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

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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 | DN Display Name | | 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).

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|---|-----------------------|----------------------------------------------------|----------------------------------------------|-------------|-------------------|-----------------------------------------------|------------------------------------------------|
| 1 | Assessment | Assessment: Orthostatic Vital Signs | Orthostatic Vital Signs | PT | 425058005 | Taking orthostatic vital signs | |
| 2 | Assessment | Assessment: Patient Assessment | Patient Assessment | PT | 422618004 | Continuous physical assessment | |
| 3 | Cardiac | Cardiac: 3 Lead ECG Obtained | 3 Lead ECG Obtained | PT | 428803005 | 3 lead electrocardiographic monitoring | |
| 4 | Cardiac | Cardiac: 12 Lead ECG Obtained | 12 Lead ECG Obtained | PT | 268400002 | 12 lead ECG | |
| 5 | Cardiac | Cardiac: 15 Lead ECG Obtained | 15 Lead ECG Obtained | PT | 429163003 | 15 lead electrocardiographic monitoring | |
| 6 | Cardiac | Cardiac: 18 Lead ECG Obtained | 18 Lead ECG Obtained | PT | 425808002 | 18 lead electrocardiographic monitoring | |
| 7 | Cardiac | Cardiac: Cardiopulmonary Resuscitation (Manual) | Cardiopulmonary Resuscitation (Manual) | PT | 89666000 | Cardiopulmonary resuscitation | |

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|----|-----------------------|------------------------------------------------------------------|---------------------------------------------------------|-------------|-------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 8 | Cardiac | Cardiac: Cardiopulmonary Resuscitation (Mechanical Device) | Cardiopulmonary Resuscitation (Mechanical Device) | PT | 429283006 | Mechanically assisted chest compression | Clarification: includes thumper, band, vest, plunger devices. |
| 9 | Cardiac | Cardiac: Cardioversion | Cardioversion | PT | 250980009 | Cardioversion | |
| 10 | Cardiac | Cardiac: Defibrillation (Manual) | Defibrillation (Manual) | PT | 426220008 | External ventricular defibrillation | |
| 11 | Cardiac | Cardiac: Intra-Aortic Balloon Pump Maintenance | Intra-Aortic Balloon Pump Maintenance | PT | 34475007 | Intraaortic balloon pump maintenance | |
| 12 | Cardiac | Cardiac: Left Ventricular Assist Device Maintenance | Left Ventricular Assist Device Maintenance | PT | 386237008 | Circulatory care: mechanical assist device | Descr: To document the maintenance of or problems with the Ventricular Assist Device (Left or Right) |
| 13 | Cardiac | Cardiac: Pacing (External and Internal) | Pacing (External and Internal) | PT | 18590009 | Cardiac pacing | |
| 14 | Cardiac | 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 | |
| 17 | CNS | CNS: Epidural Catheter Maintenance | Epidural Catheter Maintenance | PT | 424432007 | Epidural catheter maintenance | |
| 18 | CNS | CNS: Intracranial Pressure Monitoring | Intracranial Pressure Monitoring | PT | 230937006 | Procedure for monitoring intracranial pressure | Clarification: Per NIH this can covers ICP, Subdural Screw, Epidural Sensor. |
| 19 | CPR | CPR: Impedance Threshold Device | Impedance Threshold Device | PT | 441893003 | Active compression decompression cardiopulmonary resuscitation with use of inspiratory impedance threshold device | Descr: CPR with Impedance Threshold Device |
| 20 | General | General: Contact Medical Control | Contact Medical Control | PT | 304562007 | Informing doctor | AKA/SY: Contacting physician |

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|----|-----------------------|--------------------------------------------------------------------|-----------------------------------------------------------|-------------|-------------------|-----------------------------------------------|-------------------------------------------------------------------------|
| 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 | Clarification: Includes cooled IV fluids. |
| 24 | General | General: Monitoring of Preexisting Devices and Interventions | Monitoring of Preexisting Devices and Interventions | PT | 182777000 | Monitoring of patient | |
| 25 | General | General: Patient Cooling (Cold Pack or General) | Patient Cooling (Cold Pack or General) | РТ | 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 | Clarification: 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 | 182705007 | Application of cervical collar | |
| 34 | Musculoskeletal | Musculoskeletal: Pressure Trouser Application | Pressure Trouser Application | PT | 448970001 | Application of pressure trouser | |

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|----|-----------------------|------------------------------------------------------|-------------------------------------|-------------|-------------------|-------------------------------------------------------------|----------------------------------------------------------|
| 35 | Musculoskeletal | Musculoskeletal: Reduction of Dislocated Joint | Reduction of Dislocated Joint | PT | 58825001 | Closed reduction of dislocation | AKA/SY: Manual reduction of dislocation |
| 36 | Musculoskeletal | Musculoskeletal: Spinal Immobilization (Cervical) | Spinal Immobilization (Cervical) | PT | 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 | Clarification: 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 | AKA/SY: Hand Bagging |
| 47 | Respiratory | Respiratory: BiPAP | BiPAP | PT | 243142003 | Dual pressure spontaneous ventilation support | AKA/SY: BIPAP - Biphasic pressure airway support |
| 48 | Respiratory | Respiratory: Chest Decompression | Chest Decompression | PT | 182705007 | Tension pneumothorax relief | |

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|----|-----------------------|-------------------------------------------------------------|------------------------------------------------|-------------|-------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 49 | Respiratory | Respiratory: Chest Tube Insertion | Chest Tube Insertion | PT | 264957007 | Insertion of pleural tube drain | AKA/SY: Insertion of chest tube; Insertion of chest drain; Tube thoracostomy |
| 50 | Respiratory | Respiratory: Chest Tube Maintenance | Chest Tube Maintenance | PT | 55628002 | Maintenance of thoracic drain | AKA/SY: Maintenance of chest tube |
| 51 | Respiratory | Respiratory: CPAP Respiratory: Cricoid | CPAP Cricoid Pressure | PT | 47545007 | Continuous positive airway pressure ventilation treatment | AKA/SY: CPAP treatment; CPAP - Continuous positive airways pressure AKA/SY: Sellick's |
| 52 | Respiratory | Pressure Applied | Applied | PT | 241726007 | Application of cricoid pressure | maneuver |
| 53 | Respiratory | Respiratory: Cricothyrotomy (Dilation Device) | Cricothyrotomy (Dilation Device) | PT | 232690004 | Percutaneous dilatational 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 | |

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|----|-----------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-------------|-------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 62 | Respiratory | Respiratory: Intubation (Orotracheal Through Laryngeal Mask Airway) | Intubation (Orotracheal Through Laryngeal Mask Airway) | PT | 418613003 | Tracheal intubation through a laryngeal mask airway | |
| 63 | Respiratory | Respiratory: Intubation (Orotracheal) | Intubation (Orotracheal) | PT | 232674004 | Orotracheal intubation | |
| 64 | Respiratory | Respiratory: Intubation (Rapid Sequence) | Intubation (Rapid Sequence) | PT | 241689008 | Rapid sequence induction | |
| 65 | Respiratory | Respiratory: Intubation using exchange catheter to place invasive airway | Intubation using exchange catheter to place invasive airway | PT | 397874007 | Airway exchange catheter procedure | Clarification: Intubation with esophageal bougie type device. SYN: Endotracheal or endobronchial tube change over tube exchange catheter |
| 66 | Respiratory | Respiratory: Laryngeal Mask Airway Insertion | Laryngeal Mask Airway Insertion | PT | 424979004 | Laryngeal mask airway insertion | AKA/SY: LMA - Laryngeal mask airway insertion |
| 67 | Respiratory | Respiratory: Laryngoscopy (Direct) | Laryngoscopy (Direct) | PT | 78121007 | Direct laryngoscopy | |
| 68 | Respiratory | Respiratory: Laryngoscopy (Indirect) | Laryngoscopy (Indirect) | PT | 673005 | Indirect laryngoscopy | |
| 69 | Respiratory | Respiratory: Mouth-to- Mask/Mouth Ventilation Respiratory: | Mouth-to- Mask/Mouth Ventilation | PT | 243180002 | Expired air ventilation | |
| 70 | Respiratory | Nasopharyngeal Airway Insertion | Nasopharyngeal Airway Insertion | PT | 182692007 | Nasopharyngeal airway insertion | |
| 71 | Respiratory | Respiratory: Obturator Airway (EOA) Insertion | Obturator Airway Insertion (EOA) | PT | 232673005 | Obturator airway insertion | |
| 72 | Respiratory | Respiratory: Oropharyngeal Airway Insertion | Oropharyngeal Airway Insertion | PT | 7443007 | Insertion of oropharyngeal airway | |

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|----|-----------------------|-----------------------------------------------------------------|----------------------------------------------------|-------------|-------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
| 73 | Respiratory | Respiratory: PEEP Applied | PEEP Applied | PT | 45851008 | Positive end expiratory pressure ventilation therapy, initiation and management | SYN: PEEP therapy; Positive end expiratory pressure applied. |
| 74 | Respiratory | Respiratory: Retrograde Intubation | Retrograde Intubation | PT | 397892004 | Retrograde intubation | |
| 75 | Respiratory | Respiratory: Suction Airway | Suction Airway | PT | 230040009 | Airway suction technique | AKA/SY: Airway suctioning |
| 76 | Respiratory | Respiratory: Supraglottic Airway Insertion (Double Lumen) | Supraglottic Airway Insertion (Double Lumen) | PT | 427753009 | Insertion of esophageal tracheal double lumen supraglottic airway | |
| 77 | Respiratory | Respiratory: Tracheostomy Tube Change | Tracheostomy Tube Change | PT | 2267008 | Changing tracheostomy tube | |
| 78 | Respiratory | Respiratory: Transtracheal Jet Insufflation | Transtracheal Jet Insufflation | PT | 448442005 | Transtracheal jet ventilation | |
| 79 | Respiratory | Respiratory: Ventilator Care and Adjustment | Ventilator Care and 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 | |
| 82 | Soft Tissue | Soft Tissue: General Wound Care | General Wound Care | PT | 225358003 | Wound care | |
| 83 | Soft Tissue | Soft Tissue: Hemostatic Agent Application | Hemostatic Agent Application | PT | 372045002 | Application of chemical hemostatic agents | |
| 84 | Soft Tissue | Soft Tissue: Occlusive Dressing Application | Occlusive Dressing Application | PT | 22206003 | Application of dressing, occlusive plastic | |
| 85 | Soft Tissue | Soft Tissue: Pressure Dressing Application | Pressure Dressing Application | PT | 26906007 | Application of dressing, pressure | |
| 86 | Soft Tissue | Soft Tissue: Tourniquet Application | Tourniquet Application | PT | 20655006 | Application of tourniquet | |
| 87 | Soft Tissue | Soft Tissue: Wound Irrigation | Wound Irrigation | PT | 225116006 | Irrigation of wound | |

| | Procedure | Procedure Label by | Suggested Procedure | TTY | SNOMED | NEMSIS Version 3 SNOMED | NEMSIS Version 3 - |
|-----|-----------|-----------------------------|-----------------------|------|-----------|-----------------------------------|----------------------------|
| | Category | Category | Label | Code | CT Code | Procedure Description | Explanation of Inclusion |
| | | | | | | | SYN: Arterial line |
| | | | | | | | insertion; Arterial |
| | | Vascular: Arterial | | | | | catheterization; |
| 88 | Vascular | Cannulation | Arterial Cannulation | PT | 392247006 | Insertion of catheter 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 | AKA/SY: Arterial line care |
| | | Vascular: Arterial Line | Arterial Line | | | Arterial pressure monitoring, | |
| 92 | Vascular | Monitoring | Monitoring | PT | 77938009 | invasive method | |
| | | | | | | Arterial puncture for | |
| | | Vascular: Arterial Puncture | Arterial Puncture for | | | withdrawal of blood for | |
| 93 | Vascular | for Blood Draw | Blood Draw | PT | 55841001 | diagnosis | |
| | | Vascular: Central Line | Central Line | | | | |
| 94 | Vascular | Maintenance | Maintenance | PT | 226005007 | Care of central line | |
| | | Vascular: Central Venous | Central Venous | | | Central venous pressure | |
| 95 | Vascular | Pressure Monitoring | Pressure Monitoring | PT | 86265008 | monitoring | SYN: CVP monitoring |
| | | Vascular: External Jugular | External Jugular Vein | | | 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 | |
| | | Vascular: Intraosseous | Intraosseous | | | | |
| 99 | Vascular | Cannulation | Cannulation | PT | 430824005 | Intraosseous cannulation | |
| | | Vascular: Scalp Vein | Scalp Vein | | | Peripheral venous cannula | |
| 100 | Vascular | Catheterization | Catheterization | PT | 233526002 | insertion - scalp | |

| | Procedure Category | Procedure Label by Category | Suggested Procedure Label | TTY Code | SNOMED CT Code | NEMSIS Version 3 SNOMED Procedure Description | NEMSIS Version 3 - Explanation of Inclusion |
|-----|-----------------------|--------------------------------|------------------------------|-------------|-------------------|-----------------------------------------------|------------------------------------------------|
| | | Vascular: Subclavian Vein | Subclavian Vein | | | Catheterization of subclavian | |
| 101 | Vascular | Catheterization | Catheterization | PT | 405430002 | vein | |
| | | Vascular: Swan Ganz (PA | Swan Ganz (PA | | | | |
| | | Wedge Pressure) | Wedge Pressure) | | | Pulmonary artery wedge | |
| 102 | Vascular | Monitoring | Monitoring | PT | 42340005 | pressure monitoring | |
| | | Vascular: Umbilical Vein | Umbilical Vein | | | Catheterization of umbilical | |
| 103 | Vascular | Catheterization | Catheterization | PT | 42550007 | vein | |
| | | | | | | | SYN: Discontinue |
| | | Vascular: Venous Catheter | Venous Catheter | | | Removal of peripheral | peripheral intravenous |
| 104 | Vascular | Removal | Removal | PT | 424287005 | intravenous catheter | catheter |
| | | Vascular: Venous Puncture | Venous Puncture for | | | | ADA/SY: Blood Draw; |
| 105 | Vascular | for Blood Draw | Blood Draw | PT | 396540005 | Phlebotomy | Venous blood draw |