NEMSIS TAC Whitepaper

NEMSIS V3 Suggested List – eProcedure.03 - Procedure

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Introduction
The Procedures suggested list has been updated to employ a two-tier choice hierarchy in an effort to make identifying and selecting an appropriate value easier for EMS personnel. The first tier represents a generic procedure hierarchy. The second tier represents a more specific procedure within a generic hierarchy. Additionally, more EMS friendly terms are provided. Thus, EMS software implementing this list may provide an interface that first allows EMS personnel to choose a generic procedure category, and then more specific procedure options are provided to make the final value choice.

eProcedures.03 - Procedure
The code list associated with eProcedures.03 (Procedure) represents a list of values found in Systematized Nomenclature of Medicine -- Clinical Terms (SNOMED CT). The process for gaining access to the SNOMED CT code values is provided below.

Suggested List
The suggested list can be accessed from the NEMSIS TAC website on the Version 3 Resources page: https://www.nemsis.org/v3/resources.html. The suggested code list for eProcedures.03 (Procedure) is represented by SNOMED CT Procedure codes. The term types utilized for the suggested procedures are the fully specified names.
When the procedure suggested list was developed, the primary goal within SNOMED CT was to utilize “Therapeutic or Preventive Procedure (e.g., procedure)” or “Health Care Activity (e.g., regime/therapy” codes to identify EMS procedures.

For consistency in reporting, it is important that Software Developers expanding the list of EMS procedures rely on the use of “Therapeutic or Preventive Procedure” or “Health Care Activity” codes. If it is necessary to utilize other code types, the NEMSIS TAC suggests utilizing the following limited hierarchy to identify a code:

1. Therapeutic or Preventive Procedure
2. Diagnostic Procedure
3. Laboratory Procedure
4. Health Care Activity

If an appropriate code cannot be found in among these code types, the Software Developer or EMS Agency representative should contact the NEMSIS TAC, who will work with SNOMED to add an appropriate code to the SNOMED standard.

Licensed “Code Lists”
The U.S. National Library of Medicine provides access to the SNOMED CT 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 suggested 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 suggested lists available through the NEMSIS TAC.

Conclusions
By maintaining a single source of these data and making it available internally as well as to our customers, we improve our data quality and consistency. This will reduce reporting errors in data submissions provided it is used as part of our own and our customer’s data management best practices.

Hierarchy Tier Graphic Example
EMS personnel may first choose “Airway-Basic” within the first tier of Procedures to document a general category of procedure type. Multiple second tier choices may appear including “Airway Opened” and “Oral Airway Insertion” to choose from as the specific impression.

A second example is choosing “Soft Tissue” within the first tier of Procedures, then specifying “General Wound Care” or “Tourniquet”.

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Hierarchy Procedure Example 1:

- Airway-Basic
  - First Tier
  - Airway Opened
    - Second Tier
  - Oral Airway Insertion
    - Second Tier

Hierarchy Procedure Example 2:

- Soft Tissue
  - First Tier
  - General Wound Care
    - Second Tier
  - Tourniquet
    - Second Tier