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# ICD-10-PCS

## EXPERT

Inpatient Procedure Codes for Facilities



2027

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# Official Conventions and Additional Conventions Specific to This ICD-10-PCS Book

This code book includes the procedure code set from the International Classification of Diseases, 10<sup>th</sup> Revision, Procedure Coding System (ICD-10-PCS). Hospitals and third-party payers use these codes to classify inpatient procedures.

## Official Conventions

### Index

Refer to the ICD-10-PCS Index to identify the appropriate Tables in the code book. The Index mirrors the structure of the Tables, so it follows a consistent pattern of organization and use of hierarchies. The Index is organized as an alphabetic lookup.

Two types of main terms are listed in the Index:

- Those based on the value of the third character, such as a root operations (excision, insertion)
- Those listing common procedures, body parts, technology, and drugs

### Main Terms

For the Medical and Surgical and related sections, the root operation values are used as main terms in the Index. In other sections, the values representing the general type of procedure performed, such as nuclear medicine or imaging type, are listed as main terms.

For the Medical and Surgical and related sections, values such as Excision, Bypass, and Transplantation are included as main terms in the Index. The applicable body system entries are listed beneath the main term and refer to a specific table. For the ancillary sections, values such as Fluoroscopy and Positron Emission Tomography, are listed as main terms.

To find the code to cross-reference to the Tables, search for the root operation for the procedure in the Index, followed by

the subterm for the anatomic site or the subterm that further describes the procedure. Locate the partial code, and cross-reference it to the Table that matches the first three characters of the code.

### 'See' Reference

The *see* reference directs you to go elsewhere in the Index to find the root operation that you need.

### 'Use' Reference

The *use* reference directs you to a character value selection as an additional reference.

## Tables

The Tables are organized in alphanumeric order in a series by Section, which is the first character of a code. Tables that begin with 0 to 9 are listed first, then Tables beginning with B-D, and then finally letters F-X.

The same convention is followed within each Table for the second through the seventh characters — numeric values in order first, followed by alphabetical values.

The Medical and Surgical section (first character 0) is organized by body system values. Each body system subdivision in the Medical and Surgical section contains Tables that list the valid root operations for that body system. These are the root operation Tables that form the system. These Tables provide the valid choices of values available to construct a code.

The root operation Tables consist of four columns and a varying number of rows, as in the following example of the root operation Insertion, in the Subcutaneous Tissue and Fascia body system.

#### Section: 0 Medical and Surgical

#### Body System: J Subcutaneous Tissue and Fascia

#### Operation: H Insertion

Body Part	Approach	Device	Qualifier
Character 4	Character 5	Character 6	Character 7
<b>S</b> Subcutaneous Tissue and Fascia, Head and Neck <b>V</b> Subcutaneous Tissue and Fascia, Upper Extremity <b>W</b> Subcutaneous Tissue and Fascia, Lower Extremity	<b>0</b> Open <b>3</b> Percutaneous	<b>1</b> Radioactive Element <b>3</b> Infusion Device <b>Y</b> Other Device	<b>Z</b> No Qualifier
<b>T</b> Subcutaneous Tissue and Fascia, Trunk	<b>0</b> Open <b>3</b> Percutaneous	<b>1</b> Radioactive Element <b>3</b> Infusion Device <b>V</b> Infusion Device, Pump <b>Y</b> Other Device	<b>Z</b> No Qualifier

## Conventions

**A1**  
ICD-10-PCS codes are composed of seven characters. Each character is an axis of classification that specifies information about the procedure performed. Within a defined code range, a character specifies the same type of information in that axis of classification.

*Example:* The fifth axis of classification specifies the approach in sections 0 through 4 and 7 through 9 of the system.

**A2**  
One of 34 possible values can be assigned to each axis of classification in the seven-character code: they are the numbers 0 through 9 and the alphabet (except I and O because they are easily confused with the numbers 1 and 0). The number of unique values used in an axis of classification differs as needed.

*Example:* Where the fifth axis of classification specifies the approach, seven different approach values are currently used to specify the approach.

**A3**  
The valid values for an axis of classification can be added to as needed.

*Example:* If a significantly distinct type of device is used in a new procedure, a new device value can be added to the system.

**A4**  
As with words in their context, the meaning of any single value is a combination of its axis of classification and any preceding values on which it may be dependent.

*Example:* The meaning of a body part value in the Medical and Surgical section is always dependent on the body system value. The body part value 0 in the Central Nervous body system specifies Brain and the body part value 0 in the Peripheral Nervous body system specifies Cervical Plexus.

**A5**  
As the system is expanded to become increasingly detailed, over time more values will depend on preceding values for their meaning.

*Example:* In the Lower Joints body system, the device value 3 in the root operation Insertion specifies Infusion Device and the device value 3 in the root operation Replacement specifies Ceramic Synthetic Substitute.

**Section:** 0 Medical and Surgical  
**Body System:** J Subcutaneous Tissue and Fascia  
**Operation:** H Insertion: Putting in a nonbiological appliance that monitors, assists, performs, or prevents a physiological function but does not physically take the place of a body part

**A6**  
The purpose of the alphabetic index is to locate the appropriate table that contains all information necessary to construct a procedure code. The PCS Tables should always be consulted to find the most appropriate valid code.

**A7**  
It is not required to consult the index first before proceeding to the tables to complete the code. A valid code may be chosen directly from the tables.

**A8**  
All seven characters must be specified to be a valid code. If the documentation is incomplete for coding purposes, the physician should be queried for the necessary information.

**A9**  
Within a PCS table, valid codes include all combinations of choices in characters 4 through 7 contained in the same row of the table. In the example below, 0JHT3VZ is a valid code, and 0JHW3VZ is *not* a valid code.

**A10**  
“And,” when used in a code description, means “and/or,” except when used to describe a combination of multiple body parts for which separate values exist for each body part (e.g., Skin and Subcutaneous Tissue used as a qualifier, where there are separate body part values for “Skin” and “Subcutaneous Tissue”).

*Example:* Lower Arm and Wrist Muscle means lower arm and/or wrist muscle.

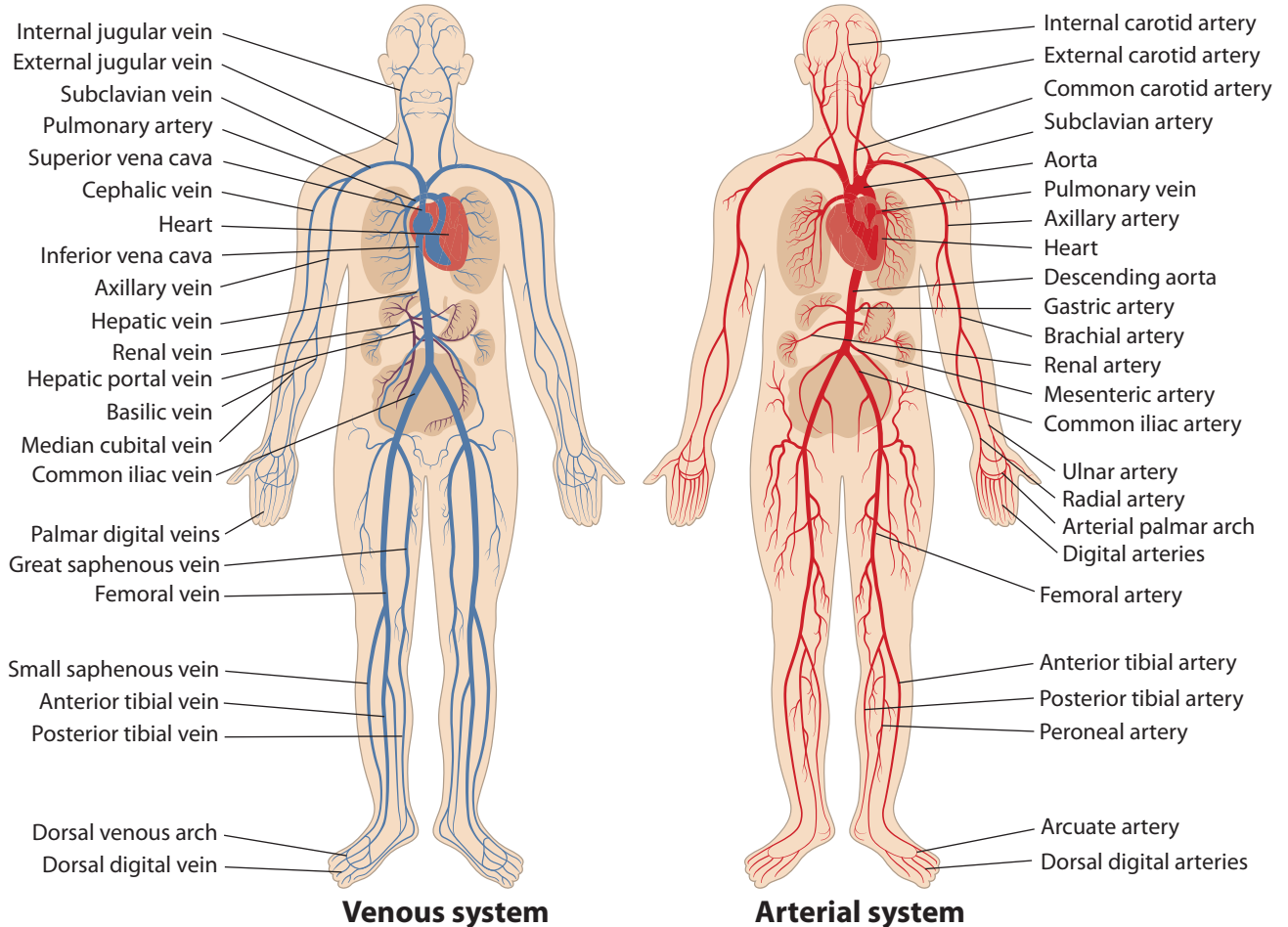
**A11**  
Many of the terms used to construct PCS codes are defined within the system. It is the coder’s responsibility to determine what the documentation in the medical record equates to in the PCS definitions. The physician is not expected to use the terms used in PCS code descriptions, nor is the coder required to query the physician when the correlation between the documentation and the defined PCS terms is clear.

*Example:* When the physician documents “partial resection” the coder can independently correlate “partial resection” to the root operation Excision without querying the physician for clarification.

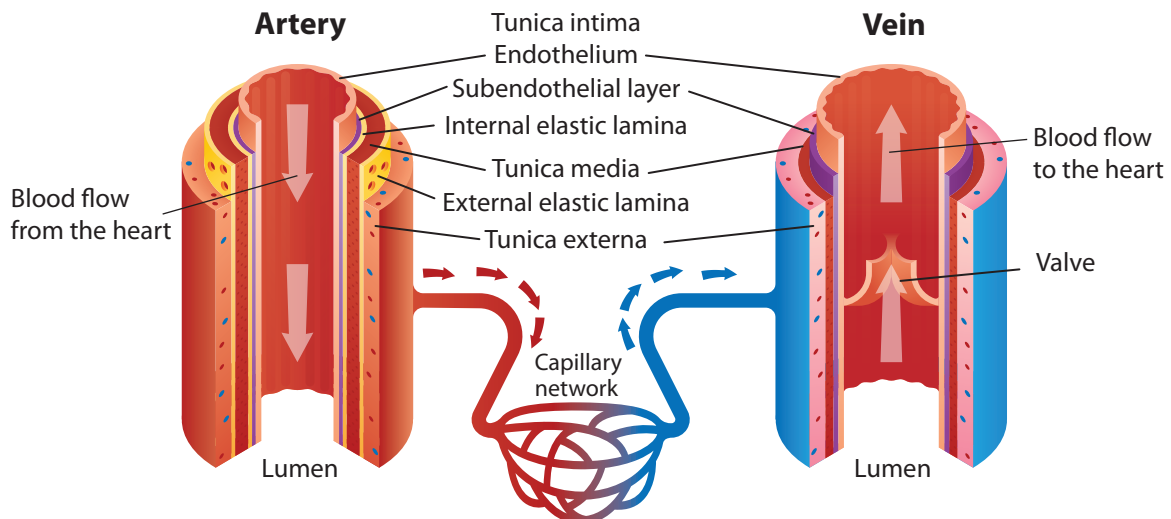
Body Part	Approach	Device	Qualifier
S Subcutaneous Tissue and Fascia, Head and Neck	0 Open	1 Radioactive Element	Z No Qualifier
V Subcutaneous Tissue and Fascia, Upper Extremity	3 Percutaneous	3 Infusion Device	
W Subcutaneous Tissue and Fascia, Lower Extremity		Y Other Device	
T Subcutaneous Tissue and Fascia, Trunk	0 Open	1 Radioactive Element	Z No Qualifier
	3 Percutaneous	3 Infusion Device	
		V Infusion Pump	
		Y Other Device	

# Anatomical Illustrations

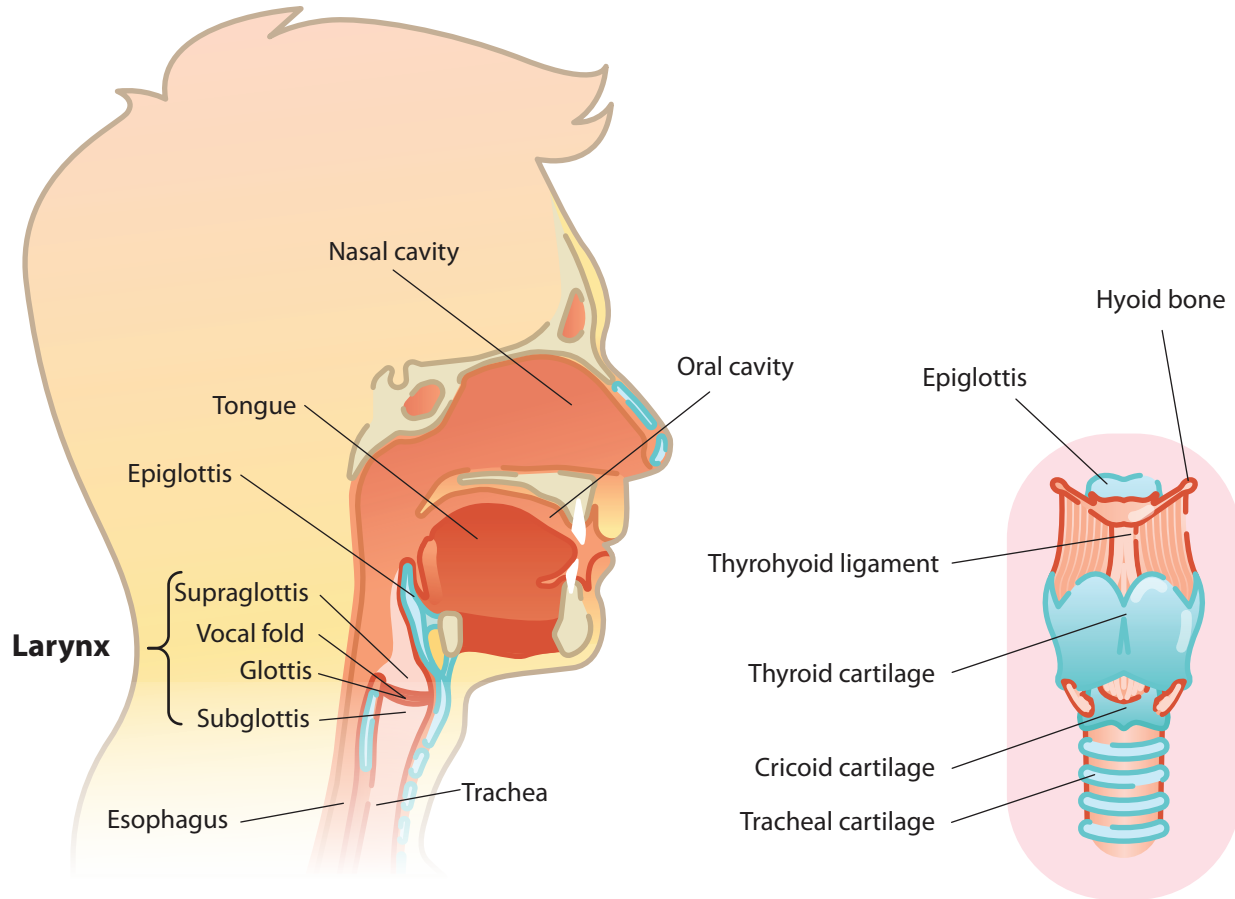
## Circulatory System — Arteries and Veins



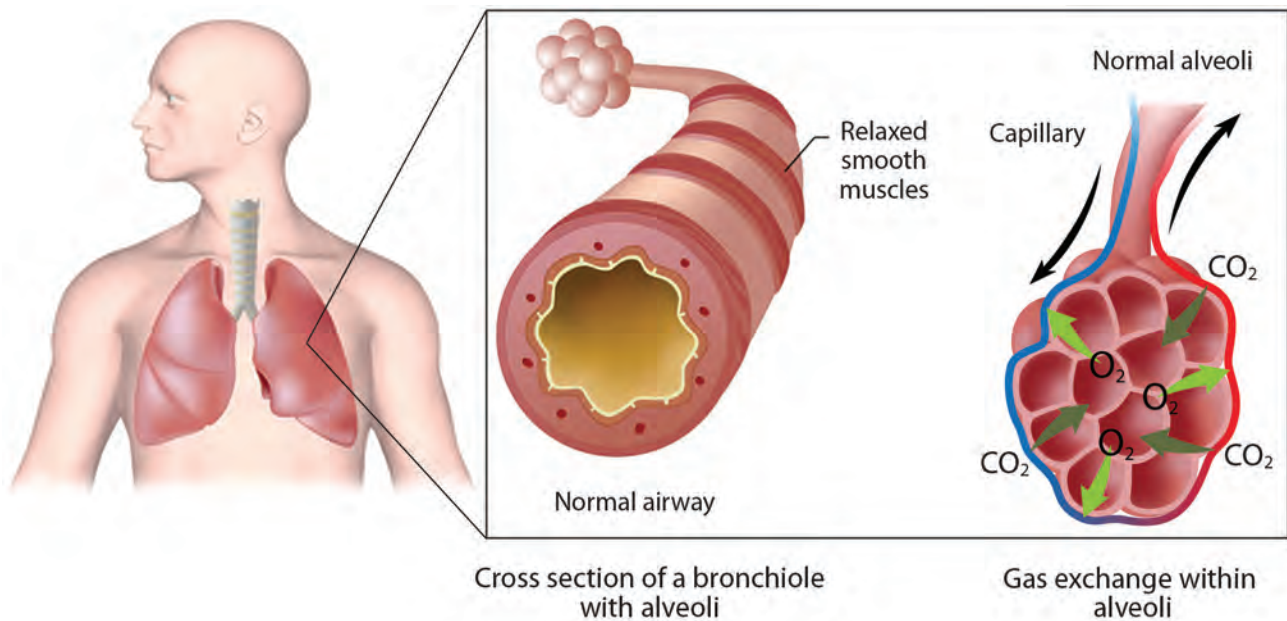
## Circulatory System — Artery and Vein Anatomy



# Respiratory System — Larynx Anatomy



# Respiratory System — Lung Function



# ICD-10-PCS Index

## 3

- 3f (Aortic) Bioprosthesis valve**  
*use* Zooplastic Tissue in Heart and Great Vessels
- 3M™ V.A.C.® Therapy System**  
*see* Activities of Daily Living Treatment, Rehabilitation F08

## A

- Abdominal aortic plexus**  
*use* Abdominal Sympathetic Nerve
- Abdominal cavity**  
*use* Peritoneal Cavity
- Abdominal esophagus**  
*use* Esophagus, Lower
- Abdominohysterectomy**  
*see* Resection, Uterus 0UT9
- Abdominoplasty**  
*see* Alteration, Abdominal Wall 0W0F  
*see* Repair, Abdominal Wall 0WQF  
*see* Supplement, Abdominal Wall 0WUF
- Abductor hallucis muscle**  
*use* Foot Muscle, Right  
*use* Foot Muscle, Left
- ABECMA®**  
*use* Idecabtagene Vicleucel  
 Immunotherapy
- AbioCor® Total Replacement Heart**  
*use* Synthetic Substitute
- Ablation**  
*see* Control bleeding in  
*see* Destruction  
*see* Stereotactic Radiosurgery
- Abortion**  
 Products of Conception 10A0  
 Abortifacient 10A07ZX  
 Laminaria 10A07ZW  
 Vacuum 10A07Z6
- Abrasion**  
*see* Extraction
- Absolute Pro Vascular (OTW) Self-Expanding Stent System**  
*use* Intraluminal Device
- Accessory cephalic vein**  
*use* Cephalic Vein, Right  
*use* Cephalic Vein, Left
- Accessory obturator nerve**  
*use* Lumbar Plexus
- Accessory phrenic nerve**  
*use* Phrenic Nerve
- Accessory spleen**  
*use* Spleen
- Acculink (RX) Carotid Stent System**  
*use* Intraluminal Device
- Acellular Hydrated Dermis**  
*use* Nonautologous Tissue Substitute
- Acetabular cup**  
*use* Liner in Lower Joints
- Acetabulectomy**  
*see* Excision, Lower Bones 0QB  
*see* Resection, Lower Bones 0QT
- Acetabulofemoral joint**  
*use* Hip Joint, Right  
*use* Hip Joint, Left
- Acetabuloplasty**  
*see* Repair, Lower Bones 0QQ  
*see* Replacement, Lower Bones 0QR  
*see* Supplement, Lower Bones 0QU
- Achilles tendon**  
*use* Lower Leg Tendon, Right  
*use* Lower Leg Tendon, Left

- Achillorrhaphy**  
*see* Repair, Tendons 0LQ
- Achillototomy, achillotomy**  
*see* Division, Tendons 0L8  
*see* Drainage, Tendons 0L9
- Acoustic Pulse Thrombolysis**  
*see* Fragmentation, Artery
- Acromioclavicular ligament**  
*use* Shoulder Bursa and Ligament, Right  
*use* Shoulder Bursa and Ligament, Left
- Acromion (process)**  
*use* Scapula, Right  
*use* Scapula, Left
- Acromionectomy**  
*see* Excision, Upper Joints 0RB  
*see* Resection, Upper Joints 0RT
- Acromioplasty**  
*see* Repair, Upper Joints 0RQ  
*see* Replacement, Upper Joints 0RR  
*see* Supplement, Upper Joints 0RU
- ACTEMRA®**  
*use* Tocilizumab
- Activa PC neurostimulator**  
*use* Stimulator Generator, Multiple Array  
 in 0JH
- Activa RC neurostimulator**  
*use* Stimulator Generator, Multiple Array  
 Rechargeable in 0JH
- Activa SC neurostimulator**  
*use* Stimulator Generator, Single Array  
 in 0JH
- Activities of Daily Living Assessment F02**
- Activities of Daily Living Treatment F08**
- ACUITY™ Steerable Lead**  
*use* Cardiac Lead, Pacemaker in 02H  
*use* Cardiac Lead, Defibrillator in 02H
- Acupuncture**  
 Breast  
 Anesthesia 8E0H300  
 No Qualifier 8E0H30Z  
 Integumentary System  
 Anesthesia 8E0H300  
 No Qualifier 8E0H30Z
- Adductor brevis muscle**  
*use* Upper Leg Muscle, Right  
*use* Upper Leg Muscle, Left
- Adductor hallucis muscle**  
*use* Foot Muscle, Right  
*use* Foot Muscle, Left
- Adductor longus muscle**  
*use* Upper Leg Muscle, Right  
*use* Upper Leg Muscle, Left
- Adductor magnus muscle**  
*use* Upper Leg Muscle, Right  
*use* Upper Leg Muscle, Left
- Adductor pollicis muscle**  
*use* Hand Muscle, Right  
*use* Hand Muscle, Left
- Adenohypophysis**  
*use* Pituitary Gland
- Adenoidectomy**  
*see* Excision, Adenoids 0CBQ  
*see* Resection, Adenoids 0CTQ
- Adenoidotomy**  
*see* Drainage, Adenoids 0C9Q
- Adhesiolysis**  
*see* Release
- Adhesive Ultrasound Patch Technology, Blood Flow XX25X0A**
- Administration**  
 Blood products *see* Transfusion  
 Other substance *see* Introduction of substance in or on

- Adrenalectomy**  
*see* Excision, Endocrine System 0GB  
*see* Resection, Endocrine System 0GT
- Adrenalorrhaphy**  
*see* Repair, Endocrine System 0GQ
- Adrenolotomy**  
*see* Drainage, Endocrine System 0G9
- Advancement**  
*see* Reposition  
*see* Transfer
- Advisa (MRI)**  
*use* Pacemaker, Dual Chamber in 0JH
- AeroPace® System**  
*use* Temporary Phrenic Nerve/Diaphragm Stimulation Electrodes in New Technology
- afami-cel**  
*use* Afamitresgene Autoleucel  
 Immunotherapy
- Afamitresgene Autoleucel Immunotherapy XW0**
- AFX® Endovascular AAA System**  
*use* Intraluminal Device
- AGENT™ Paclitaxel-Coated Balloon**  
*see* New Technology, Anatomical Regions XW0
- AGN1 Bone Void Filler XW0V3WA**
- Aidoc Briefcase for PE (pulmonary embolism) XXE3X27**
- AIGISRx Antibacterial Envelope**  
*use* Anti-Infective Envelope
- Alar ligament of axis**  
*use* Head and Neck Bursa and Ligament
- Alfapump® system**  
*use* Other Device
- Alfieri Stitch Valvuloplasty**  
*see* Restriction, Valve, Mitral 02VG
- Alimentation**  
*see* Introduction of substance in or on
- ALPPS (Associating liver partition and portal vein ligation)**  
*see* Division, Hepatobiliary System and Pancreas 0F8  
*see* Resection, Hepatobiliary System and Pancreas 0FT
- Alteration**  
 Abdominal Wall 0W0F  
 Ankle Region  
 Left 0Y0L  
 Right 0Y0K  
 Arm  
 Lower  
 Left 0X0F  
 Right 0X0D  
 Upper  
 Left 0X09  
 Right 0X08  
 Axilla  
 Left 0X05  
 Right 0X04  
 Back  
 Lower 0W0L  
 Upper 0W0K  
 Breast  
 Bilateral 0H0V  
 Left 0H0U  
 Right 0H0T  
 Buttock  
 Left 0Y01  
 Right 0Y00  
 Chest Wall 0W08  
 Ear  
 Bilateral 0902  
 Left 0901  
 Right 0900

**Coloproctostomy**

see Bypass, Gastrointestinal System 0D1  
see Drainage, Gastrointestinal System 0D9

**Colopuncture**

see Drainage, Gastrointestinal System 0D9

**Colorrhaphy**

see Repair, Gastrointestinal System 0DQ

**Colostomy**

see Bypass, Gastrointestinal System 0D1  
see Drainage, Gastrointestinal System 0D9

**Colpectomy**

see Excision, Vagina 0UBG  
see Resection, Vagina OUTG

**Colpocentesis**

see Drainage, Vagina 0U9G

**Colpopexy**

see Repair, Vagina 0UQG  
see Reposition, Vagina 0USG

**Colpoplasty**

see Repair, Vagina 0UQG  
see Supplement, Vagina 0UUG

**Colporrhaphy**

see Repair, Vagina 0UQG

**Colposcopy 0UJH8ZZ****Columella**

use Nasal Mucosa and Soft Tissue

**Columvi™**

use Glofitamab Antineoplastic

**COMIRNATY®**

use COVID-19 Vaccine Dose 1  
use COVID-19 Vaccine Dose 2  
use COVID-19 Vaccine  
use COVID-19 Vaccine Dose 3  
use COVID-19 Vaccine Booster

**Common digital vein**

use Foot Vein, Right  
use Foot Vein, Left

**Common facial vein**

use Face Vein, Right  
use Face Vein, Left

**Common fibular nerve**

use Peroneal Nerve

**Common hepatic artery**

use Hepatic Artery

**Common iliac (subaortic) lymph node**

use Lymphatic, Pelvis

**Common interosseous artery**

use Ulnar Artery, Right  
use Ulnar Artery, Left

**Common peroneal nerve**

use Peroneal Nerve

**Complete (SE) stent**

use Intraluminal Device

**Compression**

see Restriction  
Abdominal Wall 2W13X

**Arm**

Lower  
Left 2W1DX  
Right 2W1CX

**Upper**

Left 2W1BX  
Right 2W1AX

**Back 2W15X**

Chest Wall 2W14X

**Extremity**

Lower  
Left 2W1MX  
Right 2W1LX

**Upper**

Left 2W19X  
Right 2W18X

**Face 2W11X**

Finger  
Left 2W1KX  
Right 2W1JX

**Compression — continued****Foot**

Left 2W1TX  
Right 2W1SX

**Hand**

Left 2W1FX  
Right 2W1EX

**Head 2W10X**

Inguinal Region  
Left 2W17X  
Right 2W16X

**Leg**

Lower  
Left 2W1RX  
Right 2W1QX  
Upper  
Left 2W1PX  
Right 2W1NX

**Neck 2W12X**

Thumb  
Left 2W1HX  
Right 2W1GX

**Toe**

Left 2W1VX  
Right 2W1UX

**Computer Assisted Procedure****Extremity**

Lower  
No Qualifier 8E0YXBZ  
With Computerized  
Tomography 8E0YXBG  
With Fluoroscopy 8E0YXBF  
With Magnetic Resonance  
Imaging 8E0YXBH

**Upper**

No Qualifier 8E0XXBZ  
With Computerized  
Tomography 8E0XXBG  
With Fluoroscopy 8E0XXBF  
With Magnetic Resonance  
Imaging 8E0XXBH

**Head and Neck Region**

No Qualifier 8E09XBZ  
With Computerized  
Tomography 8E09XBG  
With Fluoroscopy 8E09XBF  
With Magnetic Resonance  
Imaging 8E09XBH

**Trunk Region**

No Qualifier 8E0WXBZ  
With Computerized  
Tomography 8E0WXBG  
With Fluoroscopy 8E0WXBH  
With Magnetic Resonance  
Imaging 8E0WXBH

**Computer-aided Assessment**

Cardiac Output XXE2X19  
Intracranial Vascular Activity XXE0X07

**Computer-aided Guidance, Transthoracic**

**Echocardiography X2JAX47**

**Computer-aided Mechanical Aspiration X2C****Computer-aided Triage and Notification,**

**Pulmonary Artery Flow XXE3X27**

**Computer-aided Valve Modeling and**

**Notification, Coronary Artery Flow  
XXE3X68**

**Computer-assisted Intermittent Aspiration**

see New Technology, Cardiovascular  
System X2C

**Computer-assisted Transcranial Magnetic**

**Stimulation X0Z0X18**

**Computerized Tomography (CT Scan)**

Abdomen BW20  
Chest and Pelvis BW25  
Abdomen and Chest BW24  
Abdomen and Pelvis BW21

**Computerized Tomography — continued****Airway, Trachea BB2F****Ankle**

Left BQ2H  
Right BQ2G

**Aorta**

Abdominal B420  
Intravascular Optical  
Coherence B420Z2Z  
Thoracic B320  
Intravascular Optical  
Coherence B320Z2Z

**Arm**

Left BP2F  
Right BP2E

**Artery**

Celiac B421  
Intravascular Optical  
Coherence B421Z2Z  
Common Carotid  
Bilateral B325  
Intravascular Optical  
Coherence B325Z2Z

**Coronary**

Bypass Graft  
Multiple B223  
Intravascular Optical  
Coherence B223Z2Z  
Multiple B221  
Intravascular Optical  
Coherence B221Z2Z

**Internal Carotid**

Bilateral B328  
Intravascular Optical  
Coherence B328Z2Z

**Intracranial B32R**

Intravascular Optical  
Coherence B32RZ2Z

**Lower Extremity**

Bilateral B42H  
Intravascular Optical  
Coherence B42HZ2Z  
Left B42G  
Intravascular Optical  
Coherence B42GZ2Z

**Right B42F**

Intravascular Optical  
Coherence B42FZ2Z

**Pelvic B42C**

Intravascular Optical  
Coherence B42CZ2Z

**Pulmonary**

Left B32T  
Intravascular Optical  
Coherence B32TZ2Z  
Right B32S  
Intravascular Optical  
Coherence B32SZ2Z

**Renal**

Bilateral B428  
Intravascular Optical  
Coherence B428Z2Z  
Transplant B42M  
Intravascular Optical  
Coherence B42MZ2Z

**Superior Mesenteric B424**

Intravascular Optical  
Coherence B424Z2Z

**Vertebral**

Bilateral B32G  
Intravascular Optical  
Coherence B32GZ2Z

**Bladder BT20****Bone**

Facial BN25  
Temporal BN2F  
Brain B020

# ICD-10-PCS Tables

## Medical and Surgical 001-0YW

### Central Nervous System and Cranial Nerves 001-00X

- 0 Medical and Surgical
- 0 Central Nervous System and Cranial Nerves
- 1 Bypass: Altering the route of passage of the contents of a tubular body part

Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
6 Cerebral Ventricle	0 Open 3 Percutaneous 4 Percutaneous Endoscopic	7 Autologous Tissue Substitute J Synthetic Substitute K Nonautologous Tissue Substitute	0 Nasopharynx 1 Mastoid Sinus 2 Atrium 3 Blood Vessel 4 Pleural Cavity 5 Intestine 6 Peritoneal Cavity 7 Urinary Tract 8 Bone Marrow A Subgaleal Space B Cerebral Cisterns
6 Cerebral Ventricle	0 Open 3 Percutaneous 4 Percutaneous Endoscopic	Z No Device	B Cerebral Cisterns
U Spinal Canal	0 Open 3 Percutaneous 4 Percutaneous Endoscopic	7 Autologous Tissue Substitute J Synthetic Substitute K Nonautologous Tissue Substitute	2 Atrium 4 Pleural Cavity 6 Peritoneal Cavity 7 Urinary Tract 9 Fallopian Tube

- 0 Medical and Surgical
- 0 Central Nervous System and Cranial Nerves
- 2 Change: Taking out or off a device from a body part and putting back an identical or similar device in or on the same body part without cutting or puncturing the skin or a mucous membrane

Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
0 Brain E Cranial Nerve U Spinal Canal	X External	0 Drainage Device Y Other Device	Z No Qualifier

**0 Medical and Surgical**

**0 Central Nervous System and Cranial Nerves**

**C Extirpation:** Taking or cutting out solid matter from a body part

Body Part	Approach	Device	Qualifier
Character 4	Character 5	Character 6	Character 7
<b>0</b> Brain <b>1</b> Cerebral Meninges <b>2</b> Dura Mater <b>3</b> Epidural Space, Intracranial <b>4</b> Subdural Space, Intracranial <b>5</b> Subarachnoid Space, Intracranial <b>6</b> Cerebral Ventricle <b>7</b> Cerebral Hemisphere <b>8</b> Basal Ganglia <b>9</b> Thalamus <b>A</b> Hypothalamus <b>B</b> Pons <b>C</b> Cerebellum <b>D</b> Medulla Oblongata <b>F</b> Olfactory Nerve <b>G</b> Optic Nerve <b>H</b> Oculomotor Nerve <b>J</b> Trochlear Nerve <b>K</b> Trigeminal Nerve <b>L</b> Abducens Nerve <b>M</b> Facial Nerve <b>N</b> Acoustic Nerve <b>P</b> Glossopharyngeal Nerve <b>Q</b> Vagus Nerve <b>R</b> Accessory Nerve <b>S</b> Hypoglossal Nerve <b>T</b> Spinal Meninges <b>U</b> Spinal Canal <b>W</b> Cervical Spinal Cord <b>X</b> Thoracic Spinal Cord <b>Y</b> Lumbar Spinal Cord	<b>0</b> Open <b>3</b> Percutaneous <b>4</b> Percutaneous Endoscopic	<b>Z</b> No Device	<b>Z</b> No Qualifier

**0 Medical and Surgical**

**0 Central Nervous System and Cranial Nerves**

**D Extraction:** Pulling or stripping out or off all or a portion of a body part by the use of force

Body Part	Approach	Device	Qualifier
Character 4	Character 5	Character 6	Character 7
<b>0</b> Brain <b>1</b> Cerebral Meninges <b>2</b> Dura Mater <b>7</b> Cerebral Hemisphere <b>C</b> Cerebellum <b>F</b> Olfactory Nerve <b>G</b> Optic Nerve <b>H</b> Oculomotor Nerve <b>J</b> Trochlear Nerve <b>K</b> Trigeminal Nerve <b>L</b> Abducens Nerve <b>M</b> Facial Nerve <b>N</b> Acoustic Nerve <b>P</b> Glossopharyngeal Nerve <b>Q</b> Vagus Nerve <b>R</b> Accessory Nerve <b>S</b> Hypoglossal Nerve <b>T</b> Spinal Meninges	<b>0</b> Open <b>3</b> Percutaneous <b>4</b> Percutaneous Endoscopic	<b>Z</b> No Device	<b>Z</b> No Qualifier

# Heart and Great Vessels 021-02Y

## 0 Medical and Surgical

### 2 Heart and Great Vessels

#### 1 Bypass: Altering the route of passage of the contents of a tubular body part

Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
<b>0</b> Coronary Artery, One Artery <b>HAC</b> <b>1</b> Coronary Artery, Two Arteries <b>HAC</b> <b>2</b> Coronary Artery, Three Arteries <b>HAC</b> <b>3</b> Coronary Artery, Four or More Arteries <b>HAC</b>	<b>0</b> Open	<b>8</b> Zooplastic Tissue <b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute	<b>3</b> Coronary Artery <b>8</b> Internal Mammary, Right <b>9</b> Internal Mammary, Left <b>C</b> Thoracic Artery <b>F</b> Abdominal Artery <b>W</b> Aorta
<b>0</b> Coronary Artery, One Artery <b>HAC</b> <b>1</b> Coronary Artery, Two Arteries <b>HAC</b> <b>2</b> Coronary Artery, Three Arteries <b>HAC</b> <b>3</b> Coronary Artery, Four or More Arteries <b>HAC</b>	<b>0</b> Open	<b>Z</b> No Device	<b>3</b> Coronary Artery <b>8</b> Internal Mammary, Right <b>9</b> Internal Mammary, Left <b>C</b> Thoracic Artery <b>F</b> Abdominal Artery
<b>0</b> Coronary Artery, One Artery <b>1</b> Coronary Artery, Two Arteries <b>2</b> Coronary Artery, Three Arteries <b>3</b> Coronary Artery, Four or More Arteries	<b>3</b> Percutaneous	<b>4</b> Intraluminal Device, Drug-eluting <b>D</b> Intraluminal Device	<b>4</b> Coronary Vein
<b>0</b> Coronary Artery, One Artery <b>1</b> Coronary Artery, Two Arteries <b>2</b> Coronary Artery, Three Arteries <b>3</b> Coronary Artery, Four or More Arteries	<b>4</b> Percutaneous Endoscopic	<b>4</b> Intraluminal Device, Drug-eluting <b>D</b> Intraluminal Device	<b>4</b> Coronary Vein
<b>0</b> Coronary Artery, One Artery <b>HAC</b> <b>1</b> Coronary Artery, Two Arteries <b>HAC</b> <b>2</b> Coronary Artery, Three Arteries <b>HAC</b> <b>3</b> Coronary Artery, Four or More Arteries <b>HAC</b>	<b>4</b> Percutaneous Endoscopic	<b>8</b> Zooplastic Tissue <b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute	<b>3</b> Coronary Artery <b>8</b> Internal Mammary, Right <b>9</b> Internal Mammary, Left <b>C</b> Thoracic Artery <b>F</b> Abdominal Artery <b>W</b> Aorta
<b>0</b> Coronary Artery, One Artery <b>HAC</b> <b>1</b> Coronary Artery, Two Arteries <b>HAC</b> <b>2</b> Coronary Artery, Three Arteries <b>HAC</b> <b>3</b> Coronary Artery, Four or More Arteries <b>HAC</b>	<b>4</b> Percutaneous Endoscopic	<b>Z</b> No Device	<b>3</b> Coronary Artery <b>8</b> Internal Mammary, Right <b>9</b> Internal Mammary, Left <b>C</b> Thoracic Artery <b>F</b> Abdominal Artery
<b>6</b> Atrium, Right	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>8</b> Zooplastic Tissue <b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute	<b>P</b> Pulmonary Trunk <b>Q</b> Pulmonary Artery, Right <b>R</b> Pulmonary Artery, Left
<b>6</b> Atrium, Right	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>Z</b> No Device	<b>7</b> Atrium, Left <b>P</b> Pulmonary Trunk <b>Q</b> Pulmonary Artery, Right <b>R</b> Pulmonary Artery, Left

021 continued on next page

**LC** Limited Coverage **HC** Noncovered **HAC** HAC-associated Procedure **CC** Combination Cluster - See Appendix M for code lists

**NA** Non-OR-Affecting MS-DRG Assignment **NR** New/Revised Text in Orange **M** Male **F** Female

## 0 Medical and Surgical

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## 3 Upper Arteries

## 1 Bypass: Altering the route of passage of the contents of a tubular body part

Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
7 Brachial Artery, Right	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	0 Upper Arm Artery, Right 3 Lower Arm Artery, Right D Upper Arm Vein F Lower Arm Vein V Superior Vena Cava W Lower Extremity Vein
7 Brachial Artery, Right	3 Percutaneous	Z No Device	F Lower Arm Vein
8 Brachial Artery, Left	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	1 Upper Arm Artery, Left 4 Lower Arm Artery, Left D Upper Arm Vein F Lower Arm Vein V Superior Vena Cava W Lower Extremity Vein
8 Brachial Artery, Left	3 Percutaneous	Z No Device	F Lower Arm Vein
9 Ulnar Artery, Right B Radial Artery, Right	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	3 Lower Arm Artery, Right F Lower Arm Vein
9 Ulnar Artery, Right B Radial Artery, Right	3 Percutaneous	Z No Device	F Lower Arm Vein
A Ulnar Artery, Left C Radial Artery, Left	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	4 Lower Arm Artery, Left F Lower Arm Vein
A Ulnar Artery, Left C Radial Artery, Left	3 Percutaneous	Z No Device	F Lower Arm Vein
G Intracranial Artery S Temporal Artery, Right T Temporal Artery, Left	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	G Intracranial Artery
H Common Carotid Artery, Right J Common Carotid Artery, Left	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	G Intracranial Artery J Extracranial Artery, Right K Extracranial Artery, Left Y Upper Artery
K Internal Carotid Artery, Right L Internal Carotid Artery, Left M External Carotid Artery, Right N External Carotid Artery, Left	0 Open	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute Z No Device	J Extracranial Artery, Right K Extracranial Artery, Left

## Lower Arteries 041-04W

### 0 Medical and Surgical

#### 4 Lower Arteries

1 **Bypass:** Altering the route of passage of the contents of a tubular body part

Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
<b>0</b> Abdominal Aorta <b>C</b> Common Iliac Artery, Right <b>D</b> Common Iliac Artery, Left	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute <b>Z</b> No Device	<b>0</b> Abdominal Aorta <b>1</b> Celiac Artery <b>2</b> Mesenteric Artery <b>3</b> Renal Artery, Right <b>4</b> Renal Artery, Left <b>5</b> Renal Artery, Bilateral <b>6</b> Common Iliac Artery, Right <b>7</b> Common Iliac Artery, Left <b>8</b> Common Iliac Arteries, Bilateral <b>9</b> Internal Iliac Artery, Right <b>B</b> Internal Iliac Artery, Left <b>C</b> Internal Iliac Arteries, Bilateral <b>D</b> External Iliac Artery, Right <b>F</b> External Iliac Artery, Left <b>G</b> External Iliac Arteries, Bilateral <b>H</b> Femoral Artery, Right <b>J</b> Femoral Artery, Left <b>K</b> Femoral Arteries, Bilateral <b>Q</b> Lower Extremity Artery <b>R</b> Lower Artery
<b>3</b> Hepatic Artery <b>4</b> Splenic Artery	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute <b>Z</b> No Device	<b>3</b> Renal Artery, Right <b>4</b> Renal Artery, Left <b>5</b> Renal Artery, Bilateral <b>R</b> Lower Artery
<b>E</b> Internal Iliac Artery, Right <b>F</b> Internal Iliac Artery, Left <b>H</b> External Iliac Artery, Right <b>J</b> External Iliac Artery, Left	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute <b>Z</b> No Device	<b>9</b> Internal Iliac Artery, Right <b>B</b> Internal Iliac Artery, Left <b>C</b> Internal Iliac Arteries, Bilateral <b>D</b> External Iliac Artery, Right <b>F</b> External Iliac Artery, Left <b>G</b> External Iliac Arteries, Bilateral <b>H</b> Femoral Artery, Right <b>J</b> Femoral Artery, Left <b>K</b> Femoral Arteries, Bilateral <b>P</b> Foot Artery <b>Q</b> Lower Extremity Artery
<b>K</b> Femoral Artery, Right <b>L</b> Femoral Artery, Left	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute <b>Z</b> No Device	<b>H</b> Femoral Artery, Right <b>J</b> Femoral Artery, Left <b>K</b> Femoral Arteries, Bilateral <b>L</b> Popliteal Artery <b>M</b> Peroneal Artery <b>N</b> Posterior Tibial Artery <b>P</b> Foot Artery <b>Q</b> Lower Extremity Artery <b>S</b> Lower Extremity Vein
<b>K</b> Femoral Artery, Right <b>L</b> Femoral Artery, Left	<b>3</b> Percutaneous	<b>J</b> Synthetic Substitute	<b>Q</b> Lower Extremity Artery <b>S</b> Lower Extremity Vein
<b>M</b> Popliteal Artery, Right <b>N</b> Popliteal Artery, Left	<b>0</b> Open <b>4</b> Percutaneous Endoscopic	<b>9</b> Autologous Venous Tissue <b>A</b> Autologous Arterial Tissue <b>J</b> Synthetic Substitute <b>K</b> Nonautologous Tissue Substitute <b>Z</b> No Device	<b>L</b> Popliteal Artery <b>M</b> Peroneal Artery <b>P</b> Foot Artery <b>Q</b> Lower Extremity Artery <b>S</b> Lower Extremity Vein

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 Limited Coverage 
  Noncovered 
  HAC-associated Procedure 
  Combination Cluster - See Appendix M for code lists

 Non-OR-Affecting MS-DRG Assignment 
  New/Revised Text in Orange 
  Male 
  Female

**0 Medical and Surgical****5 Upper Veins****5 Destruction:** Physical eradication of all or a portion of a body part by the direct use of energy, force, or a destructive agent

Body Part	Approach	Device	Qualifier
Character 4	Character 5	Character 6	Character 7
<b>0</b> Azygos Vein <b>1</b> Hemiazygos Vein <b>3</b> Innominate Vein, Right <b>4</b> Innominate Vein, Left <b>5</b> Subclavian Vein, Right <b>6</b> Subclavian Vein, Left <b>7</b> Axillary Vein, Right <b>8</b> Axillary Vein, Left <b>9</b> Brachial Vein, Right <b>A</b> Brachial Vein, Left <b>B</b> Basilic Vein, Right <b>C</b> Basilic Vein, Left <b>D</b> Cephalic Vein, Right <b>F</b> Cephalic Vein, Left <b>G</b> Hand Vein, Right <b>H</b> Hand Vein, Left <b>L</b> Intracranial Vein <b>M</b> Internal Jugular Vein, Right <b>N</b> Internal Jugular Vein, Left <b>P</b> External Jugular Vein, Right <b>Q</b> External Jugular Vein, Left <b>R</b> Vertebral Vein, Right <b>S</b> Vertebral Vein, Left <b>T</b> Face Vein, Right <b>V</b> Face Vein, Left <b>Y</b> Upper Vein	<b>0</b> Open <b>3</b> Percutaneous <b>4</b> Percutaneous Endoscopic	<b>Z</b> No Device	<b>Z</b> No Qualifier

**0 Medical and Surgical****5 Upper Veins****7 Dilation:** Expanding an orifice or the lumen of a tubular body part

Body Part	Approach	Device	Qualifier
Character 4	Character 5	Character 6	Character 7
<b>0</b> Azygos Vein <b>1</b> Hemiazygos Vein <b>G</b> Hand Vein, Right <b>H</b> Hand Vein, Left <b>L</b> Intracranial Vein <b>NC</b> <b>M</b> Internal Jugular Vein, Right <b>N</b> Internal Jugular Vein, Left <b>P</b> External Jugular Vein, Right <b>Q</b> External Jugular Vein, Left <b>R</b> Vertebral Vein, Right <b>S</b> Vertebral Vein, Left <b>T</b> Face Vein, Right <b>V</b> Face Vein, Left <b>Y</b> Upper Vein	<b>0</b> Open <b>3</b> Percutaneous <b>4</b> Percutaneous Endoscopic	<b>D</b> Intraluminal Device <b>Z</b> No Device	<b>Z</b> No Qualifier
<b>3</b> Innominate Vein, Right <b>4</b> Innominate Vein, Left <b>5</b> Subclavian Vein, Right <b>6</b> Subclavian Vein, Left <b>7</b> Axillary Vein, Right <b>8</b> Axillary Vein, Left <b>9</b> Brachial Vein, Right <b>A</b> Brachial Vein, Left <b>B</b> Basilic Vein, Right <b>C</b> Basilic Vein, Left <b>D</b> Cephalic Vein, Right <b>F</b> Cephalic Vein, Left	<b>0</b> Open <b>3</b> Percutaneous <b>4</b> Percutaneous Endoscopic	<b>D</b> Intraluminal Device <b>Z</b> No Device	<b>1</b> Drug-Coated Balloon <b>Z</b> No Qualifier

**NC** 057L3ZZ 057L4ZZ

**LC** Limited Coverage **NC** Noncovered **HAC** HAC-associated Procedure **CC** Combination Cluster - See Appendix M for code lists

**MS** Non-OR-Affecting MS-DRG Assignment **New/Revised Text in Orange** **M** Male **F** Female

## Appendix B: Root Operations Definitions

The data in this appendix comes directly from CMS. It contains all the valid root operations for sections 0-9 and section X of the ICD-10-PCS code set. It also describes the intent of the root operation, and in some instances, provides examples. When reading a medical record or an operative report, identify the overall goal of the procedure and select the appropriate root operation based on the definitions in this appendix. The root operation is always represented as the 3rd character of an ICD-10-PCS code in sections 0-9 and section X.

<b>0 - Medical and Surgical</b>		
Value	Root Operation	Definition/Explanation
0	Alteration	<b>Definition:</b> Modifying the anatomic structure of a body part without affecting the function of the body part <b>Explanation:</b> Principal purpose is to improve appearance <b>Includes/Examples:</b> Face lift, breast augmentation
1	Bypass	<b>Definition:</b> Altering the route of passage of the contents of a tubular body part <b>Explanation:</b> Rerouting contents of a body part to a downstream area of the normal route, to a similar route and body part, or to an abnormal route and dissimilar body part. Includes one or more anastomoses, with or without the use of a device. <b>Includes/Examples:</b> Coronary artery bypass, colostomy formation
2	Change	<b>Definition:</b> Taking out or off a device from a body part and putting back an identical or similar device in or on the same body part without cutting or puncturing the skin or a mucous membrane <b>Explanation:</b> All CHANGE procedures are coded using the approach EXTERNAL <b>Includes/Examples:</b> Urinary catheter change, gastrostomy tube change
3	Control	<b>Definition:</b> Stopping, or attempting to stop, postprocedural or other acute bleeding <b>Includes/Examples:</b> Control of post-prostatectomy hemorrhage, control of intracranial subdural hemorrhage, control of bleeding duodenal ulcer, control of retroperitoneal hemorrhage
4	Creation	<b>Definition:</b> Putting in or on biological or synthetic material to form a new body part that to the extent possible replicates the anatomic structure or function of an absent body part <b>Explanation:</b> Used for gender reassignment surgery and corrective procedures in individuals with congenital anomalies <b>Includes/Examples:</b> Creation of vagina in a male, creation of right and left atrioventricular valve from common atrioventricular valve
5	Destruction	<b>Definition:</b> Physical eradication of all or a portion of a body part by the direct use of energy, force, or a destructive agent <b>Explanation:</b> None of the body part is physically taken out <b>Includes/Examples:</b> Fulguration of rectal polyp, cautery of skin lesion
6	Detachment	<b>Definition:</b> Cutting off all or a portion of the upper or lower extremities <b>Explanation:</b> The body part value is the site of the detachment, with a qualifier if applicable to further specify the level where the extremity was detached <b>Includes/Examples:</b> Below knee amputation, disarticulation of shoulder
7	Dilation	<b>Definition:</b> Expanding an orifice or the lumen of a tubular body part <b>Explanation:</b> The orifice can be a natural orifice or an artificially created orifice. Accomplished by stretching a tubular body part using intraluminal pressure or by cutting part of the orifice or wall of the tubular body part <b>Includes/Examples:</b> Percutaneous transluminal angioplasty, internal urethrotomy
8	Division	<b>Definition:</b> Cutting into a body part, without draining fluids and/or gases from the body part, in order to separate or transect a body part <b>Explanation:</b> All or a portion of the body part is separated into two or more portions
9	Drainage	<b>Definition:</b> Taking or letting out fluids and/or gases from a body part <b>Explanation:</b> The qualifier DIAGNOSTIC is used to identify drainage procedures that are biopsies <b>Includes/Examples:</b> Thoracentesis, incision and drainage
B	Excision	<b>Definition:</b> Cutting out or off, without replacement, a portion of a body part <b>Explanation:</b> The qualifier DIAGNOSTIC is used to identify excision procedures that are biopsies <b>Includes/Examples:</b> Partial nephrectomy, liver biopsy

0 - Medical and Surgical continued on next page

## Procedures That Only Involve Examination of Body Parts and Regions

Root Operation	Action	Target	Clarification	Example
Inspection (J)	Visual and/or manual exploration	A body part	Performed with or without optical instrumentation, directly or through body layers	Diagnostic arthroscopy
Map (K)	Locating	Route of passage of electrical impulses or functional areas in a body part	Applicable only to cardiac conduction mechanism and central nervous system	Cardiac mapping

## Procedures That Involve Putting in or on, Putting Back, or Moving Living Body Parts

Root Operation	Action	Target	Clarification	Example
Bypass (1)	Altering the route of passage	Contents of tubular body part	May include use of living tissue, non-living biological material or synthetic material which does not take the place of the body part	Gastrojejunal bypass
Dilation (7)	Expanding	Orifice or lumen of tubular body part	By application of intraluminal pressure or by cutting the wall or orifice	Coronary artery dilation
Occlusion (L)	Completely closing	Orifice or lumen of tubular body part	N/A	Fallopian tube ligation
Restriction (V)	Partially closing	Orifice or lumen of tubular body part	N/A	Cervical cerclage

## Procedures That Always Involve Devices

Root Operation	Action	Target	Clarification	Example
Change (2)	Taking out or off and putting back	Identical or similar device in or on a body part	Without cutting or puncturing skin or mucous membrane	Drainage tube change
Insertion (H)	Putting in	Device in or on a body part	Does not physically take the place of a body part	Pacemaker insertion
Removal (P)	Taking out or off	Device from a body part	N/A	Cardiac pacemaker removal
Replacement (R)	Putting in or on	Biological or synthetic material; or living tissue taken from same individual	Physically takes the place of all or a portion of a body part	Total hip replacement
Revision (W)	Correcting	Malfunctioning or displaced device in or on a body part	To the extent possible	Hip prosthesis adjustment
Supplement (U)	Putting in or on	Biological or synthetic material; or living tissue taken from same individual	Physically reinforces or augments a body part	Herniorrhaphy using mesh

## Appendix E: Body Part Definition

The data in this appendix comes directly from CMS. It contains all the ICD-10-PCS valid body part values and pairs them with common anatomical terminology that might be used in a medical record. This table is the reverse of the body part key appendix and helps users identify and use common terminology when building an ICD-10-PCS code. A valid body part, region, or system must be selected as the 4th character of a code in most ICD-10-PCS sections.

ICD-10-PCS Value	Anatomical Term	ICD-10-PCS Value	Anatomical Term
1st Toe, Left	Hallux	Accessory Nerve	Eleventh cranial nerve
1st Toe, Right	Hallux	Acoustic Nerve	Cochlear nerve
Abdomen Muscle, Left	External oblique muscle	Acoustic Nerve	Eighth cranial nerve
	Internal oblique muscle		Scarpa's (vestibular) ganglion
	Pyramidalis muscle		Spiral ganglion
	Rectus abdominis muscle		Vestibular (Scarpa's) ganglion
	Transversus abdominis muscle		Vestibular nerve
Abdomen Muscle, Right	External oblique muscle		Vestibulocochlear nerve
	Internal oblique muscle	Adenoids	Pharyngeal tonsil
	Pyramidalis muscle	Adrenal Gland	Suprarenal gland
	Rectus abdominis muscle	Adrenal Gland, Left	Suprarenal gland
	Transversus abdominis muscle	Adrenal Gland, Right	Suprarenal gland
Abdominal Aorta	Inferior phrenic artery	Adrenal Glands, Bilateral	Suprarenal gland
	Lumbar artery	Ampulla of Vater	Duodenal ampulla
	Median sacral artery	Anal Sphincter	Hepatopancreatic ampulla
	Middle suprarenal artery		External anal sphincter
	Ovarian artery	Internal anal sphincter	
	Testicular artery	Ankle Bursa and Ligament, Left	Calcaneofibular ligament
Abdominal Sympathetic Nerve	Abdominal aortic plexus	Ankle Bursa and Ligament, Right	Deltoid ligament
	Auerbach's (myenteric) plexus		Ligament of the lateral malleolus
	Celiac (solar) plexus		Talofibular ligament
	Celiac ganglion		Ankle Bursa and Ligament, Right
	Gastric plexus	Ankle Joint, Left	Deltoid ligament
	Hepatic plexus		Ligament of the lateral malleolus
	Inferior hypogastric plexus		Talofibular ligament
	Inferior mesenteric ganglion		Ankle Joint, Right
	Inferior mesenteric plexus	Anterior Chamber, Left	Talocrural joint
	Meissner's (submucous) plexus		Anterior Chamber, Right
	Myenteric (Auerbach's) plexus	Anterior Tibial Artery, Left	Aqueous humour
	Pancreatic plexus		Anterior lateral malleolar artery
	Pelvic splanchnic nerve		Anterior medial malleolar artery
	Renal nerve		Anterior tibial recurrent artery
	Renal plexus		Dorsalis pedis artery
	Solar (celiac) plexus		Posterior tibial recurrent artery
	Splenic plexus	Anterior Tibial Artery, Right	Anterior lateral malleolar artery
	Submucous (Meissner's) plexus		Anterior medial malleolar artery
	Superior hypogastric plexus		Anterior tibial recurrent artery
	Superior mesenteric ganglion		Dorsalis pedis artery
Superior mesenteric plexus	Posterior tibial recurrent artery		
Suprarenal plexus			
Abducens Nerve	Sixth cranial nerve		

Device Term	ICD-10-PCS Value
Aveil™ AR, as dual chamber	Intracardiac Pacemaker, Dual-Chamber in New Technology
Aveil™ DR, dual chamber	Intracardiac Pacemaker, Dual-Chamber in New Technology
Aveil™ VR, as single chamber	Intracardiac Pacemaker in Heart and Great Vessels
Axial Lumbar Interbody Fusion System	Interbody Fusion Device in Lower Joints
AxiaLIF® System	Interbody Fusion Device in Lower Joints
BAK/C® Interbody Cervical Fusion System	Interbody Fusion Device in Upper Joints
Bard® Composix® (E/X) (LP) mesh	Synthetic Substitute
Bard® Composix® Kugel® patch	Synthetic Substitute
Bard® Dulex™ mesh	Synthetic Substitute
Bard® Ventralex™ hernia patch	Synthetic Substitute
Baroreflex Activation Therapy®(BAT®)	Stimulator Lead in Upper Arteries
	Stimulator Generator in Subcutaneous Tissue and Fascia
Barricaid® Annular Closure Device (ACD)	Synthetic Substitute
Berlin Heart® Ventricular Assist Device	Implantable Heart Assist System in Heart and Great Vessels
Bioactive embolization coil(s)	Intraluminal Device, Bioactive in Upper Arteries
Biventricular external heart assist system	Short-term External Heart Assist System in Heart and Great Vessels
BlackArmor® Carbon/PEEK fixation system	Carbon/PEEK Spinal Stabilization Device, Pedicle Based in New Technology
Blood glucose monitoring system	Monitoring Device
Bone anchored hearing device	Hearing Device, Bone Conduction for Insertion in Ear, Nose, Sinus
	Hearing Device in Head and Facial Bones
Bone bank bone graft	Nonautologous Tissue Substitute
Bone screw (interlocking) (lag) (pedicle) (recessed)	Internal Fixation Device in Head and Facial Bones
	Internal Fixation Device in Upper Bones
	Internal Fixation Device in Lower Bones
Bovine pericardial valve	Zooplasmic Tissue in Heart and Great Vessels
Bovine pericardium graft	Zooplasmic Tissue in Heart and Great Vessels
Brachytherapy seeds	Radioactive Element
BRYAN® Cervical Disc System	Synthetic Substitute
BTK (below the knee) Temporary Retrievable Stent	Intraluminal Device, Temporary in New Technology
BVS 5000® Ventricular Assist Device	Short-term External Heart Assist System in Heart and Great Vessels
Canturio™ te (Tibial Extension)	Tibial Extension with Motion Sensors in New Technology

Device Term	ICD-10-PCS Value
Cardiac contractility modulation lead	Cardiac Lead in Heart and Great Vessels
Cardiac event recorder	Monitoring Device
Cardiac resynchronization therapy (CRT) lead	Cardiac Lead, Pacemaker for Insertion in Heart and Great Vessels
	Cardiac Lead, Defibrillator for Insertion in Heart and Great Vessels
CardioMEMS® pressure sensor	Monitoring Device, Pressure Sensor for Insertion in Heart and Great Vessels
Carmat total artificial heart (TAH)	Biologic with Synthetic Substitute, Autoregulated Electrohydraulic for Replacement in Heart and Great Vessels
Carotid (artery) sinus (baroreceptor) lead	Stimulator Lead in Upper Arteries
Carotid WALLSTENT® Monorail® Endoprosthesis	Intraluminal Device
Centrimag® Blood Pump	Short-term External Heart Assist System in Heart and Great Vessels
Ceramic on ceramic bearing surface	Synthetic Substitute, Ceramic for Replacement in Lower Joints
Cesium-131 Collagen Implant	Radioactive Element, Cesium-131 Collagen Implant for Insertion in Central Nervous System and Cranial Nerves
CivaSheet®	Radioactive Element
Clamp and rod internal fixation system (CRIF)	Internal Fixation Device in Upper Bones
	Internal Fixation Device in Lower Bones
COALESCE® radiolucent interbody fusion device	Interbody Fusion Device in Lower Joints
	Interbody Fusion Device in Upper Joints
CoAxia NeuroFlo™ catheter	Intraluminal Device
Cobalt/chromium head and polyethylene socket	Synthetic Substitute, Metal on Polyethylene for Replacement in Lower Joints
Cobalt/chromium head and socket	Synthetic Substitute, Metal for Replacement in Lower Joints
Cochlear implant (CI), multiple channel (electrode)	Hearing Device, Multiple Channel Cochlear Prosthesis for Insertion in Ear, Nose, Sinus
Cochlear implant (CI), single channel (electrode)	Hearing Device, Single Channel Cochlear Prosthesis for Insertion in Ear, Nose, Sinus
COGNIS® CRT-D	Cardiac Resynchronization Defibrillator Pulse Generator for Insertion in Subcutaneous Tissue and Fascia
COHERE® radiolucent interbody fusion device	Interbody Fusion Device in Lower Joints
	Interbody Fusion Device in Upper Joints

## Appendix H: Device Definitions

The data in this appendix comes directly from CMS. It contains all the ICD-10-PCS valid device values and pairs them with common device names a provider might use in a medical record. This table is the reverse of the device key appendix and helps users identify and use common terminology when building an ICD-10-PCS code. A valid device, if necessary, must be selected as the 6th character of a code in many ICD-10-PCS tables.

ICD-10-PCS Value	Device Term	ICD-10-PCS Value	Device Term	
Articulating Spacer in Lower Joints	Articulating Spacer (Antibiotic)	Branched Intraluminal Device, Manufactured Integrated System, Four or More Arteries in New Technology	GORE® EXCLUDER® TAMBE Device (Thoracoabdominal Branch Endoprosthesis)	
	Spacer, Articulating (Antibiotic)		TAMBE Device (Thoracoabdominal Branch Endoprosthesis), GORE® EXCLUDER®	
Artificial Sphincter in Gastrointestinal System	Artificial anal sphincter (AAS)	Branched Synthetic Substitute with Intraluminal Device in New Technology	Thoraflex™ Hybrid device	
	Artificial bowel sphincter (neosphincter)			
Artificial Sphincter in Urinary System	AMS 800® Urinary Control System	Carbon/PEEK Spinal Stabilization Device, Pedicle Based in New Technology	BlackArmor® Carbon/PEEK fixation system	
	Artificial urinary sphincter (AUS)		VADER® Pedicle System	
Autologous Arterial Tissue in Heart and Great Vessels	Autologous artery graft	Cardiac Lead in Heart and Great Vessels	Cardiac contractility modulation lead	
Autologous Arterial Tissue in Lower Arteries	Autologous artery graft			
Autologous Arterial Tissue in Lower Veins	Autologous artery graft	Cardiac Lead, Defibrillator for Insertion in Heart and Great Vessels	ACUITY™ Steerable Lead	
Autologous Arterial Tissue in Upper Arteries	Autologous artery graft		Attain Ability® lead	
Autologous Arterial Tissue in Upper Veins	Autologous artery graft		Attain StarFix® (OTW) lead	
Autologous Tissue Substitute	Autograft		Cardiac resynchronization therapy (CRT) lead	
	Cultured epidermal cell autograft		Corox® (OTW) Bipolar Lead	
	Epicel® cultured epidermal autograft		Durata® Defibrillation Lead	
Autologous Venous Tissue in Heart and Great Vessels	Autologous vein graft		ENDOTAK RELIANCE® (G) Defibrillation Lead	
Autologous Venous Tissue in Lower Arteries	Autologous vein graft		Cardiac Lead, Pacemaker for Insertion in Heart and Great Vessels	ACUITY™ Steerable Lead
Autologous Venous Tissue in Lower Veins	Autologous vein graft			Attain Ability® lead
Autologous Venous Tissue in Upper Arteries	Autologous vein graft			Attain StarFix® (OTW) lead
Autologous Venous Tissue in Upper Veins	Autologous vein graft	Cardiac resynchronization therapy (CRT) lead		
		Corox® (OTW) Bipolar Lead		
Bioengineered Human Acellular Vessel in New Technology	HAV™ (Human Acellular Vessel)	Cardiac Resynchronization Defibrillator Pulse Generator for Insertion in Subcutaneous Tissue and Fascia	COGNIS® CRT-D	
	Human Acellular Vessel™ (HAV)		Concerto® II CRT-D	
Biologic with Synthetic Substitute, Autoregulated Electrohydraulic for Replacement in Heart and Great Vessels	Carmat total artificial heart (TAH)		Consulta® CRT-D	
			CONTAK RENEWAL® 3 RF (HE) CRT-D	
			LIVIAN™ CRT-D	
Bone Growth Stimulator in Head and Facial Bones	Electrical bone growth stimulator (EBGS)		Maximo® II DR CRT-D	
	Ultrasonic osteogenic stimulator		Ovatio™ CRT-D	
	Ultrasound bone healing system		Protecta™ XT CRT-D	
Bone Growth Stimulator in Lower Bones	Electrical bone growth stimulator (EBGS)		Viva™ (XT) (S)	
	Ultrasonic osteogenic stimulator		Cardiac Resynchronization Pacemaker Pulse Generator for Insertion in Subcutaneous Tissue and Fascia	Consulta® CRT-P
	Ultrasound bone healing system	Stratos LV®		
Bone Growth Stimulator in Upper Bones	Electrical bone growth stimulator (EBGS)	Synkra™ CRT-P		
	Ultrasonic osteogenic stimulator	Conduit through Coronary Sinus to Right Atrium in New Technology	APTURE Transcatheter Shunt System	
	Ultrasound bone healing system		DETOUR® System	
		Conduit through Femoral Vein to Popliteal Artery in New Technology		

0: Medical and Surgical

4: Lower Arteries

Operation-Character 3	Body Part-Character 4	Approach-Character 5	Device-Character 6	Qualifier-Character 7
1 Bypass	0 Abdominal Aorta	0 Open	0 Drainage Device	0 Abdominal Aorta
5 Destruction	1 Celiac Artery	3 Percutaneous	1 Radioactive Element	0 Ultrasonic
7 Dilation	2 Gastric Artery	4 Percutaneous Endoscopic	2 Monitoring Device	1 Celiac Artery
9 Drainage	3 Hepatic Artery	X External	3 Infusion Device	1 Drug-Coated Balloon
B Excision	4 Splenic Artery		4 Intraluminal Device, Drug-eluting	2 Mesenteric Artery
C Extirpation	5 Superior Mesenteric Artery		5 Intraluminal Device, Drug-eluting, Two	2 Sustained Release
F Fragmentation	6 Colic Artery, Right		6 Intraluminal Device, Drug-eluting, Three	3 Renal Artery, Right
H Insertion	7 Colic Artery, Left		7 Autologous Tissue Substitute	4 Renal Artery, Left
J Inspection	8 Colic Artery, Middle		7 Intraluminal Device, Drug-eluting, Four or More	5 Renal Artery, Bilateral
L Occlusion	9 Renal Artery, Right		9 Autologous Venous Tissue	6 Bifurcation
N Release	A Renal Artery, Left		A Autologous Arterial Tissue	6 Common Iliac Artery, Right
P Removal	B Inferior Mesenteric Artery		C Extraluminal Device	7 Common Iliac Artery, Left
Q Repair	C Common Iliac Artery, Right		D Intraluminal Device	8 Common Iliac Arteries, Bilateral
R Replacement	D Common Iliac Artery, Left		E Intraluminal Device, Branched or Fenestrated, One or Two Arteries	9 Internal Iliac Artery, Right
S Reposition	E Internal Iliac Artery, Right		E Intraluminal Device, Two	B Internal Iliac Artery, Left
U Supplement	F Internal Iliac Artery, Left		F Intraluminal Device, Branched or Fenestrated, Three or More Arteries	C Internal Iliac Arteries, Bilateral
V Restriction	H External Iliac Artery, Right		F Intraluminal Device, Three	D External Iliac Artery, Right
W Revision	J External Iliac Artery, Left		G Intraluminal Device, Four or More	F External Iliac Artery, Left
	K Femoral Artery, Right		J Synthetic Substitute	G External Iliac Arteries, Bilateral
	L Femoral Artery, Left		K Nonautologous Tissue Substitute	H Femoral Artery, Right
	M Popliteal Artery, Right		L Intraluminal Device, Endovascular Anchors	J Femoral Artery, Left
	N Popliteal Artery, Left		Y Other Device	J Temporary
	P Anterior Tibial Artery, Right		Z No Device	K Femoral Arteries, Bilateral
	Q Anterior Tibial Artery, Left			L Popliteal Artery
	R Posterior Tibial Artery, Right			M Peroneal Artery
	S Posterior Tibial Artery, Left			N Posterior Tibial Artery
	T Peroneal Artery, Right			P Foot Artery
	U Peroneal Artery, Left			Q Lower Extremity Artery
	V Foot Artery, Right			R Lower Artery
	W Foot Artery, Left			S Lower Extremity Vein
	Y Lower Artery			T Uterine Artery, Right
				U Uterine Artery, Left
				V Prostatic Artery, Right
				W Prostatic Artery, Left
				X Diagnostic
				Z No Qualifier

## Appendix M: Combination Clusters

Some ICD-10-PCS codes need to be reported in pairs or in multiple sets to be valid. This appendix is an alphanumeric listing of all these code pairs, also known as “combination clusters.” The data for this appendix comes from the latest version of CMS’ *ICD-10-CM/PCS MS-DRG Definitions Manual*.

To use this appendix, the first code in the cluster needs to be reported with one or more of the additional codes listed for all codes to be considered valid. The example below is for insertion of a cardiac defibrillator lead into the right ventricle (highlighted code). The additional procedure describes the exact location where the lead is inserted, which is required for correct reporting:

**02HK0KZ**

and 0JH609Z

Review the first procedure in the combination cluster to determine if you need to report the additional code.

The CMS website also provides additional information on combinations/clusters.

02H60KZ and 0JH608Z	02H64KZ and 0JH638Z	02H74KZ and 0JH808Z	02HA4RZ and 02PA0RZ	02HK3KZ and 0JH638Z	02HK4KZ and 0JH839Z	02HL3KZ and 0JH808Z
02H60KZ and 0JH638Z	02H64KZ and 0JH808Z	02H74KZ and 0JH838Z	02HA4RZ and 02PA3RZ	02HK3KZ and 0JH639Z	02HK4MZ and 0JH60AZ	02HL3KZ and 0JH809Z
02H60KZ and 0JH808Z	02H64KZ and 0JH838Z	02HA0RS and 02PA0RZ	02HA4RZ and 02PA4RZ	02HK3KZ and 0JH808Z	02HK4MZ and 0JH63AZ	02HL3KZ and 0JH838Z
02H60KZ and 0JH838Z	02H64MZ and 0JH60AZ	02HA0RS and 02PA3RZ	02HK0KZ and 0JH608Z	02HK3KZ and 0JH809Z	02HK4MZ and 0JH80AZ	02HL3KZ and 0JH839Z
02H60MZ and 0JH60AZ	02H64MZ and 0JH63AZ	02HA0RS and 02PA4RZ	02HK0KZ and 0JH609Z	02HK3KZ and 0JH838Z	02HK4MZ and 0JH83AZ	02HL4KZ and 0JH608Z
02H60MZ and 0JH63AZ	02H64MZ and 0JH80AZ	02HA0RZ and 02PA0RZ	02HK0KZ and 0JH638Z	02HK3KZ and 0JH839Z	02HL0KZ and 0JH608Z	02HL4KZ and 0JH609Z
02H60MZ and 0JH80AZ	02H64MZ and 0JH83AZ	02HA0RZ and 02PA3RZ	02HK0KZ and 0JH639Z	02HK3MZ and 0JH60AZ	02HL0KZ and 0JH609Z	02HL4KZ and 0JH638Z
02H60MZ and 0JH83AZ	02H70KZ and 0JH608Z	02HA0RZ and 02PA4RZ	02HK0KZ and 0JH808Z	02HK3MZ and 0JH63AZ	02HL0KZ and 0JH638Z	02HL4KZ and 0JH639Z
02H63KZ and 0JH608Z	02H70KZ and 0JH638Z	02HA0RZ and X2HX0F9	02HK0KZ and 0JH809Z	02HK3MZ and 0JH80AZ	02HL0KZ and 0JH639Z	02HL4KZ and 0JH808Z
02H63KZ and 0JH638Z	02H70KZ and 0JH808Z	02HA3RZ and X2HL0F9	02HK0KZ and 0JH838Z	02HK3MZ and 0JH83AZ	02HL0KZ and 0JH808Z	02HL4KZ and 0JH809Z
02H63KZ and 0JH808Z	02H70KZ and 0JH838Z	02HA3RZ and X2HM0F9	02HK0KZ and 0JH839Z	02HK4KZ and 0JH608Z	02HL0KZ and 0JH809Z	02HL4KZ and 0JH838Z
02H63KZ and 0JH838Z	02H73KZ and 0JH608Z	02HA3RS and 02PA0RZ	02HK0MZ and 0JH60AZ	02HK4KZ and 0JH609Z	02HL0KZ and 0JH838Z	02HL4KZ and 0JH839Z
02H63MZ and 0JH60AZ	02H73KZ and 0JH638Z	02HA3RS and 02PA3RZ	02HK0MZ and 0JH63AZ	02HK4KZ and 0JH638Z	02HL0KZ and 0JH839Z	02PW3RZ and 02HA0RS
02H63MZ and 0JH63AZ	02H73KZ and 0JH808Z	02HA3RS and 02PA4RZ	02HK0MZ and 0JH80AZ	02HK4KZ and 0JH639Z	02HL3KZ and 0JH608Z	02PW3RZ and 02HA0RZ
02H63MZ and 0JH80AZ	02H73KZ and 0JH838Z	02HA4RS and 02PA0RZ	02HK0MZ and 0JH83AZ	02HK4KZ and 0JH808Z	02HL3KZ and 0JH609Z	02PW3RZ and 02HA3RS
02H63MZ and 0JH83AZ	02H74KZ and 0JH608Z	02HA4RS and 02PA3RZ	02HK3KZ and 0JH608Z	02HK4KZ and 0JH809Z	02HL3KZ and 0JH638Z	02PW3RZ and 02HA4RS
02H64KZ and 0JH608Z	02H74KZ and 0JH638Z	02HA4RS and 02PA4RZ	02HK3KZ and 0JH609Z	02HK4KZ and 0JH838Z	02HL3KZ and 0JH639Z	02PW3RZ and 02HA4RZ

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ISBN: 979-8-892581-004

E-Book ISBN: 979-8-892581-714