

# NEMESIS V3.5.0 Work Group Summary of Recommendations - Suggested Lists -

**NEMESIS TAC Presentation for  
NASEMSO DMC Membership**

February 28, 2018

and

March 2018

# Review and Discussion

# Work Group Meetings

- Elements using existing health care standards were reviewed to determine if a defined list of the values (e.g., ICD-10-CM, RxNorm, SNOMED CT) could be used instead of a pattern.
- The goal is to use a consistent list of value choices to meet the needs of EMS as effectively and efficiently as possible to document the findings, impressions, symptoms, and care of the patient.
- Webinar / Conference Calls were held over two months with good open discussion, sharing of needs, large and small.

# Health Care Standards

## ICD-10-CM or PCS

### Assessment / Care of the Patient

- Impressions
- Symptoms
- Cause of Injury
- Incident Location Type
- Patient Activity

### Patient History

- Medical/Surgical History
- Medication Allergies
- Environmental Allergies

## SNOMED CT ...for Procedures

### • Procedures

- Allowed by the State
- Allowed by the EMS Agency
- Administered by EMS
- Environmental Allergies

## RxNorm ...for Medications

### • Medications

- Allowed by the State
- Allowed by the EMS Agency
- Administered by EMS

### • Use by the Patient

- Current Medications
- Allergies

# Recommendations

# Keep a Pattern for....

**Elements related to the patient medical history, billing experts, and hospital outcome information:**

- Patient Medical Information
  - eHistory.06 – Medication Allergies
  - eHistory.08 – Medical/Surgical History
  - eHistory.12 – Current Medications
- Payment section
  - ePayment.51 – EMS Condition Code
- Outcome Information
  - eOutcome.08 - Emergency Department Recorded Cause of Injury
  - eOutcome.09 - Emergency Department Procedures
  - eOutcome.10 - Emergency Department Diagnosis
  - eOutcome.12 - Hospital Procedures
  - eOutcome.13 - Hospital Diagnosis

# Defined Lists (with “Other” elements added) for....

- Procedures
  - eProcedures.03
  - dConfiguration.03
  - dConfiguration.07
- Medications
  - eMedications.03
  - dConfiguration.04
  - dConfiguration.08
- Defined lists will be limited to medications/procedures traditionally approved for use by EMT/Paramedics.
- Meds/procedures used during interfacility/critical care transports will be added as custom fields.
- “Other” categories will be added allowing additional meds/procedures to be “rolled up” for export to a State and NEMESIS.
- “Defined lists” ~~will be embedded in the XSD~~

## Defined Lists for....

- Symptoms
  - eSituation.09
  - eSituation.10
- Impressions
  - eSituation.11
  - eSituation.12
- Cause of Injury (eInjury.01)
- Incident Location Type (eScene.01)
- Patient Activity (eSituation.17)
- promote “suggested lists” to a be “defined lists” and ~~embed them in the XSD.~~



# Problems to Solve

- Many codes used for the “same thing”
  - 12 different codes for Albuterol
    - Many codes include brands or dosage
- The set of codes used differ
  - Products do not “easily offer” the same codes
    - E.g., X product does not offer “Injury, Unknown”
- The number of possible codes hinder usability
  - For Primary Impression, we have ~2,800 codes

# Concerns

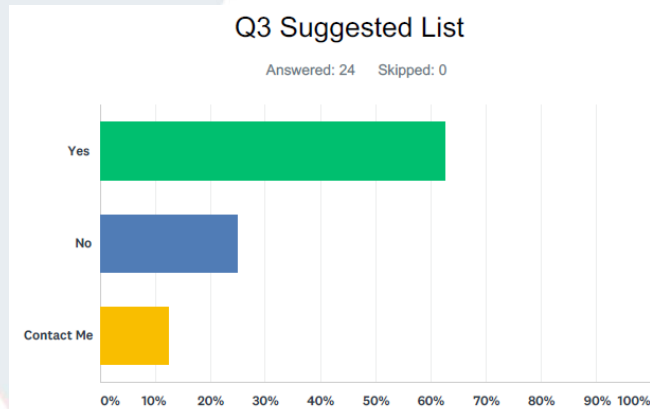
- Defined lists
  - Include in XSD...really a hard sell!
    - Lists must be more nimble for versioning
  - Defined lists limit user options
    - Yes...but increases validity and reliability
  - Requires use of “Other buckets” at some level of data exchange

# Potential Solutions

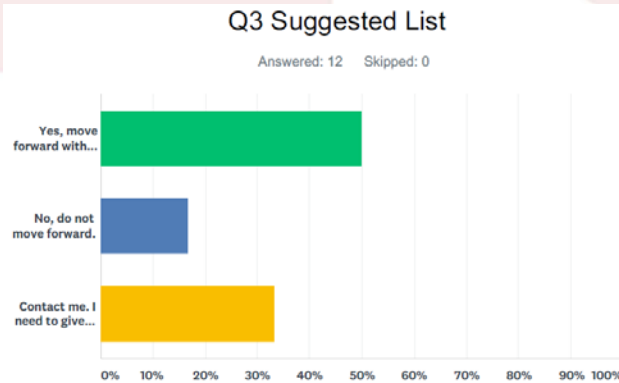
- Use of validation rules (through Schematron) to ensure the presence of a defined list.
- Have a re-code standard: Stick with patterns, but roll them up in a standard way.

# Voting Results

- Balloting during the NEMESIS TAC 2017 October Annual Meeting



- Balloting during V3 Implementation and DMC calls in 2018



# Thanks to the Suggested List Work Group Members

Ben Barnett	ZOLL
Donald Sharp	Advanced Life Systems, Inc.
Ernie Doss	State of Georgia
Hezedeane Smith	Orlando FD
Jamie Chebra	JFK Medical Center
Jay Ostby	WY Office of EMS
Jeffrey Hartberger	Hilton Head Island Fire Rescue
Jennifer Correa	AMR
Jesse Haas	Butler Ambulance Service
Kathy Hart	Culver-Union Township EMS
Lasse Ilkka	The Ministry of Social Affairs and Health (Finland)
Liesbeth Lobato	Golden Hour Data Systems
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