NEMSIS V3 Suggested List – dConfiguration.03 - Procedures Permitted by the State

Date

January 27, 2012 (FINAL)
April 9, 2013 (Updated list)
April 18, 2013 (corrected code for Application of cervical collar)
June 7, 2013 (Updated table with explanation)

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dConfiguration.03 - Procedures Permitted by the State

The code list associated with dConfiguration.03 (Procedures Permitted by the State) represents a list of values found in **S**ystematized **No**menclature of **Med**icine -- **C**linical **T**erms (SNOMED CT). The process for gaining access to the SNOMED CT code values is provided below.

Suggested List

The suggested code list for dConfiguration.03 (Procedures Permitted by the State) is represented by SNOMED CT Procedure codes. The term types utilized for the suggested procedures are preferred terms (PT). There are synonyms for each procedure code that can be used to display the procedure "concept". In addition, the updated suggested list of procedures has three new columns: procedure category, procedure label by category, and suggested procedure label. The "category" option was created in case EMS Software Developers choose to initially display a category for procedures. The "procedure label by category" option is similar to the NEMSIS Version 2 procedure labeling. The "suggested procedure label" option was created to provide EMS friendly language. The specific 105 suggested SNOMED CT codes are listed at the end of this document, beginning on page four.

When the procedure suggested list was developed, the primary goal within SNOMED CT was to utilize "Therapeutic or Preventive Procedure" codes to identify EMS procedures. This was not always possible to accurately represent procedures performed by EMS professionals in the pre-hospital setting. Thus, additional code types within SNOMED CT were utilized. However, 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" 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 should contact the NEMSIS TAC, who will work with SNOMED to add an appropriate code to the SNOMED standard. The suggested SNOMED CT procedure list, available on the NEMSIS download site, provides codes in pipe-delimited format. The list of procedure descriptions is also provided below based on Category.

Licensed "Suggested 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.

The SNOMED CT Concept Identifier codes are the only codes that can be shared publicly in tandem with the concept names. Similar to the other UMLS datasets, the UMLS experts recommend the use of one primary code (e.g. SNOMED - Concept ID) to identify a specific procedure. SNOMED CT allows for multiple similar descriptions /names for the same UMLS identified primary code (concept) which in turn provides a synonym for use. Together the Concept ID and TTY are used to define and identify a specific code and the corresponding description for the procedure.

Access to "Suggested List" Archive Files

Access to suggested code lists will be provided on a special section of the NEMSIS TAC's download site. A licensed user will be able to login to the site and download the appropriate archive file (SNOMED CT, RxNorm, ICD-10-CM, etc).

The UMLS license verification service helps determine if the remote user has a license to use and/or distribute certain code sets. If the user does not have a current license, access to the "suggested lists" archive will be denied.

The "suggested list" files will be zipped archives that are automatically created each time one of the licensed code databases is updated in the NEMSIS master data repository.

Viewing and Using the "Suggested List" Archive Files

The downloaded suggested list appears in a pipe-delimited text format. The proper code to utilize is the code with the name of the element and closest to the value description. Please note that the CUI, AUI, and TTY fields are included for reference purposes. These codes allow one to locate the exact code and description in the UMLS Metathesaurus that was selected for inclusion in the suggested list.

The list provides additional fields indicating when a record became active in the NEMSIS TAC's master data repository as well as the version of the source used for a particular code and description in the suggested list.

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.

Unified Medical language System (UMLS) Term Types (TTY)

This is a partial list of Term Types in Source (TTY) from the National Library of Medicine website. The NEMSIS TAC will be using primarily the designated preferred name (PT) and occasionally the hierarchical term (HT) Term Types in its suggested lists. To view the full list of UMLS abbreviations used in data element please visit the National Library of Medicine website:

http://www.nlm.nih.gov/research/umls/knowledge_sources/metathesaurus/release/abbreviations.html

	TTY (Term Type in Source)		TTY (Term Type in Source)
DN	Display Name	HT	Hierarchical term
DO	Domain	LT	Lower Level Term
ET	Entry term	PT	Designated preferred name
HC	Hierarchical class	RT	Designated related term
HD	Hierarchical descriptor		

SNOMED CT Suggested List for dConfiguration.03 - Procedures Permitted by the State

The suggested EMS professional procedure descriptions listed below are ordered based on the Procedure Category and then by Procedure Label by Category. The code list, as identified above is based on SNOMED "procedure" codes. The appropriate term type (TTY) code for each description is preferred term (PT).

The June 7, 2013 update provides the three columns to the left in a light red background to identify examples EMS friendly vocabulary and options for training purposes. The "Example EMS Descriptor" column includes terminology that may be used by the EMS community in place of the official health care data standard description. Please note neither the official code nor description has been changed. The backend code and description remain that of the health care data standard for the element. This is true at the NEMSIS TAC and for EMS software development companies and their products. The EMS terminology is derived from the health care data standard and has not changed the meaning of the description. Where possible a data standard synonym is used. This information may be used for EMS training purposes or implemented in the EMS software used by EMS.

NEMSIS V3 -	NEMSIS Version 3 -	NEMSIS Version 3 - Procedure				Procedure Explanation of Inclusion Clar: Clarification or example of potential use. SYN: The SNOMED CT
Procedure	Procedure Label by	Example EMS	TTY	SNOMED		synonym for the
Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	description.
Assessment	Assessment: Orthostatic Vital Signs	Orthostatic Vital Signs	PT	425058005	Taking orthostatic vital signs	
Assessment	Assessment: Patient Assessment	Patient Assessment	PT	422618004	Continuous physical assessment	
Cardiac	Cardiac: 3 Lead ECG Obtained	3 Lead ECG Obtained	PT	428803005	3 lead electrocardiographic monitoring	
Cardiac	Cardiac: 12 Lead ECG Obtained	12 Lead ECG Obtained	PT	268400002	12 lead ECG	
Cardiac	Cardiac: 15 Lead ECG Obtained	15 Lead ECG Obtained	PT	429163003	15 lead electrocardiographic monitoring	
Cardiac	Cardiac: 18 Lead ECG Obtained	18 Lead ECG Obtained	PT	425808002	18 lead electrocardiographic monitoring	
Cardiac	Cardiac: Cardiopulmonary	Cardiopulmonary Resuscitation	DT	89666000	Cardionulmonary resuscitation	
	Assessment Assessment Cardiac Cardiac Cardiac	Procedure Category Assessment: Orthostatic Vital Signs Assessment: Patient Assessment Cardiac: 3 Lead ECG Obtained Cardiac: 12 Lead ECG Obtained Cardiac: 15 Lead ECG Obtained Cardiac: 18 Lead ECG Obtained Cardiac: 18 Lead ECG Cardiac Cardiac: Cardiopulmonary	NEMSIS V3 - Procedure Procedure Label by Category Descriptor Assessment: Orthostatic Orthostatic Vital Signs Signs Assessment Patient Assessment Assessment Patient Patient Assessment Cardiac: 3 Lead ECG Cardiac Obtained 3 Lead ECG Obtained Cardiac: 12 Lead ECG 12 Lead ECG Cardiac Obtained Obtained Cardiac: 15 Lead ECG 15 Lead ECG Cardiac Obtained Obtained Cardiac: 18 Lead ECG 18 Lead ECG Cardiac Obtained Cardiace Obtained Cardiac: 18 Lead ECG 18 Lead ECG Cardiac Obtained Cardiace Obtained Cardiac: 18 Lead ECG Cardiopulmonary Resuscitation	NEMSIS V3 - Procedure Procedure Label by Category Category Descriptor Code Assessment: Orthostatic Orthostatic Vital Signs PT Assessment Assessment: Patient Assessment Patient Assessment Patient Assessment Patient Assessment Patient Assessment PT Cardiac: 3 Lead ECG Obtained PT Cardiac: 12 Lead ECG 12 Lead ECG Obtained PT Cardiac: 15 Lead ECG 15 Lead ECG Obtained PT Cardiac: 18 Lead ECG Obtained PT Cardiac: Resuscitation PT	NEMSIS V3 - Procedure Procedure Label by Category Descriptor Code CT Code Assessment: Orthostatic Vital Signs PT 425058005 Assessment: Patient Assessment Patient Assessment Patient Assessment Patient Assessment Patient Assessment Patiend PT 428803005 Cardiac: 3 Lead ECG Obtained PT 428803005 Cardiac: 12 Lead ECG 12 Lead ECG Obtained PT 428803005 Cardiac: 15 Lead ECG 15 Lead ECG Obtained PT 429163003 Cardiac: 18 Lead ECG 18 Lead ECG Obtained PT 429163003 Cardiac: 18 Lead ECG Obtained PT 425808002 Cardiac: 18 Lead ECG Obtained PT 425808002 Cardiac: Cardiopulmonary Resuscitation	NEMSIS V3 - Procedure Procedure Label by Category Descriptor Code CT Code SNOMED CT Description Assessment: Orthostatic Vital Signs Signs PT 425058005 Taking orthostatic vital signs Assessment Patient Assessment Patient Assessment Patient Assessment Obtained PT 428803005 Taking orthostatic vital signs Cardiac: 3 Lead ECG Obtained PT 428803005 Taking orthostatic vital signs 1 Lead ECG Obtained PT 428803005 Taking orthostatic vital signs 3 lead electrocardiographic monitoring monitoring Cardiac: 12 Lead ECG Obtained PT 26840002 12 lead ECG Cardiac: 15 Lead ECG Obtained PT 429163003 monitoring Cardiac: 18 Lead ECG Obtained PT 425808002 monitoring Cardiac: Cardiac: 18 Lead ECG Obtained PT 425808002 monitoring Cardiac: Cardiac: Cardiopulmonary Resuscitation PT 425808002 monitoring

	NIEN ACIC VIO	NEMCIC V	NEMSIS Version 3 -				NED ACIO Manada a 2
	NEMSIS V3 - Procedure	NEMSIS Version 3 - Procedure Label by	Procedure Example EMS	TTY	SNOMED		NEMSIS Version 3 – Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
	Gutege: y	Cardiac: Cardiopulmonary	Cardiopulmonary		0. 0000		Clar: includes thumper,
		Resuscitation (Mechanical	Resuscitation			Mechanically assisted chest	band, vest, plunger
8	Cardiac	Device)	(Mechanical Device)	PT	429283006	compression	devices.
9	Cardiac	Cardiac: Cardioversion	Cardioversion	PT	250980009	Cardioversion	
		Cardiac: Defibrillation	Defibrillation			External ventricular	
10	Cardiac	(Manual)	(Manual)	PT	426220008	defibrillation	
		Cardiac: Intra-Aortic					
		Balloon Pump	Intra-Aortic Balloon			Intraaortic balloon pump	
11	Cardiac	Maintenance	Pump Maintenance	PT	34475007	maintenance	
							Clar: To document the
							maintenance of or
		Cardiac: Left Ventricular	Left Ventricular Assist Device			Circulatory care, machanical	problems with the Ventricular Assist Device
12	Cardiac	Assist Device Maintenance	Maintenance	PT	386237008	Circulatory care: mechanical assist device	(Left or Right)
12	Cardiac	Cardiac: Pacing (External	Pacing (External and	11	360237006	assist device	(Left of Right)
13	Cardiac	and Internal)	Internal)	PT	18590009	Cardiac pacing	
15	Caraiac	Cardiac:	internally		10330003	cardiac pacing	
14	Cardiac	Pericardiocentesis	Pericardiocentesis	PT	309849004	Pericardiocentesis	
15	Cardiac	Cardiac: Precordial Thump	Precordial Thump	PT	225708008	Precordial thump	
16	Cardiac	Cardiac: Vagal Maneuver	Vagal Maneuver	PT	128968000	Vagal stimulation	
		CNS: Epidural Catheter	Epidural Catheter				
17	CNS	Maintenance	Maintenance	PT	424432007	Epidural catheter maintenance	
							Clar: Per NIH this can
		CNS: Intracranial Pressure	Intracranial Pressure			Procedure for monitoring	covers ICP, Subdural
18	CNS	Monitoring	Monitoring	PT	230937006	intracranial pressure	Screw, Epidural Sensor.
						Active compression	
						decompression	
		CDD: Immediance Three deals	I			cardiopulmonary resuscitation	Class CDD with large all to the
19	CPR	CPR: Impedance Threshold Device	Impedance Threshold Device	PT	441893003	with use of inspiratory	Clar: CPR with Impedance Threshold Device
19	CPK	Device	Tiffestiola Device	PI	441693003	impedance threshold device	THESHOLD DEVICE

	NEMSIS V3 -	NEMSIS Version 3 -	NEMSIS Version 3 - Procedure				NEMSIS Version 3 –
	Procedure	Procedure Label by	Example EMS	TTY	SNOMED		Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
		General: Contact Medical	Contact Medical				SYN: Contacting physician;
20	General	Control	Control	PT	304562007	Informing doctor	Physician contact.
21	General	General: Decontamination	Decontamination	PT	409530006	Decontamination	
22	General	General: Eye Irrigation	Eye Irrigation	PT	49999004	Irrigation of eye	
23	General	General: Hypothermia Induction Therapy	Hypothermia Induction Therapy	PT	430189000	Hypothermia induction therapy	Clar: Includes cooled IV fluids.
24	Conoral	General: Monitoring of Preexisting Devices and Interventions	Monitoring of Preexisting Devices and Interventions	PT	192777000	Manitoring of nations	
24	General			PI	182777000	Monitoring of patient	
25	General	General: Patient Cooling (Cold Pack or General)	Patient Cooling (Cold Pack or General)	PT	431774007	Active external cooling of subject	
26	General	General: Patient Warming (Warm Pack or General)	Patient Warming (Warm Pack or General)	PT	431949004	Active external warming of subject	
27	General	General: Restraint Applied (Chemical)	Restraint Applied (Chemical)	PT	406164000	Chemical restraint	
28	General	General: Restraint Applied (Physical)	Restraint Applied (Physical)	PT	386423001	Physical restraint	
29	GI/GU	GI/GU: Nasogastric Tube Insertion	Nasogastric Tube Insertion	PT	87750000	Insertion of nasogastric tube	
30	GI/GU	GI/GU: Gastro Intestinal Tube Maintenance	Gastro Intestinal Tube Maintenance	PT	384745002	Maintenance of gastrointestinal tract tube	Clar: Used to cover maintenance of Oro and Naso gastric tubes.
31	GI/GU	GI/GU: Orogastric Tube Insertion	Orogastric Tube Insertion	PT	235425002	Insertion of orogastric tube	
32	GI/GU	GI/GU: Urinary Catheterization	Urinary Catheterization	PT	410024004	Insertion of catheter into urinary bladder	
33	Movement	Movement: Cervical Collar Applied for Stabilization	Cervical Collar Applied for Stabilization	PT	49689007	Application of cervical collar	

	NEMSIS V3 - Procedure	NEMSIS Version 3 - Procedure Label by	NEMSIS Version 3 - Procedure Example EMS	TTY	SNOMED		NEMSIS Version 3 – Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
34	Musculoskeletal	Musculoskeletal: Pressure Trouser Application	Pressure Trouser Application	РТ	448970001	Application of pressure trouser	
35	Musculoskeletal	Musculoskeletal: Reduction of Dislocated Joint	Reduction of Dislocated Joint	PT	58825001	Closed reduction of dislocation	SYN: Manual reduction of dislocation
36	Musculoskeletal	Musculoskeletal: Spinal Immobilization (Cervical)	Spinal Immobilization (Cervical)	РТ	398041008	Cervical spine immobilization	
37	Musculoskeletal	Musculoskeletal: Spinal Immobilization (Full)	Spinal Immobilization (Full)	PT	426498007	Stabilization of spine	
38	Musculoskeletal	Musculoskeletal: Splinting (General)	Splinting (General)	PT	79321009	Application of splint	
39	Musculoskeletal	Musculoskeletal: Splinting (Pelvic Binder/Sling)	Splinting (Pelvic Binder/Sling)	PT	182556001	Pelvic sling	
40	Musculoskeletal	Musculoskeletal: Splinting (Traction)	Splinting (Traction)	PT	302488007	Application of traction using a traction device	SYN: Application of traction system
41	ОВ	OB: Childbirth	Childbirth	PT	236973005	Delivery procedure	SYN: Birthing procedure
42	ОВ	OB: Fetal Heart Monitor Surveillance	Fetal Heart Monitor Surveillance	PT	36708009	External fetal monitor surveillance	
43	Respiratory	Respiratory: Airway Device Removal	Airway Device Removal	PT	232708009	Removal of device from airway	
44	Respiratory	Respiratory: Airway Opened	Airway Opened	PT	232664002	Manual establishment of airway	Clar: This includes chin lift, jaw thrust, etc.
45	Respiratory	Respiratory: Bagged Ventilations (via Mask)	Bagged Ventilations (via Mask)	PT	425447009	Bag valve mask ventilation	
46	Respiratory	Respiratory: Bagged Ventilations (via Tube)	Bagged Ventilations (via Tube)	PT	243140006	Lung inflation by intermittent compression of reservoir bag	SYN: Hand Bagging
47	Respiratory	Respiratory: BiPAP	BiPAP	PT	243142003	Dual pressure spontaneous ventilation support	SYN: BIPAP - Biphasic pressure airway support
48	Respiratory	Respiratory: Chest Decompression	Chest Decompression	PT	182705007	Tension pneumothorax relief	

	NEMSIS V3 -	NEMSIS Version 3 -	NEMSIS Version 3 - Procedure				NEMSIS Version 3 –
	Procedure	Procedure Label by	Example EMS	TTY	SNOMED	CNIONATE CT Description	Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
		Danimata www. Chart Tulba					SYN: Insertion of chest
49	Respiratory	Respiratory: Chest Tube Insertion	Chest Tube Insertion	PT	264957007	Insertion of pleural tube drain	tube; Insertion of chest drain; Tube thoracostomy
.5	respiratory	Respiratory: Chest Tube	Chest Tube		201337007	moention or predict case drain	SYN: Maintenance of
50	Respiratory	Maintenance	Maintenance	PT	55628002	Maintenance of thoracic drain	chest tube
51	Respiratory	Respiratory: CPAP	СРАР	PT	47545007	Continuous positive airway pressure ventilation treatment	SYN: CPAP treatment; CPAP - Continuous positive airways pressure
52	Respiratory	Respiratory: Cricoid Pressure Applied	Cricoid Pressure Applied	PT	241726007	Application of cricoid pressure	SYN: Sellick's maneuver
32	пезриатогу	i i	Арріїси	'''	241720007	Application of cheola pressure	STIV. SCHICK'S HIGHCOVEL
		Respiratory: Cricothyrotomy (Dilation	Cricothyrotomy			Percutaneous dilatational	
53	Respiratory	Device)	(Dilation Device)	PT	232690004	cricothyroidotomy	
54	Respiratory	Respiratory: Cricothyrotomy (Needle)	Cricothyrotomy (Needle)	PT	232689008	Percutaneous cricothyroidotomy	
55	Respiratory	Respiratory: Cricothyrotomy (Surgical)	Cricothyrotomy (Surgical)	PT	232692007	Open cricothyroidotomy	
56	Respiratory	Respiratory: ETCO2 Colorimetric Detection	ETCO2 Colorimetric Detection	PT	428482009	Colorimetric respired carbon dioxide monitoring	
57	Respiratory	Respiratory: ETCO2 Digital Capnography	ETCO2 Digital Capnography	PT	425543005	Digital respired carbon dioxide monitoring	
58	Respiratory	Respiratory: Foreign Body Removal	Foreign Body Removal	PT	232707004	Removal of foreign body from airway	
59	Respiratory	Respiratory: Heimlich Maneuver	Heimlich Maneuver	PT	23690002	Heimlich maneuver	
60	Respiratory	Respiratory: Intubation (Existing Tracheostomy Stoma)	Intubation (Existing Tracheostomy Stoma)	PT	232685002	Insertion of tracheostomy tube	
61	Respiratory	Respiratory: Intubation (Nasotracheal)	Intubation (Nasotracheal)	PT	232679009	Nasotracheal intubation	

			NEMSIS Version 3 -				
	NEMSIS V3 -	NEMSIS Version 3 -	Procedure				NEMSIS Version 3 –
	Procedure	Procedure Label by	Example EMS	TTY	SNOMED		Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
			Intubation				
		Respiratory: Intubation	(Orotracheal				
		(Orotracheal Through	Through Laryngeal			Tracheal intubation through a	
62	Respiratory	Laryngeal Mask Airway)	Mask Airway)	PT	418613003	laryngeal mask airway	
		Respiratory: Intubation	Intubation				
63	Respiratory	(Orotracheal)	(Orotracheal)	PT	232674004	Orotracheal intubation	
		Respiratory: Intubation	Intubation (Rapid				
64	Respiratory	(Rapid Sequence)	Sequence)	PT	241689008	Rapid sequence induction	
							Clar: Intubation with
							esophageal bougie type
							device.
							SYN: Endotracheal or
		Respiratory: Intubation	Intubation using				endobronchial tube
		using exchange catheter	exchange catheter to			Airway exchange catheter	change over tube
65	Respiratory	to place invasive airway	place invasive airway	PT	397874007	procedure	exchange catheter
		Respiratory: Laryngeal	Laryngeal Mask				SYN: LMA - Laryngeal
66	Respiratory	Mask Airway Insertion	Airway Insertion	PT	424979004	Laryngeal mask airway insertion	mask airway insertion
		Respiratory: Laryngoscopy	Laryngoscopy				
67	Respiratory	(Direct)	(Direct)	PT	78121007	Direct laryngoscopy	
	,	Respiratory: Laryngoscopy	Laryngoscopy			, 9 .,	
68	Respiratory	(Indirect)	(Indirect)	PT	673005	Indirect laryngoscopy	
		(Mouth-to-				
		Respiratory: Mouth-to-	Mask/Mouth				
69	Respiratory	Mask/Mouth Ventilation	Ventilation	PT	243180002	Expired air ventilation	
03	Respiratory		ventilation	- 1	243100002	Expired all Veritilation	
		Respiratory:	Nacanhamasaal			Nasanhammaaalaimusu	
70	Dosnirotom	Nasopharyngeal Airway	Nasopharyngeal	DT	102602007	Nasopharyngeal airway	
70	Respiratory	Insertion	Airway Insertion	PT	182692007	insertion	
		Respiratory: Obturator	Obturator Airway		2225-225-		
71	Respiratory	Airway (EOA) Insertion	Insertion (EOA)	PT	232673005	Obturator airway insertion	
		Respiratory:					
	Beerlest	Oropharyngeal Airway	Oropharyngeal	D.T.	7442007	Insertion of oropharyngeal	
72	Respiratory	Insertion	Airway Insertion	PT	7443007	airway	

			NEMSIS Version 3 -				
	NEMSIS V3 -	NEMSIS Version 3 -	Procedure				NEMSIS Version 3 –
	Procedure	Procedure Label by	Example EMS	TTY	SNOMED		Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
						Positive end expiratory pressure	SYN: PEEP therapy;
						ventilation therapy, initiation	Positive end expiratory
73	Respiratory	Respiratory: PEEP Applied	PEEP Applied	PT	45851008	and management	pressure applied.
		Respiratory: Retrograde	Retrograde				
74	Respiratory	Intubation	Intubation	PT	397892004	Retrograde intubation	
		Respiratory: Suction					
75	Respiratory	Airway	Suction Airway	PT	230040009	Airway suction technique	SYN: Airway suctioning
		Respiratory: Supraglottic	Supraglottic Airway			Insertion of esophageal tracheal	
		Airway Insertion (Double	Insertion (Double			double lumen supraglottic	
76	Respiratory	Lumen)	Lumen)	PT	427753009	airway	
		Respiratory:					
		Tracheostomy Tube	Tracheostomy Tube				
77	Respiratory	Change	Change	PT	2267008	Changing tracheostomy tube	
		Respiratory: Transtracheal	Transtracheal Jet				
78	Respiratory	Jet Insufflation	Insufflation	PT	448442005	Transtracheal jet ventilation	
		Respiratory: Ventilator	Ventilator Care and				
79	Respiratory	Care and Adjustment	Adjustment	PT	385857005	Ventilator care and adjustment	
80	Soft Tissue	Soft Tissue: Burn Care	Burn Care	PT	133901003	Burn care	
81	Soft Tissue	Soft Tissue: Escharotomy	Escharotomy	PT	70177008	Escharotomy	
		Soft Tissue: General					
82	Soft Tissue	Wound Care	General Wound Care	PT	225358003	Wound care	
		Soft Tissue: Hemostatic	Hemostatic Agent			Application of chemical	
83	Soft Tissue	Agent Application	Application	PT	372045002	hemostatic agents	
		Soft Tissue: Occlusive	Occlusive Dressing			Application of dressing,	
84	Soft Tissue	Dressing Application	Application	PT	22206003	occlusive plastic	
0-4	3010 113300		• •		2220000	•	
OF	Soft Tissue	Soft Tissue: Pressure	Pressure Dressing	DT	26006007	Application of dressing,	
85	Soft Tissue	Dressing Application	Application	PT	26906007	pressure	
	o 6: =:	Soft Tissue: Tourniquet	Tourniquet				
86	Soft Tissue	Application	Application	PT	20655006	Application of tourniquet	

	NEMSIS V3 -	NEMSIS Version 3 -	NEMSIS Version 3 - Procedure				NEMSIS Version 3 –
	Procedure	Procedure Label by	Example EMS	TTY	SNOMED		Procedure
	Category	Category	Descriptor	Code	CT Code	SNOMED CT Description	Explanation of Inclusion
		Soft Tissue: Wound					
87	Soft Tissue	Irrigation	Wound Irrigation	PT	225116006	Irrigation of wound	
							SYN: Arterial line
		 Vascular: Arterial					insertion; Arterial catheterization;
88	Vascular	Cannulation	Arterial Cannulation	PT	392247006	Insertion of catheter into artery	Catheterization;
- 00	Vasculai		Arterial Camillation		332247000	macrition of eatherer into artery	Catheterization of artery
		Vascular: Arterial Cannulation (Femoral	Arterial Cannulation			Femoral artery cannula	
89	Vascular	Artery)	(Femoral Artery)	PT	233516009	insertion	
		Vascular: Arterial	(
		Cannulation (Umbilical	Arterial Cannulation			Umbilical artery cannula	
90	Vascular	Artery)	(Umbilical Artery)	PT	233519002	insertion	
		Vascular: Arterial Line	Arterial Line				
91	Vascular	Maintenance	Maintenance	PT	422744007	Arterial catheter care	SYN: Arterial line care
		Vascular: Arterial Line	Arterial Line			Arterial pressure monitoring,	
92	Vascular	Monitoring	Monitoring	PT	77938009	invasive method	
						Arterial puncture for	
93	Vascular	Vascular: Arterial Puncture for Blood Draw	Arterial Puncture for Blood Draw	PT	55841001	withdrawal of blood for	
93	Vascular			PI	55841001	diagnosis	
94	Vascular	Vascular: Central Line Maintenance	Central Line Maintenance	PT	226005007	Care of central line	
34	Vasculai	Vascular: Central Venous	Central Venous	11	220003007		
95	Vascular	Pressure Monitoring	Pressure Monitoring	PT	86265008	Central venous pressure monitoring	SYN: CVP monitoring
		Vascular: External Jugular	External Jugular Vein		23203000	Catheterization of external	
96	Vascular	Vein Catheterization	Catheterization	PT	405427009	jugular vein	
		Vascular: Extremity Vein	Extremity Vein				
97	Vascular	Catheterization	Catheterization	PT	392230005	Catheterization of vein	
		Vascular: Femoral Vein	Femoral Vein		_	Catheterization of common	
98	Vascular	Catheterization	Catheterization	PT	405442007	femoral vein	

	NEMSIS V3 - Procedure Category	NEMSIS Version 3 - Procedure Label by Category	NEMSIS Version 3 - Procedure Example EMS Descriptor	TTY Code	SNOMED CT Code	SNOMED CT Description	NEMSIS Version 3 – Procedure Explanation of Inclusion
99	Vascular	Vascular: Intraosseous Cannulation	Intraosseous Cannulation	PT	430824005	Intraosseous cannulation	
100	Vascular	Vascular: Scalp Vein Catheterization	Scalp Vein Catheterization	PT	233526002	Peripheral venous cannula insertion - scalp	
101	Vascular	Vascular: Subclavian Vein Catheterization	Subclavian Vein Catheterization	РТ	405430002	Catheterization of subclavian vein	
102	Vascular	Vascular: Swan Ganz (PA Wedge Pressure) Monitoring	Swan Ganz (PA Wedge Pressure) Monitoring	PT	42340005	Pulmonary artery wedge pressure monitoring	
103	Vascular	Vascular: Umbilical Vein Catheterization	Umbilical Vein Catheterization	PT	42550007	Catheterization of umbilical vein	
104	Vascular	Vascular: Venous Catheter Removal	Venous Catheter Removal	PT	424287005	Removal of peripheral intravenous catheter	SYN: Discontinue peripheral intravenous catheter
105	Vascular	Vascular: Venous Puncture for Blood Draw	Venous Puncture for Blood Draw	PT	396540005	Phlebotomy	SYN: Blood Draw; Venous blood draw