

The logo for ESO (Emergency Severity Triage) is displayed in white lowercase letters on a dark teal rounded rectangular background. The background of the entire page is a dark teal color with a faint, high-contrast image of a person lying in a hospital bed, possibly receiving medical attention, with various tubes and equipment visible.

eso®

International Trauma Data Exchange (ITDX)

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# 2025 Data Dictionary

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ITDX\_v2025.0

# Table of Contents

- Table of Contents .....2
- ITDX Data Dictionary Element List .....8
  - Demographics.....8
  - Injury Information .....8
  - Prehospital Information .....9
  - Emergency Department Information.....10
  - Hospital Procedure Information .....11
  - Diagnosis Information.....11
  - Injury Severity Information.....11
  - Outcome Information.....11
  - Financial Information.....12
  - Hospital Events.....12
  - Trauma Quality Improvement Program Measures for Processes of Care.....12
  - Surgeon Specific Reporting.....13
  - ITDX Record Control Information.....13
  - ITDX Explicit Negatives.....14
  - ITDX Explicit Timeliness.....14
- ITDX Data Dictionary Element Details.....15
  - Null Values.....15
- ITDX Data Element Details – Demographics.....16
  - Patient’s Home ZIP / Postal Code .....17
  - Patient’s Home Country .....18
  - Patient’s Home State .....19
  - Patient’s Home County.....20
  - Patient’s Home City .....21
  - Alternate Home Residence.....22
  - Date of Birth.....23
  - Age .....24
  - Age Units .....25
  - Race .....26
  - Ethnicity .....27
  - Sex.....28
  - Gender Identity.....29
  - Gender Affirming Hormone Therapy.....30

ITDX Data Element Details – Injury Information .....	29
Injury Incident Date .....	32
Injury Incident Time.....	33
Work-Related.....	34
Patient’s Occupational Industry .....	35
Patient’s Occupation.....	36
ICD-10 Primary External Cause Code .....	38
ICD-10 Place of Occurrence External Cause Code.....	39
ICD-10 Additional External Cause Code .....	40
Incident Location ZIP / Postal Code .....	41
Incident Country.....	42
Incident State.....	43
Incident County.....	44
Incident City .....	45
Protective Devices .....	46
Child Specific Restraint .....	47
Airbag Deployment.....	48
Report of Physical Abuse. ....	49
Investigation of Physical Abuse .....	50
Caregiver at Discharge.....	51
Trauma Type .....	52
ITDX Data Element Details – Prehospital Information.....	53
EMS Dispatch Date.....	54
EMS Dispatch Time .....	55
EMS Unit Arrival Date at Scene or Transferring Facility.....	56
EMS Unit Arrival Time at Scene or Transferring Facility .....	57
EMS Unit Departure Date from Scene or Transferring Facility. ....	58
EMS Unit Departure Time from Scene or Transferring Facility.....	59
Transport Mode .....	60
Other Transport Mode.....	61
State Trauma Number.....	62
Regional Trauma Number .....	63
Hospital System Trauma Number .....	64
Initial Field Systolic Blood Pressure.....	65
Initial Field Diastolic Blood Pressure.....	66
Initial Field Pulse Rate.....	67

Initial Field Respiratory Rate.....	68
Initial Field Oxygen Saturation.....	69
Intubation Prior to Arrival.....	70
Intubation Location.....	71
Initial Field GCS - Eye.....	72
Initial Field GCS - Verbal.....	73
Initial Field GCS - Motor.....	74
Initial Field GCS - Total.....	75
Initial Field GCS 40 - Eye.....	76
Initial Field GCS 40 - Verbal.....	77
Initial Field GCS 40 - Motor.....	78
Inter-Facility Transfer.....	79
Trauma Center Criteria.....	80
National Field Triage Criteria.....	81
National Field Triage 2022.....	82
Vehicular, Pedestrian, Other Risk Injury.....	85
Prehospital Cardiac Arrest.....	87
Transporting EMS Agency NPI Number.....	88
EMS Incident Number.....	89
ITDX Data Element Details – Emergency Department Information.....	90
Highest Activation.....	91
Trauma Surgeon Arrival Date.....	92
Trauma Surgeon Arrival Time.....	93
ED / Hospital Arrival Date.....	94
ED / Hospital Arrival Time.....	95
Initial ED / Hospital Systolic Blood Pressure.....	96
Initial ED / Hospital Diastolic Blood Pressure.....	97
Initial ED / Hospital Pulse Rate.....	98
Initial ED / Hospital Temperature.....	99
Initial ED / Hospital Respiratory Rate.....	100
Initial ED / Hospital Respiratory Assistance.....	101
Initial ED / Hospital Oxygen Saturation.....	102
Initial ED / Hospital Supplemental Oxygen.....	103
Initial ED / Hospital GCS - Eye.....	104
Initial ED / Hospital GCS - Verbal.....	105
Initial ED / Hospital GCS - Motor.....	106

Initial ED / Hospital GCS - Total .....	107
Initial ED / Hospital GCS Assessment Qualifiers .....	108
Initial ED / Hospital GCS 40 - Eye .....	109
Initial ED / Hospital GCS 40 - Verbal .....	110
Initial ED / Hospital GCS 40 - Motor .....	111
Initial ED / Hospital Height.....	112
Initial ED / Hospital Weight.....	113
Drug Screen.....	114
Alcohol Screen.....	115
Alcohol Screen Results .....	116
ED Discharge Disposition.....	117
Trauma Team Involvement.....	119
Signs of Life.....	120
ED Discharge Orders Written Date.....	121
ED Discharge Orders Written Time .....	122
ED Discharge Physical Date .....	123
ED Discharge Physical Time.....	124
Primary Trauma Service Type.....	125
Primary Medical Event.....	126
ITDX Data Element Details – Hospital Procedure Information.....	127
ICD-10 Hospital Procedures.....	128
Hospital Procedure Start Date .....	129
Hospital Procedure Start Time.....	130
ITDX Data Element Details – Diagnosis Information.....	131
Pre-existing/Comorbid Conditions .....	132
ICD-10 Injury Diagnoses .....	134
ITDX Data Element Details – Injury Severity Information.....	135
AIS Predot Code.....	136
AIS Severity .....	137
ISS Body Region .....	138
AIS Version.....	139
Locally Calculated ISS.....	140
ITDX Data Element Details – Outcome Information.....	141
Total ICU Length of Stay.....	142
Total Ventilator Days.....	143

Hospital Discharge Orders Written Date .....	144
Hospital Discharge Orders Written Time .....	145
Hospital Physical Discharge Date .....	146
Hospital Physical Discharge Time.....	147
Hospital Discharge Disposition .....	148
ITDX Data Element Details – Financial Information .....	150
Primary Method of Payment.....	151
ITDX Data Element Details – Hospital Complications .....	152
Hospital Events.....	153
ITDX Data Element Details – Trauma Quality Improvement Program Measures for Processes of Care .....	155
Highest GCS Total .....	156
Highest GCS Motor.....	157
GCS Assessment Qualifier Component of Highest GCS Total .....	158
Highest GCS 40 - Motor.....	159
Initial ED / Hospital Pupillary Response.....	160
Midline Shift .....	161
Cerebral Monitor .....	162
Cerebral Monitor Date .....	163
Cerebral Monitor Time.....	164
Venous Thromboembolism Prophylaxis Type .....	165
Venous Thromboembolism Prophylaxis Date .....	166
Venous Thromboembolism Prophylaxis Time .....	167
Packed Red Blood Cells (4 Hours).....	168
Whole Blood (4 Hours).....	169
Transfusion Plasma (4 Hours).....	170
Transfusion Platelets (4 Hours).....	171
Cryoprecipitate (4 Hours).....	172
Lowest ED / Hospital Systolic Blood Pressure .....	173
Angiography.....	174
Embolization Site .....	175
Angiography Date .....	176
Angiography Time.....	177
Surgery for Hemorrhage Control Type.....	178
Surgery for Hemorrhage Control Date.....	179
Surgery for Hemorrhage Control Time.....	180

Withdrawal of Life Supporting Treatment .....	181
Withdrawal of Life Supporting Treatment Date.....	182
Withdrawal of Life Supporting Treatment Time .....	183
Antibiotic Therapy .....	184
Antibiotic Therapy Date.....	185
Antibiotic Therapy Time .....	186
ITDX Data Element Details – Surgeon Specific Reporting .....	187
National Provider Identifier (NPI) .....	188
ITDX Data Element Details – ITDX Record Control Information.....	189
Last Modified Date Time.....	190
Patient Identifier.....	191
Facility Identifier.....	192
Record Linkage Type .....	193
Record Linkage State Identifier.....	194
Record Linkage Facility Identifier.....	195
Record Linkage Record Identifier.....	196
Record Linkage Global Key .....	197
Software Vendor .....	198
Software Product .....	199
Software Version.....	200
ITDX Data Element Details – ITDX Explicit Negatives.....	201
Explicit Negatives - Element Type.....	202
Explicit Negatives - Menu Value.....	203
Explicit Negative .....	204
ITDX Data Element Details – ITDX Explicit Timeliness.....	205
Explicit Timeliness - Element Type .....	206
Explicit Timeliness - Date.....	207
Explicit Timeliness - Time .....	208
Explicit Timeliness .....	209
Appendix A – Registry Best Practices.....	210
Appendix B – 2025 Change Log .....	211
Appendix C– Acronyms .....	212

## ITDX Data Dictionary Element List

This table is a listing of all 2025 ITDX data elements, including their respective tag names in the XML file as well as their Technical Standard – NTDS field or ITDX extension field. For further details about the use of the ITDX extension fields, please review the ITDX Data Dictionary Extensions Summary section of this guide.

### Demographics

Field Name	Tag Name	Technical Standard
Patient's Home ZIP / Postal Code	HomeZip	NTDS
Patient's Home Country	HomeCountry	NTDS
Patient's Home State	HomeState	NTDS
Patient's Home County	HomeCounty	NTDS
Patient's Home City	HomeCity	NTDS
Alternate Home Residence	HomeResidence	NTDS
Date of Birth	DateOfBirth	NTDS
Age	Age	NTDS
Age Units	AgeUnits	NTDS
Race	Race	NTDS
Ethnicity	Ethnicity	NTDS
Sex	Sex	NTDS
Gender Identity	Gender	NTDS
Gender Affirming Hormone Therapy	GenderAffirmingHormoneTherapy	NTDS

### Injury Information

Field Name	Tag Name	Technical Standard
Injury Incident Date	IncidentDate	NTDS
Injury Incident Time	IncidentTime	NTDS
Work-Related	WorkRelated	NTDS
Patient's Occupational Industry	PatientsOccupationalIndustry	NTDS
Patient's Occupation	PatientsOccupation	NTDS
ICD-10 Primary External Cause Code	PrimaryECodeICD10	NTDS
ICD-10 Place of Occurrence External Cause Code	PlaceOfInjuryCode	NTDS
ICD-10 Additional External Cause Code	AdditionalECodeICD10	NTDS
Incident Location ZIP / Postal Code	InjuryZip	NTDS
Incident Country	IncidentCountry	NTDS
Incident State	IncidentState	NTDS
Incident County	IncidentCounty	NTDS
Incident City	IncidentCity	NTDS
Protective Devices	ProtectiveDevice	NTDS
Child Specific Restraint	ChildSpecificRestraint	NTDS
Airbag Deployment	AirbagDeployment	NTDS



<i>Report of Physical Abuse</i>	AbuseReport	ITDX
<i>Investigation of Physical Abuse</i>	AbuseInvestigation	ITDX
<i>Caregiver at Discharge</i>	CaregiverAtDischarge	ITDX
<i>Trauma Type</i>	TraumaType	ITDX

## Prehospital Information

<b>Field Name</b>	<b>Tag Name</b>	<b>Technical Standard</b>
<i>EMS Dispatch Date</i>	EmsNotifyDate	ITDX
<i>EMS Dispatch Time</i>	EmsNotifyTime	ITDX
<i>EMS Unit Arrival Date at Scene or Transferring Facility</i>	EmsArrivalDate	ITDX
<i>EMS Unit Arrival Time at Scene or Transferring Facility</i>	EmsArrivalTime	ITDX
<i>EMS Unit Departure Date from Scene or Transferring Facility</i>	EmsLeftDate	ITDX
<i>EMS Unit Departure Time from Scene or Transferring Facility</i>	EmsLeftTime	ITDX
Transport Mode	TransportMode	NTDS
Other Transport Mode	OtherTransportMode	NTDS
EMS Patient Care Report Universally Unique Identifier (UUID)	See LinkageGlobalKey	NTDS
<i>State Trauma Number</i>	StateTraumaNumber	ITDX
<i>Regional Trauma Number</i>	RegionalTraumaNumber	ITDX
<i>Hospital System Trauma Number</i>	HospitalSystemTraumaNumber	ITDX
<i>Initial Field Systolic Blood Pressure</i>	EmsSbp	ITDX
<i>Initial Field Pulse Rate</i>	EmsPulseRate	ITDX
<i>Initial Field Respiratory Rate</i>	EmsRespiratoryRate	ITDX
<i>Initial Field Oxygen Saturation</i>	EmsPulseOximetry	ITDX
<i>Initial Field GCS - Eye</i>	EmsGcsEye	ITDX
<i>Initial Field GCS - Verbal</i>	EmsGcsVerbal	ITDX
<i>Initial Field GCS - Motor</i>	EmsGcsMotor	ITDX
<i>Initial Field GCS - Total</i>	EmsTotalGcs	ITDX
<i>Initial Field GCS 40 - Eye</i>	EmsGcs40Eye	ITDX
<i>Initial Field GCS 40 - Verbal</i>	EmsGcs40Verbal	ITDX
<i>Initial Field GCS 40 - Motor</i>	EmsGcs40Motor	ITDX
Inter-Facility Transfer	InterFacilityTransfer	NTDS
<i>Trauma Center Criteria</i>	TraumaCenterCriterion	ITDX
<i>National Field Triage 2021</i>		ITDX
<i>National Field Triage Criteria</i>		ITDX
<i>Vehicular, Pedestrian, Other Risk Injury</i>	VehicularPedestrianOther	ITDX
Prehospital Cardiac Arrest	PrehospitalCardiacArrest	NTDS
<i>Transporting EMS Agency NPI Number</i>	EMSNPInumber	Pilot Data Element, 2023
<i>EMS Incident Number</i>	EMSIncidentNumber	Pilot Data Element, 2023

## Emergency Department Information

Field Name	Tag Name	Technical Standard
Highest Activation	HighestTraumaActivation	NTDS
Trauma Surgeon Arrival Date	TraumaSurgeonHighestActivationArrivalDate	NTDS
Trauma Surgeon Arrival Time	TraumaSurgeonHighestActivationArrivalTime	NTDS
ED / Hospital Arrival Date	HospitalArrivalDate	NTDS
ED / Hospital Arrival Time	HospitalArrivalTime	NTDS
Initial ED / Hospital Systolic Blood Pressure	Sbp	NTDS
Initial ED / Hospital Pulse Rate	PulseRate	NTDS
Initial ED / Hospital Temperature	Temperature	NTDS
Initial ED / Hospital Respiratory Rate	RespiratoryRate	NTDS
Initial ED / Hospital Respiratory Assistance	RespiratoryAssistance	NTDS
Initial ED / Hospital Oxygen Saturation	PulseOximetry	NTDS
Initial ED / Hospital Supplemental Oxygen	SupplementalOxygen	NTDS
Intubation Prior to Arrival	IntubationPriorToArrival	NTDS
Intubation Location	IntubationLocation	NTDS
Initial ED / Hospital GCS - Eye	GcsEye	NTDS
Initial ED / Hospital GCS - Verbal	GcsVerbal	NTDS
Initial ED / Hospital GCS - Motor	GcsMotor	NTDS
Initial ED / Hospital GCS - Total	TotalGcs	NTDS
Initial ED / Hospital GCS Assessment Qualifiers	GcsQualifier	NTDS
Initial ED / Hospital GCS 40 - Eye	Gcs40Eye	NTDS
Initial ED / Hospital GCS 40 - Verbal	Gcs40Verbal	NTDS
Initial ED / Hospital GCS 40 - Motor	Gcs40Motor	NTDS
Initial ED / Hospital Height	Height	NTDS

Initial ED / Hospital Weight	Weight	NTDS
Drug Screen	DrugScreen	NTDS
Alcohol Screen	AlcoholScreen	NTDS
Alcohol Screen Results	AlcoholScreenResult	NTDS
ED Discharge Disposition	EDDischargeDisposition	NTDS
<i>Trauma Team Involvement</i>	TraumaTeamInvolvement	ITDX
<i>Signs of Life</i>	DeathInED	ITDX
ED Discharge Orders Written Date	EDDischargeOrdersWrittenDate	NTDS
ED Discharge Orders Written Time	EDDischargeOrdersWrittenTime	NTDS
<i>ED Discharge Physical Date</i>	EDDischargePhysicalDate	ITDX
<i>ED Discharge Physical Time</i>	EDDischargePhysicalTime	ITDX
Primary Trauma Service Type	PrimaryTraumaServiceType	NTDS
Primary Medical Event	PrimaryMedicalEvent	NTDS

## Hospital Procedure Information

Field Name	Tag Name	Technical Standard
ICD-10 Hospital Procedures	HospitalProcedureICD10	NTDS
Hospital Procedure Start Date	HospitalProcedureStartDate	NTDS
Hospital Procedure Start Time	HospitalProcedureStartTime	NTDS

## Diagnosis Information

Field Name	Tag Name	Technical Standard
Comorbid Conditions	ComorbidCondition	ITDX
ICD-10 Injury Diagnoses	DiagnosisICD10	NTDS

## Injury Severity Information

Field Name	Tag Name	Technical Standard
<i>AIS Predot Code</i>	AisPredot	ITDX
<i>AIS Severity</i>	AisSeverity	ITDX
<i>ISS Body Region</i>	IssRegion	ITDX
AIS Version	AisVersion	NTDS
<i>Locally Calculated ISS</i>	IssCalculated	ITDX

## Outcome Information

Field Name	Tag Name	Technical Standard
Total ICU Length of Stay	TotalIcuLos	NTDS
Total Ventilator Days	TotalVentDays	NTDS
Hospital Discharge Orders Written Date	HospitalDischargeOrdersWrittenDate	NTDS
Hospital Discharge Orders Written Time	HospitalDischargeOrdersWrittenTime	NTDS
<i>Hospital Physical Discharge Date</i>	HospitalPhysicalDischargeDate	ITDX
<i>Hospital Physical Discharge Time</i>	HospitalPhysicalDischargeTime	ITDX
Hospital Discharge Disposition	HospitalDischargeDisposition	NTDS

## Financial Information

Field Name	Tag Name	Technical Standard
Primary Method of Payment	PrimaryMethodPayment	NTDS

## Hospital Events

Field Name	Tag Name	Technical Standard
<i>Hospital Events/Complications</i>	HospitalComplication	ITDX

## Trauma Quality Improvement Program Measures for Processes of Care

Field Name	Tag Name	Technical Standard
Highest GCS Total	TbiHighestTotalGcs	NTDS
Highest GCS Motor	TbiGcsMotor	NTDS
GCS Assessment Qualifier Component of Highest GCS Total	TbiGcsQualifier	NTDS
Highest GCS 40 - Motor	TbiGcs40Motor	NTDS
Initial ED / Hospital Pupillary Response	TbiPupillaryResponse	NTDS
Midline Shift	TbiMidlineShift	NTDS
Cerebral Monitor	TbiCerebralMonitor	NTDS
Cerebral Monitor Date	TbiCerebralMonitorDate	NTDS
Cerebral Monitor Time	TbiCerebralMonitorTime	NTDS
Venous Thromboembolism Prophylaxis Type	VteProphylaxisType	NTDS
Venous Thromboembolism Prophylaxis Date	VteProphylaxisDate	NTDS

Venous Thromboembolism Prophylaxis Time	VteProphylaxisTime	NTDS
Packed Red Blood Cells (4 Hours)	TransfusionBlood4Hours	NTDS
Whole Blood (4 Hours)	WholeBlood4Hours	NTDS
Transfusion Plasma (4 Hours)	TransfusionPlasma4Hours	NTDS
Transfusion Platelets (4 Hours)	TransfusionPlatelets4Hours	NTDS
Cryoprecipitate (4 Hours)	Cryoprecipitate4Hours	NTDS
<i>Lowest ED / Hospital Systolic Blood Pressure</i>	LowestSbp	ITDX
Angiography	Angiography	NTDS
Embolization Site	EmbolizationSite	NTDS
Angiography Date	AngiographyDate	NTDS
Angiography Time	AngiographyTime	NTDS
Surgery for Hemorrhage Control Type	HemorrhageControlSurgeryType	NTDS
Surgery for Hemorrhage Control Date	HemorrhageControlSurgeryDate	NTDS
Surgery for Hemorrhage Control Time	HemorrhageControlSurgeryTime	NTDS
Withdrawal of Life Supporting Treatment	WithdrawalOfLifeSupportingTreatment	NTDS
Withdrawal of Life Supporting Treatment Date	WithdrawalOfLifeSupportingTreatmentDate	NTDS
Withdrawal of Life Supporting Treatment Time	WithdrawalOfLifeSupportingTreatmentTime	NTDS
Antibiotic Therapy	AntibioticTherapy	NTDS
Antibiotic Therapy Date	AntibioticTherapyDate	NTDS
Antibiotic Therapy Time	AntibioticTherapyTime	NTDS

## Surgeon Specific Reporting

Field Name	Tag Name	Technical Standard
National Provider Identifier (NPI)	NationalProviderIdentifier	NTDS

## ITDX Record Control Information

Field Name	Tag Name	Technical Standard
<i>Last Modified Date Time</i>	LastModifiedDateTime	ITDX
<i>Patient Identifier</i>	PatientId	ITDX

<i>Facility Identifier</i>	FacilityId	ITDX
<i>Record Linkage Type</i>	LinkageType	ITDX
<i>Record Linkage State Identifier</i>	LinkageStateId	ITDX
<i>Record Linkage Facility Identifier</i>	LinkageFacilityId	ITDX
<i>Record Linkage Record Identifier</i>	LinkageRecordId	ITDX
<i>Record Linkage Global Key</i>	LinkageGlobalKey	ITDX
<i>Software Vendor</i>	SoftwareVendor	ITDX
<i>Software Product</i>	SoftwareProduct	ITDX
<i>Software Version</i>	SoftwareVersion	ITDX

## ITDX Explicit Negatives

<b>Field Name</b>	<b>Tag Name</b>	<b>Technical Standard</b>
<i>Explicit Negatives - Element Type</i>	ElementKey	ITDX
<i>Explicit Negatives - Menu Value</i>	ValueKey	ITDX
<i>Explicit Negative</i>	ExplicitNegative	ITDX

## ITDX Explicit Timeliness

<b>Field Name</b>	<b>Tag Name</b>	<b>Technical Standard</b>
<i>Explicit Timeliness - Element Type</i>	TimelinessKey	ITDX
<i>Explicit Timeliness - Date</i>	EtDate	ITDX
<i>Explicit Timeliness - Time</i>	EtTime	ITDX
<i>Explicit Timeliness</i>	EtTimely	ITDX

## ITDX Data Dictionary Element Details

The pages below are descriptions of each data element in the ITDX data dictionary.

### Null Values

The following values may be used within the ITDX data standard.

The acceptable null values are:

- 1 Not Applicable (NA)
- 2 Unknown/Not Documented (UNK/NOT)

### Additional Information

- Each ITDX data element includes an “***accepts null values***” indication.
  - Yes = accepting null values for this data element
  - No = not accepting null values for this data element
- Not Applicable (NA): This null value code is appropriate if the data element was “Not Applicable” to the patient during the time of prehospital or hospitalization. For example, prehospital data elements would be “Not Applicable” if a patient arrives at the hospital via private vehicle.
- Unknown/Not Documented (UNK/NOT) This null value applies if the information for the data element is not known or knowable by the patient or family or if the data is not recorded in patient documentation by any health care provider. This value documents that information was attempted to be found but was unsuccessful. An example would be “Unknown/Not Documented” if the patient was discovered and no one knew the injury time. Another example would be if an EMS run sheet was not available, the scene vitals signs would be “Unknown/Not Documented.”

# ITDX Data Element Details

## Demographics



## Patient's Home ZIP / Postal Code

*The patient's home ZIP/Postal code of primary residence.*

NTDS Core	
Tag Name	HomeZip
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Patient's Home Country

*The country where the patient resides.*

NTDS Core	
Tag Name	HomeCountry
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Patient's Home State

*The state (territory, province, or District of Columbia) where the patient resides.*

NTDS Core	
Tag Name	HomeState
Data Type	String
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Patient's Home County

*The patient's county (or parish) of residence.*

NTDS Core	
Tag Name	HomeCounty
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Patient's Home City

*The patient's city (or township, or village) of residence.*

NTDS Core	
Tag Name	HomeCity
Data Type	String
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Alternate Home Residence

Documentation of the type of patient without a home ZIP/Postal Code.

NTDS Core	
Tag Name	HomeResidence
Data Type	Integer
Tag Group	HomeResidences (up to 3 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Homeless
2. Undocumented Citizen
3. Migrant Worker

## Date of Birth

*The patient's birth date.*

NTDS Core	
Tag Name	DateOfBirth
Data Type	Date
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Age

*The patient's age at the time of injury (best approximation).*

NTDS Core	
Tag Name	Age
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Age Units

The units used to document the patient's age (Minutes, Hours, Days, Weeks, Months, Years).

NTDS Core	
Tag Name	AgeUnits
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Hours
	2. Days
	3. Months
	4. Years
	5. Minutes
	6. Weeks

## Race

*The patient's race.*

NTDS Core	
Tag Name	Race
Data Type	Integer
Tag Group	Races (up to 6 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Asian
2. Native Hawaiian or Other Pacific Islander
3. Other Race
4. American Indian
5. Black or African American
6. White

## Ethnicity

*The patient's ethnicity.*

NTDS Core	
Tag Name	Ethnicity
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Hispanic or Latino
2. Not Hispanic or Latino

## Sex

*Birth assigned sex.*

NTDS Core	
Tag Name	Sex
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Male
2. Female
4. Intersex

## Gender Identity

*The patient's gender identity at the time of injury.*

NTDS Core	
Tag Name	Gender
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Man
2. Woman
3. Non-Binary, genderqueer, gender nonconforming
4. Non-disclosed

## Gender Affirming Hormone Therapy

*Has the patient been using hormone therapy within the past month (30 days)?*

NTDS Core	
Tag Name	GenderAffirmingHormoneTherapy
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No
3. Non-disclosed

# **ITDX Data Element Details**

## **Injury Information**

# Injury Incident Date

*The date the injury occurred.*

NTDS Core	
Tag Name	IncidentDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Injury Incident Time

*The time the injury occurred.*

NTDS Core	
Tag Name	IncidentTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Work-Related

*Indication of whether the injury occurred during paid employment.*

NTDS Core	
Tag Name	WorkRelated
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Patient's Occupational Industry

*The occupational industry associated with the patient's work environment.*

NTDS Core	
Tag Name	PatientsOccupationalIndustry
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Finance, Insurance, and Real Estate
	2. Manufacturing
	3. Retail Trade
	4. Transportation and Public Utilities
	5. Agriculture, Forestry, Fishing
	6. Professional and Business Services
	7. Education and Health Services
	8. Construction
	9. Government
	10. Natural Resources and Mining
	11. Information Services
	12. Wholesale Trade
	13. Leisure and Hospitality
	14. Other Services

## Patient's Occupation

*The occupation of the patient.*

NTDS Core	
Tag Name	PatientsOccupation
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Business and Financial Operations Occupations
	2. Architecture and Engineering Occupations
	3. Community and Social Services Occupations
	4. Education, Training, and Library Occupations
	5. Healthcare Practitioners and Technical Occupations
	6. Protective Service Occupations
	7. Building and Grounds Cleaning and Maintenance
	8. Sales and Related Occupations
	9. Farming, Fishing, and Forestry Occupations
	10. Installation, Maintenance, and Repair Occupations
	11. Transportation and Material Moving Occupations
	12. Management Occupations
	13. Computer and Mathematical Occupations
	14. Life, Physical, and Social Science Occupations

15. Legal Occupations
16. Arts, Design, Entertainment, Sports, and Media
17. Healthcare Support Occupations
18. Food Preparation and Serving Related
19. Personal Care and Service Occupations
20. Office and Administrative Support Occupations
21. Construction and Extraction Occupations
22. Production Occupations
23. Military Specific Occupations

## ICD-10 Primary External Cause Code

*External cause code used to describe the mechanism (or external factor) that caused the injury event.*

NTDS Core	
Tag Name	PrimaryECodeICD10
Data Type	String
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ICD-10 Place of Occurrence External Cause Code

*Place of occurrence external cause code used to describe the place/site/location of the injury event (Y92.x).*

NTDS Core	
Tag Name	PlaceOfInjuryCode
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ICD-10 Additional External Cause Code

*Additional External Cause Code used in conjunction with the Primary External Cause Code if multiple External Cause Codes are required to describe the injury event.*

NTDS Core	
Tag Name	AdditionalECodeICD10
Data Type	String
Tag Group	AdditionalECodeICD10s (up to 2)
Tag Usage	Mandatory
Accepts Null Values	Yes



## Incident Location ZIP / Postal Code

*The ZIP/Postal code of the incident location.*

NTDS Core	
Tag Name	InjuryZip
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Incident Country

*The country where the patient was found, or incident occurred*

NTDS Core	
Tag Name	IncidentCountry
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Incident State

*The state, territory, or province where the patient was found, or incident occurred*

NTDS Core	
Tag Name	IncidentState
Data Type	String
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Incident County

*The county or parish where the patient was found, or incident occurred.*

NTDS Core	
Tag Name	IncidentCounty
Data Type	String
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Incident City

*The city or township where the patient was found, or incident occurred.*

NTDS Core	
Tag Name	IncidentCity
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Protective Devices

*Protective devices (safety equipment) in use or worn by the patient at the time of the injury.*

NTDS Core	
Tag Name	ProtectiveDevice
Data Type	Integer
Tag Group	ProtectiveDevices (up to 10 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. None
2. Lap Belt
3. Personal Floatation Device
4. Protective Non-Clothing Gear (E.g. Shin Guard)
5. Eye Protection
6. Child Restraint (Booster Seat or Child Car Seat)
7. Helmet (E.g. Bicycle, Skiing, Motorcycle)
8. Airbag Present
9. Protective Clothing (E.g. Padded Leather Pants)
10. Shoulder Belt
11. Other

## Child Specific Restraint

*Protective child restraint devices used by patient at the time of injury.*

NTDS Core	
Tag Name	ChildSpecificRestraint
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Child Car Seat
2. Infant Car Seat
3. Child Booster Seat

## Airbag Deployment

*Indication of airbag deployment during a motor vehicle crash.*

NTDS Core	
Tag Name	AirbagDeployment
Data Type	Integer
Tag Group	AirbagDeployments (up to 4 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Airbag Not Deployed
	2. Airbag Deployed Front
	3. Airbag Deployed Side
	4. Airbag Deployed Other (Knee, Air Belt, Curtain, Etc.)



## Report of Physical Abuse

*A report of suspected physical abuse was made to law enforcement and/or protective services.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collection, the report of physical abuse data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	AbuseReport
Data Type	Integer
Tag Group	ItidxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Yes
	2. No

## Investigation of Physical Abuse

*An investigation by law enforcement and/or protective services was initiated because of the suspected physical abuse.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collection, investigation of physical abuse data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	AbuseInvestigation
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Caregiver at Discharge

*The patient was discharged to a caregiver different than the caregiver at admission due to suspected physical abuse.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collection, caregiver at discharge data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	CaregiverAtDischarge
Data Type	Integer
Tag Group	ItidxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Trauma Type

*The primary source of the trauma injury sustained by the patient.*

ITDX Extension	
Extension Rationale	Allows for reporting trauma type.
Tag Name	TraumaType
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Blunt
2. Penetrating
3. Burn
4. Other

# **ITDX Data Element Details**

## **Prehospital Information**

# EMS Dispatch Date

*The date the unit transporting to your hospital was notified by dispatch.*

ITDX Extension	
Tag Name	EmsNotifyDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# EMS Dispatch Time

*The time the unit transporting to your hospital was notified by dispatch.*

ITDX Extension	
Tag Name	EmsNotifyTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# EMS Unit Arrival Date at Scene or Transferring Facility

*The date the unit transporting to your hospital arrived on the scene/transferring facility.*

ITDX Extension	
Tag Name	EmsArrivalDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## EMS Unit Arrival Time at Scene or Transferring Facility

*The time the unit transporting to your hospital arrived on the scene/transferring facility.*

ITDX Extension	
Tag Name	EmsArrivalTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# EMS Unit Departure Date from Scene or Transferring Facility

The date the unit transporting to your hospital left the scene/transferring facility.

ITDX Extension	
Tag Name	EmsLeftDate
Data Type	Date
Tag Group	ItidxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## EMS Unit Departure Time from Scene or Transferring Facility

*The time the unit transporting to your hospital left the scene/transferring facility.*

ITDX Extension	
Tag Name	EmsLeftTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Transport Mode

*The mode of transport delivering the patient to your hospital.*

NTDS Core	
Tag Name	TransportMode
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Value	Yes

Field Values
1. Ground Ambulance
2. Helicopter Ambulance
3. Fixed-Wing Ambulance
4. Private/Public Vehicle/Walk-In
5. Police
6. Other

## Other Transport Mode

*All other modes of transport used during patient care event (prior to arrival at your hospital), except the mode delivering the patient to the hospital.*

NTDS Core	
Tag Name	OtherTransportMode
Data Type	Integer
Tag Group	OtherTransportModes (up to 5 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Ground Ambulance
	2. Helicopter Ambulance
	3. Fixed-Wing Ambulance
	4. Private/Public Vehicle/Walk-In
	5. Police
	6. Other

# State Trauma Number

*Allows for the collection of State-specific identifiers.*

ITDX Extension	
Tag Name	StateTraumaNumber
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Optional
Accepts Null Values	Yes

# Regional Trauma Number

*Allows for the collection of Regional-specific identifiers.*

ITDX Extension	
Tag Name	RegionalTraumaNumber
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Optional
Accepts Null Values	Yes

## Hospital System Trauma Number

*Allows for the collection of Hospital System-specific identifiers.*

ITDX Extension	
Tag Name	HospitalSystemTraumaNumber
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Optional
Accepts Null Values	Yes



## Initial Field Systolic Blood Pressure

*First recorded systolic blood pressure measured.*

ITDX Extension	
Tag Name	EmsSbp
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial Field Diastolic Blood Pressure

*First recorded diastolic blood pressure measured.*

ITDX Extension	
Tag Name	EmsDbp
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial Field Pulse Rate

*First recorded pulse measured (palpated or auscultated), expressed as a number per minute.*

ITDX Extension	
Tag Name	EmsPulseRate
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial Field Respiratory Rate

*First recorded respiratory rate measured (expressed as a number per minute).*

ITDX Extension	
Tag Name	EmsRespiratoryRate
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial Field Oxygen Saturation

*First recorded oxygen saturation measured (expressed as a percentage).*

ITDX Extension	
Tag Name	EmsPulseOximetry
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Intubation Prior to Arrival

*The patient was intubated with a definitive airway (below the vocal cords) after sustaining traumatic injury prior to arrival at your hospital.*

NTDS Core	
Tag Name	IntubationPriorToArrival
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Value	Yes

Field Values
1. Yes
2. No

## Intubation Location

*The physical location patient intubation occurred prior to your hospital arrival.*

NTDS Core	
Tag Name	IntubationLocation
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Value	Yes

Field Values
1. Out of Hospital Intubation
2. Transferring Facility

## Initial Field GCS - Eye

*First recorded Glasgow Coma Score (Eye) measured.*

ITDX Extension	
Tag Name	EmsGcsEye
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. No Eye Movement When Assessed
2. Open Eyes in Response to Painful Stimulation
3. Opens Eyes in Response to Verbal Stimulation
4. Opens Eyes Spontaneously



## Initial Field GCS - Verbal

*First recorded Glasgow Coma Score (Verbal) measured.*

ITDX Extension	
Tag Name	EmsGcsVerbal
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric (&lt;= 2 years)</b>	1. No Vocal Response
	2. Inconsolable, Agitated
	3. Inconsistently Consolable, Moaning
	4. Cries but is Consolable, Inappropriate Interactions
	5. Smiles, Oriented to Sounds, Follows Objects, Interacts
<b>Adult</b>	1. No Verbal Response
	2. Incomprehensible Sounds
	3. Inappropriate Words
	4. Confused
	5. Oriented

## Initial Field GCS - Motor

*First recorded Glasgow Coma Score (Motor) measured.*

ITDX Extension	
Tag Name	EmsGcsMotor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric (&lt;= 2 years)</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
<b>Adult</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Obeys Commands

## Initial Field GCS - Total

*First recorded Glasgow Coma Score (Total) measured.*

ITDX Extension	
Tag Name	EmsTotalGcs
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial Field GCS 40 - Eye

*First recorded Glasgow Coma Score 40 (Eye) measured.*

ITDX Extension	
Tag Name	EmsGcs40Eye
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. To Pain
	3. To Sounds
	4. Spontaneous
	0. Not Testable
<b>Adult</b>	1. None
	2. To Pressure
	3. To Sounds
	4. Spontaneous
	0. Not Testable

## Initial Field GCS 40 - Verbal

*First recorded Glasgow Coma Score 40 (Verbal) measured.*

ITDX Extension	
Tag Name	EmsGcs40Verbal
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. Cries
	3. Vocal Sounds
	4. Words
	5. Talks Normally
	0. Not Testable
<b>Adult</b>	1. None
	2. Sounds
	3. Words
	4. Confused
	5. Oriented
	0. Not Testable

## Initial Field GCS 40 - Motor

*First recorded Glasgow Coma Score 40 (Motor) measured.*

ITDX Extension	
Tag Name	EmsGcs40Motor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys Commands
	0. Not Testable
<b>Adult</b>	1. None
	2. Extension
	3. Abnormal Flexion
	4. Normal Flexion
	5. Localizing
	6. Obeys Commands
	0. Not Testable

## Inter-Facility Transfer

*Was the patient transferred to your facility from another acute care facility?*

NTDS Core	
Tag Name	InterFacilityTransfer
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Trauma Center Criteria

*Physiologic and anatomic EMS trauma triage criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons- Committee on Trauma. This information must be found on the scene of injury EMS Run Report.*

ITDX Extension	
Tag Name	TraumaCenterCriterion
Data Type	Integer
Tag Group	TraumaCenterCriteria (up to 11 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. Glasgow Coma Score $\leq$ 13
	2. Systolic Blood Pressure $<$ 90 mmHg
	3. Respiratory Rate $<$ 10 or $>$ 29 Breaths per Minute ( $<$ 20 in Infants Aged $<$ 1 Year) or Need for Ventilatory Support
	4. All Penetrating Injuries to Head, Neck, Torso and Extremities Proximal to Elbow or Knee
	5. Chest Wall Instability or Deformity (E.g. Flail Chest)
	6. Two or More Proximal Long Bone Fractures
	7. Crushed, Degloved, Mangled, or Pulseless Extremity
	8. Amputation Proximal to Wrist or Ankle
	9. Pelvic Fracture
	10. Open or Depressed Skull Fracture
	11. Paralysis



## National Field Triage Criteria

*American College of Surgeons Committee on Trauma (COT), 2022 revised National Guideline for the Field Triage of Injured Patients (ACS, 2022).*

*Reference: Newgard, Craig D. MD, MPH, FACEP; Fischer, Peter E. MD; Gestring, Mark MD; Michaels, Holly N. MPH; Jurkovich, Gregory J. MD, FACS; Lerner, E. Brooke PhD, FAEMS; Fallat, Mary E. MD; Delbridge, Theodore R. MD, MPH; Brown, Joshua B. MD, MSc, FACS; Bulger, Eileen M. MD; the Writing Group for the 2021 National Expert Panel on Field Triage. National guideline for the field triage of injured patients: Recommendations of the National Expert Panel on Field Triage, 2021. Journal of Trauma and Acute Care Surgery: August 2022 - Volume 93 - Issue 2 - p e49-e60 doi: 10.1097/TA.0000000000003627.*

ITDX Extension	
Tag Name	NationalFieldTriageCriteria
Data Type	Integer
Tag Group	NationalFieldTriageCriteria
Tag Usage	Optional
Accepts Null Values	Yes

Field Values
1. Red Criteria, High Risk for Serious Injury
2. Yellow Criteria, Moderate Risk for Serious Injury

## National Field Triage 2022

*American College of Surgeons Committee on Trauma (COT), 2022 revised National Guideline for the Field Triage of Injured Patients (ACS, 2022).*

*Reference: Newgard, Craig D. MD, MPH, FACEP; Fischer, Peter E. MD; Gestring, Mark MD; Michaels, Holly N. MPH; Jurkovich, Gregory J. MD, FACS; Lerner, E. Brooke PhD, FAEMS; Fallat, Mary E. MD; Delbridge, Theodore R. MD, MPH; Brown, Joshua B. MD, MSc, FACS; Bulger, Eileen M. MD; the Writing Group for the 2021 National Expert Panel on Field Triage. National guideline for the field triage of injured patients: Recommendations of the National Expert Panel on Field Triage, 2021. Journal of Trauma and Acute Care Surgery: August 2022 - Volume 93 - Issue 2 - p e49-e60 doi: 10.1097/TA.0000000000003627.*

ITDX Extension	
Tag Name	NationalFieldTriage
Data Type	Integer
Tag Group	NationalFieldTriage (up to 37 times)
Tag Usage	Optional
Accepts Null Values	Yes

Field Values
1. Penetrating injuries to head, neck, torso, and proximal extremities (Injury Pattern)
2. Skull deformity, suspected skull fracture (Injury Pattern)
3. Suspected spinal injury with new motor or sensory loss (Injury Pattern)
4. Chest wall instability, deformity, or suspected flail chest (Injury Pattern)
5. Suspected pelvic fracture (Injury Pattern)
6. Suspected fracture of two or more proximal long bones (Injury Pattern)
7. Crushed, degloved, mangled, or pulseless extremity (Injury Pattern)
8. Amputation proximal to wrist or ankle (Injury Pattern)

9. Active bleeding requiring a tourniquet or wound packing with continuous pressure (Injury Pattern)
10. High-Risk Auto Crash (MOI)
11. Partial or complete ejection (MOI)
12. Significant intrusion (including roof) (MOI)
13. Significant intrusion, > 12 inches occupant site (MOI)
14. Significant intrusion, > 18 inches any site (MOI)
15. Significant intrusion, need for extrication for entrapped patient (MOI)
16. Death in passenger compartment (MOI)
17. Child (Age 0-9) unrestrained or in unsecured child safety seat (MOI)
18. Vehicle telemetry data consistent with severe injury (MOI)
19. Rider separated from transport vehicle with significant impact (MOI)
20. Pedestrian/bicycle rider thrown, run over, or with significant impact (MOI)
21. Fall from height > 10 feet (all ages) (MOI)
22. All patients unable to follow commands motor GCS < 6 (MS & VS)
23. All patients RR < 10 or > 29 breaths/min (MS & VS)
24. All patients respiratory distress or need for respiratory support (MS & VS)
25. All patients room-air pulse oximetry < 90% (MS & VS)
26. Age 0-9 years SBP < 70 mmHg + 2 x age years (MS & VS)
27. Age 10-64 years SBP < 90 mmHg (MS & VS)
28. Age 10-64 years HR > SBP (MS & VS)
29. Age ≥ 65 years SBP < 110 mmHg (MS & VS)
30. Age ≥ 65 years HR > SBP (MS & VS)
31. Low-level falls in young children (age ≤ 5 years) or older adults (age ≥ 65 years) with significant head impact (EMS Judgement)
32. Anticoagulant use (EMS Judgement)
33. Suspicion of child abuse (EMS Judgement)

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34. Special, high-resource healthcare needs (EMS Judgement)

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35. Pregnancy > 20 weeks (EMS Judgement)

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36. Burns in conjunction with trauma (EMS Judgement)

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37. Pediatric capable center (EMS Judgement)

## Vehicular, Pedestrian, Other Risk Injury

*EMS trauma triage mechanism of injury criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons- Committee on Trauma. This information must be found on the scene of injury EMS Run Report.*

ITDX Extension	
Tag Name	VehicularPedestrianOther
Data Type	Integer
Tag Group	VehicularPedestrianOthers (up to 14 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Fall Adults: > 20 ft. (One Story is Equal to 10 ft.)
2. Fall Children: > 10 ft. or 2-3 Times the Height of the Child
3. Crash Intrusion, Including Roof: > 12 in. Occupant Site; > 18 in. Any Site
4. Crash Ejection (Partial or Complete) from Automobile
5. Crash Death in Same Passenger Compartment
6. Crash Vehicle Telemetry Data (AACN) Consistent with High Risk Injury
7. Auto v. Pedestrian/Bicyclist Thrown, Run Over, or > 20 mph Impact
8. Motorcycle Crash > 20 mph
9. For Adults > 65; SBP < 110
10. Patients on Anticoagulants and Bleeding Disorders

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11. Pregnancy > 20 weeks

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12. EMS Provider Judgment

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13. Burns

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14. Burns with Trauma

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# Pre-hospital Cardiac Arrest

Indication of whether patient experienced cardiac arrest prior to ED/Hospital arrival.

NTDS Core	
Tag Name	PrehospitalCardiacArrest
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Transporting EMS Agency NPI Number

*(Pilot Data Element, 2023)*

*The Centers for Medicare and Medicaid Services (CMS) EMS Agency National Provider Identifier for the EMS agency that transported the patient to the receiving facility.*

*Pilot Data Element: A pilot data element is to allow for optional registry data collection. This data element will not be included in data submissions from your registry.*

Pilot Data Element	
Tag Name	TransportingEMSNPInumber
Data Type	String
Tag Group	ItdxRecord
Accepts Null Values	Yes



## EMS Incident Number

*(Pilot Data Element, 2023)*

NEMSIS v3.5; this number can be used to associate multiple EMS responses, dispatch information, and other information to the same EMS event or patient.

Pilot Data Element: A pilot data element is to allow for optional registry data collection. This data element will not be included in data submissions from your registry.

Pilot Data Element	
Tag Name	EMSIncidentNumber
Data Type	String
Tag Group	ItdxRecord
Accepts Null Values	Yes

# **ITDX Data Element Details Emergency Department Information**

# Highest Activation

*Patient received highest level of trauma activation at your hospital.*

NTDS Core	
Tag Name	HighestTraumaActivation
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Trauma Surgeon Arrival Date

*For the highest activation: the date the first trauma surgeon arrived at the patient's bedside.*

NTDS Core	
Tag Name	TraumaSurgeonHighestActivationArrivalDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Trauma Surgeon Arrival Time

*For the highest activation: the time the first trauma surgeon arrived at the patient's bedside.*

NTDS Core	
Tag Name	TraumaSurgeonHighestActivationArrivalTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ED / Hospital Arrival Date

*The date the patient arrived to the ED/hospital.*

NTDS Core	
Tag Name	HospitalArrivalDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ED / Hospital Arrival Time

*The time the patient arrived to the ED/hospital.*

NTDS Core	
Tag Name	HospitalArrivalTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Systolic Blood Pressure

*First recorded systolic blood pressure in the ED/hospital within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	Sbp
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Initial ED / Hospital Diastolic Blood Pressure

*First recorded diastolic blood pressure in the ED/hospital within 30 minutes or less of ED/hospital arrival.*

ITDX Extension	
Tag Name	Dbp
Data Type	integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Pulse Rate

*First recorded pulse in the ED/hospital (palpated or auscultated) within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).*

NTDS Core	
Tag Name	PulseRate
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Temperature

*First recorded temperature (in degrees Celsius [Centigrade]) in the ED/hospital within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	Temperature
Data Type	Decimal
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Respiratory Rate

*First recorded respiratory rate in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).*

NTDS Core	
Tag Name	RespiratoryRate
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Respiratory Assistance

*Determination of respiratory assistance associated with the initial ED/hospital respiratory rate within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	RespiratoryAssistance
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Unassisted Respiratory Rate
2. Assisted Respiratory Rate

## Initial ED / Hospital Oxygen Saturation

*First recorded oxygen saturation in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a percentage).*

NTDS Core	
Tag Name	PulseOximetry
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital Supplemental Oxygen

*Determination of the presence of supplemental oxygen during assessment of initial ED/hospital oxygen saturation level within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	SupplementalOxygen
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. No Supplemental Oxygen
	2. Supplemental Oxygen

## Initial ED / Hospital GCS - Eye

*First recorded Glasgow Coma Score (Eye) in the ED/hospital within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	GcsEye
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. No Eye Movement When Assessed
2. Open Eyes in Response to Painful Stimulation
3. Opens Eyes in Response to Verbal Stimulation
4. Opens Eyes Spontaneously



## Initial ED / Hospital GCS - Verbal

*First recorded Glasgow Coma Score (Verbal) within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	GcsVerbal
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric (&lt;= 2 years)</b>	1. No Vocal Response
	2. Inconsolable, Agitated
	3. Inconsistently Consolable, Moaning
	4. Cries but is Consolable, Inappropriate Interactions
	5. Smiles, Oriented to Sounds, Follows Objects, Interacts
<b>Adult</b>	1. No Verbal Response
	2. Incomprehensible Sounds
	3. Inappropriate Words
	4. Confused
	5. Oriented

## Initial ED / Hospital GCS - Motor

*First recorded Glasgow Coma Score (Motor) within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	GcsMotor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric (&lt;= 2 years)</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
<b>Adult</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Obeys Commands

## Initial ED / Hospital GCS - Total

*First recorded Glasgow Coma Score (Total) within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	TotalGcs
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Initial ED / Hospital GCS Assessment Qualifiers

*Documentation of factors potentially affecting the first assessment of GCS within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	GcsQualifier
Data Type	Integer
Tag Group	GcsQualifiers (up to 3 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Patient Chemically Sedated or Paralyzed
2. Obstruction to the Patient's Eye
3. Patient Intubated
4. Valid GCS: Patient Not Sedated, Not Intubated, and Did Not Have Obstruction to Eye

## Initial ED / Hospital GCS 40 - Eye

*First recorded Glasgow Coma Score 40 (Eye) in the ED/hospital within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	Gcs40Eye
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. To Pain
	3. To Sounds
	4. Spontaneous
	0. Not Testable
<b>Adult</b>	1. None
	2. To Pressure
	3. To Sounds
	4. Spontaneous
	0. Not Testable

## Initial ED / Hospital GCS 40 - Verbal

*First recorded Glasgow Coma Score at 40 (Verbal Response) within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	Gcs40Verbal
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. Cries
	3. Vocal Sounds
	4. Words
	5. Talks Normally
<b>Adult</b>	0. Not Testable
	1. None
	2. Sounds
	3. Words
	4. Confused
	5. Oriented
	0. Not Testable

## Initial ED / Hospital GCS 40 - Motor

*First recorded Glasgow Coma Score at 40 (Best Motor Response) within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	Gcs40Motor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys Commands
<b>Adult</b>	0. Not Testable
	1. None
	2. Extension
	3. Abnormal Flexion
	4. Normal Flexion
	5. Localizing
	6. Obeys Commands
	0. Not Testable

## Initial ED / Hospital Height

*First recorded height after ED/hospital arrival.*

NTDS Core	
Tag Name	Height
Data Type	Decimal
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Initial ED / Hospital Weight

*First recorded, measured or estimated baseline weight upon ED/Hospital arrival.*

NTDS Core	
Extension Rationale	To allow patient's weight to be collected regardless of the time it was collected.
Tag Name	Weight
Data Type	Decimal
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Drug Screen

*First recorded positive drug screen results within 24 hours after first hospital encounter (select all that apply).*

NTDS Core	
Tag Name	DrugScreen
Data Type	Integer
Tag Group	DrugScreens (up to 15 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. AMP (Amphetamine)
	2. BAR (Barbiturate)
	3. BZO (Benzodiazepines)
	4. COC (Cocaine)
	5. mAMP (Methamphetamine)
	6. MDMA (Ecstasy)
	7. MTD (Methadone)
	8. OPI (Opioid)
	9. OXY (Oxycodone)
	10. PCP (Phencyclidine)
	11. TCA (Tricyclic Antidepressant)
	12. THC (Cannabinoid)
	13. Other
	14. None
	15. Not Tested

# Alcohol Screen

*A blood alcohol concentration (BAC) test was performed on the patient within 24 hours after first hospital encounter.*

NTDS Core	
Tag Name	AlcoholScreen
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Alcohol Screen Results

*First recorded blood alcohol concentration (BAC) results within 24 hours after first hospital encounter.*

NTDS Core	
Tag Name	AlcoholScreenResult
Data Type	Decimal
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ED Discharge Disposition

*The disposition of the patient at the time of discharge from the ED.*

NTDS Core	
Tag Name	EDDischargeDisposition
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. Floor Bed (General Admission, Non-Specialty Unit Bed)
	2. Observation Unit (Unit That Provides < 24 Hour Stays)
	3. Telemetry/Step-Down Unit (Less Acuity than ICU)
	4. Home with Services
	5. Deceased/Expired
	6. Other (Jail, Institutional Care, Mental Health, Etc.)
	7. Operating Room (Hybrid OR)
	8. Intensive Care Unit (ICU)
	9. Home Without Services
	10. Left Against Medical Advice
	11. Transferred to Another Hospital

12 Interventional Radiology Suite

13. Hospice (Hospice Facility, Hospice Unit, Home Hospice, etc.)

## Trauma Team Involvement

*Indicates if the trauma team was activated at any level including a trauma consult. The goal is to identify if a member of the trauma team was involved in the care of the patient in any capacity.*

ITDX Extension	
Extension Rationale	This is a helper field which could be used in determining inclusion criteria for the patient record.
Tag Name	TraumaTeamInvolvement
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Signs of Life

*Indication of whether patient arrived at ED/Hospital with signs of life.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collect, signs of life data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	DeathInED
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Arrived with NO Signs of Life
2. Arrived with Signs of Life



## ED Discharge Orders Written Date

*The date the order was written for the patient to be discharged from the ED.*

NTDS Core	
Tag Name	EDDischargeOrdersWrittenDate
Data Type	Date
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## ED Discharge Orders Written Time

*The time the order was written for the patient to be discharged from the ED.*

NTDS Core	
Tag Name	EDDischargeOrdersWrittenTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# ED Discharge Physical Date

The date the patient was physically discharged from the ED.

ITDX Extension	
Extension Rationale	Allows collection of both physical/actual ED discharge date to support computation of the actual length of stay (LOS) for continuity and analytic purposes.
Tag Name	EDDischargePhysicalDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# ED Discharge Physical Time

The time the patient was physically discharged from the ED.

ITDX Extension	
Extension Rationale	Allows collection of both physical/actual ED discharge time to support computation of the actual length of stay (LOS) for continuity and analytic purposes.
Tag Name	EDDischargePhysicalTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Primary Trauma Service Type

The primary service type responsible for the care of this patient.

NTDS Core	
Tag Name	PrimaryTraumaServiceType
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Adult
2. Pediatric

## Primary Medical Event

*The patient suffered a documented major medical incident (such as seizure, heart attack, arrhythmia, syncope, or hypoglycemia) immediately before the traumatic injury occurred.*

NTDS Core	
Tag Name	PrimaryMedicalEvent
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

# **ITDX Data Element Details**

## **Hospital Procedure**

### **Information**

## ICD-10 Hospital Procedures

*Operative and selected non-operative procedures conducted during hospital stay. Operative and selected non-operative procedures are those that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or complications.*

NTDS Core	
Tag Name	HospitalProcedureICD10
Data Type	String
Tag Group	ltdxRecord (up to 200 times)
Tag Usage	Mandatory
Accepts Null Values	Yes



# Hospital Procedure Start Date

*The date operative and selected non-operative procedures were performed.*

NTDS Core	
Tag Name	HospitalProcedureStartDate
Data Type	Date
Tag Group	HospitalProcedures (up to 200 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

## Hospital Procedure Start Time

*The time operative and selected non-operative procedures were performed.*

NTDS Core	
Tag Name	HospitalProcedureStartTime
Data Type	Time
Tag Group	HospitalProcedures (up to 200 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

# **ITDX Data Element Details**

## **Diagnosis Information**

## Comorbid Conditions

*Pre-existing comorbid factors.*

NTDS Core	
Tag Name	ComorbidCondition
Data Type	Integer
Tag Group	ComorbidConditions (up to 34 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Other
2. Alcohol Use Disorder
4. Bleeding Disorder
5. Currently Receiving Chemotherapy for Cancer
6. Congenital Anomalies
7. Congestive Heart Failure
8. Current Smoker
9. Chronic Renal Failure
10. Cerebrovascular Accident (CVA)
11. Diabetes Mellitus

12. Disseminated Cancer
13. Advanced Directive Limiting Care
15. Functionally Dependent Health Status
19. Hypertension
23. Chronic Obstructive Pulmonary Disease (COPD)
24. Steroid Use
25. Cirrhosis
26. Dementia
30. Attention Deficit Disorder/Attention Deficit Hyperactivity Disorder (ADD/ADHD)
31. Anticoagulant Therapy
34. Myocardial Infarction (MI)
35. Peripheral Arterial Disease (PAD)
36. Substance Use Disorder
37. Prematurity
38. Pregnancy
39. BiPolar I/II Disorder
40. Major Depressive Disorder
41. Other Mental/Personality Disorders
42. Post-Traumatic Stress Disorder
43. Schizoaffective Disorder
44. Schizophrenia
45. Autism Spectrum Disorder (ASD)
46. Bronchopulmonary Dysplasia/Chronic Lung Disease
47. Ventilator Dependence

## ICD-10 Injury Diagnoses

*Diagnoses related to all identified injuries.*

NTDS Core	
Tag Name	DiagnosisICD10
Data Type	String
Tag Group	ItdxRecord (up to 50 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

# **ITDX Data Element Details**

## **Injury Severity Information**

## AIS Predot Code

*The Abbreviated Injury Scale (AIS) pre-dot codes that reflect the patient's injuries.*

NTDS Core	
Tag Name	AisPredot
Data Type	String
Tag Group	AisCodes (up to 50 times)
Tag Usage	Mandatory
Accepts Null Values	Yes



## AIS Severity

*The Abbreviated Injury Scale (AIS) severity codes that reflect the patient's injuries.*

ITDX Extension	
Tag Name	AisSeverity
Data Type	Integer
Tag Group	AisCodes (up to 50 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. Minor Injury
	2. Moderate Injury
	3. Serious Injury
	4. Severe Injury
	5. Critical Injury
	6. Maximum Injury, Virtually Unsurvivable
	9. Not Possible to Assign

## ISS Body Region

*The Injury Severity Score (ISS) body region codes that reflect the patient's injuries.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collection, the report of physical abuse data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	IssRegion
Data Type	Integer
Tag Group	AisCodes (up to 50 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Head or Neck
2. Face
3. Chest
4. Abdominal or Pelvic Contents
5. Extremities or Pelvic Girdle
6. External

## AIS Version

*The software (and version) used to calculate Abbreviated Injury Scale (AIS) severity codes.*

NTDS Core	
Tag Name	AisVersion
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	16. AIS 2015

## Locally Calculated ISS

*The Injury Severity Score (ISS) that reflects the patient's injuries.*

ITDX Extension	
Extension Rationale	For data consistency and continuity of data collection, the report of locally calculated ISS data element will be retained despite being retired from the NTDS data dictionary.
Tag Name	IssCalculated
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# **ITDX Data Element Details Outcome Information**

## Total ICU Length of Stay

*The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day.*

NTDS Core	
Tag Name	TotalIcuLos
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Total Ventilator Days

*The cumulative amount of time spent on the ventilator. Each partial or full day should be measured as one calendar day.*

NTDS Core	
Tag Name	TotalVentDays
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Hospital Discharge Orders Written Date

*The date the order was written for the patient to be discharged from the hospital.*

NTDS Core	
Tag Name	HospitalDischargeOrdersWrittenDate
Data Type	Date
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Hospital Discharge Orders Written Time

*The time the order was written for the patient to be discharged from the hospital.*

NTDS Core	
Tag Name	HospitalDischargeOrdersWrittenTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Hospital Physical Discharge Date

*The date the patient was physically discharged from the hospital.*

ITDX Extension	
Extension Rationale	Allows collection of both physical/actual hospital discharge date to support computation of the actual length of stay (LOS) for continuity and analytic purposes.
Tag Name	HospitalPhysicalDischargeDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Hospital Physical Discharge Time

*The time the patient was physically discharged from the hospital.*

ITDX Extension	
Extension Rationale	Allows collection of both physical/actual hospital discharge time to support computation of the actual length of stay (LOS) for continuity and analytic purposes.
Tag Name	HospitalPhysicalDischargeTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Hospital Discharge Disposition

*The disposition of the patient when discharged from the hospital.*

NTDS Core	
Tag Name	HospitalDischargeDisposition
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. Discharged/Transferred to a Short-Term General Hospital for Inpatient Care
	2. Discharged/Transferred to an Intermediate Care Facility (ICF)
	3. Discharged/Transferred to Home Under Care of Organized Home Health Service
	4. Left Against Medical Advice or Discontinued Care
	5. Deceased/Expired
	6. Discharged to Home or Self-Care (Routine Discharge)
	7. Discharged/Transferred to Skilled Nursing Facility (SNF)
	8. Discharged/Transferred to Hospice Care

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10. Discharged/Transferred to Court/Law Enforcement

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11. Discharged/Transferred to Inpatient Rehab or Designated Unit

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12. Discharged/Transferred to Long Term Care Hospital (LTCH)

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13. Discharged/Transferred to a Psychiatric Hospital or Psychiatric Distinct Part Unit of a Hospital

---

14. Discharged/Transferred to Another Type of Institution Not Defined Elsewhere

# **ITDX Data Element Details**

## **Financial Information**

## Primary Method of Payment

*Primary source of payment for hospital care.*

NTDS Core	
Tag Name	PrimaryMethodPayment
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Medicaid
2. Not Billed (For Any Reason)
3. Self-Pay
4. Private/Commercial Insurance
6. Medicare
7. Other Government
10. Other

# **ITDX Data Element Details**

## **Hospital Complications**



# Hospital Events

*Any medical complication that occurred during the patient’s stay at your hospital.*

NTDS Core	
Tag Name	HospitalComplication
Data Type	Integer
Tag Group	HospitalComplications (up to 23 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Other
4. Acute Kidney Injury
5. Acute Respiratory Distress Syndrome (ARDS)
8. Cardiac Arrest with CPR
12. Deep Surgical Site Infection
14. Deep Vein Thrombosis (DVT)
15. Extremity Compartment Syndrome
18. Myocardial Infarction
19. Organ/Space Surgical Site Infection
21. Pulmonary Embolism

22. Stroke / CVA
25. Unplanned Intubation
29. Osteomyelitis
31. Unplanned Admission to the ICU
32. Severe Sepsis
33. Catheter-Associated Urinary Tract Infection (CAUTI)
34. Central Line-Associated Bloodstream Infection (CLABSI)
35. Ventilator-Associated Pneumonia (VAP)
36. Alcohol Withdrawal Syndrome
37. Pressure Ulcer
38. Superficial Incisional Surgical Site Infection
39. Delirium
40. Unplanned Visit to the Operating Room

# **ITDX Data Element Details Trauma Quality Improvement Program Measures for Processes of Care**

## Highest GCS Total

*Highest total GCS within 24 hours of ED/Hospital arrival.*

NTDS Core	
Tag Name	TbiHighestTotalGcs
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Highest GCS Motor

*Highest motor GCS within 24 hours of ED/Hospital arrival.*

NTDS Core	
Tag Name	TbiGcsMotor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric (&lt;= 2 years)</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
<b>Adult</b>	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Obeys Commands

## GCS Assessment Qualifier Component of Highest GCS Total

*Documentation of factors potentially affecting the highest GCS within 24 hours of ED/hospital arrival.*

NTDS Core	
Tag Name	TbiGcsQualifier
Data Type	Integer
Tag Group	TbiGcsQualifiers (up to 3 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	1. Patient Chemically Sedated or Paralyzed
	2. Obstruction to the Patient's Eye
	3. Patient Intubated
	4. Valid GCS: Patient Was Not Sedated, Not Intubated, and Did Not Have Obstruction to the Eye

## Highest GCS 40 - Motor

*Highest GCS 40 motor on calendar day after ED/Hospital arrival.*

NTDS Core	
Tag Name	TbiGcs40Motor
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values Pediatric &lt; 5 years</b>	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys commands
	0. Not Testable
<b>Adult</b>	1. None
	2. Extension
	3. Abnormal flexion
	4. Normal flexion
	5. Localizing
	6. Obeys commands
	0. Not Testable

## Initial ED / Hospital Pupillary Response

*Physiological response of the pupil size within 30 minutes or less of ED/hospital arrival.*

NTDS Core	
Tag Name	TbiPupillaryResponse
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Both Reactive
2. One Reactive
3. Neither Reactive



## Midline Shift

*> 5mm shift of the brain past its center line within 24 hours after time of injury.*

NTDS Core	
Tag Name	TbiMidlineShift
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No
3. Not Imaged (E.g. CT Scan, MRI)

## Cerebral Monitor

Indicate all cerebral monitors that were placed, including any of the following: ventriculostomy, subarachnoid bolt, camino bolt, external ventricular drain (EVD), licox monitor, jugular venous bulb.

NTDS Core	
Tag Name	TbiCerebralMonitor
Data Type	Integer
Tag Group	TbiCerebralMonitors (up to 4 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Intraventricular Drain/Catheter (E.g. Ventriculostomy, External Ventricular Drain)
2. Intraparenchymal Pressure Monitor (E.g. Camino Bolt, Subarachnoid Bolt, Intraparenchymal Catheter)
3. Intraparenchymal Oxygen Monitor (E.g. Licox)
4. Jugular Venous Bulb
5. None

# Cerebral Monitor Date

*Date of first cerebral monitor placement.*

NTDS Core	
Tag Name	TbiCerebralMonitorDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Cerebral Monitor Time

*Time of first cerebral monitor placement.*

NTDS Core	
Tag Name	TbiCerebralMonitorTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Venous Thromboembolism Prophylaxis Type

Type of first dose of VTE prophylaxis administered to patient at your hospital.

NTDS Core	
Tag Name	VteProphylaxisType
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
5. None
6. LMWH (Dalteparin, Enoxaparin, Etc.)
7. Direct Thrombin Inhibitor (Dabigatran, Etc.)
8. Xa Inhibitor (Rivaroxaban, Etc.)
10. Other
11. Unfractionated Heparin (UH)

## Venous Thromboembolism Prophylaxis Date

*Date of administration to patient of first prophylactic dose of heparin or other anticoagulants at your hospital.*

NTDS Core	
Tag Name	VteProphylaxisDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Venous Thromboembolism Prophylaxis Time

*Time of administration to patient of first prophylactic dose of heparin or other anticoagulants at your hospital.*

NTDS Core	
Tag Name	VteProphylaxisTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Packed Red Blood Cells (4 Hours)

*Volume of packed red blood cells transfused (units or CCs) within first 4 hours after ED/hospital arrival.*

NTDS Core	
Tag Name	TransfusionBlood4Hours
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Whole Blood (4 Hours)

*Refers to amount of transfused whole blood (CCs [mLs]) within first 4 hours after arrival to your hospital.*

NTDS Core	
Tag Name	WholeBlood4Hours
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Transfusion Plasma (4 Hours)

*Volume of fresh, frozen, or thawed plasma (CCs [mLs]) transfused within first 4 hours after ED/hospital arrival.*

NTDS Core	
Tag Name	TransfusionPlasma4Hours
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Transfusion Platelets (4 Hours)

*Volume of platelets (CCs [mLs]) transfused within first 4 hours after ED/hospital arrival.*

NTDS Core	
Tag Name	TransfusionPlatelets4Hours
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Cryoprecipitate (4 Hours)

*Volume of solution enriched with clotting factors transfused (CCs [mLs]) within first 4 hours after ED/hospital arrival.*

NTDS Core	
Tag Name	Cryoprecipitate4Hours
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Lowest ED / Hospital Systolic Blood Pressure

*Lowest sustained (>5 min) systolic blood pressure measured within the first hour of ED/hospital arrival.*

ITDX Extension	
Tag Name	LowestSbp
Data Type	Integer
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Angiography

*First interventional angiogram with or without embolization within first 24 hours of ED/Hospital arrival.*

NTDS Core	
Tag Name	Angiography
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. None
2. Angiogram Only
3. Angiogram with Embolization
4. Angiogram with Stenting

# Embolization Site

Organ / site of embolization for hemorrhage control.

NTDS Core	
Tag Name	EmbolizationSite
Data Type	Integer
Tag Group	EmbolizationSites (up to 7 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. Liver
	2. Spleen
	3. Kidneys
	4. Pelvic (Iliac, Gluteal, Obturator)
	5. Retroperitoneum (Lumbar, Sacral)
	6. Peripheral Vascular (Neck, Extremities)
	8. Other

## Angiography Date

*Date the first angiogram with or without embolization was performed.*

NTDS Core	
Tag Name	AngiographyDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Angiography Time

*Time the first angiogram with or without embolization was performed.*

NTDS Core	
Tag Name	AngiographyTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Surgery for Hemorrhage Control Type

*First type of surgery for hemorrhage control within the first 24 hours of ED/hospital arrival.*

NTDS Core	
Tag Name	HemorrhageControlSurgeryType
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	1. None
	2. Laparotomy
	3. Thoracotomy
	4. Sternotomy
	5. Extremity
	6. Neck
	7. Mangled Extremity/Traumatic Amputation
	8. Other Skin/Soft Tissue (E.g. Scalp Laceration)
	9. Extraperitoneal Pelvic Packing

## Surgery for Hemorrhage Control Date

*Date of first surgery for hemorrhage control within first 24 hours of ED/hospital arrival.*

NTDS Core	
Tag Name	HemorrhageControlSurgeryDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Surgery for Hemorrhage Control Time

*Time of first surgery for hemorrhage control within first 24 hours of ED/hospital arrival.*

NTDS Core	
Tag Name	HemorrhageControlSurgeryTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Withdrawal of Life Supporting Treatment

*Treatment was withdrawn based on a decision to either remove or withhold further life supporting intervention. This decision must be documented in the medical record and is often, but not always, associated with a discussion with the legal next of kin.*

NTDS Core	
Tag Name	WithdrawalOfLifeSupportingTreatment
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No

## Withdrawal of Life Supporting Treatment Date

*The date treatment was withdrawn.*

NTDS Core	
Tag Name	WithdrawalOfLifeSupportingTreatmentDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Withdrawal of Life Supporting Treatment Time

*The time treatment was withdrawn.*

NTDS Core	
Tag Name	WithdrawalOfLifeSupportingTreatmentTime
Data Type	Time
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Antibiotic Therapy

*Intravenous antibiotic therapy was administered to the patient within 24 hours after injury.*

NTDS Core	
Tag Name	AntibioticTherapy
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Yes
2. No



## Antibiotic Therapy Date

*The date of first recorded intravenous antibiotic therapy administered to the patient within 24 hours after injury.*

NTDS Core	
Tag Name	AntibioticTherapyDate
Data Type	Date
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# Antibiotic Therapy Time

*The time of first recorded intravenous antibiotic therapy administered to the patient within 24 hours after injury.*

NTDS Core	
Tag Name	AntibioticTherapyTime
Data Type	Time
Tag Group	ltdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# **ITDX Data Element Details**

## **Surgeon Specific**

### **Reporting**

# National Provider Identifier (NPI)

*The National Provider Identifier (NPI) of the admitting surgeon.*

NTDS Core	
Tag Name	NationalProviderIdentifier
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

# **ITDX Data Element Details**

## **ITDX Record Control**

### **Information**

## Last Modified Date Time

*The date/time that the ITDX source record was last modified in its Trauma Registry.*

ITDX Extension	
Extension Rationale	Tracking field to allow for centralized deduplication of submitted records.
Tag Name	LastModifiedDateTime
Data Type	Datetime
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Patient Identifier

*An identifier in the Trauma Registry that uniquely identifies the record - usually Trauma Number.*

ITDX Extension	
Extension Rationale	Tracking field to allow for centralized deduplication of submitted records.
Tag Name	PatientId
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

## Facility Identifier

*An identifier in the Trauma Registry that uniquely identifies the trauma facility based on the intended recipient of the data;– e.g. NTDB ID for NTDS (TQIP®) or the ASN Facility ID for Vendor Aggregator.*

ITDX Extension	
Extension Rationale	Tracking field to allow for centralized deduplication of submitted records.
Tag Name	FacilityId
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



## Record Linkage Type

*The type of record referenced in the linked record; for example, Prehospital.*

ITDX Extension	
Extension Rationale	Allows for the association of multiple standardized record linkages to a trauma patient record (such as EMS ePCR linkage, hospital interfacility transfer linkage, EMR linkage, Rehab linkage).
Tag Name	LinkageType
Data Type	Integer
Tag Group	RecordLinkages (up to 20 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

# Record Linkage State Identifier

*NEMESIS v3 State ID for EMS linkage. NEMESIS v3.5 Agency Number for EMS linkage upon State adoption.*

ITDX Extension	
Extension Rationale	Allows for system-wide ID assignments/schemes to be correlated to individual trauma records to support linkages of many types with other state/system registries.
Tag Name	LinkageStateId
Data Type	String
Tag Group	RecordLinkages (up to 20 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

## Record Linkage Facility Identifier

*NEMESIS v3 Agency Number for EMS linkage. NEMESIS v3.5 Agency Number for EMS linkage upon State adoption. The universally unique identifier (UUID) of the patient care report (PCR) of each emergency service (EMS) unit treating the patient from the time of injury to arrival at your ED/hospital. Must be represented in canonical form, matching the following regular expression: `[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[1-5][a-fA-F0-9]{3}-[89abAB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}`*

ITDX Extension	
Extension Rationale	Identification of the organization ID providing a data source linked to the trauma registry record (e.g. an EMS agency ID or hospital ID number). To support industry-wide immutable globally unique identifiers (GUIDs) initiatives to help support unambiguous data linkage to other centralized registries from submitted trauma registry records.
Tag Name	LinkageFacilityId
Data Type	string
Tag Group	RecordLinkages (up to 20 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

## Record Linkage Record Identifier

*NEMESIS v3 Patient Care Report number for EMS linkage. NEMESIS v3.5 Agency Number for EMS linkage upon State adoption.*

ITDX Extension	
Extension Rationale	Allows for the linking of the target record's unique identifier.
Tag Name	LinkageRecordId
Data Type	String
Tag Group	RecordLinkages (up to 20 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

## Record Linkage Global Key

*NEMESIS v3 Agency Number for EMS linkage. NEMESIS v3.5 Agency Number for EMS linkage upon State adoption. The universally unique identifier (UUID) of the patient care report (PCR) of each emergency service (EMS) unit treating the patient from the time of injury to arrival at your ED/hospital. Must be represented in canonical form, matching the following regular expression: `[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[1-5][a-fA-F0-9]{3}-[89abAB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}`*

NTDS Core	
Extension Rationale	Identification of the organization ID providing a data source linked to the trauma registry record (e.g. an EMS agency ID or hospital ID number). To support industry-wide immutable globally unique identifiers (GUIDs) initiatives to help support unambiguous data linkage to other centralized registries from submitted trauma registry records.
Tag Name	LinkageGlobalKey
Data Type	string
Tag Group	RecordLinkages (up to 20 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

## Software Vendor

*Name of the software vendor providing the system in which the record was created.*

ITDX Extension	
Extension Rationale	To assist central registries in interpreting nuances of data collection variations specific to a given vendor; and to have a way to categorize potential variations across sites that could indicate a product specific mapping or data collection issue in a given source system.
Tag Name	SoftwareVendor
Data Type	Integer
Tag Group	ItidxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	0. Other
	1. Clinical Data Management
	2. Digital Innovation
	3. Image Trend
	4. Lancet Technology
	5. ESO

## Software Product

*Name of the software product in which the record was created.*

ITDX Extension	
Extension Rationale	To assist central registries in interpreting nuances of data collection variations specific to a given vendor's product; and to have a way to categorize potential variations across sites that could indicate a product specific mapping or data collection issue in a given source system.
Tag Name	SoftwareProduct
Data Type	Integer
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	
	0. Other Vendor Product
	101. TraumaBase
	102. eTraumaBase
	201. V5
	202. CV4/CVW
	203. NTRACS
	204. Web Collector
	301. Patient Registry
	401. Trauma One
	402. Trauma One Web
	403. TEMIS
	501. ESO Patient Registry

## Software Version

*Version number of the software product in which the record was created.*

ITDX Extension	
Extension Rationale	To assist central registries in interpreting nuances of data collection variations specific to a given vendor's product version; and to have a way to categorize potential variations across sites that could indicate a product specific mapping or data collection issue in a given source system.
Tag Name	SoftwareVersion
Data Type	String
Tag Group	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes



# **ITDX Data Element Details**

## **ITDX Explicit Negatives**

## Explicit Negatives - Element Type

*The element type for which this explicit negative is being defined (e.g. complication, comorbidity).*

ITDX Extension	
Extension Rationale	Allows for the unlimited future expansion of the explicit negative innovation for items such as complications, comorbidities, etc. This allows the continued collection of positive only selections to streamline registrar data entry and provide critical continuity for analytics and reporting. This is achieved by allowing a separate explicit negatives list to capture only the rare events of unknown and not applicable selections. This data is stored separately from the affirmative responses. Collecting the information this way avoids having to enter “no” values for items such as comorbidities and complications on every record. The Element Type provides the name of the data point to which the explicit negative fields are associated, such as comorbidity or complications.
Tag Name	ElementKey
Data Type	Integer
Tag Group	ExplicitNegatives (up to 57 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Hospital Events
2. Pre-existing Conditions

# Explicit Negatives – Menu Value

*The menu value for the element defined in the ElementKey.*

ITDX Extension	
Extension Rationale	Elements with multiple values, such as comorbidity and complications, need a distinct menu value to which to associate the explicit negative value. These correspond to the menu value in the specific field. E.g. hospital events are based on the values in the hospital events list.
Tag Name	ValueKey
Data Type	Integer
Tag Group	ExplicitNegatives (up to 57 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

# Explicit Negative

The explicit menu value for the selected menu value. Usually one of No, N/A or Unknown.

ITDX Extension	
Extension Rationale	This is the explicit negative or null value to the associated element and menu value.
Tag Name	ExplicitNegative
Data Type	Integer
Tag Group	ExplicitNegatives (up to 57 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

<b>Field Values</b>	2. No
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# **ITDX Data Element Details**

## **ITDX Explicit Timeliness**

## Explicit Timeliness - Element Type

*The element type for which this explicit timeliness information is being defined (for example, height and weight).*

ITDX Extension	
Extension Rationale	Allows for unlimited ability to associate timeliness and/or specific times to an underlying data point. This allows the underlying data point to be captured irrespective of timeliness, so local and centralized registries can consistently have access to the data regardless of any national rules requiring limited reporting. Allows for continued collection of patients' height/weight regardless of the timeliness and therefore supports analytics and computation of measures such as BMI for all patients in hospital and state registries. The Element Type provides the data point or element group to which the explicit timeliness values are associated, such as height, weight, or initial hospital vitals.
Tag Name	TimelinessKey
Data Type	Integer
Tag Group	Explicit Timeliness (up to 30 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values
1. Height
2. Weight
3. Initial Prehospital Vitals
4. Initial ED Vitals

# Explicit Timeliness - Date

*The date the timeliness element was recorded.*

ITDX Extension	
Extension Rationale	This is the explicit date associated with the element type data point or group.
Tag Name	EtDate
Data Type	Date
Tag Group	ExplicitTimeliness (up to 30 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

# Explicit Timeliness - Time

*The time the timeliness element was recorded.*

ITDX Extension	
Extension Rationale	This is the explicit time associated with the element type data point or group.
Tag Name	EtTime
Data Type	Time
Tag Group	ExplicitTimeliness (up to 30 times)
Tag Usage	Mandatory
Accepts Null Values	Yes



## Explicit Timeliness

The explicit negative value for the selected timeliness element, usually one of: Yes, No, N/A or Unknown.

ITDX Extension	
Extension Rationale	This is the explicit timeliness grade (Yes/No) associated to the element type data point or group. Fields which have a corresponding explicit timeliness field are considered timely unless this field is explicitly answered as "No".
Tag Name	EtTimely
Data Type	Integer
Tag Group	ExplicitTimeliness (up to 30 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	2. No
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## Appendix A – Registry Best Practices

### *Explicit Timeliness*

The ITDX data standard does not require the use of the explicit timeliness fields; rather, they are designed to allow flexibility around data collection. Vital signs and other questions for which the timeliness questions apply should be considered timely unless the dates/times indicate that the information was not timely or the explicit timeliness fields are answered as “No”. For example, if the height and/or weight is provided without any explicit timeliness designation, the value is to be considered timely.

### *Explicit Negatives*

The ITDX data standard does not require the use of the explicit negative fields; rather, they are designed to allow flexibility around data collection. If Comorbidities and Hospital Events are not explicitly selected or answered with an explicit negative of “No” the assumption is that the comorbidity or hospital event did not occur and therefore a “No” will be transmitted. Explicit Negatives can also be used to indicate “Unknown” or “Not Applicable” for any Comorbidity or Hospital Event if needed and when required.

## Appendix B – 2024 to 2025 Change Log

Admission Year	Element Name	Action	Change Comment
2025	SEX	ADD	4. Intersex
2025	Sex	RETIRE	3. Non-Binary
2025	Gender Identity	NEW	Data Element
2025	Gender-Affirming Hormone Therapy	NEW	Data Element
2025	INCIDENT COUNTRY	CHANGE	Definition
2025	INCIDENT STATE	CHANGE	Definition
2025	INCIDENT COUNTY	CHANGE	Definition
2025	INCIDENT CITY	CHANGE	Definition
2025	Intubation Prior to Arrival	NEW	Data Element
2025	Intubation Location	NEW	Data Element
2025	ED DISCHARGE DISPOSITION	CHANGE	Menu Option to include “Hybrid OR”
2025	ED DISCHARGE DISPOSITION	ADD	12, INTERVENTIONAL RADIOLOGY SUITE
2025	ED DISCHARGE DISPOSITION	ADD	13. HOSPICE (Hospice Facility, Hospice Unit, Home Hospice, etc.)

2025	PRIMARY MEDICAL EVENT	NEW	Data Element
2025	PRE-EXISTING CONDITION	ADD	45 Autism Spectrum Disorder (ASD)
2025	PRE-EXISTING CONDITION	ADD	46. Bronchopulmonary Dysplasia/Chronic Lung Disease
2025	PRE-EXISTING CONDITION	ADD	47. Ventilator Dependence
2025	AIS VERSION	RETIRE	6. AIS 05, Update 08
2025	PRE-EXISTING CONDITION	Change	Up to occurrences of 34, was 31

## Appendix C – Acronyms

ACS	American College Surgeons
EHR	Electronic Health Record
ESO	World's best data company
EMR	Electronic Medical Record
EMS	Emergency Medical Services
ePCR	Electronic Patient Care Record
GCS	Glasgow Coma Scale
ITDX	International Trauma Data Exchange
NTDB	National Trauma Data Bank
NTDS	National Trauma Data Standard
TQIP	Trauma Quality Improvement Program

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