing my usual activities	
	3	Unable to perform my usual activities	
	9	Unknown	
Code set	_EqActivity_2018 (5L reference table)		
	Code	Description	
	1	No problems doing their usual activities	
	2	Slight problems doing their usual activities	
	3	Moderate problems doing their usual activities	
	4	Severe problems doing their usual activities	
	5	Unable to do their usual activities	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009, EQ-5D 3L ceased for patients with date of injury 1 July 2018 and EQ-5D 5L commenced		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

20.5 Pain/Discomfort

Definition	Extent of pain or discomfort		
Database Name	Pain	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_EqPain (3L reference table)		
	Code	Description	
	1	No pain or discomfort	
	2	Moderate pain or discomfort	
	3	Extreme pain or discomfort	
	9	Unknown	
Code set	_EqPain_2018 (5L reference table)		
	Code	Description	
	1	No pain or discomfort	
	2	Slight pain or discomfort	
	3	Moderate pain or discomfort	
	4	Severe pain or discomfort	
	5	Extreme pain or discomfort	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009, EQ-5D 3L ceased for patients with date of injury 1 July 2018 and EQ-5D 5L commenced		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

20.6 Anxiety/Depression

Definition	Extent of anxiety or depression		
Database Name	Anxiety	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_EqAnxiety (3L reference table)		
	Code	Description	
	1	Not anxious or depressed	
	2	Moderately anxious or depressed	
	3	Extremely anxious or depressed	
	9	Unknown	
Code set	_EqAnxiety_2018 (5L reference table)		
	Code	Description	
	1	Not anxious or depressed	
	2	Slightly anxious or depressed	
	3	Moderately anxious or depressed	
	4	Severely anxious or depressed	
	5	Extremely anxious or depressed	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009, EQ-5D 3L ceased for patients with date of injury 1 July 2018 and EQ-5D 5L commenced		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

21 Patient Health State - Current

Definition	How good or bad the patient's health state is <u>today</u> on a scale of 0-100		
Database Name	EQ_VAS	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Reporting Guide	Scale from 0, the 'worst imaginable health state' to 100 the 'best imaginable health state' 999 = Unknown or patient not able to provide answer		
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

22 Patient Health State – Prior to injury

Definition	How good or bad the patient's health was <u>prior</u> to their injury on a scale of 0-100		
Database Name	EQ_VAS_Prior	Collection	Mandatory
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Reporting Guide	Scale from 0, the 'worst imaginable health state' to 100 the 'best imaginable health state' 999 = Unknown or patient not able to provide answer		
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	December 2009		
Definition source	VSTORM and VOTOR		
Code set source	EuroQOL Group		

23 Paediatric Interview

Content	Demographic Information about the patient, and recovery, at the 6, 12 and 24 month time points post injury
Collected by	VSTORM Follow Up Staff
Collected for	All major paediatric (aged less than 16 years) trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient and/or parent (telephone interview)
Database Location	pdQL table
Reporting Guide	There are two sets of Patient Interview records per follow-up period. When follow-up data is provided: Six month follow-up records prefixed with M06_ 12 month follow-up records prefixed with M12_ 24 month follow-up records prefixed with M24_

23.1 PedsQL Interviewee

Definition	Person being interviewed for paediatric patient's follow up (Paediatric Quality of Life Inventory, PedsQL)								
Database Name	Interviewee	Collection	Mandatory (where applicable)						
Datatype	Numeric	Form	Code						
Field size	1	Layout	N						
Code Set	<div>_interviewee (reference table)</div> <table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Parent Report</td></tr><tr><td>2</td><td>Child/teen report</td></tr></table>			Code	Description	1	Parent Report	2	Child/teen report
Code	Description								
1	Parent Report								
2	Child/teen report								
Reporting guide	Follow up staff select the person being interviewed for the paediatric patient's follow up								
Purpose	Population description								
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting								
Collection start	2010, ceased for cases with interview date from 1 July 2018								
Definition source	VSTORM only								
Code set source	VSTORM								

23.2 PedsQL Version 4.0

Definition	Parent report for Children Ages 8-12 and Ages 13-18																		
Database Name	See below	Collection	Mandatory (where applicable)																
Datatype	Numeric	Form	Code																
Field size	1	Layout	N																
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>0</td><td>Never a problem</td></tr><tr><td>1</td><td>Almost never a problem</td></tr><tr><td>2</td><td>Sometimes a problem</td></tr><tr><td>3</td><td>Often a problem</td></tr><tr><td>4</td><td>Almost always a problem</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>Not applicable</td></tr></table>			Code	Description	0	Never a problem	1	Almost never a problem	2	Sometimes a problem	3	Often a problem	4	Almost always a problem	-1	Unknown	-2	Not applicable
Code	Description																		
0	Never a problem																		
1	Almost never a problem																		
2	Sometimes a problem																		
3	Often a problem																		
4	Almost always a problem																		
-1	Unknown																		
-2	Not applicable																		
Reporting guide	Responses above for the following fields:																		
	Database name	Database field																	
		PHYSICAL FUNCTIONING (problems with...)																	
		Walk	Walking more than one block																
		Run	Running																
		Sport	Participating in sports activity or exercise																
		Lift	Lifting something heavy																
		Shower	Taking a bath or shower by him/herself																
		Chores	Doing chores like picking up his or her toys																
		Hurt	Having hurts or aches																
		Energy	Low energy level																
		EMOTIONAL FUNCTIONING (problems with...)																	
		Scared	Feeling afraid or scared																
		Sad	Feeling sad or blue																
		Angry	Feeling angry																
		Sleep	Trouble sleeping																
		Worry	Worrying about what will happen to him or her																
		SOCIAL FUNCTIONING (problems with...)																	
		GetAlong	Getting along with other children																
		Friend	Other kids not wanting to be his or her friend																
		Tease	Getting teased by other children																
		Others	Not able to do things other children his or her age can do																
		Play	Keeping up when playing with other children																
		SCHOOL FUNCTIONING (problems with...)																	
		Attention	Paying attention in class																
		Forget	Forgetting things																
		SchoolWork	Keeping up with school work																
		Unwell	Missing school because of not feeling well																
		GoingHospital	Missing school to go to the doctor or hospital																
Purpose	Population description																		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting																		
Collection start	2010, ceased for cases with interview date from 1 July 2018																		
Definition source	VSTORM only																		
Code set source	VSTORM																		

23.3 PedsQL Version 4.0

Definition	Child/teen report for Children Ages 8-12 and Ages 13-18																										
Database Name	See below	Collection	Mandatory (where applicable)																								
Datatype	Numeric	Form	Code																								
Field size	1	Layout	N																								
Code Set	<table><thead><tr><th></th><th>Code</th><th>Description</th></tr></thead><tbody><tr><td></td><td>0</td><td>Never a problem</td></tr><tr><td></td><td>1</td><td>Almost never a problem</td></tr><tr><td></td><td>2</td><td>Sometimes a problem</td></tr><tr><td></td><td>3</td><td>Often a problem</td></tr><tr><td></td><td>4</td><td>Almost always a problem</td></tr><tr><td></td><td>-1</td><td>Unknown</td></tr><tr><td></td><td>-2</td><td>Not applicable</td></tr></tbody></table>				Code	Description		0	Never a problem		1	Almost never a problem		2	Sometimes a problem		3	Often a problem		4	Almost always a problem		-1	Unknown		-2	Not applicable
	Code	Description																									
	0	Never a problem																									
	1	Almost never a problem																									
	2	Sometimes a problem																									
	3	Often a problem																									
	4	Almost always a problem																									
	-1	Unknown																									
	-2	Not applicable																									
Reporting guide	Responses above for the following fields:																										
	Database name	Database field																									
		PHYSICAL FUNCTIONING (problems with...)																									
	Walk	Walking more than one block																									
	Run	Running																									
	Sport	Participating in sports activity or exercise																									
	Lift	Lifting something heavy																									
	Shower	Taking a bath or shower by him/herself																									
	Chores	Doing chores like picking up his or her toys																									
	Hurt	Having hurts or aches																									
	Energy	Low energy level																									
		EMOTIONAL FUNCTIONING (problems with...)																									
	Scared	Feeling afraid or scared																									
	Sad	Feeling sad or blue																									
	Angry	Feeling angry																									
	Sleep	Trouble sleeping																									
	Worry	Worrying about what will happen to him or her																									
		SOCIAL FUNCTIONING (problems with...)																									
	GetAlong	Getting along with other children																									
	Friend	Other kids not wanting to be his or her friend																									
	Tease	Getting teased by other children																									
	Others	Not able to do things other children his or her age can do																									
	Play	Keeping up when playing with other children																									
		SCHOOL FUNCTIONING (problems with...)																									
	Attention	Paying attention in class																									
	Forget	Forgetting things																									
	SchoolWork	Keeping up with school work																									
	Unwell	Missing school because of not feeling well																									
	GoingHospital	Missing school to go to the doctor or hospital																									
Purpose	Population description																										
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting																										
Collection start	2010, ceased for cases with interview date from 1 July 2018																										
Definition source	VSTORM only																										
Code set source	VSTORM																										

23.4 PedsQL Version 4.0

Definition	Parent report for Children 0-4																		
Database Name	See below	Collection	Mandatory (where applicable)																
Datatype	Numeric	Form	Code																
Field size	1	Layout	N																
Code Set	<table><tr><th>Code</th><th>Description</th></tr><tr><td>0</td><td>Never a problem</td></tr><tr><td>1</td><td>Almost never a problem</td></tr><tr><td>2</td><td>Sometimes a problem</td></tr><tr><td>3</td><td>Often a problem</td></tr><tr><td>4</td><td>Almost always a problem</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>-2</td><td>Not applicable</td></tr></table>			Code	Description	0	Never a problem	1	Almost never a problem	2	Sometimes a problem	3	Often a problem	4	Almost always a problem	-1	Unknown	-2	Not applicable
Code	Description																		
0	Never a problem																		
1	Almost never a problem																		
2	Sometimes a problem																		
3	Often a problem																		
4	Almost always a problem																		
-1	Unknown																		
-2	Not applicable																		
Reporting guide	Responses above for the following fields:																		
	Database name	Database field																	
		PHYSICAL FUNCTIONING (problems with...)																	
		Walk Walking more than one block																	
		Run Running																	
		Sport Participating in sports activity or exercise																	
		Lift Lifting something heavy																	
		Shower Taking a bath or shower by him/herself																	
		Chores Doing chores like picking up his or her toys																	
		Hurt Having hurts or aches																	
		Energy Low energy level																	
		EMOTIONAL FUNCTIONING (problems with...)																	
		Scared Feeling afraid or scared																	
		Sad Feeling sad or blue																	
		Angry Feeling angry																	
		Sleep Trouble sleeping																	
		Worry Worrying about what will happen to him or her																	
		SOCIAL FUNCTIONING (problems with...)																	
		GetAlong Getting along with other children																	
		Friend Other kids not wanting to be his or her friend																	
		Tease Getting teased by other children																	
		Others Not able to do things other children his or her age can do																	
		Play Keeping up when playing with other children																	
		SCHOOL FUNCTIONING (problems with...)																	
		SchoolWork Doing the same school activities as peers																	
		Unwell Missing school/daycare because of not feeling well																	
		GoingHospital Missing school/daycare to go to the doctor or hospital																	
Purpose	Population description																		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting																		
Collection start	2010, ceased for cases with interview date from 1 July 2018																		
Definition source	VSTORM only																		
Code set source	VSTORM																		

23.5 KOSCHI

Definition	The King's Outcome Scale for Childhood Head Injury (KOSCHI) is a specific paediatric adaptation of the original adult Glasgow Outcome Scale (GOS). The KOSCHI expands the five category GOS to provide increased sensitivity at the milder end of the disability range.		
Database Name	Koschi	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	Code	Code1	Description
	8	1	Death
	7	2	Vegetative
	6	3a	Lower severe disability
	5	3b	Upper severe disability
	4	4a	Lower moderate disability
	3	4b	Upper moderate disability
	2	5a	Good recovery
	1	5b	Intact recovery
	-1		Unknown
Code description	Interviewee-Parent interview/report only		
Reporting guide	-		
Purpose	Population description		
Data users	VSTORM Staff, Epidemiologists, DHHS Reporting		
Collection start	2010		
Definition source	VSTORM only		
Code set source	VSTORM		

23.6 EuroQOL 5D (EQ-5D-Y)

Definition The child-friendly EQ-5D version (EQ-5D-Y) was introduced by the EuroQol Group in 2009 as a more comprehensible instrument suitable for children and adolescents. Data is collected for paediatrics aged from 8 -15 years.

Database Name pdEQ5D (EQ-5D-5L-Y) **Collection** Mandatory (where applicable)

23.7 EQ-5D-Y Interviewee

Definition Person being interviewed for paediatric patient's follow up

Database Name Interviewee **Collection** Mandatory (where applicable)

Datatype Numeric **Form** Code

Field size 1 **Layout** N

Code Set _interviewee (reference table)

Code	Description
------	-------------

1	Parent Report (For patients 0-15 years)
---	---

2	Child/teen report (For patients 8-15 years)
---	---

Reporting guide Follow up staff select the person being interviewed for the paediatric patient's follow up

Purpose Population description

Data users VSTORM Staff, Epidemiologists, DHHS Reporting

Collection start Cases with interview date from 1 July 2018

Definition source VSTORM only

Code set source VSTORM

23.8 EQ-5D-Y Mobility

Definition	Extent of problems with mobility		
Database Name	Mobility	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdEqMobility (5L reference table)		
	Code	Description	
	1	No problems walking around	
	2	Slight problems walking around	
	3	Moderate problems walking around	
	4	Severe problems walking around	
	5	Unable to walk around	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	Cases with interview date from 1 July 2018		
Definition source	VSTORM only		
Code set source	VSTORM		

23.9 EQ-5D-Y Personal Care

Definition	Extent of problems with self-care		
Database Name	Selfcare	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdEqSelfCare (5L reference table)		
	Code	Description	
	1	No problems washing or dressing	
	2	Slight problems washing or dressing	
	3	Moderate problems washing or dressing	
	4	Severe problems washing or dressing	
	5	Unable to wash or dress	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	Cases with interview date from 1 July 2018		
Definition source	VSTORM only		
Code set source	VSTORM		

23.10 EQ-5D-Y Usual Activities

Definition	Extent of problems with usual activities		
Database Name	Activity	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdEqActivity (5L reference table)		
	Code	Description	
	1	No problems doing their usual activities	
	2	Slight problems doing their usual activities	
	3	Moderate problems doing their usual activities	
	4	Severe problems doing their usual activities	
	5	Unable to do their usual activities	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	Cases with interview date from 1 July 2018		
Definition source	VSTORM only		
Code set source	VSTORM		

23.11 EQ-5D-Y Pain/discomfort

Definition	Extent of pain or discomfort		
Database Name	Pain	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdEqPain (5L reference table)		
	Code	Description	
	1	No pain or discomfort	
	2	Slight pain or discomfort	
	3	Moderate pain or discomfort	
	4	Severe pain or discomfort	
	5	Extreme pain or discomfort	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	Cases with interview date from 1 July 2018		
Definition source	VSTORM only		
Code set source	VSTORM		

23.12 EQ-5D-Y Anxiety/Depression

Definition	Extent of anxiety or depression		
Database Name	Anxiety	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdEqAnxiety (5L reference table)		
	Code	Description	
	1	Not worried, sad or unhappy	
	2	Slightly worried, sad or unhappy	
	3	Moderately worried, sad or unhappy	
	4	Severely worried, sad or unhappy	
	5	Extremely worried, sad or unhappy	
	9	Unknown	
Purpose	Outcomes reporting		
Data users	Epidemiologists		
Collection start	Cases with interview date from 1 July 2018		
Definition source	VSTORM only		
Code set source	VSTORM		

24 RESTORE follow up

Content	Follow up of Recovery after Serious Trauma- Outcomes, Resource use and patient Experiences (RESTORE) patients at 36, 48 and 60 months
Collected by	VSTORM RESTORE follow Up Staff
Collected for	All VSTORM major trauma recruited in RESTORE project
Data source	Patient (telephone interview)

25 RESTORE Pain

Content	Information about the level of pain felt, and where, at the time of the interview
Collected by	VSTORM RESTORE Follow Up Staff
Collected for	All RESTORE major trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient (telephone interview)
Database Location	vsPain Table
Reporting Guide	There is one set of Patient Interview records per follow-up period. When follow-up data is provided: Three year follow-up records prefixed with M36_ Four year follow-up records prefixed with M48_ Five year follow-up records prefixed with M60_

25.1 Pain Level

Definition	The level of physical pain felt by the patient as a result of the injury event, at the time of the interview		
Database Name	Pain	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	Scale of 0-10, where 0 is no pain and 10 is the worst possible pain, -1 is used for unknown		
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

25.2 Pain Region

Definition	The region of the body in which the patient feels pain (if any)		
Database Name	Region	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	2	Layout	NN
Code set	_painRegion (reference table)		
	Code	Description	
	-2	NA	
	-1	Unknown	
	1	Head	
	2	Face	
	3	Neck	
	4	Thorax	
	5	Abdomen	
	6	Lower back	
	7	Pelvis	
	8	Shoulder	
	9	Upper arm	
	10	Elbow	
	11	Forearm	
	12	Wrist	
	13	Hand	
	14	Hip	
	15	Thigh	
	16	Knee	
	17	Lower leg	
	18	Ankle	
	19	Foot	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

25.3 Pain Side

Definition	The side of the body in which the patient feels pain (if any)		
Database Name	Side	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_painSide (reference table)		
	Code	Description	
	1	Right	
	2	Left	
	3	Bilateral	
	4	Central	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

25.4 Pain limit

Definition	Which site limits you the most in your activities?																																																								
Database Name	vsPainMost	Collection	Mandatory (where applicable)																																																						
Datatype	Numeric	Form	Code																																																						
Field size	1	Layout	N																																																						
Code set	<div><div>_painRegion (reference table)</div><div><table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>-2</td><td>NA</td></tr><tr><td>-1</td><td>Unknown</td></tr><tr><td>1</td><td>Head</td></tr><tr><td>2</td><td>Face</td></tr><tr><td>3</td><td>Neck</td></tr><tr><td>4</td><td>Thorax</td></tr><tr><td>5</td><td>Abdomen</td></tr><tr><td>6</td><td>Lower back</td></tr><tr><td>7</td><td>Pelvis</td></tr><tr><td>8</td><td>Shoulder</td></tr><tr><td>9</td><td>Upper arm</td></tr><tr><td>10</td><td>Elbow</td></tr><tr><td>11</td><td>Forearm</td></tr><tr><td>12</td><td>Wrist</td></tr><tr><td>13</td><td>Hand</td></tr><tr><td>14</td><td>Hip</td></tr><tr><td>15</td><td>Thigh</td></tr><tr><td>16</td><td>Knee</td></tr><tr><td>17</td><td>Lower leg</td></tr><tr><td>18</td><td>Ankle</td></tr><tr><td>19</td><td>Foot</td></tr></tbody></table></div><div><div>_painSide (reference table)</div><div><table><thead><tr><th>Code</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td>Right</td></tr><tr><td>2</td><td>Left</td></tr><tr><td>3</td><td>Bilateral</td></tr><tr><td>4</td><td>Central</td></tr></tbody></table></div></div></div>			Code	Description	-2	NA	-1	Unknown	1	Head	2	Face	3	Neck	4	Thorax	5	Abdomen	6	Lower back	7	Pelvis	8	Shoulder	9	Upper arm	10	Elbow	11	Forearm	12	Wrist	13	Hand	14	Hip	15	Thigh	16	Knee	17	Lower leg	18	Ankle	19	Foot	Code	Description	1	Right	2	Left	3	Bilateral	4	Central
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Purpose	Outcomes reporting																																																								
Data users	VSTORM RESTORE Staff, Epidemiologists																																																								
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only																																																								
Definition source	RESTORE project only																																																								
Code set source	VSTORM																																																								

26 RESTORE Impact of Event Scale - Revised

Content	Information about the impact of the event
Collected by	VSTORM RESTORE Follow Up Staff
Collected for	All RESTORE major trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient (telephone interview)
Database Location	vsIESR Table
Reporting Guide	There is one set of Patient Interview records per follow-up period.

26.1 Reason for not administering IESR

Definition	IESR Instrument not administered reason		
Database Name	NotAdministered	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_notAdministeredReasonIESR (reference table)		
	Code	Description	
	1	No memory of event	
	2	NESB	
	3	Distress, fatigue	
	4	Dissatisfied	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

26.2 Impact of event - Revised

Definition	Responses to Impact of event questions		
Database Name	See below	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_IESR (reference table)		
	Code	Description	
	1	Not at all	
	2	A little bit	
	3	Moderately	
	4	Quite a bit	
	5	Extremely	
	-1	Unknown	
Reporting guide	Q01 Reminder brought back feelings Q02 Trouble staying asleep Q03 Other things make me think about it Q04 Feel irritable and angry Q05 Avoided letting myself get upset about it Q06 Thought about it when I didn't mean to Q07 Felt as if it didn't happen or wasn't real Q08 Stayed away from reminders Q09 Pictures popped into my mind Q10 Jumpy and easily startled Q11 Tried not to think about it Q12 Had feelings about it but didn't deal with them Q13 Feelings about it were kind of numb Q14 Found myself acting or feeling like I was back at that time Q15 Had trouble falling asleep Q16 Had waves of strong feelings about it Q17 Tried to remove it from my memory Q18 Had trouble concentrating Q19 Reminders caused physical reactions Q20 Had dreams about it Q21 Felt watchful and on-guard Q22 Tried not to talk about it		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

26.3 Reason for not administering child IESR

Definition	Child IESR Instrument not administered reason		
Database Name	NotAdministered	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdIESR (reference table)		
	Code	Description	
	1	No memory of event	
	2	NESB	
	3	Distress, fatigue	
	4	Dissatisfied	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

26.4 Child Impact of Event Scale - Revised (IESR)

Definition	Responses to child (<16 years of age) IESR questions (<13 years of age parents are interviewed)		
Database Name	See below	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_pdIESR (reference table)		
	Code	Description	
	1	Not at all	
	2	Rarely	
	3	Sometimes	
	4	Often	
	-1	Unknown	
Reporting guide	Q01 Think about it when you didn't mean to Q02 Tried to remove it from my memory Q03 Had waves of strong feelings about it Q04 Stayed away from reminders Q05 Tried not to talk about it Q06 Pictures popped into my mind Q07 Other things make you think about it Q08 Try not to think about it		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

27 RESTORE CHIEF Short Form

Content	Information using the Craig Hospital Inventory of Environmental Factors (CHIEF) short form
Collected by	VSTORM RESTORE Follow Up Staff
Collected for	All RESTORE major trauma patients who have consented to a telephone interview.
Data source	VSTORM, Patient (telephone interview)
Database Location	vsCHEIFS
Reporting Guide	There is one set of Patient Interview records per follow-up period.

27.1 Reason for not administering CHIEF short form

Definition	CHIEF Instrument not administered reason		
Database Name	NotAdministered	Collection	Mandatory (where applicable)
Datatype	Numeric	Form	Code
Field size	1	Layout	N
Code set	_notAdministeredReasonCHIEF (reference table)		
	Code	Description	
	1	Nursing Home	
	2	NESB	
	3	Other	
Reporting guide	-		
Purpose	Outcomes reporting		
Data users	VSTORM RESTORE Staff, Epidemiologists		
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only		
Definition source	RESTORE project only		
Code set source	VSTORM		

27.2 CHIEF short form

Definition	Responses to CHIEF short form questions																								
Database Name	See below	Collection	Mandatory (where applicable)																						
Datatype	Numeric	Form	Code																						
Field size	1	Layout	N																						
Code set	<div><div>_chiefsf (reference table)</div><table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Not Applicable</td></tr><tr><td>2</td><td>Never</td></tr><tr><td>3</td><td>Less than monthly</td></tr><tr><td>4</td><td>Monthly</td></tr><tr><td>5</td><td>Weekly</td></tr><tr><td>6</td><td>Daily</td></tr><tr><td>-1</td><td>Unknown</td></tr></table></div> <div><div>_chiefsfb (reference table)</div><table><tr><th>Code</th><th>Description</th></tr><tr><td>1</td><td>Little Problem</td></tr><tr><td>2</td><td>Big Problem</td></tr></table></div>			Code	Description	1	Not Applicable	2	Never	3	Less than monthly	4	Monthly	5	Weekly	6	Daily	-1	Unknown	Code	Description	1	Little Problem	2	Big Problem
Code	Description																								
1	Not Applicable																								
2	Never																								
3	Less than monthly																								
4	Monthly																								
5	Weekly																								
6	Daily																								
-1	Unknown																								
Code	Description																								
1	Little Problem																								
2	Big Problem																								
Reporting guide	<div>In the past 12 months:</div> <div><div>Q01</div><div>Transportation</div></div> <div><div>Q01b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q02</div><div>Natural environment</div></div> <div><div>Q02b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q03</div><div>Other aspects of surroundings</div></div> <div><div>Q03b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q04</div><div>Information been available</div></div> <div><div>Q04b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q05</div><div>Availability of health care services and medical care</div></div> <div><div>Q05b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q06</div><div>Help around the home</div></div> <div><div>Q06b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q07</div><div>Help at school or work</div></div> <div><div>Q07b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q08</div><div>Other people’s attitudes at home</div></div> <div><div>Q08b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q09</div><div>Other people’s attitudes at school or work</div></div> <div><div>Q09b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q10</div><div>Prejudice or discrimination</div></div> <div><div>Q10b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q11</div><div>Policies and rules of businesses and organisations</div></div> <div><div>Q11b</div><div>When this occurs has it been a big or little problem</div></div> <div><div>Q12</div><div>Government programs and policies</div></div> <div><div>Q12b</div><div>When this occurs has it been a big or little problem</div></div>																								
Purpose	Outcomes reporting																								
Data users	VSTORM RESTORE Staff, Epidemiologists																								
Collection start	2014, Date of injury 1 July 2011- 30 June 2012 only																								
Definition source	RESTORE project only																								
Code set source	VSTORM																								