

**National/Ontario Trauma Registry
Minimum Data Set
(NTR/OTR MDS)**

**Data Element List,
for the 2003-2004 Fiscal Year**

IMPORTANT NOTE: THOSE DATA ELEMENTS IDENTIFIED AS "RESTRICTED" CONTAIN PERSON AND/OR INSTITUTION IDENTIFYING INFORMATION AND ARE NOT AVAILABLE FOR GENERAL RELEASE. DISTRIBUTION OF RESTRICTED DATA ELEMENTS WILL BE CONSIDERED ON A CASE BY CASE BASIS.

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
	Number of Injuries	Number of injuries. (Calculation: Count all of N-Codes in the valid N-Code range, with diagnosis_type not equal to 9.)			NUM_OF_INJURIES
	Number of Co Morbidities	Number of co morbidities. (Calculation: Count of all N-codes with diagnosis_type_code = 1)			NUM_OF_COMORBIDITIES
	Number of Complications	Number of complications. (Calculation: Count of all N-codes with diagnosis_type_code = 2)			NUM_OF_COMPLICATIONS
	Length of Stay	Number of days the patient was hospitalized; (Calculated from Date of discharge - Date of admission.)			LOS_DAYS
	Total SCU Hours	Number of hours that a client spent at all Special Care Units.			TOTAL_SCU_HOURS
	Acute Length of Stay Days	Number of days contributing to the acute portion of the patient's hospitalization.			ACUTE_LOS_DAYS

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
Main Trauma Information	Superficial Injuries	Number of Superficial injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 10)			SUPERFICIAL_NUM_OF_CASES
	Musculoskeletal Injuries	Number of Musculoskeletal injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 20)			MUSCULOSKELETAL_NUM_OF_CASES
	Burns and Corrosion Injuries	Number of Burns and Corrosion injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 30)			BURNS_CORROSION_NUM_OF_CASES
	Internal Organ Injuries	Number of Internal Organ injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 40)			INTERNAL_ORGAN_NUM_OF_CASES
	Crushing Injuries	Number of Crushing injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 50)			CRUSHING_NUM_OF_CASES
	Open Wound Injuries	Number of Open Wound, including Traumatic Amputation injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 60)			OPEN_WOUND_NUM_OF_CASES
	Blood Vessel Injuries	Number of Blood Vessels injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 70)			BLOOD_VESSELS_NUM_OF_CASES
	Nerves and Spinal Cord Injuries	Number of Nerves and Spinal Cord injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 80)			NERVE_SPINAL_CORD_NUM_OF_CASES
	Other and Unspecified Injuries	Number of Other and Unspecified injuries. (Calculation: Count of all N-codes with diagnosis. injury_type_code = 90)			UNSPECIFY_INJURY_NUM_OF_CASES
	Skull and Facial Bone Fracture Injuries	Number of fracture of skull and facial bones injuries. (Calculation: Count of all ICD10 diagnosis with first three digits = S02)			SKULL_FRACTURE_NUM_OF_CASES
Intracranial Injuries	Number of Intracranial injuries. (Calculation: Count of all ICD10 diagnosis with first three digits = S06)			INTRACRANIAL_NUM_OF_CASES	

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
Main Trauma Information	Recipient Weight Group	Weight recorded as a four digit metric value for newborns and neonates only.	Y		RECIPIENT_WEIGHT_GROUP
	Fiscal Year	The batch/fiscal year identifies the fiscal year (April 1 through March 31) that the patient was discharged. (DAD2003-1.03)			FISCAL_YEAR
	Fiscal Period	The batch/fiscal period identifies the month that the patient was discharged in according to the fiscal year. (DAD2003-1.04)	Y		DAD_FISCAL_PERIOD_ID
	Blood Transfusion Indicator	Blood transfusion indicator used to indicate if the patient did not receive a blood transfusion/blood product(s) during his/her hospitalization. (DAD2003-17.01)	Y		BLOOD_NOT_RECEIVED_FLAG and BLOOD_RECEIVED_FLAG
	Red Blood Cell Transfusion Indicator	Code used to indicate that the patient received a red blood cell transfusion during his/her hospitalization. (DAD2003-17.02)	Y		BLOOD_RED_CELL_FLAG
	Platelet Transfusion Indicator	Code used to indicate that the patient received a platelet transfusion during his/her hospitalization. (DAD2003-17.03)	Y		BLOOD_PLATELET_FLAG
	Plasma Transfusion Indicator	Code used to indicate that the patient received a plasma transfusion during his/her hospitalization. (DAD2003-17.04)	Y		BLOOD_PLASMA_FLAG
	Albumin Transfusion Indicator	Code used to indicate that the patient received an albumin transfusion during his/her hospitalization. (DAD2003-17.05)	Y		BLOOD_ALBUMIN_FLAG
	Other Transfusion Indicator	Code used to indicate that the patient received another type of blood transfusion during his/her hospitalization. (DAD2003-17.06)	Y		BLOOD_OTHER_FLAG
	Responsibility For Payment	The person responsible for payment of the patient's hospitalization. (DAD2003-3.06)	Y		RFP_CODE

Autologous Transfusius0.48 ref125.4 241.44 36.84 -0.48 ref125.4 187.44 36.84 -0.48 ref125.4 133.44 36.84 -0.48 ref125.4 25.92 36.84 -1

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
Main Trauma Information	Institution From	The "institution from" number is used when a patient is transferred from another health care facility or another level of care within the same facility. The "institution from" number is the institution number of the facility he/she was transferred from. (DAD2003-4.04)	Y	Y	XFER_FROM_INST_ID
	Institution To	The "institution to" number is used when a patient is transferred from another health care facility or another level of care within the same facility. The "institution to" number is the institution number of the facility he/she was transferred to. (DAD2003-5.04)	Y	Y	XFER_TO_INST_ID
	Unplanned Readmission Flag	'1' indicates an unplanned readmission to the same level of care within the reporting facility. Valid only if READMISSION_CODE = 1.			UNPLANNED_READMISSION_FLAG
	Morbidity Responsibility For Payment	Morbidity - Responsibility for payment code			MOR_RFP_CODE
	Maternal/ Newborn/ Chart/ or Register Number	Mother and newborn chart/or register number for cross-reference purposes. (DAD2003-1.12)	Y	Y	MATERNAL_NEWBORN_CHART_CODE
	Admit Time	The admission time is the time that the patient was admitted to the hospital. (Using the 24-hour clock).	Y		ADMISSION_TIME
	Discharge Time	The discharge time is the time the patient was discharged from the hospital (i.e. when the bed became available) or, when the patient dies it is determined from the time of death as recorded on the death certificate. (DAD2003-5.02)	Y		DISCHARGE_TIME
	ER-Decision to Admit Date	The decision to admit date is the date the physician (or designated other) indicated that the patient required admission for acute inpatient treatment. (DAD2003-4.11)	Y		ER_DECISION_TO_ADMIT_DATE
	ER Decision to Admit Time	The decision to admit time is the hour and minute that the patient was designated as requiring admission. (DAD2003-4.12)	Y		ER_DECISION_TO_ADMIT_TIME

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
Main Trauma Information	Date Patient Left the ER	Date patient left ER determines the time the patient was discharged from the ER to the inpatient unit, the operating room or diagnostic and prior to going to the nursing unit. (DAD2003-4.13)	Y		ER_LEAVING_DATE
	Time Patient Left the ER	The time the patient left ER is the time the patient was discharged from the ER to the nursing unit or the operating room or diagnostic area. (DAD2003-4.14)	Y		ER_LEAVING_TIME
	CIHI Patient Group Code	A patient based categorization. It facilitates comparisons among facilities. Groups patients into several medical and surgical groups (i.e. MEDICAL CARDIAC, MEDICAL RESPIRATORY, SURGICAL GYNECOLOGY, SURGICAL ORTHOPAEDICS).			CIHI_PATIENT_GROUP_CODE
	CIHI Patient Group Description	CIHI Patient Group Code description.			CIHI_PATIENT_GROUP_DESC
	Glasgow Coma Scale	Glasgow Coma Scale is a clinical evaluation of response for head injuries measured in a 3-15 scale. It is required for patients over 3 years old.			

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)
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INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDA- TORY? (Y / N)	RESTRIC- TED?
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INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
	Injury Type	Code for injury type groups. Injury type groups are NTR defined groups based on the diagnosis code to group the most common areas of the body affected by trauma. Refer to Appendix E for ICD9 and ICD10 injury type codes.			INJURY_TYPE_CODE

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
	Code	The SCU death indicator field indicates when a patient dies while in a special care unit. Note that the "SCU death indicator" and "Died in OR indicator" fields cannot be entered on the same abstract. SCU death indicator can only be recorded on acute care abstracts. (DAD2003-13.01)	Y		DEATH_SCU_CODE

INFORMATION TYPE	DATA ELEMENT	DESCRIPTION (DATA SOURCE)	MANDATORY? (Y / N)	RESTRICTED? (Y / N)	FIELD NAME
Procedure Information	Canadian Classification Interventions Code	CCI code. It is used in conjunction with ICD-10-CA codes.			CCI_PROC_CODE
	CCI Approach Description	Description of approach/technique used.			CCI_APPROACH_E_DESC
	CCI Device Description	Description of devices used/implanted.			CCI_DEVICE_E_DESC
	CCI Tissue Description	Description of tissue used.			CCI_TISSUE_E_DESC
	Operative Procedure Flag	Flag that indicates if the procedure is operative 'Y'			CCP_OPERATIVE_PROC_FLAG
Sex Information	Sex	A code to identify the patient's gender. (DAD2003-3.04)			SEX_CODE
	English Sex Description	Sex description – English			SEX_E_DESC
	French Sex Description	Sex description – French			SEX_F_DESC
Injury Place Information	ICD9 Injury Place	ICD9 derived place of occurrence code. Contains information about the place or environment where an injury can occur. These can be home, street, farm, etc. Refer to Appendix B for example values.			ICD9_INJURY_PLACE_CODE
	ICD9 Injury Place Description	ICD9 derived place of occurrence description - English			ICD9_INJURY_PLACE_E_DESC
	ICD9 Injury Place Description	ICD9 derived place of occurrence description - French			ICD9_INJURY_PLACE_F_DESC
	ICD10 Injury Place	ICD10 derived place of occurrence code. Refer to Appendix B for example values.			ICD10_INJURY_PLACE_CODE
	ICD10 Injury Place Description	ICD10 derived place of occurrence description – English			ICD10_INJURY_PLACE_E_DESC
	ICD10 Injury Place Description	ICD10 derived place of occurrence description – French			ICD10_INJURY_PLACE_F_DESC
	Injury Place Category	Injury place category code.			INJURY_PLACE_CATEGORY_CODE
	English Injury Place Description French Injury Place Description	English description of the injury place category.			INJURY_PLACE_CATEGORY_E_DESC

Appendix A

A table listing example derived fields from certain data elements.

DATA ELEMENT	EXAMPLE DERIVED FIELDS (may not be included in data element listing)
Birthdate	Age Number, Age Years, Age Group by 5 Code
Postal Code	Province Code, Region Group Code, FSA Code, Latitude, Longitude, Resident Flag
Admission Date, Discharge Date	Fiscal Year, Fiscal Quarter, Month Name, Fiscal Month, Fiscal Week, Fiscal Day, Calendar Year, Calendar Quarter, Calendar Month, Calendar Day, Month Day, Weekday, Weekend.
ICD9 Diagnosis Code	ICD9 Diagnosis Code Description, ICD9 Diagnosis Code + Description, First 3 Digits of ICD9 Code, 4 th Digit of ICD9 Code, etc.
ICD9-CM Diagnosis Code	ICD9-CM Diagnosis Code Description, ICD9-CM Diagnosis Code + Description, First 3 Digits of ICD9-CM Code, 4 th Digit of ICD9-CM Code, etc.
ICD10 Diagnosis Code	I

Appendix C

The following lists the ICD-9 and ICD-10-CA External Cause codes that are *excluded* from the National Trauma Registry based on the definition of trauma.

ICD-10-CA Code Exclusions	Definition	ICD-9 E Code Exclusions	Definition
W78-W80	W78 Inhalation of gastric contents; W79 Inhalation and ingestion of food causing obstruction of respiratory tract; W80 Inhalation and ingestion of other objects causing obstruction of respiratory tract	E911- E912	Inhalation and ingestion of foreign bodies

Y83-Y84	Surgical and other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedures	E878-E879	Complications
Y85-Y89	Sequelae of external causes of morbidity and mortality	E929, E959, E969, E977, E989, E999	Late effects
Y90-Y98	Supplementary factors related to causes of -12(e)-1316.7(a13116r)-8.21I(.48 -17(onal)Nnebed)3(3(3.7 Tc-0.000f479.2o)2.159,)a12.159,ls rel		

Appendix D

The following lists the categories used for trauma reporting purposes based on this definition. "Incident" and "unintentional" have been substituted for the terms "accidents" and "accidental" used in the ICD definitions.

ICD10 Inclusions:

External Cause Code Category	Definition
V01-V99	Transport incidents
V01-V06, V09-V90	Land transport incidents
V91-V94	Water transport incidents
V95-V97	Air and space transport incidents
V98-V99	Other and unspecified transport incidents
W00-W19	Unintentional falls
W20-W45, W49	Exposure to inanimate mechanical forces
W50-W60, W64	Exposure to animate mechanical forces

Appendix E

Injury Type – ICD-9 and ICD-10-CA Codes

Description	ICD-10 CODE RANGE	ICD-9 CODE RANGE
Superficial	S00, S05.0, S05.1, S05.8, S05.9, S10, S20, S30, S40, S50, S60, S70, S80, S90, T00, T09.0, T11.0, T13.0, T14.0	910-924
Musculoskeletal	S02, S12, S22, S32, S42, S52, S62, S72, S82, S92, T02, T08, T10, T12, T14.2, S03, S13, S23, S33, S43, S53, S63, S73, S83, S93, T03, T11.2, T13.2, T14.3, S09.10, S09.18, S16, S29.00, S29.08, S39.00, S39.08, S46, S56, S66, S76, S86, S96, T06.4, T09.5, T11.5, T13.5, T14.6	800-848
Burns and Corrosion	T20-T32	940-949
Internal Organ	S06, S09.7, S09.8, S09.9, S26, S27, S36, S37, S39.6, T06.5	850-854, 860-869
Crushing	S07, S17, S28.0, S38.0, S38.1, S47, S57, S67, S77, S87, S97, T04	925-929
Open Wound, including Traumatic Amputation	S01, S05.2-S05.7, S09.2, S11, S21, S31, S41, S51, S61, S71, S81, S91, T01, T09.1, T11.1, T13.1, T14.1, S08, S18, S28.1, S38.2, S38.3, S48, S58, S68, S78, S88, S98, T05, T11.6, T13.6, T14.7	870-887, 890-897
Blood Vessels	S09.0, S15, S25, S35, S45, S55, S65, S75, S85, S90.12 97.6 606.96 0.4800.57(S872 -0.48 rET266.52 701.04 0.72 92(S	

Appendix F

Foreign Bodies (Excluding Choking)	W44, W45	E914, E915
Cutting And Piercing	W25, W26, W27, W28, W29, W60	E920
Unintentional Firearm Injuries	W32, W33, W34	E922
Machinery-Related Injuries	W24, W30, W31	E919
Overexertion And Strenuous/Repetitive Movements	X50	E927
Struck By or Against Objects And Persons	W20, W21, W22, W50, W51, W52	E916, E917
Explosive Material	W39, W40	E923
Hot Substances	X10-X19	E924
Electric Current	W85-W87	E925
Caught, crushed, jammed or pinched in or between objects	W23	E918
Explosion of pressure vessel	W35, W36, W37, W38	E921
Exposure to radiation	W88-W91, X32	E926
Other/Unspecified	W41, W42, W43, W49, X58-X59	E887, E928
Natural And Environmental	.9(ht)-9.2(r4.8(d)6.2()-85066)5(ra)-8(R)(s)4.1	