eso

International Trauma Data Exchange (ITDX)

2024 Data Dictionary

Release Date: August 2023
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ITDX Data Dictionary Element List

This table is a listing of all 2023 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

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

Field Name		
Report of Physical Abuse	AbuseReport	ITDX
Investigation of Physical Abuse	AbuseInvestigation	ITDX
Caregiver at Discharge	CaregiverAtDischarge	ITDX
Trauma Type	TraumaType	ITDX

Prehospital Information

Field Name	Tag Name	Technical Standard
EMS Dispatch Date	EmsNotifyDate	ITDX
EMS Dispatch Time	EmsNotifyTime	ITDX
EMS Unit Arrival Date at Scene or Transferring Facility	EmsArrivalDate	ITDX
EMS Unit Arrival Time at Scene or Transferring Facility	EmsArrivalTime	ITDX
EMS Unit Departure Date from Scene or Transferring Facility	EmsLeftDate	ITDX
EMS Unit Departure Time from Scene or Transferring Facility	EmsLeftTime	ITDX
Transport Mode	TransportMode	NTDS
Other Transport Mode	OtherTransportMode	NTDS
EMS Patient Care Report Universally Unique Identifier (UUID)	See LinkageGlobalKey	NTDS
State Trauma Number	StateTraumaNumber	ITDX
Regional Trauma Number	RegionalTraumaNumber	ITDX
Hospital System Trauma Number	HospitalSystemTraumaNumber	ITDX
Initial Field Systolic Blood Pressure	EmsSbp	ITDX
Initial Field Pulse Rate	EmsPulseRate	ITDX
Initial Field Respiratory Rate	EmsRespiratoryRate	ITDX
Initial Field Oxygen Saturation	EmsPulseOximetry	ITDX
Initial Field GCS - Eye	EmsGcsEye	ITDX
Initial Field GCS - Verbal	EmsGcsVerbal	ITDX
Initial Field GCS - Motor	EmsGcsMotor	ITDX
Initial Field GCS - Total	EmsTotalGcs	ITDX
Initial Field GCS 40 - Eye	EmsGcs40Eye	ITDX
Initial Field GCS 40 - Verbal	EmsGcs40Verbal	ITDX
Initial Field GCS 40 - Motor	EmsGcs40Motor	ITDX
Inter-Facility Transfer	InterFacilityTransfer	NTDS
Trauma Center Criteria	TraumaCenterCriterion	ITDX
National Field Triage 2021		ITDX
National Field Triage Criteria		ITDX
Vehicular, Pedestrian, Other Risk Injury	VehicularPedestrianOther	ITDX
Prehospital Cardiac Arrest	PrehospitalCardiacArrest	NTDS
Transporting EMS Agency NPI Number	EMSNPInumber	Pilot Data Element, 2023
EMS Incident Number	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
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
Trauma Team Involvement	TraumaTeamInvolvement	ITDX
Signs of Life	DeathInED	ITDX
ED Discharge Orders Written Date	EDDischargeOrdersWrittenDate	NTDS
ED Discharge Orders Written Time	EDDischargeOrdersWrittenTime	NTDS
ED Discharge Physical Date	EDDischargePhysicalDate	ITDX
ED Discharge Physical Time	EDDischargePhysicalTime	ITDX
Primary Trauma Service Type	PrimaryTraumaServiceType	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
AIS Predot Code	AisPredot	ITDX
AIS Severity	AisSeverity	ITDX
ISS Body Region	IssRegion	ITDX
AIS Version	AisVersion	NTDS
Locally Calculated ISS	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
Hospital Physical Discharge Date	HospitalPhysicalDischargeDate	ITDX
Hospital Physical Discharge Time	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
Hospital Events/Complications	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
Lowest ED / Hospital Systolic Blood Pressure	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
Last Modified Date Time	LastModifiedDateTime	ITDX
Patient Identifier	PatientId	ITDX

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

ITDX Explicit Negatives

Field Name	Tag Name	Technical Standard
Explicit Negatives - Element Type	ElementKey	ITDX
Explicit Negatives - Menu Value	ValueKey	ITDX
Explicit Negative	ExplicitNegative	ITDX

ITDX Explicit Timeliness

Field Name	Tag Name	Technical Standard
Explicit Timeliness - Element Type	TimelinessKey	ITDX
Explicit Timeliness - Date	EtDate	ITDX
Explicit Timeliness - Time	EtTime	ITDX
Explicit Timeliness	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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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

The patient's sex.

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

Field Values	1. Male
	2. Female
	3. Non-binary

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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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 to which the unit responded (or best approximation).

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 to which the unit responded (or best approximation).

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

Incident County

The county or parish where the patient was found or to which the unit responded (or best approximation).

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

Incident City

The city or township where the patient was found or to which the unit responded.

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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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

Initial Field GCS - Eye

First recorded Glasgow Coma Score (Eye) measured.

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

Field Values Pediatric (<= 2 years)	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
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric (<= 2 years)	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	
	1. None
	2. To Pain
	3. To Sounds
	4. Spontaneous
	0. Not Testable
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	1. None
	2. Cries
	3. Vocal Sounds
	4. Words
	5. Talks Normally
	0. Not Testable
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys Commands
	0. Not Testable
Adult	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 <= 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).

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 2021

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

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)

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

35. Pregnancy > 20 weeks (EMS Judgement)

36. Burns in conjunction with trauma (EMS Judgement)

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

11. Pregnancy > 20 weeks
12. EMS Provider Judgment
13. Burns
14. Burns with Trauma

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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric (<= 2 years)	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
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric (<= 2 years)	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
Adult	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	ItdxRecord
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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	
Field Values Pediatric < 5 years	1. None
	2. To Pain
	3. To Sounds
	4. Spontaneous
	0. Not Testable
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	1. None
	2. Cries
	3. Vocal Sounds
	4. Words
	5. Talks Normally
	0. Not Testable
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys Commands
	0. Not Testable
Adult	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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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
	8. Intensive Care Unit (ICU)
	9. Home Without Services
	10. Left Against Medical Advice
	11. Transferred to Another Hospital

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	ItdxRecord
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	ItdxRecord
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

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	ItdxRecord (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 31 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

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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	6. AIS 05, Update 08
	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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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

10. Discharged/Transferred to Court/Law Enforcement
11. Discharged/Transferred to Inpatient Rehab or Designated Unit
12. Discharged/Transferred to Long Term Care Hospital (LTCH)
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 22 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	ItdxRecord
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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric (<= 2 years)	1. No Motor Response
	2. Extension to Pain
	3. Flexion to Pain
	4. Withdrawal from Pain
	5. Localizing Pain
	6. Appropriate Response to Stimulation
Adult	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	ItdxRecord
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values Pediatric < 5 years	1. None
	2. Extension to Pain
	3. Flexion to Pain
	4. Localizes Pain
	5. Obeys commands
	0. Not Testable
Adult	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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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	ItdxRecord
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

NEMSIS v3 State ID for EMS linkage. NEMSIS 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

NEMSIS v3 Agency Number for EMS linkage. NEMSIS 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

NEMSIS v3 Patient Care Report number for EMS linkage. NEMSIS 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

NEMSIS v3 Agency Number for EMS linkage. NEMSIS 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	ItdxRecord
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 50 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 50 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 50 times)
Tag Usage	Mandatory
Accepts Null Values	Yes

Field Values	2. No

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	ExplicitTimeliness (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

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 – 2023 to 2024 Change Log

Admission Year	NTDS or ITDX Data Element	Element Name	Action	Change Comment
2024	ITDX	Software Vendor	NEW	5. ESO
2024	ITDX	National Field Triage 2022	CHANGE	Change name to "National Field Triage 2021"
2024	ITDX	SoftwareProduct	NEW	501. ESO Patient Registry

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