



## **NB Trauma Database**

**Reference Guide  
For Years 2014-2015**

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## NB Trauma Database Reference Guide

### How to obtain more information

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**About this guide**

This reference guide is intended for users of the NB Trauma Database. The guide provides an overview of the data, the general methodology used in its creation and important technical information. It contains operational procedures as well as table and field descriptions of data elements. The development of this document is an ongoing process and will be updated with changes that occur in the trauma data.

This data product is provided 'as is', and NB-IRDT makes no warranty, either express or implied, including but not limited to, warranties of merchantability and fitness for a particular purpose. In no event will NB-IRDT be liable for any direct, special, indirect, consequential or other damages, however caused.

## **Overview**

The New Brunswick Trauma program registry contains administrative information on the range of personal support, physical, social and mental health services provided to seniors requiring long-term care in New Brunswick.

## **Data Range**

2014 – 2015 (Fiscal year)

## **Data Source**

Horizon Health Network

## **How to cite this guide**

New Brunswick Institute for Data, Research and Training. (2018). NB Trauma Database for 2014 to 2015.

## **How to cite this product**

New Brunswick Institute for Data, Research and Training. (2018). NB Trauma Database for 2014 to 2015.

## **Acknowledgements**

The NB Trauma Database is used with permission of the Horizon Health Network.

## About this product

### Purpose of the product

The purpose of the Trauma database reference guide is to provide information on the linkable New Brunswick Trauma data held at the New Brunswick Institute for Research Data and Training (NB-IRDT). This data is accessible to researchers for public health and other trauma related research.

### Definitions and concepts

Data in the registry is obtained from all Level 1, Level 2, and Level 3 trauma centres in New Brunswick.

Level I	Level II	Level III
<b>Saint John Regional Hospital</b>	The Moncton Hospital	George Dumont Hospital Edmundston Regional Hospital Dr. Everett Chalmers Regional Hospital Hôpital Regional Chaleur Campbellton Regional Hospital Miramichi Regional Hospital

Data entry was performed by trauma nurses and the registry manager, unless the patient had an Injury Severity Score (ISS) greater than 12, or an ISS greater than 9 for all penetrating injuries. These cases are coded by Health Records and thus have more information available, e.g., IDC-10 codes, comorbidities, and complications.

### Content

The Trauma registry includes all patients who presented to a hospital via an Emergency Department (ED) with evidence or report of an injury, and subsequently a) were admitted for further treatment or b) died in the ED. For those admitted, the database includes patients who presented directly at an ED prior to admission, and those who were first transferred from the ED of a lower-level (4 or 5) trauma centre to a higher level (1, 2, or 3) trauma centre to receive care.

A null value 'Unknown' applies if, at the time of patient care documentation or data abstraction, information was not known. A null value code of 'Not applicable' applies if, at the time of patient care documentation, the information requested was not applicable to the patient, the hospitalization or the patient care event. For example, if the patient was not ventilated, then VENTILATION\_DAYS is not applicable.

This version of the Trauma database contains six (6) groups of data, shown below:



## NB Trauma Database Reference Guide

Field	Field Name
1	Demographic information
2	Patient pathway
3	Additional pre-hospital transport and treatment data
4	Nature of injury
5	Facility vitals and ED interventions
6	Additional data on patients with ISS greater than 12

### General methodology

Not applicable

### Limitations

This database does not contain all of the variables in the original source data. The variables listed here were determined by the NB Trauma Program to be relevant to future trauma research. For example, variables related to program quality assurance are not included in the database. Further, this registry does not include any procedures or interventions provided to the patient once admitted, or further transfers to receive continuing care or rehabilitation.

### Comparison to other products/versions

Not applicable

### Using with other products

Not applicable

### Reference Date

2014 – 2015 (Fiscal years)

## Technical specifications

### Record layouts and data descriptions

#### 1. Demographic Information

Type <sup>1</sup>	Variable name	Description
N	ISS12	Patients assigned an ISS greater than 12
N	Sex	Patient sex code
N	Year	Year of birth
N	Res_code	Individual address code

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

#### ISS12

Identifies patients who were assigned an Injury Severity Score (ISS) greater than 12 (and thus have additional variables describing their injuries)

Code	Description
1	Yes – ISS greater than 12
2	No – ISS is 12 or lower

#### Sex

Code	Description
1	Male
2	Female
999	Unknown (transgendered, truly unknown, or not documented)

#### Year

The patient's year of birth (YYYY)

#### Res\_Code

Number that identifies the Statistics Canada Census Subdivision Code of the patient's home address (#####)

#### 2. Patient Pathway: From Injury to Hospital Admission to Discharge

Type	Variable name	Description
C	INJ_D	Date of injury
C	INJ_T	Time of injury
N	INJ_APPROX	Approximate date/time of injury
N	CALL_D	Ambulance call date
N	CALL_T	Ambulance call time
N	DISPATCH_D	Ambulance dispatch date

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<b>N</b>	<b>DISPATCH_T</b>	Ambulance dispatch time
<b>N</b>	<b>LVPOST_D</b>	Date of ambulance departure to scene
<b>N</b>	<b>LVPOST_T</b>	Time of ambulance departure to scene
<b>N</b>	<b>ONSCENE_D</b>	Date ambulance arrived on scene
<b>N</b>	<b>ONSCENE_T</b>	Time ambulance arrived on scene
<b>N</b>	<b>TOPAT_D</b>	If patient not located at scene
<b>N</b>	<b>TOPAT_T</b>	If patient not located at scene
<b>N</b>	<b>LVSCENE_D</b>	Ambulance departure from scene date
<b>N</b>	<b>LVSCENE_T</b>	Ambulance departure from scene time
<b>C</b>	<b>ARRFC1_D</b>	Date ambulance arrived at primary facility
<b>C</b>	<b>ARRFC1_T</b>	Time ambulance arrived at primary facility
<b>N</b>	<b>ORIGIN</b>	Identifies patient origin
<b>N</b>	<b>FC1</b>	Identifies primary treating facility
<b>N</b>	<b>FC2</b>	Identifies secondary treating facility
<b>C</b>	<b>DEPFC1_D</b>	Date patient leaves primary treating facility
<b>C</b>	<b>DEPFC1_T</b>	Time patient leaves primary treating facility
<b>C</b>	<b>ARRFC2_D</b>	Date patient arrives at secondary treating facility
<b>C</b>	<b>ARRFC2_T</b>	Time patient arrives at secondary treating facility
<b>C</b>	<b>REGED_D</b>	Date patient registers in ED of final treating facility
<b>C</b>	<b>REGED_T</b>	Time patient registers in ED of final treating facility
<b>C</b>	<b>LEFTED_D</b>	Date patient leaves ED
<b>C</b>	<b>LEFTED_T</b>	Time patient leaves ED
<b>N</b>	<b>ED_DSP</b>	Patient outcome in ED
<b>C</b>	<b>ADMFC_D</b>	Date patient admitted to facility
<b>C</b>	<b>ADMFC_T</b>	Time patient admitted to facility
<b>N</b>	<b>SERVTYPE</b>	Identifies physician service at admission
<b>N</b>	<b>SERVFLR</b>	Identifies first nursing unit at admission
<b>N</b>	<b>DIS_D</b>	Patient discharge date
<b>C</b>	<b>DIS_T</b>	Patient discharge time
<b>N</b>	<b>DIS_STAT</b>	Patient discharge status
<b>N</b>	<b>DIS_DEST</b>	Discharge destination
<b>N</b>	<b>DIS_FC</b>	Identifies facility to which patient discharged
<b>C</b>	<b>HOSP_LOS</b>	Length of stay at hospital

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

### INJ\_D

Identifies patient's date of injury (DD/MM/YYYY).

<b>Code</b>	<b>Description</b>
<b>999</b>	The injury date is unknown

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### INJ\_T

Identifies the time when the injury occurred, using the 24-hour clock (XX:XX).

Code	Description
999	The injury time is unknown

### INJ\_APPROX

If injury date and/or injury time are unknown, this variable can provide an approximate day/time when the injury occurred.

Code	Description
1	Morning (0601 to 1200)
2	Afternoon (1201 to 1800)
3	Evening (1801 to 2400)
4	Night (0001 to 0600)
5	Today
6	Yesterday
7	Less than a week ago
8	More than a week ago
9	Not documented
Blank	Valid missing data – not required

### CALL\_D and CALL\_T

Date and time the call is made to 911 for ambulance to respond to injury

Code	Description
999	The date or time is unknown

### DISPATCH\_D and DISPATCH\_T

Date and time an ambulance is dispatched to respond to the scene by Medical Communications Management Centre

Code	Description
999	The date or time is unknown

### LVPOST\_D and LVPOST\_T

Date and time ambulance leaves post to scene of injury

Code	Description
999	The date or time is unknown

### ONSCENE\_D and ONSCENE\_T

Date and time ambulance is on scene

Code	Description
999	The date or time is unknown

### TOPAT\_D and TOPAT\_T

This date and time is used if patient is not located at the scene

Code	Description
999	The date or time is unknown

### LVSCENE\_D and LVSCENE\_T

Date and time ambulance leaves scene for primary treating facility

Code	Description
999	The date or time is unknown

### ARRFC1\_D and ARRFC1\_T

Date and time ambulance arrives at primary treating facility

Code	Description
999	The date or time is unknown

### Origin

Code that identifies whether the patient came from the scene or another facility by ambulance.

Code	Description
1	Scene
2	Transfer
Blank	Valid missing data – not applicable

### FC1

Code that identifies the primary treating facility. Depending on the patient's pathway, this may be the hospital that admits the patients, or it may be the hospital that first receives and initially stabilizes the patient prior to transport to another institution for further treatment and admission.

Code	Description	HHN Zone
48	Georges Dumont Hospital – Level 3	1
45	Stella-Maris-de-Kent Hospital – Level 5	
16	Grand Manan Hospital – Level 5	
29	Saint John Regional Hospital – Level 1	2
33	Charlotte County Hospital – Level 5	
34	Sussex Health Centre – Level 5	
1	Dr. Everett Chalmer's Regional Hospital – Level 5	3
23	Hotel Dieu St. Joseph's – Level 5	
46	Oromocto Public Hospital – Level 5	

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<b>49</b>	Upper River Valley Hospital – Level 5	
<b>12</b>	Stan Cassidy Rehabilitation Centre	
<b>9</b>	Edmundston Regional Hospital – Level 3	
<b>32</b>	Hotel-Dieu-St-Joseph St-Quentin – Level 5	4
<b>42</b>	Grand Falls General Hospital – Level 5	
<b>5</b>	Campbellton Regional Hospital – Level 3	5
<b>39</b>	Chaleur Regional Hospital – Level 3	
<b>35</b>	Tracadie-Sheila Hospital – Level 5	6
<b>41</b>	Hospital de l'Enfant – Caraquet – Level 5	
<b>22</b>	Miramichi Regional Hospital – Level 3	7

### DEPFC1\_D and DEPFC1\_T

These variables are available for patients that require further treatment at a higher-level trauma centre, and relate to the date and time a patient leaves the primary treating facility.

### ARRFC2\_D and ARRFC2\_T

For patients that require further treatment at a higher-level trauma centre, these variables provide the date and time a patient arrives at the secondary treating facility (FC2)

### REGED\_D and REGED\_T

The date and time of when the patient registers in the ED of the final treating facility.

<b>Code</b>	<b>Description</b>
<b>999</b>	The date or time is unknown

### LEFTED\_D and LEFTED\_T

The date and time of when the patient leaves the ED for further treatment or hospital admission.

<b>Code</b>	<b>Description</b>
<b>999</b>	The date or time is unknown

### ED\_DSP

Code that identifies what happened to patient in the emergency room – admitted, discharged, etc.

<b>Code</b>	<b>Description</b>
<b>1</b>	Another Acute Care Facility (V)
<b>2</b>	Another Trauma Centre (I, II, III)
<b>3</b>	Patient admitted to operating room (OR)
<b>4</b>	Patient admitted to intensive care unit (ICU)
<b>5</b>	Patient admitted to ward

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<b>6</b>	Dies in emergency department (ED)
<b>7</b>	Discharged home
<b>8</b>	Other* (see below)
<b>9</b>	LWBS (Left Without Being Seen)
<b>10</b>	AMA (Against Medical Advice)
<b>888</b>	Not Applicable
<b>999</b>	Unknown

\*Non-Trauma Admits: Option 8 is used for patients admitted to facility for non-trauma reasons. The trauma event may have brought them to the facility, but if the reason they are admitted is not trauma related then there is no reason to follow the patient to discharge.

### ADMFC\_D and ADMFC-T

The date and time when the patient is admitted to the facility.

<b>Code</b>	<b>Description</b>
<b>999</b>	The date or time is unknown

### SERVTYPE

Codes identifying the physician service under which the patient is admitted.

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>1</b>	Family Practice	<b>57</b>	Anaesthesiologist
<b>10</b>	Internist	<b>60</b>	Otolaryngologist
<b>11</b>	Allergist	<b>62</b>	Ophthalmologist
<b>12</b>	Cardiologist	<b>64</b>	Psychiatrist
<b>13</b>	Dermatologist	<b>66</b>	Hematologist
<b>14</b>	Endocrinologist	<b>68</b>	Immunologist
<b>15</b>	Gastro-enterologist	<b>70</b>	Physiatrist
<b>16</b>	Nephrologist	<b>72</b>	Geriatrician
<b>17</b>	Neurologist	<b>74</b>	Oncologist
<b>18</b>	Respirologist	<b>77</b>	Pathologist
<b>19</b>	Rheumatologist	<b>78</b>	Microbiologist
<b>20</b>	Pediatrician	<b>79</b>	Parasitologist
<b>30</b>	General Surgeon	<b>80</b>	Radiologist
<b>31</b>	Cardiac Surgeon	<b>81</b>	Radiotherapist
<b>32</b>	Neurosurgeon	<b>82</b>	Geneticist
<b>33</b>	Oral Surgeon	<b>83</b>	Toxicologist
<b>34</b>	Orthopedic Surgeon	<b>87</b>	Dentist
<b>35</b>	Plastic Surgeon	<b>91</b>	Podiatrist
<b>36</b>	Thoracic Surgeon	<b>95</b>	Vascular Surgeon
<b>37</b>	Transplant Surgeon	<b>96</b>	Infectious Disease Specialist
<b>38</b>	Traumatologist	<b>97</b>	Neonatologist
<b>39</b>	Urologist	<b>99</b>	Intensivist

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<b>50</b>	Obstetrician/Gynecologist	<b>888</b>	Not Applicable
<b>55</b>	Critical care physician	<b>999</b>	Unknown

### SERVFLR

Reflects the first nursing unit to which a patient has been admitted. For those patients that go to the OR, ED\_DSP identifies that the patient went to the OR and this variable will then identify the first nursing unit to which the patient was admitted. OR will no longer be an option to fill in this field.

<b>Code</b>	<b>Description</b>
<b>1</b>	MICU
<b>2</b>	NICU
<b>3</b>	SICU
<b>4</b>	PICU
<b>5</b>	CCU
<b>6</b>	ICU
<b>7</b>	MSICU
<b>8</b>	PACU
<b>9</b>	OR (Retired)
<b>10</b>	ED
<b>11</b>	EIP
<b>12</b>	OBS
<b>13</b>	Not documented
<b>14</b>	DOA
<b>15</b>	DIE

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>16</b>	S-3AN	<b>25</b>	S-4CN
<b>17</b>	S-3BN	<b>26</b>	S-4CS
<b>18</b>	S-3CN	<b>27</b>	S-4DN
<b>19</b>	S-3CS	<b>28</b>	S-5AN
<b>20</b>	S-3DS	<b>29</b>	S-5AS
<b>21</b>	S-4AN	<b>30</b>	S-5BN
<b>22</b>	S-4AS	<b>31</b>	S-5BS
<b>23</b>	S-4BN	<b>32</b>	S-5CN
<b>24</b>	S-4BS	<b>33</b>	S-5CS

Here, S = Saint John Regional Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>34</b>	T-600	<b>40</b>	T-4600
<b>35</b>	T-5600	<b>41</b>	T-4200
<b>36</b>	T-5400	<b>42</b>	T-4100



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<b>37</b>	T-5200	<b>43</b>	T-3600
<b>38</b>	T-5100	<b>44</b>	T-3400
<b>39</b>	T-2600	<b>45</b>	T-3200
		<b>46</b>	T-1600

Here, T = The Moncton Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>47</b>	D-2SE	<b>52</b>	D-4NW
<b>48</b>	D-3E	<b>53</b>	D-4W
<b>49</b>	D-3SE	<b>54</b>	D-4NE
<b>50</b>	D-3SW	<b>55</b>	D-4SW
<b>51</b>	D-3NW	<b>96</b>	D-4SE

Here, D = Dr. Everett Chalmers Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>56</b>	G-3A	<b>62</b>	G-4A
<b>57</b>	G-3B	<b>63</b>	G-4B
<b>58</b>	G-3C	<b>64</b>	G-4C
<b>59</b>	G-3D	<b>65</b>	G-4D
<b>60</b>	G-3E	<b>66</b>	G-4E
<b>61</b>	G-3F	<b>67</b>	G-4F

Here, G = Georges-L-Dumont Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>68</b>	C-2E	<b>72</b>	C-2W
<b>69</b>	C-3W	<b>73</b>	C-3E
<b>70</b>	C-1E	<b>74</b>	C-4E
<b>71</b>	C-1W	<b>75</b>	C-4W

Here, C = Chaleur Regional Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>76</b>	M-1W	<b>80</b>	M-3E
<b>77</b>	M-1E	<b>81</b>	M-4E
<b>78</b>	M-2W	<b>82</b>	M-4W
<b>79</b>	M-2E		

Here, M = Miramichi Regional Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>83</b>	E-OBS	<b>87</b>	E-PSY/PED
<b>84</b>	E-AJC	<b>88</b>	E-Soins Prolonges
<b>85</b>	E-PSY	<b>89</b>	E-MED

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<b>86</b>	E-PED	<b>90</b>	E-CHIR
		<b>91</b>	E-GYN

Here, E = Edmundston Regional Hospital

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<b>92</b>	K-OBS	<b>94</b>	K-GERI
<b>93</b>	K-PSY	<b>95</b>	K-MEDSURG

Here, K = Campbellton Regional Hospital

### DIS\_D and DIS\_T

Date and time the patient is discharged from the hospital

<b>Code</b>	<b>Description</b>
<b>999</b>	The date or time is unknown

### DIS\_STAT

Codes representing the discharge status of the patient

<b>Code</b>	<b>Description</b>
<b>6</b>	Discharged alive
<b>7</b>	Died in hospital after admission
<b>8</b>	Died in Emergency, other than failed resuscitation attempt
<b>9</b>	Died after failed resuscitation attempt lasting between 5 and 15 minutes
<b>10</b>	DOA (declared dead on arrival) less than 5 minutes after presentation/resuscitation efforts or no resuscitation attempt

### DIS\_DEST

Codes indicating the location to which the patient is discharged or the services arranged for the patient immediately upon discharge from the facility.

<b>Code</b>	<b>Description</b>
<b>1</b>	Home
<b>2</b>	Home with support services
<b>3</b>	Another acute care facility: Patient transferred to another facility for continuing care
<b>4</b>	General Rehabilitation Facility: Patient is discharged and admitted to the same facility for rehabilitation care
<b>5</b>	Chronic Care Facility: Patient transferred to chronic care facility. Example: St. Joseph's Hospital or Ridgewood
<b>6</b>	Nursing home
<b>7</b>	Special Rehabilitation facility: Patient transferred to Stan Cassidy Centre for Rehabilitation
<b>8</b>	Foster care/children's aid
<b>9</b>	Other

---

**10**      Died
 

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**DIS\_FC**

If discharged to another facility in the trauma network, this variable identifies the hospital.

**HOSP\_LOS**

The total number of hospital days from ADMFC\_D TO DIS\_D. Patients who were admitted and discharged on the same day, or died on the same day, have a length of stay of 1 day.

### 3. Additional Pre-Hospital Transport and Treatment Data

Type <sup>1</sup>	Field Name	Description
N	PHP_TYP	Mode of transport to first treating facility
N	PHP_LATD	Latitude (Degrees)
N	PHP_LATM	Latitude (Minutes)
N	PHP_LATS	Latitude (Seconds)
N	PHP_LNGD	Longitude (Degrees)
N	PHP_LNGM	Longitude (Minutes)
N	PHP_LNGS	Longitude (Seconds)
N	PHP_AGNCS	Ambulance agency code
N	AMB_AREA	Ambulance coverage area
N	BYPASS	Bypass code
N	FAC_BYP	Identifies hospital bypassed
N	PHP_SBP1	Systolic blood pressure
N	PHP_DBP1	Diastolic blood pressure
N	PHP_HR1	Heart rate
N	PHP_RR1	Respiratory rate
N	PHP_O21	Oxygen saturation
N	PHP_GCS_EYE1	GCS eye score code
N	PHP_GCS_VERB1	GCS verbal response code
N	PHP_GCS_MTR1	GCS motor response code
N	PHP_GCS_TTL1	Total GCS score
N	PHP_RTS1	Revised trauma score

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

**PHP\_TYP**

Identifies how the patient was transported to the first treating facility.

Code	Description
1	Land ambulance
2	Helicopter ambulance

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<b>3</b>	Fixed-wing ambulance
<b>4</b>	Charter fixed-wing (Used for Air Manan flights from Grand Manan)
<b>5</b>	Charter helicopter
<b>6</b>	Private vehicle
<b>7</b>	Walk-In
<b>8</b>	Other
<b>9</b>	Land ambulance to land ambulance (for multiple transports)
<b>999</b>	Unknown

Many patients arrive at an ED through private transportation/walk-ins. However, if the patient used an ambulance, additional information will be available – if INJ\_LOC = 7 (NB) and PHP\_TYP = 1 (land ambulance), the exact location of the injury as per the responding ambulance's GPD system will be available.

### PHP\_LATD

Latitude (Degrees)

### PHP\_LATM

Latitude (Minutes)

### PHP\_LATS

Latitude (Seconds)

### PHP\_LNGD

Longitude (Degrees)

### PHP\_LNGS

Longitude (Seconds)

<b>Code</b>	<b>Description</b>
<b>Blank</b>	Valid missing data – not required

### PHP\_AGNCS

Code that identifies the ambulance agency that transported the patient.

<b>Code</b>	<b>Description</b>
<b>1</b>	ANB
<b>2</b>	PEI
<b>3</b>	NS
<b>4</b>	PQ
<b>5</b>	US
<b>6</b>	Other

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<b>999</b>	Unknown (Identified as ambulance but not sure which one it is)
<b>Blank</b>	Missing data – valid (was a walk-in)

### AMB\_AREA

If PHP\_TYP = 1 (Land ambulance), or if PHP\_TYP = 2 (Helicopter ambulance), or if PHP\_TYP = 3 (Fixed-wing ambulance), the ambulance coverage area of the responding ambulance will be provided.

Code	Description
<b>1</b>	W1: Perth-Andover, Tobique, Plaster Rock, Florenceville
<b>2</b>	W2: Woodstock, Hartland, Dow Settlement
<b>3</b>	W3: Keswick, Fredericton, Oromocto
<b>4</b>	W4: Harvey, McAdam, Fredericton Junction
<b>5</b>	W5: Doaktown, Boiestown, Stanley, Chipman, Minto, Mill Cove
<b>6</b>	S1: Deer Island, Campobello Island, St. Stephen, St. Andrews
<b>7</b>	S2: Lepreau, Grand Manan, Blacks Harbour
<b>8</b>	S3: Saint John, Westfield
<b>9</b>	S4: Sussex, Hampton, Kingston, St. Martins
<b>10</b>	E1: Miramichi, Blackville, Rogersville, Baie-Ste-Anne, Neguac
<b>11</b>	E2 : Elsipogtog, Rexton, Claireville, Bouctouche
<b>12</b>	E3: Moncton
<b>13</b>	E4: Petitcodiac, Salisbury, Hillsborough, Riverside-Albert
<b>14</b>	E5: Shediac, Cap-Pélé, Port Elgin, Sackville
<b>15</b>	N1: Edmundston, St-Francois, Ste-Anne
<b>16</b>	N2: Kedgwick, Saint Quentin, Saint Leonard, Grand Falls
<b>17</b>	N3: Dalhousie, Belledune, Campbellton
<b>18</b>	N4: Bathurst
<b>19</b>	N5: Caraquest, Lamèque, Shippagan, Tracadie
<b>20</b>	AR (Aircare)
<b>21</b>	AM (Air Manan)
<b>22</b>	CR
<b>888</b>	Not Applicable (e.g., not ANB)
<b>999</b>	Unknown
<b>Blanks</b>	Valid missing data – not required or if ambulance, not certain it was ANB

### BYPASS

After paramedics assess and treat a trauma patient at the scene of an injury, they apply NB Trauma's Field Trauma Triage (FTT) guidelines, which consider the physiological, anatomical and mechanism of injury. Those with qualifying injuries are either taken to the closest available ED (if an immediate life threat is present) or to a Level 1, 2, or 3 Trauma centre for care. This ensure that patients with major injuries are taken directly to a facility that is best equipped to

## NB Trauma Database Reference Guide

help them. Level 5 Trauma centres are also key, offering emergency interventions for those with an immediate life threat and by offering care to trauma patients whose injuries do not qualify them for bypass to a larger facility.

Code	Description
<b>1</b>	Yes
<b>2</b>	No
<b>888</b>	Not Applicable – FTT was not activated
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – e.g., was not ANB case

### FAC\_BYB

If BYPASS = 1 (Yes), this variable will indicate the hospital which the patient bypassed.

Code	Description	HHN Zone
<b>20</b>	Moncton City Hospital – Level 2	
<b>26</b>	Sackville Memorial Hospital – Level 5	1
<b>48</b>	Georges Dumont Hospital – Level 3	
<b>45</b>	Stella-Maris-de-Kent Hospital – Level 5	
<b>16</b>	Grand Manan Hospital – Level 5	
<b>29</b>	Saint John Regional Hospital – Level 1	2
<b>33</b>	Charlotte County Hospital – Level 5	
<b>34</b>	Sussex Health Centre – Level 5	
<b>1</b>	Dr. Everett Chalmer's Regional Hospital – Level 5	
<b>23</b>	Hotel Dieu St. Joseph's – Level 5	3
<b>46</b>	Oromocto Public Hospital – Level 5	
<b>49</b>	Upper River Valley Hospital – Level 5	
<b>12</b>	Stan Cassidy Rehabilitation Centre	
<b>9</b>	Edmundston Regional Hospital – Level 3	4
<b>32</b>	Hotel-Dieu-St-Joseph St-Quentin – Level 5	
<b>42</b>	Grand Falls General Hospital – Level 5	
<b>5</b>	Campbellton Regional Hospital – Level 3	
<b>39</b>	Chaleur Regional Hospital – Level 3	5
<b>35</b>	Tracadie-Sheila Hospital – Level 5	
<b>41</b>	Hospital de l'Enfant – Caraquet – Level 5	
<b>22</b>	Miramichi Regional Hospital – Level 3	

Paramedics record vital signs and clinical measurements for patients transported by ambulance to a hospital. These are recorded in the registry as the data variables given below. The first variable name for each measurement ends with '1' to denote the first measurement taken. If multiple measurements are taken, data will populate additional variables in sequential order.

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### PHP\_SBP1 and PHP\_SBP2

Systolic blood pressure (###)

Code	Description
999	Unknown

### PHP\_DBP1 and PHP\_DBP2

Diastolic blood pressure (###)

Code	Description
999	Unknown

### PHP\_HR1 and PHP\_HR2

Heart rate (###)

Code	Description
999	Unknown

### PHP\_RR1 and PHP\_RR2

Respiratory rate (###)

Code	Description
999	Unknown

### PHP\_O21 and PHP\_O22

Oxygen saturation (###)

Code	Description
999	Unknown

### PHP\_GCS\_EYE1 and PHP\_GCS\_EYE2

Code that identifies Glasgow Coma Scale (GCS) eye score (grade assigned to best response) for patient

Code	Description
1	No response
2	To pain
3	To sound
4	Spontaneously
999	Unknown

### PHP\_GCS\_VERB1 and PHP\_GCS\_VERB2

Code that identifies GCS best verbal response for patient

Code	Description
1	No response
2	Incomprehensible sounds

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<b>3</b>	Inappropriate words
<b>4</b>	Confused
<b>5</b>	Oriented to time, place and person
<b>999</b>	Unknown

### PHP\_GCS\_MTR1 and PHP\_GCS\_MTR2

Code that identifies GCS best motor response for patient

Code	Description
<b>1</b>	No response
<b>2</b>	Abnormal extension
<b>3</b>	Abnormal flexion
<b>4</b>	Flexion withdrawal from pain
<b>5</b>	Moves to localized pain
<b>6</b>	Obeys commands
<b>999</b>	Unknown

### PHP\_GCS\_TTL1 and PHP\_GCS\_TTL2

Patient's total GCS score

Code	Description
<b>15</b>	Best response
<b>8 or less</b>	Comatose
<b>3</b>	Totally responsive
<b>999</b>	Unknown

### PHP\_RTS1 and PHP\_RTS2

Revised Trauma Score. 999 = unknown

Table-1: Revised Trauma Score.

Glasgow Coma Scale (GCS)	Systolic Blood Pressure (SBP)	Respiratory Rate (RR)	Coded Value
13-15	>89	10-29	4
9-12	76-89	>29	3
6-8	50-75	6-9	2
4-5	1-49	1-5	1
3	0	0	0

$RTS = 0.9368 \text{ GCS} + 0.7326 \text{ SBP} + 0.2908 \text{ RR}$

## 4. Nature of Injury

Type	Field name	Description
<b>N</b>	INJ_TYPE	Injury identifier
<b>N</b>	INJ_CLASS	Injury class identifier
<b>C</b>	MOI	Mechanism of injury
<b>N</b>	WORK	Identifies work related injuries



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<b>N</b>	JOB	Job identifier
<b>N</b>	SPORT	Sport identifier
<b>N</b>	FALL_HGT	Fall height identifier
<b>N</b>	FALL_LOC	Fall location identifier
<b>N</b>	BURN_TYPE	Identifies type of burn
<b>N</b>	PDEVS1	Protective devices identifier
<b>N</b>	MVC_DET	Motorized vehicular collision details
<b>N</b>	VEH_TYPE	Motor vehicle identifier
<b>N</b>	VEH_POS	Patient location identifier
<b>N</b>	EJECTED	Patient ejection identifier

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

### INJ\_TYPE

Code that identifies primary mechanism of injury.

<b>Code</b>	<b>Description</b>
<b>1</b>	Blunt: The majority of injuries are blunt. Inhalation, including chemical, and ingestion injuries are considered blunt
<b>2</b>	Penetrating: Any injury is defined as penetrating if the patient is impaled by an object or if a missile (bullets, piece of glass, or metal) enters the body. Impaling objects may include knives, nails, or fence posts.
<b>3</b>	Burns, including any fire/steam/heat related inhalation injuries
<b>4</b>	Drowning/asphyxiation: Used for cases of drowning, near drowning or asphyxiation (including suffocation and hanging, etc.)
<b>888</b>	Not Applicable
<b>999</b>	Unknown

### INJ\_CLASS

Groups patients by the primary cause or mechanism of the trauma event

<b>Code</b>	<b>Description</b>
<b>1</b>	Assault
<b>2</b>	Burns
<b>3</b>	Fall
<b>4</b>	Motorized Vehicle Collision (MVC)
<b>5</b>	Non-motorized vehicle
<b>6</b>	Self-harm
<b>7</b>	Sport
<b>888</b>	Other
<b>999</b>	Unknown

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### MOI

Code to describe the mechanism of injury, to further clarify or provide more details about how the injury occurred

Code	Description
1	Abuse
2	Amputation
3	Asphyxiation
4	Bite – Cat
5	Bite – Dog
6	Bite – Other
7	Crush
8	Exposure: Used for exposure to cold, i.e., hypothermia or anything that affects the skin, i.e., chemicals spilled on skin
9	Fall
10	Foreign Body: Includes anything in eye (dirt, chemicals, tree branch, welder's flash)
11	Gunshot wound
12	Hanging
13	Ingestion
14	Inhalation
15	Laceration
16	Movement: Includes rolling of ankles while stepping off curbs or where the patient did not actually fall (jumping from levels)
19	Penetrating
20	Sexual
21	Struck: Used when either patient hits something (head struck while playing in the yard), or something hits the patient (struck by a falling piece of ice)
888	Not documented
999	Unknown
Blank	Valid missing data – not applicable

### WORK

Code that identifies those injuries that happen at work

Code	Description
1	Yes
2	No
888	Not applicable (e.g., no job, age)
999	Unknown

### JOB

Code that describes the type of industry that the patient was working in at the time of the injury

Code	Description
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<b>1</b>	Recreation, Sports, and Performing Arts (Athletes, Dancers, Physical Fitness Instructors, Actors)
<b>2</b>	Medicine and Health (MDs, Nurses, therapists, Ambulance Attendants, Dental Assistants, Veterinarians, Mental Health Workers)
<b>3</b>	Other professional, administrative, and artistic (Clerks, teachers, engineers, writers, literary agents, Artists, Accountants, Data Processors, Office workers)
<b>4</b>	Sales (Insurance agents, sales clerks, retail store workers, service station attendants)
<b>5</b>	Protective Services (Firefighters, Police, Security Guards, soldiers)
<b>6</b>	Other Services (Janitors, Food Service, Personal Services (hairstylists, cooks, day care workers, florists, butchers, public utility workers, landscapers))
<b>7</b>	Mining or quarrying (Drilling or blasting)
<b>8</b>	Forestry, Logging
<b>9</b>	Farming, Fishing, Hunting (General or specialist farms such as horse farms)
<b>10</b>	Manufacturing – processing or machinery (Packaging food, inspecting, knitting, metal plating, mixing chemicals, sheet metal, sawing, shaping clay, pulp and paper mills, grain elevators)
<b>11</b>	Other Manufacturing – Assembly, Repairing, or Fabricating (mechanic, shoe maker, vehicle assembler, upholsterer)
<b>12</b>	Construction trades (Plumber, carpentry, electrician, general contractor, bulldozer operator)
<b>13</b>	Transport equipment (drivers of car, vans, trucks, buses, ambulances and taxis)
<b>14</b>	Other Drivers (Fast Food Delivery, Streetcars, Railways, ships, aircraft)
<b>15</b>	Material Handling and related equipment operation (Freight handler, forklift operator, crane operator, hoist operator)
<b>16</b>	Other crafts and stationary equipment operators (Printers, Photo Processing, Audio/Visual Equipment operators)
<b>17</b>	Student (Full time, all ages)
<b>18</b>	Retired
<b>19</b>	Homemaker
<b>20</b>	Unemployed
<b>999</b>	Unknown

## SPORT

Code used to identify the sport or recreational activity involved in the incident

<b>Code</b>	<b>Description</b>
<b>1</b>	Aerobics
<b>2</b>	Aircraft: Recreational Motorized (e.g. Fixed wing)
<b>3</b>	Aircraft: Recreational Non-motorized (e.g. Glider)
<b>4</b>	All-Terrain Vehicle
<b>5</b>	Amusement Rides
<b>6</b>	Auto Racing

## NB Trauma Database Reference Guide

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<b>7</b>	Badminton
<b>8</b>	Baseball (Hard Ball, Soft Ball, T-ball, and Slo-pitch)
<b>9</b>	Basketball
<b>10</b>	Billiards/Pool/Shuffleboard
<b>11</b>	Boating: Motorized
<b>12</b>	Boating: Non-motorized (canoe, kayak, rowboat, sailboat, pedal boat)
<b>16</b>	Boating: Windsurf/Sail board
<b>18</b>	Boating: Waverunners, Seadoos, etc.
<b>19</b>	Boating: Other ,unspecified
<b>20</b>	Boxing (organized, would not include children at play)
<b>21</b>	Bowling (5 or 10 pin)
<b>22</b>	Cricket
<b>23</b>	Croquet/Lawn Bowling
<b>24</b>	Curling
<b>25</b>	Cycling: Driver (if unspecified, assume driver)
<b>26</b>	Cycling: Passenger
<b>27</b>	Cycling: Unicycles
<b>28</b>	Dancing
<b>29</b>	Darts
<b>30</b>	Dirt Biking/Mini Biking/Motocross
<b>31</b>	Diving
<b>32</b>	Fencing
<b>33</b>	Fire (Open flames outdoors – e.g. Charcoal and gas barbecues, camp fires)
<b>34</b>	Fireworks: User
<b>35</b>	Fireworks: Observer
<b>36</b>	Fishing
<b>37</b>	Football
<b>38</b>	Go-carting
<b>39</b>	Golf
<b>40</b>	Gymnastics (Organized – would not include children at play)
<b>41</b>	Handball
<b>42</b>	Hang-gliding/Para-sailing
<b>43</b>	Hiking
<b>44</b>	Horseback riding
<b>45</b>	Hockey: Ice (if type unspecified, assume ice or street depending on season)
<b>46</b>	Hockey: Non-ice, Non-inline hockey
<b>48</b>	Hockey: Inline
<b>49</b>	Horseshoes
<b>50</b>	Hunting: Bow and arrow, Gun, Knives
<b>53</b>	Jogging/running
<b>54</b>	Lacrosse

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55	Lawn Darts
56	Luge/Bobsled
57	Martial Arts: Judo, Kendo, Karate, Tae Kwon-DO, Jiu-Jitsu, etc.
58	Mountaineering/Rock climbing
59	Playground equipment (Swings, Slides, Monkey Bars, Teeter-totter in any location)
60	Play not further specified (e.g. running, jumping, skipping, general play)
61	Racquetball
62	Ringette
63	Rugby
64	Scuba Diving
65	Shooting: Bow and arrow (targets) Gun (i.e. non-hunting use of firearm, targets, rifle range, skeet)
67	Skateboarding
68	Skating: Ice (use in winter season if type of skating is not specified)
69	Skating: Inline
70	Skating: Roller
71	Skiing: Downhill – recreational (use if type of skiing is not specified)
72	Skiing: Downhill – Racing
73	Skiing: Cross-country
74	Ski Jumping (includes moguls and aerial stunts)
75	Sky diving/Parachuting
76	Snowboarding
77	Snowmobiling: Driver (assume driver if not specified)
78	Snowmobiling: Passenger
79	Snowmobiling: Towed behind on toboggan, tube, sleigh
80	Soccer
81	Squash
82	Swimming: Pool
83	Swimming: Open water
84	Swimming: Wading pool, location unspecified
85	Tennis
86	Tobogganing/Sledding/Snow tubing (not towed)
87	Track and Field
88	Trampoline
89	Volleyball
90	Walking (for Exercise)
91	Water Polo
92	Waterskiing/Tubing
93	Weightlifting (recreational or organized, includes exercise equipment)
94	Wrestling (organized, does not include children at play)
95	Observer of sporting event

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<b>96</b>	Other
<b>97</b>	Non-motorized scooters
<b>98</b>	Rodeo sports
<b>99</b>	Scooter – motorized
<b>Blank</b>	Valid missing data – not applicable

### FALL\_HGT

Present if INJ\_CLASS = 3. This is a code that identifies the height that the patient fell.

<b>Code</b>	<b>Description</b>
<b>1</b>	Same level
<b>2</b>	Less than 3m (10ft)
<b>3</b>	3 to 6m (10ft to 20ft)
<b>4</b>	More than 6m (20ft)
<b>5</b>	Not Documented
<b>7</b>	More than 5 stairs
<b>8</b>	Less than 6 stairs
<b>9</b>	Stairs – Unknown number
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### FALL\_LOC

Present if INJ\_CLASS = 3. This is a code that identifies where the fall happened.

<b>Code</b>	<b>Description</b>
<b>1</b>	Home
<b>2</b>	Work
<b>3</b>	Nursing Home
<b>4</b>	Outside
<b>5</b>	Public Place
<b>6</b>	School
<b>7</b>	Special Care Home
<b>8</b>	Daycare
<b>888</b>	Not Applicable
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### BURN\_TYPE

Present if INJ\_CLASS = 2. This code identifies the type of burn.

<b>Code</b>	<b>Description</b>
<b>1</b>	Thermal
<b>2</b>	Chemical
<b>3</b>	Electrical

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<b>4</b>	Scald
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### PDEVS1 and PDEVS2

Code used to identify if protective devices were used to help prevent the injuries.

<b>Code</b>	<b>Description</b>
<b>0</b>	None
<b>1</b>	Seatbelt: Lap and shoulder belt
<b>2</b>	Seatbelt: Lap belt only
<b>6</b>	Airbag deployment
<b>8</b>	Helmet
<b>9</b>	No Helmet
<b>10</b>	No Seatbelt
<b>11</b>	Use unknown
<b>12</b>	Other safety equipment used
<b>13</b>	Rear-facing infant seat
<b>14</b>	Forward-facing child seat
<b>15</b>	Booster seat
<b>16</b>	Seatbelt: NFS
<b>18</b>	Child Safety seat (unspecified type)
<b>19</b>	Eye protection/visor (sport and recreational use)
<b>20</b>	Life Jacket/Personal Floatation Device
<b>21</b>	Sports – specific pads
<b>22</b>	Hard Hat (work related)
<b>23</b>	Safety harness/restraining bar (work related)
<b>24</b>	Safety/protective clothing (work related)
<b>25</b>	Goggles/eye protection (work related)
<b>26</b>	Not documented
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### MVC\_DET

Present if INJ\_CLASS = 4. Code provides details of what happened during the motorized vehicular collision (MVC)

<b>Code</b>	<b>Description</b>
<b>1</b>	Animal
<b>2</b>	Head-on
<b>3</b>	Not documented
<b>4</b>	Off road
<b>5</b>	Rear end

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<b>6</b>	Rollover
<b>7</b>	Pedestrian
<b>8</b>	Sideswipe
<b>9</b>	Struck
<b>10</b>	T-bone
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### VEH\_TYPE

Code that identifies the type of motor vehicle used in the incident

<b>Code</b>	<b>Description</b>
<b>1</b>	Bus
<b>2</b>	Passenger Vehicle
<b>3</b>	Light Truck (van) – includes SUVs and vans
<b>4</b>	Heavy Truck – more than ½ ton
<b>5</b>	Recreational Vehicle
<b>6</b>	Motorcycle
<b>7</b>	Snowmobile
<b>8</b>	ATV
<b>9</b>	Boat
<b>10</b>	Transport Truck
<b>11</b>	Logging Truck
<b>12</b>	Plane
<b>13</b>	Train
<b>14</b>	Other
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### VEH\_POS

Code that identifies the location of the patient in the vehicle

<b>Code</b>	<b>Description</b>
<b>1</b>	Driver
<b>2</b>	Middle front
<b>3</b>	Right front
<b>4</b>	Left rear
<b>5</b>	Middle rear
<b>6</b>	Right rear
<b>7</b>	Behind middle row (occupants of third row in vans)
<b>8</b>	Hanger-on [Person hanging on to the outside of the vehicle (on roof or rear bumper) or in the back of an open ½ ton truck]
<b>9</b>	Front NS (not specified)



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<b>10</b>	Rear NS (not specified)
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

### EJECTED

Identifies patients that were ejected or thrown from the vehicle. This is also the code used to identify pedestrians struck by vehicle and thrown a distance

Code	Description
<b>1</b>	Yes
<b>2</b>	No
<b>Blank</b>	Valid missing data – not applicable

## 5. Facility Vitals and ED Interventions

Type	Field name	Description
<b>N</b>	CTAS	Canadian Triage and Acuity Score
<b>N</b>	FV_WGT	Pediatric patient weight
<b>N</b>	FV_TEMP	First recorded temperature
<b>N</b>	FV_SBP	Patient's systolic blood pressure
<b>N</b>	FV_DBP	Patient's diastolic blood pressure
<b>N</b>	FV_HR	Patient heart rate
<b>N</b>	FV_URR	Patient's unassisted respiratory rate
	<b>EDAS_GCS</b>	<b>GCS Total value</b>
<b>N</b>	FV_PTS	Pediatric patient trauma score
<b>N</b>	FV_BAC_LVL	Blood Alcohol Concentration
<b>N</b>	FC1_INTS1 – FC1_INTS18	Interventions at first treating facility
<b>N</b>	FC2_INTS1 – FC2_INTS18	Interventions at second and final facility

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

### CTAS

The Canadian Triage and Acuity Score. This is used in emergency departments to prioritize patients according to the type and severity of their injuries and/or illnesses.

Code	Description
<b>1</b>	Resuscitation – Immediate
<b>2</b>	Emergency – Within 15 minutes
<b>3</b>	Urgency – Within 30 minutes
<b>4</b>	Less Urgent – Within 60 minutes
<b>5</b>	Non-Urgent – Within 120 minutes
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

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### FV\_WGT

Weight of the patient in kilograms (kgs) for pediatric patients up to their 18<sup>th</sup> birthday (###). Typically recorded during the triage process to help with patient assessment

Code	Description
Blank	Not applicable or not documented

### FV\_TEMP

First recorded temperature, in degrees Celsius, at facility (###). Typically recorded during the triage process to help with patient assessment

Code	Description
Blank	Not applicable or not documented

### FV\_SBP

The patient's systolic blood pressure on arrival at facility (###). Typically captured within 30 minutes of arrival. However, there is no specific time associated with this variable

Code	Description
Blank	Not applicable or not documented

### FV\_DBP

The patient's diastolic blood pressure on arrival at facility (###). Typically captured within 30 minutes of arrival. However, there is no specific time associated with this variable

Code	Description
Blank	Not applicable or not documented

### FV\_HR

The patient's heart rate per minute on arrival at facility (###)

Code	Description
Blank	Not applicable or not documented

### FV\_URR

The patient's unassisted respiratory rate per minutes on arrival at facility

Code	Description
/	Arrives ventilated or bagged
Blank	Respiratory rate not recorded

### EDAS\_GCS

Total value of GCS. Unlike the paramedic-derived scores, only the total score is provided as a reliable and a valid indicator.

Code	Description
13 – 15	Minor injury

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<b>9 – 12</b>	Moderate injury
<b>8 or less</b>	Severe injury
<b>Blank</b>	Not applicable or not documented

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### FV\_PTS

Derived value that identifies trauma score for pediatric patients (used as injury severity predictor)

### FV\_BAC\_LVL

The patient's first documented Blood Alcohol Concentration (BAC) in facility. If this is Blank, it means either the patient is less than or equal 10 years of age, or they were not tested, or the results are not available.

### FC1\_INTS1 through FC1\_INTS18; and FC2\_INTS1 through FC2\_INTS18

Codes used to identify the non-operative procedures completed by personnel once the patient has arrived at the treating facility. It is possible that they have had multiple procedures of the same type. There are two sets of variables – one to identify interventions provided at the first treating facility (FC1), and another to identify interventions provided at the second and final treating facility (FC2). Depending on the patient's pathway to admission, FC2\_INTS1 onward may or may not be completed. Furthermore, not all sites have recorded data for their interventions

Code	Description	Code	Description
<b>1</b>	ABG	<b>44</b>	Halo Traction/Tongs
<b>2</b>	Alternative Airway	<b>45</b>	ICP Monitoring
<b>3</b>	Analgesia	<b>46</b>	Intraosseous
<b>4</b>	Angiography	<b>47</b>	IV med. Infusions
<b>5</b>	Antibiotic-Fracture	<b>48</b>	IV Therapy
<b>6</b>	Antibiotic-Other	<b>49</b>	Mannitol
<b>7</b>	Anticoagulant-Other	<b>50</b>	Massive Transfusion Activation
<b>8</b>	Anticoagulant-Warfarin	<b>51</b>	MRI
<b>9</b>	Arterial Line	<b>52</b>	Nasal Intubation
<b>10</b>	Aspen Collar	<b>53</b>	Needle decompression
<b>11</b>	Bedside Glucose	<b>54</b>	NPA
<b>12</b>	Beta-blockers	<b>55</b>	O2 Sat
<b>13</b>	Blanket Warmer	<b>56</b>	OPA
<b>14</b>	Blood Typing	<b>57</b>	Oral Intubation
<b>15</b>	Blood work	<b>58</b>	Other
<b>16</b>	Blood/Blood products	<b>59</b>	Pelvic Wrap
<b>17</b>	Burr Holes	<b>60</b>	Pericardiocentesis
<b>18</b>	Cast	<b>61</b>	Pregnancy Test
<b>19</b>	Central line	<b>62</b>	Procedural Sedation and Analgesia

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<b>20</b>	Applied Cervical Collar in ED	<b>63</b>	Prothrombin Complex Concentrate
<b>21</b>	Chest Tubes	<b>64</b>	Reduction
<b>22</b>	CPR	<b>65</b>	Sedation with Paralytic
<b>23</b>	Cricothyrotomy	<b>66</b>	Sling
<b>24</b>	CT Scan – Head	<b>67</b>	Spine Board
<b>25</b>	CT Scan – Spine	<b>68</b>	Splints
<b>26</b>	CT Scan – Chest	<b>69</b>	Staples
<b>27</b>	CT Scan – Abdomen	<b>70</b>	Suction
<b>28</b>	CT Scan – Pelvis	<b>71</b>	Sutures
<b>29</b>	CT Scan – Other	<b>72</b>	Tetanus status
<b>30</b>	Cut Down	<b>73</b>	Tourniquet
<b>31</b>	Defibrillation	<b>74</b>	Tracheotomy
<b>32</b>	Dilantin	<b>75</b>	Traction/pins
<b>33</b>	DPL	<b>76</b>	Tranexamic Acid
<b>34</b>	Dressings	<b>77</b>	Ultrasound
<b>35</b>	ED Thoracotomy	<b>78</b>	Urine Dip/Urinalysis
<b>36</b>	EDUS	<b>79</b>	Urine Toxicology
<b>37</b>	EKG	<b>80</b>	Ventilation
<b>38</b>	External Ventricular Drain	<b>81</b>	Vitamin K
<b>39</b>	FAST	<b>82</b>	Warm Blankets
<b>40</b>	Fluid Bolus	<b>83</b>	X-Rays
<b>41</b>	Fluid Warmer	<b>888</b>	Not Applicable
<b>42</b>	Foley	<b>999</b>	Unknown
<b>43</b>	Gastric Tube	<b>Blank</b>	Valid missing data – not applicable

## 6. Additional Data on Patients with ISS > 12

Type	Field Name	Description
N	INJ_LOC	Identifies province of incident
N	INJ_PLC	Identifies place of incident
N	ISS	Injury Severity Score
C	SCODE1 – SCODE8	Identifies Diagnosis Codes
C	ECODE	External cause of injury code
N	TRISS	Trauma score – injury severity score
N	PREDOT1 – PREDOT6	Identifies diagnosis based on AIS
C	COMORBID1 – COMORBID9	Identifies patient comorbidities
C	COMPL1 – COMPL9	Identifies patient complications
N	VENT_DAYS	Identifies number of days of ventilation
	ALC_DAYS	Identifies number of alternate level of care days

The type 'N' refers to numeric values while 'C' refers to both alphabetic and numeric characters.

### INJ\_LOC

Code that identifies the province where the trauma incident occurred.

Code	Description
1	Ontario
2	Manitoba
3	Saskatchewan
4	British Columbia
5	Alberta
6	Quebec
7	New Brunswick
8	Newfoundland and Labrador
9	Prince Edward Island
10	Nova Scotia
11	Northwest Territories and Nunavut
12	Yukon Territory
13	United States
14	Other
Blank	Valid missing data – not required

### INJ\_PLC

Code that identifies the place or location of the injury

Code	Description
1	U980: Home
2	U981: Residential Institution
3	U9820: Hospital
4	U9828: School and other institutions and Public Area
5	U983: Sports and Athletic Area
6	U984: Street and Highway
7	U985: Trade and Service Area
8	U986: Industrial and Construction Area
9	U987: Farm
10	U988: Other Specified Place of Occurrence
11	U989: NOS Place of Occurrence
888	Not Applicable
999	Unknown

### ISS

Injury Severity Score (ISS) as calculated based on the Abbreviated Injury Scale (AIS 2005), once all the injury information is available or at the time of patient discharge. The ISS is the sum of the squares of the highest AIS code in each of the three most severely injured ISS body regions.

### **SCODE1 through SCODE8**

Codes that identify the up to 27 diagnoses available to describe the injuries sustained by the patient (based on valid ICD-10 codes). It is possible that more than one of these codes will be repetitious in cases where the injury is duplicated (e.g., two broken legs)

### **ECODE1 and ECODE2**

ICD-10-CA External cause of injury code. This code identifies the patient's primary cause of injury. It is the external cause of injury code that reflects the primary cause of the patient's most serious injuries

### **TRISS**

Trauma Score – Injury Severity Score. This combines both physiologic and anatomic indices (ISS, RTS and patient age) to characterize the severity of injury and estimate the patient survival probability (see [www.trauma.org](http://www.trauma.org) for a calculator and its underlying formulae)

### **PREDOT1 through PREDOT6**

Code that identifies the up to 27 diagnoses available to describe the injuries sustained by the patient based on the Abbreviated Injury Scale (AIS). The first digit identifies the body region. The second digit identifies the type of anatomical structure. The third and fourth digits identify the specific anatomic structure of the specific nature of the injury. The fifth and sixth digits identify the level of injury. The digit to the right of the decimal point is the AIS score.

### **COMORBID1 through COMORBID9**

Comorbidities that the patient has, based on ICD-10-CA codes.

<b>ICD-10-CA Code</b>	<b>Description</b>
<b>F10.0 – F10.9, F19.0, F19.2, Z13.3</b>	Alcoholism: To be determined based on brief screening tool
<b>F90.0</b>	Attention deficit hyperactivity disorder (ADHD)
<b>R18</b>	Ascites within 30 days: The presence of fluid accumulation (other than blood) in the peritoneal cavity noted on physical examination, abdominal ultrasound or abdominal CT/MRI
<b>F84.0, F84.1, F84.5</b>	Autism/Asperger's
<b>D68.4, D66, D68.1, D67.1, D68.0, D68.3, D69.1, D69.4, D69.5, D69.6, D69.8, D69.9</b>	Bleeding disorder: Any condition that places the patient at risk for excessive bleeding due to a deficiency of blood clotting elements (such as vitamin K deficiency, hemophilia, thrombocytopenia or chronic anticoagulation therapy with Coumadin, Plavix or similar medications). Do not include patients on chronic aspirin therapy.
<b>Z51.1</b>	Chemotherapy for cancer within 30 days: A patient who had any chemotherapy treatment for cancer in the 30 days prior to admission. Chemotherapy may include, but is not restricted to,

	oral and parenteral treatment with chemotherapeutic agents for malignancies, such as colon, breast, lung, head and neck, and gastrointestinal solid tumours, as well as lymphatic and hematopoietic malignancies, such as lymphoma, leukemia and multiple myeloma
<b>K74.0 – K74.6, K70.3, K70.4, K71.7</b>	Cirrhosis: Documentation in the medical record of cirrhosis, which might also be referred to as end-stage liver disease. If there is documentation of prior or present esophageal or gastric varices, portal hypertension, previous hepatic encephalopathy or ascites with notation of liver disease, then cirrhosis should be considered present. Cirrhosis should also be considered present if documented by diagnostic imaging studies or at laparotomy/laparoscopy
<b>Q00.0 – Q99.9</b>	Congenital anomalies: Documentation of a cardiac, pulmonary, body wall, CNS/spinal, GI, renal, orthopedic or metabolic congenital anomaly
<b>I50.0, I50.1, I11, I13, I42.0 – I42.9, I43.0 – I43.8, I09.8</b>	<p>Congestive heart failure: The inability of the heart to pump a sufficient quantity of blood to meet the metabolic needs of the body or the ability of the heart to do so only at an increased ventricular filling pressure. To be included, this condition must be noted in the medical record as CHF, congestive heart failure or pulmonary edema with onset or increasing symptoms within 30 days prior to injury. Common manifestations are:</p> <ol style="list-style-type: none"> <li>1. Abnormal limitation in exercise tolerance due to dyspnea or fatigue;</li> <li>2. Orthopnea (dyspnea on lying supine);</li> <li>3. Paroxysmal nocturnal dyspnea (awakening from sleep with dyspnea);</li> <li>4. Increased jugular venous pressure</li> <li>5. Pulmonary rales on physical examination;</li> <li>6. Cardiomegaly; and</li> <li>7. Pulmonary vascular engorgement.</li> </ol>
<b>No corresponding 1CD-10-CA code</b>	Current smoker: A patient who has smoked cigarettes in the year prior to admission. Do not include patients who smoke cigars or pipes or use chewing tobacco
<b>Z99.2</b>	Currently requiring or on dialysis: Acute or chronic renal failure prior to injury that was requiring periodic peritoneal dialysis, hemodialysis, hemofiltration or hemodiafiltration.
<b>I60.0 - I69.8</b>	CVA/Residual neurological deficit: A history prior to injury of a cerebrovascular accident (embolic, thrombotic, or hemorrhagic) with persistent residual motor, sensory, or cognitive dysfunction

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	(such as hemiplegia, hemiparesis, aphasia, sensory deficit or impaired memory).
<b>E10.0 - E11.9, E13.0 - E14.9</b>	Diabetes mellitus: Diabetes mellitus prior to injury that required exogenous parenteral insulin or an oral hypoglycemic agent.
<b>C77.0-C80.9</b>	Disseminated cancer: Patients who have cancer that has spread to one or more sites in addition to the primary site; and In whom the presence of multiple metastases indicates the cancer is widespread, fulminant or near terminal. Other terms describing disseminated cancer include "diffuse", "widely metastatic", "widespread", or "carcinomatosis". Common sites of metastases include major organs (brain, lung, liver, meninges, abdomen, peritoneum, pleura, and bone)
<b>No corresponding ICD-10-CA code</b>	Do Not Resuscitate (DNR) status: The patient had a do not resuscitate (DNR) document or similar advance directive recorded prior to injury.
<b>F11.0 - F16.9, F19.0 - F19.9, Z13.3</b>	Drug use: Mental and behavioural disorders due to the use of drugs.
<b>I86.4</b>	Esophageal varices: Engorged collateral veins in the esophagus that bypass a scarred liver to carry portal blood to the superior vena cava. A sustained increase in portal pressure results in esophageal varices, which are most frequently demonstrated by direct visualization at esophagoscopy.
<b>No corresponding ICD-10-CA code</b>	Functionally dependent health status: Pre-injury functional status may be represented by the ability of the patient to complete activities of daily living (ADLs), including bathing, feeding, dressing, toileting, and walking. This item is identified if the patient, prior to injury, was partially dependent or completely dependent upon equipment, devices, or another person to complete some or all ADLs.
<b>I20.0-I20.9</b>	History of angina within past one month: Pain or discomfort between the diaphragm and the mandible resulting from myocardial ischemia. Typically, angina is a dull, diffuse substernal chest discomfort precipitated by exertion or emotion and relieved by rest or nitroglycerin. Radiation often occurs to the arms and shoulders and occasionally to the neck, jaw, and interscapular region. For patients on anti-anginal medications, identify angina if the patient has had angina within one month prior to admission.
<b>I25.2</b>	History of myocardial infarction within past six months: The history of a non-Q wave or a Q wave infarction in the six months prior to injury



<b>No corresponding ICD-10-CA code</b>	History of revascularization/amputation for peripheral vascular disease: Any type of angioplasty or revascularization procedure for atherosclerotic peripheral vascular disease (PVD) or patient who has had any type of amputation procedure for PVD. Patients who have had an amputation for trauma or resection of abdominal aortic aneurysms would not be included.
<b>I10.0-I10.9, I11-I15</b>	Hypertension requiring medication: History of a persistent elevation of systolic blood pressure greater than 100 mm HG and a diastolic blood pressure greater than 90 mm Hg requiring an antihypertensive treatment.
<b>F00.0-F09, F70.0-F79.9, G30.0-G30.9, F90.0, F91.8, F91.9, F84.0, F81.9, F80.0, F80.1, F80.8, F80.9, F81.3, F81.8.</b>	Impaired sensorium: Patients should be noted to have an impaired sensorium if they had mental status changes and/or delirium in the context of a current illness prior to injury. Patients with chronic or long-standing mental status changes secondary to chronic mental illness or chronic dementing illnesses should be included. Mental retardation would qualify as impaired sensorium.
<b>E66.0-E66.9</b>	Obesity: A body mass index of 30 or greater
<b>G80.0-G80.9, P07.0-P07.3, P27.0-P27.9</b>	Prematurity: Documentation of premature birth, a history of bronchopulmonary dysphasia, ventilator support for longer than seven days after birth or the diagnosis of cerebral palsy
<b>E84.0-E84.9, J40-J45.91</b>	Respiratory Disease: Severe chronic lung disease, chronic asthma, cystic fibrosis or chronic obstructive pulmonary disease (COPD) resulting in any of the following: <ul style="list-style-type: none"> <li>• Functional disability from COPD;</li> <li>• Hospitalization in the past for treatment of COPD;</li> <li>• Requirement for chronic bronchodilator therapy with oral or inhaled agents; and/or</li> <li>• An FEV1 of less than 75 % of predicted in pulmonary function testing.</li> <li>• Do not include patients with acute asthma or diffuse interstitial fibrosis or</li> <li>• Sarcoidosis</li> </ul>
<b>No corresponding ICD-10-CA code</b>	Steroid use: Patients who required the regular administration of oral or parenteral corticosteroid medications in the 30 days prior to injury for a chronic medical condition. Do not include topical corticosteroids applied to the skin or corticosteroids administered by inhalation or rectally.

### COMPL1 through COMPL9

Complications that the patient has, based on ICD-10-CA codes.

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ICD-10-CA Code	Description
<b>T79.6</b>	Abdominal compartment syndrome: The sudden increase in intra-abdominal pressure resulting in alteration in the respiratory mechanism, hemodynamic parameters and renal perfusion.
<b>No corresponding ICD-10-CA code</b>	Abdominal fascia left open: No primary surgical closure of the fascia, or intra-abdominal packs left at conclusion of primary laparotomy. No corresponding ICD-10-CA code; therefore, yes, no, unknown or not applicable should be entered in a separate data field to capture this information.
<b>N17.0-N19, N25.0, N03.0-N05.9, I12, I13, T79.5</b>	Acute renal failure: A patient who did not require dialysis prior to injury, who has worsening renal dysfunction after injury requiring hemodialysis, ultrafiltration or peritoneal dialysis. If the patient refuses treatment, the condition is still present.
<b>J80</b>	ARDS: Adult respiratory distress syndrome occurs with catastrophic medical conditions, such as pneumonia, shock, sepsis and trauma. It is a form of sudden and often severe lung failure characterized by PaO <sub>2</sub> /FiO <sub>2</sub> of 200 or less, decreased compliance and diffuses bilateral pulmonary infiltrates without associated clinical evidence of CHF. The process must persist beyond 36 hours and require mechanical ventilation.
<b>CCI code: 1.LZ.19</b>	Bleeding: Any transfusion of five or more units of packed red blood cells or whole blood given from the time the patient is injured up to and including 72 hours later
<b>I46.0-I46.9</b>	Cardiac arrest with CPR: The absence of a cardiac rhythm or presence of chaotic cardiac rhythm that results in loss of consciousness requiring the initiation of advanced cardiac life support
<b>D65-D68.2, D69.1, D69.30-D69.4</b>	Coagulopathy: Twice the upper limit of the normal range for PT or PTT in a patient without a pre-injury bleeding disorder
<b>L89.0-L89.9</b>	Decubitus ulcer: A pressure sore resulting from pressure exerted on the skin, soft tissue, muscle, or bone by the weight of an individual against a surface beneath.
<b>T81.4</b>	Deep surgical site infection: An infection that occurs within 30 days after and operation and that appears to be related to the operation. The infection should involve deep soft tissues at the site of the incision and at least one of the following: <ul style="list-style-type: none"> <li>• There is purulent drainage from the deep incision</li> <li>• A deep incision spontaneously dehisces or is deliberately opened by a surgeon when the patient has at least one of the following: fever, localized pain or tenderness.</li> </ul>

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	<ul style="list-style-type: none"> <li>• An abscess or other evidence of infection</li> <li>• A deep incision infection is diagnosed by the physician.</li> </ul>
<b>F10.3-F10.5</b>	Drug or alcohol withdrawal syndrome: A set of symptoms that may occur when a person who has been drinking too much alcohol or habitually using certain drugs suddenly stops. Symptoms may include activation syndrome, seizures, hallucinations, or delirium tremens
<b>I80.2</b>	Deep vein thrombosis/thrombophlebitis: The formation, development or existence of a blood clot or thrombus within the vascular system. The patient must be treated with anticoagulation therapy
<b>M62.20-M62.29</b>	Extremity compartment syndrome: A condition in which there is swelling and an increase in the pressure within the limited space that presses on and compromises blood vessels, nerves, and/or tendons that run through that compartment. Compartment syndromes usually involve the leg, but can also occur in the forearm, arm, thigh and shoulder
<b>T82.0-T82.9</b>	Graft/prosthesis/flap failure: Mechanical failure of an extracardiac vascular graft or prosthesis, including myocutaneous flaps and skin grafts, requiring return to the operating room
<b>G93.2</b>	Intracranial pressure elevation: Intracranial pressure greater than 25 torr for longer than 30 minutes
<b>I21.0-I21.9</b>	Myocardial infarction: A new acute myocardial infarction occurring during hospitalization (within 30 days of injury)
<b>T81.4, T82.6, T82.7, T83.5, T83.6, T84.50-T84.58, T84.60-T84.69, T85.7, T87.40-T87.49, Y83.0-Y83.9, Y88.3</b>	Organ/space surgical site infection (SSI): An infection that occurs within 30 days of injury after an operation and which involves any part of the anatomy other than the incision, which was opened or manipulated during the procedure. The infection must involve at least one of the following: <ul style="list-style-type: none"> <li>• There is purulent drainage from the drain placed through a stab wound or puncture into the organ or space</li> <li>• Organisms are isolated from an aseptically obtained culture of fluid or tissue.</li> <li>• An abscess or other evidence of infection</li> <li>• An SSI is diagnosed by the physician.</li> </ul>
<b>H05.0, M86.00-M86.19</b>	Osteomyelitis: A condition that meets at least one of the following: <ul style="list-style-type: none"> <li>• Organisms are cultured from bone;</li> <li>• There is evidence of osteomyelitis on direct examination</li> </ul>

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	<ul style="list-style-type: none"> <li>At least two of the following signs and symptoms are present: fever, localized swelling, tenderness, heat or drainage and at least one of the following:</li> </ul>
<b>J12.0-J18.9, J95.88</b>	Organisms are cultured from blood, positive blood antigen test, and radiographic evidence of infection. Pneumonia: Patients with evidence of pneumonia that develops during the hospitalization
<b>I26.0-I26.9</b>	Pulmonary embolism: A lodging of a blood clot in a pulmonary artery with subsequent obstruction of blood supply to the lung parenchyma
<b>I63.1-I63.9, I.64</b>	Stroke/CVA: Following injury, patient develops an embolic, thrombotic, or hemorrhagic vascular accident or stroke with motor, sensory, or cognitive dysfunction that persists for 24 or more hours
<b>T81.4</b>	Superficial surgical site infection: Defined as an infection that occurs within 30 days after an operation and that involves only skin or subcutaneous tissue of the incision. The following are not conditions to identify: Stitch abscess, infected burn wound, or incisional SSI that extends into the facial and muscle layers
<b>A40.0-A41.9, A49.9</b>	Systemic sepsis: Definitive evidence of infection, plus evidence of a systemic response to infection.
<b>No corresponding ICD-10-CA code</b>	Unplanned intubation: Patient requires placement of an endotracheal tube and mechanical or assisted ventilation because of an onset of respiratory or cardiac failure manifested by severe respiratory distress, hypoxia, hypercarbia, or respiratory acidosis
<b>No corresponding ICD-10-CA code</b>	Unplanned return to the Operating Room: Unplanned return to the operating room after initial operation management for a similar or related previous procedure
<b>No corresponding ICD-10-CA code</b>	Unplanned return to the ICU: Unplanned return to the intensive care unit after initial ICU discharge
<b>N39.0</b>	Urinary tract infection: An infection anywhere along the urinary tract with clinical evidence of infection.
<b>T81.3</b>	Wound disruption: Separation of the layers of a surgical wound, which may be partial or complete, with disruption of the fascia

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#### **VENT\_DAYS**

Identifies the number of days (###) that the patient was intubated and mechanically ventilated intermittently or continuously at the trauma facilities. This does not include the day ventilation is begun (unless there is only one day of ventilation). If a patient is not mechanically ventilated at any time during the hospital stay, the code is entered as not applicable. If the patient is

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mechanically ventilated but the length of time is not documented, the code is entered as not known. The variable does not include ventilation during OR procedures only or non-invasive procedures (like CPAP)

<b>Code</b>	<b>Description</b>
<b>888</b>	Ventilated, but data not available
<b>999</b>	Unknown
<b>Blank</b>	Valid missing data – not applicable

## **ALC\_DAYS**

Identifies the number of days (###) that the patient stayed in an alternate level of care facility