

Preparing for ICD-10: Understanding the Basics of ICD-10-PCS

AHA CENTRAL OFFICE



An American Hospital Association Service

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Learning Objectives

- Learn the basics of ICD-10-PCS code selection and how to “navigate” the Alphabetical Index and Tabular List
- Understand key concepts and definitions used in constructing an ICD-10-PCS code
- Gain a practical understanding of the 31 root operations and 7 approaches used in the ICD-10-PCS Medical and Surgical Section
- Review examples of the greater specificity available with ICD-10-PCS

What is *ICD-10-PCS*?

- *The International Classification of Diseases, Tenth Revision, Procedure Classification System (ICD-10-PCS)* is the procedure classification system developed as a replacement for volume 3 of the *ICD-9-CM*.

Why Should I Care About ICD-10 Today?

- Familiarizing yourself with the structure and key concepts today will make learning the system less difficult
- You can become a key leader in the implementation process
 - Assist in explaining differences to other members of the healthcare team
 - Determine areas where additional training is needed
 - Analyze available documentation and determine areas where greater specificity may be required
 - Identify potential impact to reimbursement (e.g. contract negotiations)

ICD-9-CM vs. ICD-10 vs. ICD-10-PCS

- ICD-9-CM volume 3 (procedure codes) were developed by the USA
- WHO version of ICD-10 has no procedure classification
- USA needed procedure classification system
- 1992 USA funded a preliminary design project for replacement for volume 3 ICD-9-CM codes.

Development of ICD-10-PCS

- 1992—U.S. Health Care Financing Administration (HCFA, now the Centers for Medicare & Medicaid Services, or CMS) funded preliminary design project to replace volume 3 of the ICD-9-CM.
- 1995—HCFA awarded a three-year contract to 3M Health Information Systems (HIS) to develop procedure coding replacement system.
- The new system was called ICD-10 Procedure Classification System (ICD-10-PCS).

Development of *ICD-10-PCS* (cont.)

- First year: Completion of the first draft.
- Second year: External review and limited informal testing.
- Third year: Formal independent review and testing.
- *ICD-10-PCS* was completed in 1998 and has been updated annually by 3M HIS since then.
- The goal of the revisions is to keep current with medical technology and coding needs.

Technical Advisory Panel

- Convened to provide extensive input into the development process.
- Included representatives from:
 - American Health Information Management Association (AHIMA)
 - American Hospital Association (AHA)
 - American Medical Association
 - Many other medical specialty organizations also contributed to the development of *ICD-10-PCS*.

Main Objectives of *ICD-10-PCS* Development

- **Completeness:** All substantially different procedures should have a unique code.
- **Expandability:** Allow for easy incorporation of unique codes as new procedures are developed.
- **Multi-axial:** Each code character having the same meaning within a specific procedure section and across procedure sections, whenever possible.
- **Standardized methodology:** Unique definitions for the terms used, with each term having a specific meaning.

Guiding Principles in Development

- Diagnostic information is not included in the procedure description.
- Explicit “not otherwise specified” (NOS) options are not provided.
- “Not elsewhere classified” (NEC) options are provided on a limited basis.
- All possible procedures are defined regardless of the frequency of occurrence.
- If a procedure could be performed, a code was created.

Extensive Review

- Drafts of *ICD-10-PCS* were widely distributed to all major physician specialty societies and made available to the general public.
- Feedback from the extensive review was used to make modifications.
- Lack of NOS codes was one of the most frequent concerns raised by the reviewers.
- Medical record documentation may not support the detail required by *ICD-10-PCS*.
 - Modifications were made to the classification to address this concern.

Updating of *ICD-10-PCS*

- As part of the continuous updating of the classification, revisions are made yearly to streamline the classification when necessary and to keep current with new technology changes being made in the *ICD-9-CM* procedure coding.

Field Testing

- Two field-testing projects—a formal one and an informal one.
- Informal test conducted October 1996 with the assistance of the AHA and the AHIMA.
 - Health information professionals volunteered for training and then coded a sample of records from their institutions using *ICD-10-PCS*.
 - Problems, questions, and suggestions were addressed to the *ICD-10-PCS* project staff at 3M HIS.

Field Testing (cont.)

- Formal testing conducted in 1997–98 by HCFA (now CMS) using contractors.
 - Coded a sample of 5,000 medical records using *ICD-10-PCS*.
 - Questions or concerns noted were forwarded to the 3M project staff.
 - Interaction resulted in revisions to the final draft.
- Second phase of the test included a subset of 100 records recoded blindly with both *ICD-9-CM* and *ICD-10-PCS*.
- Systems were compared on ease of use, time needed to identify codes, number of codes required, problems identifying codes, and strengths and weaknesses of each system.

Results of Field Testing

- Coders were able to use *ICD-10-PCS* easily.
- Found that a medical dictionary or anatomy textbook were occasionally needed because of the added detail in *ICD-10-PCS*.
- Initial *ICD-10-PCS* training manual would need to be strengthened with additional examples before it could be used on a national level.
- Once users were familiar with *ICD-10-PCS*, the result would be improved accuracy and efficiency of coding.

Results of Field Testing (cont.)

- Users found the system to be so well organized and well structured that codes could easily be found in the correct section of the Tabular List without using the Index.
- It was felt that *ICD-10-PCS* was an improvement over *ICD-9-CM* because of its greater specificity.
- The major strength identified was the system's detailed structure.
- The level of detail would allow users to more precisely recognize and report procedures performed.

Characteristics

- Sixteen sections in *ICD-10-PCS* represent nearly 72,000 codes.
- *ICD-10-PCS* uses a table structure that permits the specification of a large number of codes on a single page in the Tabular division. The combined Tabular and Index divisions of *ICD-10-PCS* represent nearly half the size of the Tabular List and Index in the World Health Organization's *ICD-10* diagnosis coding manual.

Number of Codes

- ICD-9-CM Procedures
3,838
- ICD-10-PCS
71,957

ICD-10-PCS Design

- Structural attributes recommended in the development
 - Multiaxial structure
 - Completeness
 - Expandability
 - Standardized methodology
- Guiding principles in design
 - Diagnostic information not included in procedure description
 - Explicit “not otherwise specified” (NOS) options not provided
 - “Not elsewhere classified” (NEC) options on a limited basis
 - All possible procedures are defined regardless of frequency

Advantages of ICD-10-PCS

- Provides detailed information on procedures
 - Laterality
 - Methodology
 - Approach
 - Body part
 - Devices
- Ample space for capturing new technology and devices
- Logical structure with clear, consistent definitions

Summary Comparison of ICD-9-CM vs. ICD-10-PCS (Procedures)

ICD-9-CM

- Approximately 3,000 codes
- Based on outdated technology
- Limited space for adding new codes
- Lacks detail
- Lacks laterality
- Generic terms for body parts

ICD-10-PCS

- Approximately 72,000 available codes
- Reflects current usage of medical terminology and devices
- Flexible for adding new codes
- Very specific
- Has laterality
- Detailed descriptions for body parts

Major Differences Between ICD-9-CM (Volume 3) and ICD-10-PCS

ICD-9-CM

- Minimum 3 digits
- Maximum 4 digits
- Decimal point
- Numeric
- Includes notes
- Excludes notes
- No embedded meaning in characters or digits

ICD-10-PCS

- Minimum 7 digits
- Maximum 7 digits
- No decimal point
- Alphanumeric
- Each character can be either alpha or numeric
 - Numbers 0-9
 - Letters A-H, J-N, P-Z
- Alpha characters are not case-sensitive
- Characters have same meaning within sections

Major Modifications in the ICD-10-PCS

- All codes have a unique definition
- Ability to aggregate codes across all essential components of a procedure
- Extensive flexibility
- New procedures and technologies easily incorporated
- Code expansions do not disrupt systematic structure
- Makes limited use of NOS and NEC categories
- All terminology is precisely defined and used consistently across all codes
- No diagnostic information included in the code

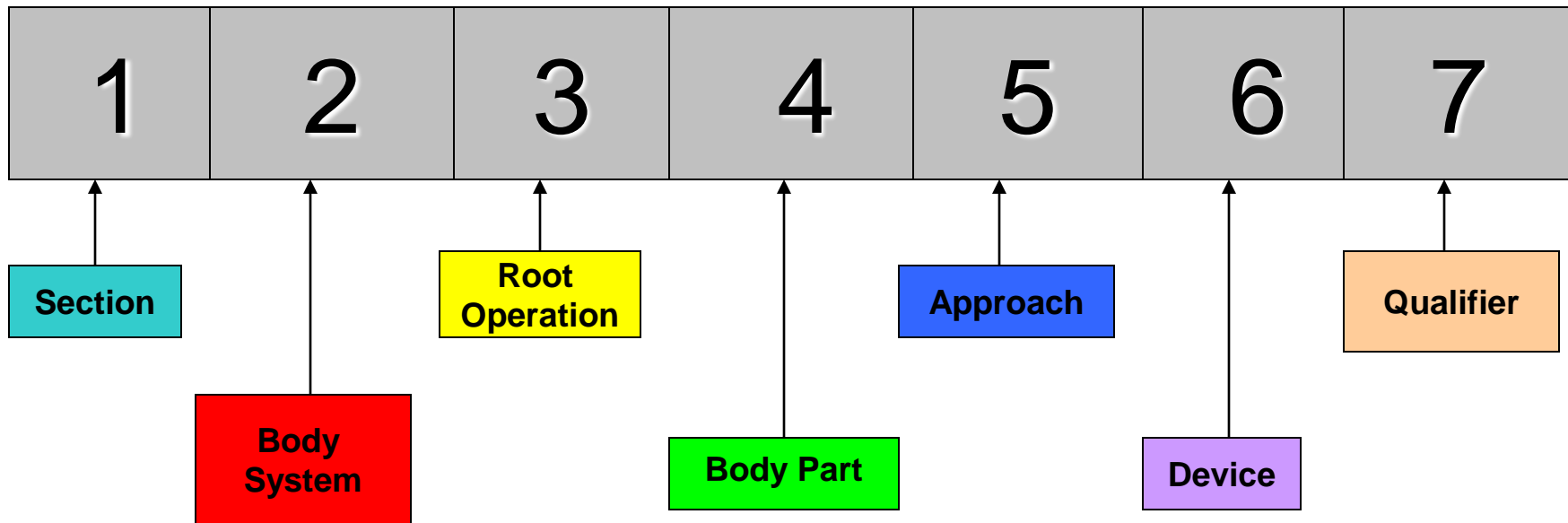
Characteristics

- ICD-10-PCS uses a grid structure that permits the specification of a large number of codes on a single page in the Tabular division
- Standardized terminology within the coding system
- Standardized level of specificity
- No diagnostic information
- No explicit “not otherwise” (NOS) code options
- Limited use of “not elsewhere classified” (NEC) code options

Where to Obtain the ICD-10-PCS

- Free downloadable version from the Centers for Medicare & Medicaid Services website:
 - http://www.cms.hhs.gov/ICD10/01k_2010_ICD10PCS.asp#TopOfPage
 - Code Tables and Index
 - Mapping and User Guide, Reimbursement Guide
 - Code descriptions – long format, table format
 - Development of the ICD-10 Procedure Coding System
 - ICD-10-PCS Reference Manual
 - 2010 Addendum
- Books
 - Currently available from Ingenix
 - Expect 2011 from Channel Publishers

ICD-10-PCS – Characters (Med/Surg)



Change: ICD-10-PCS – Structured Format

Laparoscopic Cholecystectomy

ICD-9-CM

5	1	.	2	3
----------	----------	----------	----------	----------

ICD-10-PCS

0	F	T	4	4	Z	Z
----------	----------	----------	----------	----------	----------	----------

Format

- Index
- Tabular List
- List of Codes

Alphabetical Index

- Arranged in alphabetical order based on the type of procedure performed.
- Refers to Tables by specifying the first three or four characters of code followed by periods.
- Index will not specify the complete code—refer to Tables. Complete code only found in Tables.
- The purpose of the Alphabetical Index is to locate the appropriate table that contains all information necessary to construct a procedure code.

ICD-10-PCS Table

- Unlike ICD-9-CM, 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.
- Within a PCS table, valid codes include all combinations of choices in characters 4 through 7 contained in the same row of the table.
- All 7 characters must be specified to be a valid code.

List of Codes

- The ICD-10-PCS List of Codes displays all valid codes in alphanumeric order.
- Each entry begins with the seven-character code, followed by the full text description.
- The code descriptions are generated using rules that produce standardized, complete and easy-to-read code descriptions.

Sample Alphabetical Index Entries

Cholecystectomy

see Excision, Gallbladder [0FB4](#)

see Resection, Gallbladder [0FT4](#)

Cholecystojejunostomy

see Bypass, Hepatobiliary System and Pancreas [0F1](#)

see Drainage, Hepatobiliary System and Pancreas [0F9](#)

Cholecystopexy

see Repair, Gallbladder [0FQ4](#)

see Reposition, Gallbladder [0FS4](#)

Cholecystoscopy [0FJ44ZZ](#)

Cholecystostomy

see Drainage, Gallbladder [0F94](#)

see Bypass, Gallbladder [0F14](#)

Sample Alphabetical Index Entries (cont.)

Resection *continued*

Eye *continued*

Right **08TOXZZ**

Eyelid

Lower

Left **08TR**

Right **08TQ**

Upper

Left **08TP**

Right **08TN**

Fallopian Tube

Left **OUT6**

Right **OUT5**

Fallopian Tubes, Bilateral **OUT7**

Femoral Shaft

Left **0QT90ZZ**

Right **0QT80ZZ**

Femur

Lower

Left **0QTC0ZZ**

Right **0QTB0ZZ**

Upper

Left **0QT70ZZ**

Right **0QT60ZZ**

Fibula

Left **0QTK0ZZ**

Right **0QTJ0ZZ**

Gallbladder **OFT4**

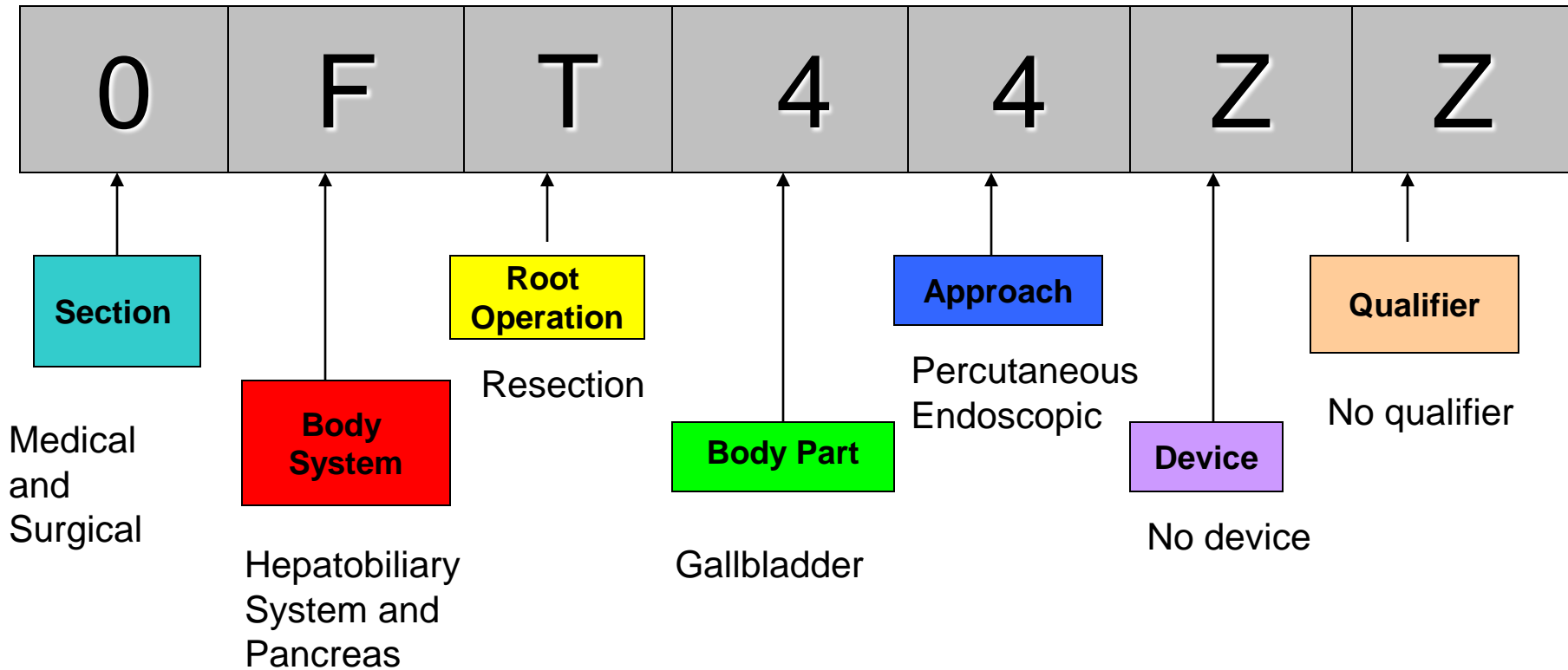
Sample ICD-10-PCS Table

OFT

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<i>Section</i>	0 Medical and Surgical		
<i>Body System</i>	F Hepatobiliary System and Pancreas		
<i>Operation</i>	T Resection: Cutting out or off, without replacement, all of a body part		
<i>Body Part</i>	<i>Approach</i>	<i>Device</i>	<i>Qualifier</i>
0 Liver 1 Liver, Right Lobe 2 Liver, Left Lobe 4 Gallbladder G Pancreas	0 Open 4 Percutaneous Endoscopic	Z No Device	Z No Qualifier
5 Hepatic Duct, Right 6 Hepatic Duct, Left 8 Cystic Duct 9 Common Bile Duct C Ampulla of Vater D Pancreatic Duct F Pancreatic Duct, Accessory	0 Open 4 Percutaneous Endoscopic 7 Via Natural or Artificial Opening 8 Via Natural or Artificial Opening Endoscopic	Z No Device	Z No Qualifier

ICD-10-PCS – Characters (Med/Surg)



Character 1: Section

Broad procedure category, or section, where the code is found

- | | | | |
|---|--|---|---|
| 0 | Medical and Surgical | 7 | Osteopathic |
| 1 | Obstetrics | 8 | Other Procedures |
| 2 | Placement | 9 | Chiropractic |
| 3 | Administration | B | Imaging |
| 4 | Measurement and
Monitoring | C | Nuclear Medicine |
| 5 | Extracorporeal Assistance
and Performance | D | Radiation Oncology |
| 6 | Extracorporeal Therapies | F | Physical Rehabilitation and
Diagnostic Audiology |
| | | G | Mental Health |
| | | H | Substance Abuse
Treatment |

Character 2: Body Systems

General physiological system or anatomical region involved

- | | |
|------------------------------|-------------------------------------|
| 0 Central nervous system | B Respiratory system |
| 1 Peripheral nervous system | C Mouth and throat |
| 2 Heart and great vessels | D Gastrointestinal system |
| 3 Upper arteries | F Hepatobiliary system and pancreas |
| 4 Lower arteries | G Endocrine system |
| 5 Upper veins | H Skin and breast |
| 6 Lower veins | J Subcutaneous tissue and fascia |
| 7 Lymphatic and hemic system | K Muscles |
| 8 Eye | L Tendons |
| 9 Ear, nose, sinus | |

Character 2: Body Systems (cont.)

General physiological system or anatomical region involved

M Bursae and ligaments

N Head and facial bones

P Upper bones

Q Lower bones

R Upper joints

S Lower joints

T Urinary system

U Female reproductive system

V Male reproductive system

W Anatomical regions, general

X Anatomical regions, upper extremities

Y Anatomical regions, lower extremities

Character 3: Root Operations

The objective of the procedure

There are 31 root operations in the Medical and Surgical Section with the corresponding values:

0 Alteration

1 Bypass

2 Change

3 Control

4 Creation

5 Destruction

6 Detachment

7 Dilation

8 Division

9 Drainage

B Excision

C Extirpation

D Extraction

E Fragmentation

F Fusion

G Insertion

Character 3: Root Operations (cont.)

The objective of the procedure

There are 31 root operations in the Medical and Surgical Section with the corresponding values:

J Inspection

K Map

L Occlusion

M Reattachment

N Release

P Removal

Q Repair

R Replacement

S Reposition

T Resection

V Restriction

W Revision

U Supplement

X Transfer

Y Transplantation

Character 4: Body Part

Specific anatomical site where the procedure was performed

Examples from hepatobiliary system and pancreas:

- | | | | |
|---|---------------------|---|-------------------------------|
| 0 | Liver | 9 | Common Bile Duct |
| 1 | Liver, Right Lobe | B | Hepatobiliary Duct |
| 2 | Liver, Left Lobe | C | Ampulla of Vater |
| 4 | Gallbladder | D | Pancreatic Duct |
| 5 | Hepatic Duct, Right | F | Pancreatic Duct,
Accessory |
| 6 | Hepatic Duct, Left | G | Pancreas |
| 8 | Cystic Duct | | |

Character 5: Approach

Technique used to reach the procedure site

Seven different approach values are used in the Medical and Surgical Section:

External	Definition: Procedures performed directly on the skin or mucous membrane and procedures performed indirectly by the application of external force through the skin or mucous membrane
Open	Definition: Cutting through the skin or mucous membrane and any other body layers necessary to expose the site of the procedure
Percutaneous	Definition: Entry, by puncture or minor incision, of instrumentation through the skin or mucous membrane and any other body layers necessary to reach the site of the procedure
Percutaneous Endoscopic	Definition: Entry, by puncture or minor incision, of instrumentation through the skin or mucous membrane and any other body layers necessary to reach and visualize the site of the procedure

Character 5: Approach (cont.)

Technique used to reach the procedure site

Seven different approach values are used in the Medical and Surgical Section:

Via Natural or Artificial Opening	Definition: Entry of instrumentation through a natural or artificial external opening to reach the site of the procedure
Via Natural or Artificial Opening Endoscopic	Definition: Entry of instrumentation through a natural or artificial external opening to reach and visualize the site of the procedure
Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Definition: Entry of instrumentation through a natural or artificial external opening and entry, by puncture or minor incision, of instrumentation through the skin or mucous membrane and any other body layers necessary to aid in the performance of the procedure

Character 6: Device

Used to specify devices that remain after the procedure is completed

Examples of devices:

- | | | | |
|---|------------------------------|---|---------------------------------|
| 0 | Drainage Device | G | Endobronchial Device |
| 2 | Monitoring Device | J | Synthetic Substitute |
| 3 | Infusion Device | K | Nonautologous Tissue Substitute |
| 7 | Autologous Tissue Substitute | U | Feeding Device |
| C | Extraluminal Device | Y | Other Device |
| D | Intraluminal Device | Z | No device |

Character 7: Qualifier

Specifies an additional attribute of the procedure

Examples of qualifiers:

- T Stereotactic
- V Diagnostic Stereotactic
- X Diagnostic
- Z No qualifier

Let's Take a Closer Look at Root Operations

- Key concept to code selection
- Important to master definitions
 - Found on Appendix A
 - Within each Table

Sample Root Operation Definition on ICD-10-PCS Table

Root operation definition

OFT

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<i>Section</i>	O Medical and Surgical		
<i>Body System</i>	F Hepatobiliary System and Pancreas		
<i>Operation</i>	T Resection: Cutting out or off, without replacement, all of a body part		
<i>Body Part</i>	<i>Approach</i>	<i>Device</i>	<i>Qualifier</i>
0 Liver 1 Liver, Right Lobe 2 Liver, Left Lobe 4 Gallbladder G Pancreas	0 Open 4 Percutaneous Endoscopic	Z No Device	Z No Qualifier
5 Hepatic Duct, Right 6 Hepatic Duct, Left 8 Cystic Duct 9 Common Bile Duct C Ampulla of Vater D Pancreatic Duct F Pancreatic Duct, Accessory	0 Open 4 Percutaneous Endoscopic 7 Via Natural or Artificial Opening 8 Via Natural or Artificial Opening Endoscopic	Z No Device	Z No Qualifier

Medical and Surgical Root Operation Groups

Root operations that take out some/all of a body part

Root operation	Objective of procedure	Site of procedure	Example
Excision	Cutting out/off without replacement	Some of a body part	Breast lumpectomy
Resection	Cutting out/off without replacement	All of a body part	Total mastectomy
Detachment	Cutting out/off without replacement	Extremity only, any level	Amputation above elbow
Destruction	Eradicating without replacement	Some/all of a body part	Fulguration of endometrium
Extraction	Pulling out or off without replacement	Some/all of a body part	Suction D&C

Root Operation Examples

- Root Operation: Excision
- Example: Laparoscopic excision of right ovarian cyst **0UB04ZZ**

<i>Section</i>	0 Medical and Surgical		
<i>Body System</i>	U Female Reproductive System		
<i>Operation</i>	B Excision: Cutting out or off, without replacement, a portion of a body part		
<i>Body Part</i>	<i>Approach</i>	<i>Device</i>	<i>Qualifier</i>
0 Ovary, Right			
1 Ovary, Left			
2 Ovaries, Bilateral			
4 Uterine Supporting Structure	0 Open		
5 Fallopian Tube, Right	3 Percutaneous		
6 Fallopian Tube, Left	4 Percutaneous Endoscopic	Z No Device	X Diagnostic
7 Fallopian Tubes, Bilateral	7 Via Natural or Artificial Opening		Z No Qualifier
9 Uterus	8 Via Natural or Artificial Opening Endoscopic		
C Cervix			
F Cul-de-sac			
K Hymen			
G Vagina	0 Open		
	3 Percutaneous		
	4 Percutaneous Endoscopic	Z No Device	X Diagnostic
	7 Via Natural or Artificial Opening		Z No Qualifier
	8 Via Natural or Artificial Opening Endoscopic		
	X External		
J Clitoris			
L Vestibular Gland	0 Open		X Diagnostic
M Vulva	X External	Z No Device	Z No Qualifier

Root Operation Examples (cont.)

- Root Operation: Resection
- Example: Laparoscopic right oophorectomy **OUT04ZZ**

Section	0 Medical and Surgical		
Body System	U Female Reproductive System		
Operation	T Resection: Cutting out or off, without replacement, all of a body part		
Body Part	Approach	Device	Qualifier
0 Ovary, Right	0 Open		
1 Ovary, Left	4 Percutaneous Endoscopic		
2 Ovaries, Bilateral	7 Via Natural or Artificial Opening	Z No Device	Z No Qualifier
5 Fallopian Tube, Right	8 Via Natural or Artificial Opening Endoscopic		
6 Fallopian Tube, Left	F Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance		
7 Fallopian Tubes, Bilateral			
9 Uterus			
4 Uterine Supporting Structure	0 Open		
C Cervix	4 Percutaneous Endoscopic	Z No Device	Z No Qualifier
F Cul-de-sac	7 Via Natural or Artificial Opening		
G Vagina	8 Via Natural or Artificial Opening Endoscopic		
K Hymen			
J Clitoris	0 Open		
L Vestibular Gland	X External	Z No Device	Z No Qualifier
M Vulva			

Root Operation Examples (cont.)

- Root Operation: Detachment
- Example: Below knee amputation, right leg **0Y6H0Z3**

<i>Section</i>	0 Medical and Surgical			
<i>Body System</i>	Y Anatomical Regions, Lower Extremities			
<i>Operation</i>	6 Detachment: Cutting off all or a portion of the upper or lower extremities			
	<i>Body Part</i>	<i>Approach</i>	<i>Device</i>	<i>Qualifier</i>
	2 Hindquarter, Right 3 Hindquarter, Left 4 Hindquarter, Bilateral 7 Femoral Region, Right 8 Femoral Region, Left F Knee Region, Right G Knee Region, Left	0 Open	Z No Device	Z No Qualifier
	C Upper Leg, Right D Upper Leg, Left H Lower Leg, Right J Lower Leg, Left	0 Open	Z No Device	1 High 2 Mid 3 Low

Root Operation Examples (cont.)

- Root Operation: Destruction
- Example: Rectal polyp fulguration **0D5P8ZZ**

<i>Section</i>	0 Medical and Surgical		
<i>Body System</i>	D Gastrointestinal System		
<i>Operation</i>	5 Destruction: Physical eradication of all or a portion of a body part by the direct use of energy, force, or a destructive agent		
<i>Body Part</i>	<i>Approach</i>	<i>Device</i>	<i>Qualifier</i>
1 Esophagus, Upper 2 Esophagus, Middle 3 Esophagus, Lower 4 Esophagogastric Junction 5 Esophagus 6 Stomach 7 Stomach, Pylorus 8 Small Intestine 9 Duodenum A Jejunum B Ileum C Ileocecal Valve E Large Intestine F Large Intestine, Right G Large Intestine, Left H Cecum J Appendix K Ascending Colon L Transverse Colon M Descending Colon N Sigmoid Colon P Rectum	0 Open 3 Percutaneous 4 Percutaneous Endoscopic 7 Via Natural or Artificial Opening 8 Via Natural or Artificial Opening Endoscopic	Z No Device	Z No Qualifier

Root Operation Examples (cont.)

- Root Operation: Extraction
- Example: Diagnostic dilatation and curettage **0UDB7ZX**

Section	0 Medical and Surgical		
Body System	U Female Reproductive System		
Operation	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
B Endometrium	7 Via Natural or Artificial Opening	Z No Device	X Diagnostic
	8 Via Natural or Artificial Opening Endoscopic		Z No Qualifier
N Ova	0 Open	Z No Device	Z No Qualifier
	3 Percutaneous		
	4 Percutaneous Endoscopic		

Medical and Surgical Root Operation Groups

Root operations that take out solids/fluids/gases from a body part

Root operation	Objective of procedure	Site of procedure	Example
Drainage	Taking/letting out fluids/gases	Within a body part	Incision and drainage
Extirpation	Taking/cutting out solid matter	Within a body part	Thrombectomy
Fragmentation	Breaking solid matter into pieces	Within a body part	Lithotripsy

Medical and Surgical Root Operation Groups (cont.)

Root operations involving cutting or separation only

Root operation	Objective of procedure	Site of procedure	Example
Division	Cutting into/separating a body part	Within a body part	Neurotomy
Release	Freeing a body part from constraint	Around a body part	Adhesiolysis

Medical and Surgical Root Operation Groups (cont.)

Root operations that put in/put back or move some/all of a body part

Root operation	Objective of procedure	Site of procedure	Example
Transplantation	Putting in a living body part from a person/animal	Some/all of a body part	Kidney transplant
Reattachment	Putting back a detached body part	Some/all of a body part	Reattach finger
Transfer	Moving a body part to function for a similar body part	Some/all of a body part	Skin transfer flap
Reposition	Moving a body part to normal or other suitable location	Some/all of a body part	Move undescended testicle

Medical and Surgical Root Operation Groups (cont.)

Root operations that alter the diameter/route of a tubular body part

Root operation	Objective of procedure	Site of procedure	Example
Restriction	Partially closing orifice/ lumen	Tubular body part	Gastroesophageal fundoplication
Occlusion	Completely closing orifice/ lumen	Tubular body part	Fallopian tube ligation
Dilation	Expanding orifice/lumen	Tubular body part	Percutaneous transluminal coronary angioplasty (PTCA)
Bypass	Altering route of passage	Tubular body part	Coronary artery bypass graft (CABG)

Medical and Surgical Root Operation Groups (cont.)

Root operations that always involve a device

Root operation	Objective of procedure	Site of procedure	Example
Insertion	Putting in non-biological device	In/on a body part	Central line insertion
Replacement	Putting in device that replaces a body part	Some/all of a body part	Total hip replacement
Supplement	Putting in device that reinforces or augments a body part	In/on a body part	Abdominal wall herniorrhaphy using mesh
Change	Exchanging device w/out cutting/puncturing	In/on a body part	Drainage tube change
Removal	Taking out device	In/on a body part	Central line removal
Revision	Correcting a malfunctioning/displaced device	In/on a body part	Revision of pacemaker insertion

Medical and Surgical Root Operation Groups (cont.)

Root operations involving examination only

Root operation	Objective of procedure	Site of procedure	Example
Inspection	Visual/manual exploration	Some/all of a body part	Diagnostic cystoscopy
Map	Location electrical impulses/ functional areas	Brain/cardiac conduction mechanism	Cardiac electrophysiological study

Medical and Surgical Root Operation Groups (cont.)

Root operations that include other repairs

Root operation	Objective of procedure	Site of procedure	Example
Control	Stopping/attempting to stop postprocedural bleed	Anatomical region	Post-prostatectomy bleeding control
Repair	Restoring body part to its normal structure	Some/all of a body part	Suture laceration

Medical and Surgical Root Operation Groups (cont.)

Root operations that include other objectives

Root operation	Objective of procedure	Site of procedure	Example
Fusion	Rendering joint immobile	Joint	Spinal fusion
Alteration	Modifying body part for cosmetic purposes without affecting function	Some/all of a body part	Face lift
Creation	Making new structure for sex change operation	Perineum	Artificial vagina/penis

Guidelines

- Draft guidelines have been developed by the Cooperating Parties (American Hospital Association, American Health Information Management Association, Centers for Medicare & Medicaid Services and the National Center for Health Statistics), in collaboration with the 3M Health Information Systems *ICD-10-PCS* project staff.
- The guidelines are divided into three categories:
 - General,
 - Medical and Surgical section (section 0), and
 - Other medical- and surgical-related sections (sections 1–9).

Guidelines (cont.)

- Guidelines within the Medical and Surgical section are further grouped by character (e.g., body system, root operation, and so on).
- The guidelines are numbered sequentially within each category for ease of reference.

ICD-9-CM Angioplasty code 39.50

ICD-10-PCS has 1,170 angioplasty codes specifying body part, approach, and device, including:

- 047K04Z Dilation of right femoral artery with drug-eluting intraluminal device, open approach
- 047K0DZ Dilation of right femoral artery with intraluminal device, open approach
- 047K0ZZ Dilation of right femoral artery, open approach
- 047K24Z Dilation of right femoral artery with drug-eluting intraluminal device, open endoscopic approach
- 047K2DZ Dilation of right femoral artery with intraluminal device, open endoscopic approach

ICD-10-PCS Code Examples

ICD-9-CM

- **81.51** Total hip replacement
- AND
- **00.74** Hip bearing surface, metal-on-polyethylene

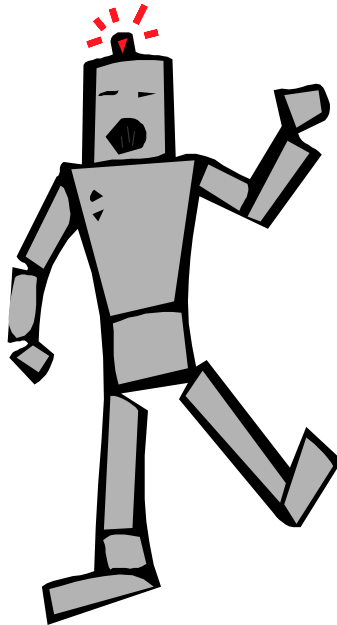
ICD-10-PCS

- **0SR90J5** Replacement of right hip joint with synthetic substitute, metal on polyethylene, open approach

ICD-10-PCS Code Examples (cont.)

ICD-9-CM

- **17.43** Percutaneous robotic assisted procedure



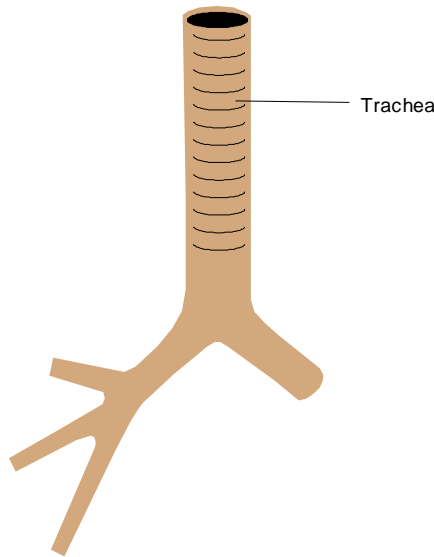
ICD-10-PCS

- **8E093CZ** Robotic assisted procedure of head and neck region, percutaneous approach
- **8E0W3CZ** Robotic assisted procedure of trunk region, percutaneous approach
- **8E0X3CZ** Robotic assisted procedure of upper extremity, percutaneous approach
- **8E0Y3CZ** Robotic assisted procedure of lower extremity, percutaneous approach

ICD-10-PCS Code Examples (cont.)

ICD-9-CM

- **92.27** Implantation or insertion of radioactive elements



ICD-10-PCS

- **0BH071Z** Insertion of radioactive element into tracheobronchial tree, via natural or artificial opening
 - Multiple codes based on site (e.g., right eye, breast, pancreas) and approach (external, open, percutaneous, percutaneous endoscopic, via natural or artificial opening)

ICD-10-PCS Code Examples (cont.)

ICD-9-CM

- **00.66** Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy
- **00.40** Procedure on single vessel
- **00.45** Insertion of one vascular stent
- **36.07** Insertion of drug-eluting coronary artery stents(s)
- **00.44** Procedure on vessel bifurcation

ICD-10-PCS

- **0270346** Dilation of coronary artery, one site, bifurcation, with drug-eluting intraluminal device, percutaneous approach

ICD-10-PCS Code Examples (cont.)

ICD-9-CM

55.69 Other kidney transplantation

52.82 Homotransplant of pancreas

00.93 Transplant from cadaver

00.91 Transplant from live related donor

ICD-10-PCS

0TY00Z1 Transplantation of Right Kidney, Syngeneic, Open Approach

0FYG0Z0 Transplantation of Pancreas, Allogeneic, Open Approach

ICD-10-PCS Code Examples (cont.)

ICD-9-CM

36.12 (Aorto)coronary
bypass of two
coronary arteries

ICD-10-PCS

021109W Bypass Coronary Artery, Two
Sites to Aorta with Autologous
Venous Tissue, Open Approach

02110AW Bypass Coronary Artery,
Two Sites to Aorta with Autologous
Arterial Tissue, Open Approach

02110JW Bypass Coronary Artery, Two
Sites to Aorta with Synthetic
Substitute, Open Approach

02110KW Bypass Coronary Artery, Two
Sites to Aorta with Nonautologous
Tissue Substitute, Open Approach

Note: plus four codes for percutaneous
endoscopic approach

Updating of ICD-10-PCS

- As part of the continuous updating of the classification, revisions are made yearly to streamline the classification when necessary and to keep current with new technology changes being made in the *ICD-9-CM* procedure coding.
- Code set freeze?

Questions?

