NEMSIS TAC Whitepaper

NEMSIS V3.5.0 Defined List: eInjury.01 – Cause of Injury

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Introduction
The Cause of Injury Defined List utilizes a two-tier choice hierarchy to make identifying and selecting appropriate values easier for EMS clinicians. The first tier represents a generic classification referred to as a “Parent Code”. The second tier is a more specific description referred to as the “EMS Description”. That is followed by the related ICD-10-CM code and clinical ICD-10-CM description.

<table>
<thead>
<tr>
<th>PARENT CODE</th>
<th>EMS DESCRIPTION</th>
<th>ICD-10</th>
<th>ICD-10 DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVC, Traffic Related</td>
<td>Motorcycle accident, NOS</td>
<td>V29.9</td>
<td>Motorcycle rider (driver) (passenger) injured in unspecified traffic accident</td>
</tr>
</tbody>
</table>

EMS software implementing this list may provide an interface that first allows the clinician to choose a generic description (Parent Code), and then provide more specific options (EMS Description) to efficiently reach final value choices.

Historical Context
The NEMSIS Version 2 Data Standard established a suggested list of Cause of Injury codes. Feedback from stakeholders indicated that the list was not sufficient to clearly describe the patient encounter. NEMSIS Version 3 Data Standard allowed for a much broader range of description. Feedback from stakeholders indicated that the Data Standard now allowed for too broad of a range and the data collected were too detailed for efficient application by EMS clinicians.

The Defined Lists associated with the rollout of NEMSIS v3.5.0 were specifically populated to include codes applicable to greater than 90% of all patient care reports submitted to the National EMS database in 2017 through 2019.
Methodology
Utilizing data from the NEMSIS National Database, Cause of Injury listed on patient care reports were evaluated for recurrence and repetition. The assessment included 4,830,979 patient care reports within the time frame of 01/01/2017 through 06/19/2019 were evaluated.

The 2019 defined list (associated with NEMSIS V3.5.0) for Cause of Injury represents a minimum of 91.13% of all Cause of Injury codes submitted to NEMSIS during the time frame. The 2019 defined list for Cause of Injury includes 81 detailed options within 17 categories. (See Hierarchy Example for additional details.)

Defined List Value Range
The code list associated with eInjury.01–Cause of Injury represents a range of values found in the 10th revision of the International Classification of Diseases – Clinical Modification (ICD-10-CM).

The eInjury.01 Cause of Injury defined list can be accessed from the NEMSIS TAC website on the Version 3 Resources page: https://nemsis.org/technical-resources/version-3/version-3-resources/. The codes in the Cause of Injury defined list are represented in the ICD-10-CM ranges listed in the table below.

The ICD-10-CM Code Range for inclusion in the NEMSIS Version 3.5.0 Cause of Injury Defined List:

<table>
<thead>
<tr>
<th>Code Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00–T98</td>
<td>Injury, poisoning and certain other consequences of external causes</td>
</tr>
<tr>
<td>V01–Y98</td>
<td>External causes of morbidity and mortality</td>
</tr>
</tbody>
</table>

Use of code digits that specify Treatment Encounter (initial encounter, subsequent encounter, and sequela) should be avoided (e.g.: T78.40XA: Allergy, unspecified, initial encounter should be described as T78.40: Allergy, unspecified).

ICD-10-CM: Licensed Code List
The U.S. National Library of Medicine provides access to the ICD-10-CM code values through the Unified Medical Language System (UMLS). An applicant must accept the terms of the UMLS Metathesaurus License and create a UMLS Terminology Services (UTS) account for access to UMLS datasets and terminology browsers. More information can be found at http://www.nlm.nih.gov/databases/umls.html.

The NEMSIS TAC may only distribute defined lists with specific value codes from the UMLS system to entities licensed through the UMLS system. Thus, each software developer must seek licensing and provide proof of licensing before gaining access to all of the pre-defined lists available through the NEMSIS TAC.
**Hierarchy Example**

EMS clinicians may choose a general classification (Parent Code) within the first tier of Causes of Injury. Multiple second tier choices (EMS Description) should then be made available to better define the pre-hospital patient encounter.

<table>
<thead>
<tr>
<th>First Tier: Parent Code</th>
<th>Second Tier: EMS Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poisoning</td>
<td>Poisoning by unspecified substance</td>
</tr>
<tr>
<td></td>
<td>Toxic effect of alcohol</td>
</tr>
<tr>
<td></td>
<td>Toxic effect of unknown substance</td>
</tr>
</tbody>
</table>

**Recurrence**

The clinician may enter as many data values in eInjury.01 – Cause of Injury as needed to fully describe the patient situation.

**Reference Material**

See the [NEMSIS v3.5.0 Data Dictionary](https://nemsis.org/technical-resources/version-3/version-3-data-dictionaries/) for additional technical specifics.