ICD-10 Procedure Coding System (ICD-10-PCS)

Development Background

- CMS awarded a contract to 3M Health Information Systems to develop a new procedure coding system
- The new system is intended to replace ICD-9-CM Volume 3 for reporting inpatient procedures

Development History

1995 - 1996: First draft of ICD-10-PCS completed

1996 - 1997: Training program developed

Informal testing conducted

ICD-10-PCS revised

1997 - 1998: Independent formal testing conducted

ICD-10-PCS revised

Final draft completed

1998-present ICD-10-PCS updated annually

Major Development Goals

- Improve accuracy and efficiency of coding
- Reduce training effort
- Improve communication with physicians

Essential Attributes

- Completeness
 - All substantially different procedures have a unique code
- Expandability
 - The structure of the system allows incorporation of new procedures as unique codes

Essential Attributes

Standardized terminology

- Includes definitions of the terminology used.
 - While the meaning of specific words can vary in common usage, ICD-10-PCS defines a single meaning for each term used in the system.

Essential Attributes

Multiaxial

The system has a multi-axial structure.
 Each character has the same meaning within a section and across sections to the extent possible

General Principles

- Diagnostic information is not included in the code description
- A 'not elsewhere classified' option is allowed for new devices and substances
- All substantially different procedures are defined

General Principles Limited NOS Option

A general body part, approach, or root operation can be used when the level of specificity required is not available in the record or cannot otherwise be obtained

General Principles Limited NOS Option

Body Part:

 Example: "Liver" is used when the specific liver lobe is not identified

Approach:

 "Open", "Percutaneous" and "Via Natural or Artificial Opening"are used when a more specific type of approach is not documented and cannot otherwise be determined

Root Operation:

 "Repair" is used when the procedure documentation does not support a specific root operation and the information cannot otherwise be obtained

Code Structure

- Codes are comprised of seven components.
 Each component is called a "character"
 - All codes are seven characters long
- Individual units for each character are represented by a letter or number
 - Each unit is called a "value"
- 34 possible values for each character
 - Digits 0- 9
 - Letters A-H, J-N, P-Z

System Structure 16 Sections

- Medical and Surgical
- Obstetrics
- Placement
- Administration
- Measurement and Monitoring
- Extracorporeal Assistance and Performance
- Extracorporeal Therapies
- Osteopathic

- Other Procedures
- Chiropractic
- Imaging
- Nuclear Medicine
- Radiation Oncology
- Physical Rehabilitation and Diagnostic Audiology
- Mental Health
- Substance Abuse Treatment

ICD-10-PCS Tables

Each table contains four columns and varying numbers of rows

Column: Specifies the allowable values for

characters 4-7

Row: Specifies the valid combinations of

values

Example: Table ODB Excerpt

| 0DB | | | Back to Top | | |
|--|---|--|--------------------|--------------------------------|--|
| Section Body System Operation | D GastroinB Excision | Medical and Surgical Gastrointestinal System Excision: Cutting out or off, without replacement, a portion of a body part | | | |
| Body Part | | Approach | Device | Qualifier | |
| 1 Esophagus, Upper 2 Esophagus, Middle 3 Esophagus, Lower 4 Esophagogastric Junction 5 Esophagus 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 | | O Open Percutaneous Percutaneous Endoscopic Via Natural or Artificial Opening Via Natural or Artificial Opening Endoscopic | Z No Device | X Diagnostic Z No Qualifier | |

ICD-10-PCS Index

- Provides the first three or four values of the code
- The tables must always be used to obtain the complete code
- No eponyms are included

Index Conventions

 Main index term is a root operation, root procedure type, or common procedure name

Examples: Resection (root operation)

Fluoroscopy (root type)

Prostatectomy (common procedure name)

- Secondary entries are underneath the main term
- PCS Table or code reference as specific as possible

Index Entry by Body Part

Bypass

Aorta, Thoracic 021W

Aorta, Abdominal **0410**

Artery, Axillary, Left 03160

Artery, Axillary, Right 03150

Artery, Brachial, Left 03180

Artery, Brachial, Right **03170**

Artery, Common Carotid, Left 031J0

Artery, Common Carotid, Right 031H0

Medical and Surgical Section

Medical and Surgical Section Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Operation
- 4th Character = Body Part
- 5th Character = Approach
- 6th Character = Device
- 7th Character = Qualifier

Medical and Surgical Section Principles

 The root operation is based on the objective of the procedure

 If multiple procedures as defined by distinct objectives are performed, then multiple codes are assigned

Medical and Surgical Section Principles

- Root Operation
 - Value is consistent throughout the section
- Approach
 - Value is consistent throughout the section
- Body part
 - Value is consistent within a specific body system

Section Character Medical and Surgical Section

Section (Character 1)

- Defines the general type of procedure
- In the Medical and Surgical Section the first character is always the number "0"

Body System Character Medical and Surgical Section

Body System

(Character 2)

- Defines the general physiological system on which the procedure is performed, or anatomical region where the procedure is performed
- Uses generally accepted anatomical or physiological categories
- Some traditional categories are subdivided into several body systems.
 - Cardiovascular is subdivided into five body systems:

Heart and Great Vessels

Upper Veins

Upper Arteries

Lower Veins

Lower Arteries

Medical and Surgical Section Body Systems

Central Nervous

Peripheral Nervous

Heart and Great Vessels

Upper Arteries

Lower Arteries

Upper Veins

Lower Veins

Lymphatic and Hemic

Eye

Ear, Nose, Sinus

Respiratory

Mouth and Throat

Gastrointestinal

Hepatobiliary and Pancreas

Endocrine

Skin and Breast

Subcutaneous Tissue and Fascia

Muscles

Tendons

Bursae and Ligaments

Head and Facial Bones

Upper Bones

Lower Bones

Upper Joints

Lower Joints

Urinary

Female Reproductive

Male Reproductive

Anatomical Regions, General

Anatomical Regions, Upper Extremities

Anatomical Regions, Lower Extremities

Root Operation Character

Medical and Surgical Section

Medical and Surgical Section Root Operation (Character 3)

- Defines the objective of the procedure
- 31 different root operation values
 - Each root operation identifies a precise and distinct objective

Medical and Surgical Section Root Operations

Alteration

Bypass

Change

Control

Creation

Destruction

Detachment

Dilation

Division

Drainage

Excision

Extirpation

Extraction

Fragmentation

Fusion

Insertion

Inspection

Map

Occlusion

Reattachment

Release

Removal

Repair

Replacement

Reposition

Resection

Restriction

Revision

Supplement

Transfer

Transplantation

Medical and Surgical Section Root Operation Principles

- The root operation is coded according to the objective of the procedure actually performed
 - Discontinued or modified procedures coded to procedure actually performed
- Composite terms (e.g., colonoscopy, sigmoidectomy) are not root operations

Medical and Surgical Section Root Operation Principles

- Combination procedures are coded separately
 - Each procedure with a distinct objective during an operative episode is coded separately
- The complete or partial redo of a procedure is coded to the root operation performed rather than *Revision*
 - Revision is confined to correcting a malfunctioning or displaced device

Medical and Surgical Section Root Operation Groups

- Procedures that take out or eliminate all or a portion of a body part
- Procedures that involve putting in or on, putting back, or moving body parts
- Procedures that take out or eliminate solid matter, fluids, or gases from a body part
- Procedures that only involve examination of body parts and regions

Medical and Surgical Section Root Operation Groups

- Procedures that can be performed only on tubular body parts
- Procedures that always involve devices
- Procedures involving cutting or separation only
- Procedures involving other repairs
- Procedures with other objectives

Medical and Surgical Section Root Operations

Procedures that take out or eliminate all or a portion of a body part

- **»**Excision
- »Resection
- »Extraction
- **»**Destruction
- **»**Detachment

Medical and Surgical Section Root Operations <u>Excision</u>

Definition Cutting out or off, without

replacement, a portion of a body part

Explanation The qualifier *Diagnostic* is used to

identify excision procedures that are

biopsies

Examples Partial nephrectomy

Liver biopsy

Medical and Surgical Section Root Operations <u>Resection</u>

Definition Cutting out or off, without replacement,

all of a body part

Examples Total nephrectomy

Total lobectomy of lung

Medical and Surgical Section Root Operations <u>Extraction</u>

Definition Pulling or stripping out or off all or a portion of

a body part by the use of force

Explanation The qualifier *Diagnostic* is used to identify

extraction procedures that are biopsies

Examples Dilation and curettage

Vein stripping

Medical and Surgical Section Root Operations <u>Destruction</u>

Definition Physical eradication of all or a portion of a

body part by the direct use of energy, force or

a destructive agent

Explanation None of the body part is physically taken out

Examples Fulguration of rectal polyp

Cautery of skin lesion

Detachment

Definition Cutting off all or part of the upper

or lower extremities

Explanation 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

Examples Below knee amputation

Disarticulation of shoulder

Procedures that involve putting in or on, putting back, or moving living body parts

- » Transplantation
- » Reattachment
- » Reposition
- » Transfer

Medical and Surgical Section Root Operations Transplantation

Definition

Putting in or on all or a portion of a living body part taken from another individual or animal to physically take the place and/or function of all or a portion of a similar body part

Explanation

The native body part may or may not be taken out, and the transplanted body part may take over all or a portion of its function

Examples

Kidney transplant Heart transplant

Medical and Surgical Section Root Operations Reattachment

Definition Putting back in or on all or a portion of a

separated body part to its normal location or

other suitable location

Explanation Vascular circulation and nervous pathways

may or may not be reestablished

Examples Reattachment of hand

Reattachment of avulsed kidney

Medical and Surgical Section Root Operations Reposition

Definition Moving to its normal location or other suitable

location all or a portion of a body part

Explanation The body part is moved to a new location from

an abnormal location, or from a normal location

where it is not functioning correctly. The body

part may or may not be cut out or off to be

moved to the new location

Examples Reposition of undescended testicle

Fracture reduction

Definition Moving, without taking out, all or a portion of

a body part to another location to take over

the function of all or a portion of a body part

Explanation The body part transferred remains connected to

its vascular and nervous supply

Examples Tendon transfer

Skin pedicle flap transfer

Procedures that take out or eliminate solid matter, fluids or gases from a body part

- » Drainage
- » Extirpation
- » Fragmentation

Medical and Surgical Section Root Operations Drainage

Definition Taking or letting out fluids and/or

gases from a body part

Explanation The qualifier *Diagnostic* is used to

identify drainage procedures that are

biopsies

Examples Thoracentesis

Incision and drainage

Medical and Surgical Section Root Operations <u>Extirpation</u>

Definition Taking or cutting out solid matter from a body

part

Explanation The solid matter may be an abnormal byproduct

of a biological function or a foreign body; it may

be imbedded in a body part or in the lumen of a

tubular body part. The solid matter may or may

not have been previously broken into pieces

Examples Thrombectomy

Choledocholithotomy

Medical and Surgical Section Root Operations Fragmentation

Definition Breaking solid matter in a body part into pieces

Explanation Physical force (e.g., manual, ultrasonic) applied

directly or indirectly is used to break the solid matter into pieces. The solid matter may be an abnormal byproduct of a biological function or

a foreign body. The pieces of solid matter are

not taken out

Examples Extracorporeal shockwave lithotripsy

Transurethral lithotripsy

Procedures that only involve examination of body parts and regions

»Inspection

»Map

Medical and Surgical Section Root Operations Inspection

Definition Visually and/or manually exploring a

body part

Explanation Visual exploration may be performed

with or without optical instrumentation.

Manual exploration may be performed

directly or through intervening body

layers

Examples Diagnostic arthroscopy

Exploratory laparotomy

Medical and Surgical Section Root Operations <u>Map</u>

Definition Locating the route of passage of

electrical impulses and/or locating

functional areas in a body part

Explanation Applicable only to the cardiac

conduction mechanism and the central

nervous system

Examples Cardiac mapping

Cortical mapping

Procedures that can be performed only on tubular body parts

- **»**Bypass
- »Dilation
- **»**Occlusion
- »Restriction

Medical and Surgical Section Root Operations <u>Bypass</u>

Definition Altering the route of passage of the contents of a tubular

body part

Explanation 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

Examples Coronary artery bypass

Colostomy formation

Medical and Surgical Section Root Operations <u>Dilation</u>

Definition Expanding an orifice or the lumen of a tubular

body part

Explanation 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

Examples Percutaneous transluminal angioplasty

Pyloromyotomy

Medical and Surgical Section Root Operations Occlusion

Definition Completely closing the orifice or lumen of a

tubular body part

Explanation The orifice can be a natural orifice or an

artificially created orifice

Example Fallopian tube ligation

Ligation of inferior vena cava

Medical and Surgical Section Root Operations Restriction

Definition Partially closing the orifice or lumen of a

tubular body part

Explanation The orifice can be a natural orifice or an

artificially created orifice

Examples Esophagogastric fundoplication

Cervical cerclage

Procedures that always involve devices

- » Insertion
- » Replacement
- » Supplement
- » Removal
- » Change
- » Revision

Medical and Surgical Section Root Operations Insertion

Definition 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

Examples Insertion of radioactive implant

Insertion of central venous catheter

Medical and Surgical Section Root Operations Replacement

Definition Putting in or on biological or synthetic material that

physically takes the place and/or function of all or a portion

of a body part

Explanation The body part may have been taken out or replaced, or may

be taken out, physically eradicated, or rendered

nonfunctional during the Replacement procedure. A

Removal procedure is coded for taking out the device used

in a previous replacement procedure

Examples Total hip replacement, bone graft

Free skin graft

Medical and Surgical Section Root Operations Supplement

Definition Putting in or on biological or synthetic material that

physically reinforces or augments the function of a body part

Explanation The biological material is non-living, or the biological

material is living and from the same individual. The body part may have been previously replaced. If the body part has been previously replaced, the *Supplement* procedure is performed to physically reinforce and/or augment the

function of the replaced body part

Examples Herniorrhaphy using mesh, free nerve mitral valve ring

annuloplasty, put a new acetabular liner in a previous hip

replacement

Medical and Surgical Section Root Operations <u>Removal</u>

Definition Taking out or off a device from a body part

Explanation If a device is taken out and a similar device put in

without cutting or puncturing the skin or mucous

membrane, the procedure is coded to the root

operation *Change*. Otherwise, the procedure for taking out a device is coded to the root operation

Domestal

Removal

Examples Drainage tube removal

Cardiac pacemaker removal

Definition

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

Explanation

All Change procedures are coded using the approach *External*

Examples

Urinary catheter change Gastrostomy tube change

Definition Correcting, to the extent possible, a

malfunctioning or displaced device

Explanation Revision can include correcting a

malfunctioning or displaced device by

taking out or putting in components of the

device such as a screw

Examples Adjustment of position of pacemaker lead

Recementing of hip prosthesis

Procedures involving cutting or separation only

- **»**Division
- »Release

Medical and Surgical Section Root Operations <u>Division</u>

Definition Cutting into a body part without draining

fluids and/or gasses from the body part in

order to separate or transect a body part

Explanation All or a portion of the body part is

separated into two or more portions

Examples Spinal cordotomy, osteotomy

Definition Freeing a body part from an abnormal

physical constraint by cutting or by use of

force

Explanation Some of the restraining tissue may be taken

out but none of the body part is taken out

Examples Adhesiolysis

Carpal tunnel release

Procedures involving other repairs

»Control

»Repair

Medical and Surgical Section Root Operations <u>Control</u>

Definition Stopping, or attempting to stop,

post-procedure bleeding

Explanation The site of the bleeding is coded as an

anatomical region and not to a specific

body part

Examples Control of post-prostatectomy

hemorrhage

Control of post-tonsillectomy hemorrhage

Definition Restoring, to the extent possible, a body

part to its normal anatomic structure and

function

Explanation Used only when the method to

accomplish the repair is not one of the

other root operations

Examples Colostomy takedown

Suture of laceration

Procedures with other objectives

- »Alteration
- »Creation
- **»**Fusion

Medical and Surgical Section Root Operations <u>Alteration</u>

Definition Modifying the anatomical

structure of a body part without

affecting the function of the body part

Explanation Principal purpose is to improve

appearance

Examples Face lift

Breast augmentation

Medical and Surgical Section Root Operations <u>Creation</u>

Definition Making a new genital structure that

does not take over the function of a

body part

Explanation Used only for sex change operations

Examples Creation of vagina in a male

Creation of penis in a female

Medical and Surgical Section Root Operations <u>Fusion</u>

Definition Joining together portions of an articular

body part rendering the articular body

part immobile

Explanation The body part is joined together by

fixation device, bone graft, or other

means

Examples Spinal fusion

Ankle arthrodesis

Body Part Character

Medical and Surgical Section

Medical and Surgical Section Body Part Character (Character 4)

Defines the specific anatomical site where the procedure is performed

34 possible body part values in each body system

Medical and Surgical Section Body Part Values Hepatobiliary and Pancreas

Liver Cystic Duct

Liver, Right Lobe Common Bile Duct

Liver, Left Lobe Ampulla of Vater

Gallbladder Pancreatic Duct

Hepatic Duct, Right Pancreatic Duct, Accessory

Hepatic Duct, Left Pancreas

Approach Character

Medical and Surgical Section

Medical and Surgical Section Approach (Character 5)

 Defines the technique used to reach the site of the procedure

7 different approach values

Medical and Surgical Section Approach

Approaches through the skin or mucous membrane

- Open
- Percutaneous
- Percutaneous Endoscopic

Medical and Surgical Section Approach Definitions OPEN

Cutting through the skin or mucous membrane and any other body layers necessary to expose the site of the procedure

Example: Abdominal hysterectomy

Medical and Surgical Section Approach Definitions PERCUTANEOUS

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

Example: Needle biopsy of liver

Medical and Surgical Section Approach Definitions PERCUTANEOUS ENDOSCOPIC

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

Example: Arthroscopy

Medical and Surgical Section Approach

Approaches through an orifice

- Via Natural or Artificial Opening
- Via Natural or Artificial Opening Endoscopic
- Via Natural or Artificial Opening with Percutaneous Endoscopic Assistance

Medical and Surgical Section Approach Definitions VIA NATURAL OR ARTIFICIAL OPENING

Entry of instrumentation through a natural or artificial external opening to reach the site of the procedure

Example: Endotracheal intubation

Medical and Surgical Section Approach Definitions VIA NATURAL OR ARTIFICIAL OPENING ENDOSCOPIC

Entry of instrumentation through a natural or artificial external opening to reach and visualize the site of the procedure

Example: Sigmoidoscopy

Medical and Surgical Section Approach Definitions

VIA NATURAL OR ARTIFICIAL OPENING WITH PERCUTANEOUS ENDOSCOPIC ASSISTANCE

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

Example: Laparoscopic-assisted vaginal hysterectomy

Medical and Surgical Section Approach Definitions <u>EXTERNAL</u>

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

Example: Closed fracture reduction

Device Character

Medical and Surgical Section

Medical and Surgical Section Device Character

(Character 6)

- The term "device" includes only devices that remain after the procedure is completed
- Instruments that describe how a procedure is performed are not specified in the device character
 - Instruments for visualization are specified in the approach character
- Materials incidental to a procedure such as clips and sutures are not considered devices

Medical and Surgical Section Device Categories

- Biological or synthetic material that takes the place of all or a portion of a body part (e.g., skin graft, joint prosthesis)
- Biological or synthetic material that assists or prevents a physiological function (e.g., urinary catheter, IUD)

Medical and Surgical Section Device Categories

- Therapeutic material that is not absorbed by, eliminated by, or incorporated into a body part (e.g., radioactive implant, orthopedic pins). Therapeutic materials that are considered devices can be removed
- Mechanical or electronic appliances used to assist, monitor, take the place of, or prevent a physiological function (e.g., diaphragmatic pacemaker, hearing device)

Medical and Surgical Section Examples of Device Values

- Drainage Device
- Radioactive Element
- Autologous Tissue Substitute
- Extraluminal Device
- Intraluminal Device
- Synthetic Substitute
- Nonautologous
 Tissue Substitute

Qualifier

Medical and Surgical Section

Medical and Surgical Section Qualifier

(Character 7)

- Defines an additional attribute of the procedure performed, if applicable
- May have a narrow application, to a specific root operation, body system, or body part

Medical and Surgical Section Examples of Qualifiers

- Type of transplant
- Second site for a bypass
- Diagnostic excision (biopsy)

Obstetrics Section

Obstetrics Section

Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Operation
- 4th Character = Body Part
- 5th Character = Approach
- 6th Character = Device
- 7th Character = Qualifier

Obstetrics Section

- Includes only procedures performed on the products of conception
- Operations on the pregnant female are coded in the Medical and Surgical section (e.g., episiotomy)
- Two root operations unique to this section
- Other root operations same as Medical and Surgical section (e.g., Drainage, Inspection)

Obstetrics Section Body System (Character 2)

Contains a single body system:

Pregnancy

Obstetrics Section Root Operation (Character 3)

Abortion: Artificially terminating a pregnancy

Delivery: Assisting the passage of the products of

conception from the genital canal

Obstetrics Section Body Part (Character 4)

Contains three different values for body part

- Products of Conception
- Products of Conception, Retained
- Products of Conception, Ectopic

Obstetrics Section Body Part

- Products of conception refers to all components of a pregnancy, including the fetus, embryo, amnion, umbilical cord and placenta
- There is no differentiation of the products of conception based on gestational age

Obstetrics Section Device (Character 6)

Some device values unique to this section Examples:

Laminaria

Abortifacient

Monitoring Electrode

Obstetrics Section Qualifier (Character 7)

Values are dependent on the root operation, approach, or body part

Examples (root operation dependent):

Method of extraction (e.g., low forceps, vacuum)

Substance drained (e.g., amniotic fluid, fetal blood)

Obstetrics Section Table 10D

10D Back to Top

| Section Body System | 1 Obstetrics 0 Pregnancy | | | | |
|---------------------------------|------------------------------|---|--------------------|--|--|
| 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 | |
| 0 Products of Conception | | 0 Open | Z No Device | Classical Low Cervical Extraperitoneal | |
| 0 Products of Conception | | 7 Via Natural or Artificial Opening | Z No Device | 3 Low Forceps 4 Mid Forceps 5 High Forceps 6 Vacuum 7 Internal Version 8 Other | |
| | | 7 Via Natural or Artificial Opening 8 Via Natural or Artificial Opening Endoscopic | Z No Device | Z No Qualifier | |

Placement Section

Placement Section

Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Operation
- 4th Character = Body Region/ Orifice
- 5th Character = Approach
- 6th Character = Device
- 7th Character = Qualifier

Placement Section Body System (Character 2)

Contains two body system values:

- Anatomical Regions
- Anatomical Orifices

Placement Section Root Operation (Character 3)

- Five root operations unique to this section
 - Compression
 - Dressing
 - Immobilization
 - Packing
 - Traction
- Two root operations common to other sections
 - Change
 - Removal

Placement Section Root Operation (Character 3)

Compression: Putting pressure on a body region

Dressing: Putting material on a body region for

protection

Immobilization: Limiting or preventing motion of

a body region

Packing: Putting material in a body region or

orifice

Traction: Exerting a pulling force on a body

region in a distal direction

Placement Section Body Regions/Orifices (Character 4)

- Two types of values:
 - External body regions (e.g., chest wall)
 - Natural orifices (e.g., mouth and pharynx)

Placement Section Device (Character 6)

- Specifies the material or device in the placement procedure (e.g., splint, bandage)
- Includes casts for fractures and dislocations
- Devices in the placement section are off the shelf and do not require any extensive design, fabrication or fitting
- The placement of devices that require extensive design, fabrication or fitting are coded in the Rehabilitation section

Placement Section Table 2Y4

2Y4 Back to Top

| Section | 2 | Placement | | | |
|----------------------|----|---|---------------------------|-----------------------|-----------|
| Body System | Y | Anatomical Orifices | | | |
| Operation | 4 | Packing: Putting material in a body region or orifice | | | |
| Body Region | | | Approach | Device | Qualifier |
| Mouth and Pharynx | (| | | | |
| 1 Nasal | | X External | 5 Packing Material | Z No Qualifier | |
| 2 Ear | | | | | |
| 3 Anorectal | | | | | |
| 4 Female Genital Tra | ct | | | | 1 |
| 5 Urethra | | | | | 1 |

Administration Section

Administration Section

Character Specification

- 1st Character = Section
- 2nd Character = Physiological System
- 3rd Character = Root Operation
- 4th Character = Body System/ Region
- 5th Character = Approach
- 6th Character = Substance
- 7th Character = Qualifier

Administration Section Body System (Character 2)

Contains three body system values:

- Physiological Systems and Anatomical Regions
- Circulatory
- Indwelling Device

Administration Section Root Operation (Character 3)

Physiological Systems and Anatomical Regions

Introduction: Putting in a therapeutic, diagnostic,

nutritional, physiological or

prophylactic substance except blood

or blood products

Irrigation: Putting in or on a cleansing

substance

Administration Section Root Operation (Character 3)

Circulatory System

Transfusion: Putting in blood or blood

products

Administration Section Root Operation (Character 3)

Indwelling Device

Irrigation: Putting in or on a cleansing

substance

Administration Section Body Part (Character 4)

- For Introduction, the body part specifies where the procedure occurs and not necessarily the site where the substance introduced has an effect
- For Irrigation, the body part specifies the site of the irrigation

Administration Section Approach (Character 5)

- Approach uses values defined in the Medical and Surgical section
- The approach value for intradermal, subcutaneous and intramuscular introductions (i.e., injections) is percutaneous
- If a catheter is used to introduce a substance into a site within the circulatory system, the approach value is also percutaneous

Administration Section Substance (Character 6)

- Substances are specified in broad categories
- Substance values depend on body part

Administration Section Substance

Physiological System & Anatomical Regions

Examples:

Antineoplastic Local Anesthetic

Thrombolytic Regional Anesthetic

Anti-infective Inhalation Anesthetic

Anti-inflammatory Gas

Radioactive Substance Contrast Agent

Nutritional Substance Fertilized Ovum

Electrolytic and Water Balance Sperm

Substance

Irrigating Substance

Dialysate

Pigment

Platelet Inhibitor

Destructive Agent

Administration Section Substance Circulatory System

Examples:

Serum Albumin White Cells

Frozen Plasma Platelets

Fresh Plasma Globulin

Plasma Cryoprecipitate Fibrinogen

Red Blood Cells Factor IX

Stem Cells, Hematopoietic

Bone Marrow

Administration Section Qualifier (Character 7)

- May further specify a substance
- Examples:
 - High-dose Interleukin-2
 - Liquid Brachytherapy Isotope
 - Insulin

Administration Section Table 302 Excerpt

302 Back to Top

| Section Body System Operation | ly System 0 Circulatory | | | |
|---|-------------------------|----------------------|--|----------------------------|
| Body System / Region | | Approach | Substance | Qualifier |
| 3 Peripheral Vein 4 Central Vein | | Open Percutaneous | A Stem Cells, Embryonic | Z No Qualifier |
| 4 Central Vein 3 Peripheral Vein 4 Central Vein | | Open Percutaneous | G Bone Marrow H Whole Blood J Serum Albumin K Frozen Plasma L Fresh Plasma M Plasma Cryoprecipitate N Red Blood Cells P Frozen Red Cells Q White Cells R Platelets S Globulin T Fibrinogen V Antihemophilic Factors W Factor IX X Stem Cells, Cord Blood Y Stem Cells, Hematopoietic | O Autologous Nonautologous |

Measurement and Monitoring Section

Measurement and Monitoring Section Character Specification

- 1st Character = Section
- 2nd Character = Physiological System
- 3rd Character = Root Operation
- 4th Character = Body System
- 5th Character = Approach
- 6th Character = Function
- 7th Character = Qualifier

Measurement and Monitoring Body System (Character 2)

Contains a single body system value:

Physiological Systems

Measurement and Monitoring Root Operation

(Character 3)

Measurement: Determining the level of a

physiological or physical

function at a point in time

Monitoring: Determining the level of a

physiological or physical

function repetitively over a

period of time

Measurement and Monitoring Approach (Character 5)

Approach contains values also in the Medical and Surgical section

Examples:

Percutaneous

Via Natural or Artificial Opening Endoscopic

Measurement and Monitoring Function (Character 6)

Specifies physiological or physical functions (e.g., nerve conductivity, cardiac electrical activity, respiratory capacity)

Measurement and Monitoring Table 4A1 Excerpt

4A1 Back to Top

| Section 4 Measu | rement and Monitoring | | | | | |
|--------------------------|--|---------------------------------------|------------------------------------|--|--|--|
| Body System A Physio | ody System A Physiological Systems | | | | | |
| Operation 1 Monito | ring: Determining the level of a physiological | or physical function repetitively | over a period of time | | | |
| Body System | Approach | Function / Device | Qualifier | | | |
| Central Nervous | 0 Open 2 Conductivity B Pressure | | Z No Qualifier | | | |
| 0 Central Nervous | 0 Open | 4 Electrical Activity | G Intraoperative Z No Qualifier | | | |
| 0 Central Nervous | 3 Percutaneous | 4 Electrical Activity | G Intraoperative Z No Qualifier | | | |
| 0 Central Nervous | 3 Percutaneous | B Pressure K Temperature R Saturation | D Intracranial | | | |
| Central Nervous | 7 Via Natural or Artificial Opening | B Pressure K Temperature R Saturation | D Intracranial | | | |
| Central Nervous | X External | 2 Conductivity | Z No Qualifier | | | |
| Central Nervous | X External | 4 Electrical Activity | G Intraoperative Z No Qualifier | | | |
| <u> </u> | | | Ti- | | | |

Extracorporeal Assistance and Performance Section

Extracorporeal Assistance and Performance Section

Character Specification

- 1st Character = Section
- 2nd Character = Physiological System
- 3rd Character = Root Operation
- 4th Character = Body System
- 5th Character = Duration
- 6th Character = Function
- 7th Character = Qualifier

Extracorporeal Assistance and Performance Body System (Character 2)

Contains a single body system value:

Physiological Systems

Extracorporeal Assistance and Performance Root Operation (Character 3)

Assistance: Taking over a portion of a physiological

function by extracorporeal means

Performance: Completely taking over a physiological

function by extracorporeal means

Restoration: Returning, or attempting to return, a

physiological function to its normal

state by extracorporeal means

Extracorporeal Assistance and Performance Duration (Character 5)

- Specifies whether the procedure was a single occurrence, multiple occurrence, intermittent, or continuous
- For respiratory ventilation assistance or performance, the range of hours is specified (<24 hours, 24-96 hours or >96 hours)

Extracorporeal Assistance and Performance Function (Character 6)

Specifies the physiological function assisted or performed (e.g., oxygenation, ventilation)

Extracorporeal Assistance and Performance Qualifier (Character 7)

May specify equipment used in the procedure (e.g., balloon pump)

Extracorporeal Assistance and Performance Table 5A2

5A2 Back to Top

| Section | 5 | Extracorporeal Assistance and Performance | | | | | |
|---------------------------------------|--------|---|-----------|----------------|--|--|--|
| Body System | Α | Physiological Systems | | | | | |
| Operation | 2 | 2 Restoration: Returning, or attempting to return, a physiological function to its original state by extracorporeal | | | | | |
| | means. | | | | | | |
| Body System Duration Function Qualifi | | | Qualifier | | | | |
| 2 Cardiac | | 0 Single | 4 Rhythm | Z No Qualifier | | | |

Extracorporeal Therapies Section

Extracorporeal Therapies Section Character Specification

- 1st Character = Section
- 2nd Character = Physiological System
- 3rd Character = Root Operation
- 4th Character = Body System
- 5th Character = Duration
- 6th Character = Qualifier
- 7th Character = Qualifier

Extracorporeal Therapies Body System (Character 2)

Contains a single body system value:

Physiological Systems

Extracorporeal Therapies Root Operation (Character 3)

Contains ten root operation values:

Atmospheric Control Pheresis

Decompression Phototherapy

Electromagnetic Therapy Ultrasound Therapy

Hyperthermia Ultraviolet Light

Hypothermia Therapy

Shock Wave Therapy

Extracorporeal Therapies Duration (Character 5)

Specifies whether the procedure was a single occurrence, multiple occurrence, or intermittent

Osteopathic Section

Osteopathic Section Character Specification

- 1st Character = Section
- 2nd Character = Anatomical Regions
- 3rd Character = Root Operation
- 4th Character = Body Region
- 5th Character = Approach
- 6th Character = Method
- 7th Character = Qualifier

Osteopathic Section Body System (Character 2)

Contains a single body system value:

Anatomical Regions

Osteopathic Section Root Operation (Character 3)

Contains a single root operation value Treatment:

> Manual treatment to eliminate or alleviate somatic dysfunction and related disorders

Osteopathic Section Method (Character 6)

- Articulatory Raising
- Fascial Release
- General Mobilization
- High Velocity Low Amplitude
- Indirect
- Low Velocity- High Amplitude
- Lymphatic Pump
- Muscle Energy Isometric
- Muscle Energy Isotonic
- Other Method

Other Procedures Section

Other Procedures Section Character Specification

- 1st Character = Section
- 2nd Character = Physiological Systems/ Anatomical Regions
- 3rd Character = Root Operation
- 4th Character = Body Region
- 5th Character = Approach
- 6th Character = Method
- 7th Character = Qualifier

Other Procedures Section Root Operation (Character 3)

Contains a single root operation value Other Procedures:

Methodologies which attempt to remediate or cure a disorder or disease

Other Procedures Section Body Region (Character 4)

Contains physiological system and anatomical region values:

- Nervous System
- Circulatory System
- Head and Neck Region
- Integumentary System and Breast
- Musculoskeletal System
- Female Reproductive System
- Male Reproductive System
- Trunk Region
- Upper Extremity
- Lower Extremity
- None

Miscellaneous Section Method (Character 6)

- Acupuncture
- Therapeutic Massage
- Collection

- Computer Assisted Procedure
- Robotic Assisted Procedure
- Near Infrared Spectroscopy
- Other Method

Chiropractic Section

Chiropractic Section

Character Specification

- 1st Character = Section
- 2nd Character = Anatomical Regions
- 3rd Character = Root Operation
- 4th Character = Body Region
- 5th Character = Approach
- 6th Character = Method
- 7th Character = Qualifier

Chiropractic Section Body System (Character 2)

Contains a single body system value:

Anatomical Regions

Chiropractic Section Root Operation (Character 3)

Contains a single root operation value Manipulation:

 Manual procedure that involves a directed thrust to move a joint past the physiological range of motion, without exceeding the anatomical limit

Chiropractic Section Method

(Character 6)

- Non-Manual
- Indirect Visceral
- Extra-Articular
- Direct Visceral
- Long Lever Specific Contact
- Long and Short Lever Specific Contact
- Mechanically Assisted
- Other Method

Imaging Section

Imaging Section

Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Type
- 4th Character = Body Part
- 5th Character = Contrast
- 6th Character = Qualifier
- 7th Character = Qualifier

Imaging Section

- Contains diagnostic radiology procedures
 - Nuclear medicine is a separate section
 - Radiation Oncology is a separate section
 - Interventional Radiology
 - The intervention procedure is coded in the Medical and Surgical section

Imaging Section Root Type (Character 3)

- Plain Radiography
- Fluoroscopy
- CT Scan
- MRI
- Ultrasound

Imaging Section Root Type Definitions

(Character 3)

Imaging Section Root Type Plain Radiography

Planar display of an image developed from the capture of external ionizing radiation on photographic or photoconductive plate

Imaging Section Root Type

Fluoroscopy

Single plane or bi-plane real time display of an image developed from the capture of external ionizing radiation on a fluorescent screen. The image may also be stored by either digital or analog means

Imaging Section Root Type Computerized Tomography (CT Scan)

Computer-reformatted digital display of multiplanar images developed from the capture of multiple exposures of external ionizing radiation

Imaging Section Root Type Magnetic Resonance Imaging (MRI)

Computer-reformatted digital display of multiplanar images developed from the capture of radio-frequency signals emitted by nuclei in a body site excited within a magnetic field

Imaging Section Root Type Ultrasonography

Real time display of images of anatomy or flow information developed from the capture of reflected and attenuated high frequency sound waves

Imaging Section Contrast Material (Character 5)

 Contrast is differentiated by the concentration of the contrast material (e.g., high or low osmolar)

Imaging Section Qualifier (Character 6)

 Specifies an imaging procedure without contrast followed by contrast

Nuclear Medicine Section

Nuclear Medicine Section Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Type
- 4th Character = Body Part
- 5th Character = Radionuclide
- 6th Character = Qualifier
- 7th Character = Qualifier

Nuclear Medicine Section Type Definitions (Character 3)

Nuclear Medicine Root Type Planar Imaging

Introduction of radioactive materials into the body for a single plane display of images developed from the capture of radioactive emissions

Nuclear Medicine Root Type Tomographic (Tomo) Imaging

Introduction of radioactive materials into the body for three dimensional display of images developed from the capture of radioactive emissions

Nuclear Medicine Root Type Positron Emission Tomographic (PET) Imaging

Introduction of radioactive materials into the body for three dimensional display of images developed from the simultaneous capture, 180 degrees apart, of radioactive emissions

Nuclear Medicine Root Type Nonimaging Uptake

Introduction of radioactive materials into the body for measurements of organ function, from the detection of radioactive emissions

Nuclear Medicine Root Type Nonimaging Probe

Introduction of radioactive materials into the body for the study of distribution and fate of certain substances by the detection of radioactive emissions; or, alternatively, measurement of absorption of radioactive emissions from an external source

Nuclear Medicine Root Type Nonimaging Assay

Introduction of radioactive materials into the body for the study of body fluids and blood elements, by the detection of radioactive emissions

Nuclear Medicine Root Type Systemic Therapy

Introduction of unsealed radioactive materials into the body for treatment

Nuclear Medicine Section Body Part (Character 4)

- Indicates the body part or region to the degree of specificity that is usual and appropriate for the section
- Regional (e.g., lower extremity veins) and combination body parts (e.g., liver and spleen) are commonly used

Nuclear Medicine Section Radionuclide (Character 5)

- Character 5 is the source of the radiation
- An "Other Radionuclide" option is included for new FDA approved radiopharmaceuticals

Radiation Oncology Section

Radiation Oncology Section Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Type
- 4th Character = Treatment Site
- 5th Character = Modality Qualifier
- 6th Character = Isotope
- 7th Character = Qualifier

Radiation Oncology Section Root Type (Character 3)

Classified by the basic mode of radiation delivery used:

- -Beam Radiation
- Brachytherapy
- -Stereotactic Radiosurgery
- -Other Radiation

Radiation Oncology Section Treatment Site (Character 4)

Specifies the body part that is the target of the radiation therapy

Radiation Oncology Section Modality Qualifier (Character 5)

Further specifies the type of radiation used:

- -photons
- -electrons
- –heavy particles
- –contact radiation

Radiation Oncology Section Isotope (Character 6)

 Specifies the isotope administered in oncology treatments

Physical Rehabilitation and Diagnostic Audiology Section

Physical Rehabilitation and Diagnostic Audiology Section

Character Specification

- 1st Character = Section
- 2nd Character = Section Qualifier
- 3rd Character = Root Type
- 4th Character = Body System and Region
- 5th Character = Type Qualifier
- 6th Character = Equipment
- 7th Character = Qualifier

Physical Rehabilitation and Diagnostic Audiology Root Type (Character 3)

Treatment:

Use of specific activities or methods to develop, improve and/or restore the performance of necessary functions, compensate for dysfunction and /or minimize debilitation

Assessment:

Includes a determination of the patient's diagnosis when appropriate, need for treatment, planning for treatment, periodic assessment and documentation related to these activities

Physical Rehabilitation and Diagnostic Audiology Root Type (Character 3)

Fitting(s):

Design, fabrication, modification, selection and/or application of splint, orthosis, prosthesis, hearing aids and/or rehabilitation device

Caregiver Training:

Educating caregiver with the skills and knowledge used to interact with and assist the patient

Physical Rehabilitation and Diagnostic Audiology Body System and Region (Character 4)

- Body Systems
 - Neurological System
 - Circulatory System
 - Respiratory System
 - Integumentary System
 - Musculoskeletal System
 - Genitourinary System
- Body Regions
 - Head and Neck
 - Upper Back/Upper Extremity
 - Lower Back/Lower Extremity
 - Whole Body

Physical Rehabilitation and Diagnostic Audiology Type Qualifier (Character 5)

Specifies the precise test or method employed

Examples:

Therapeutic exercise treatment

Dressing or transfer assessment

Prosthesis fitting

Transfer caregiver training

Physical Rehabilitation and Diagnostic Audiology Equipment (Character 6)

- Specific types of equipment are not listed
- General categories of equipment are listed (e.g., physical agents, mechanical modalities, assistive/adaptive/supportive devices)

Mental Health Section

Mental Health Section

Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Type
- 4th Character = Type Qualifier
- 5th Character = Qualifier
- 6th Character = Qualifier
- 7th Character = Qualifier

Mental Health Section Root Type (Character 3)

Psychological Tests

Crisis Intervention

Medication Management

Individual Psychotherapy

Counseling

Family Psychotherapy

Electroconvulsive Therapy

Biofeedback

Hypnosis

Narcosynthesis

Group Psychotherapy

Light Therapy

Mental Health Section Type Qualifier (Character 4)

- Type qualifier provides additional specificity
- Not all types have type qualifier

Mental Health Section Type Qualifier (Character 4)

Example:

Psychological Tests

- Developmental
- Personality and Behavioral
- Intellectual and Psychoeducational
- Neuropsychological
- Neurobehavioral and Cognitive Status

Mental Health Section Qualifier (Character 5 - 7)

Have a value of "Z" None

Substance Abuse Treatment Section

Substance Abuse Section Character Specification

- 1st Character = Section
- 2nd Character = Body System
- 3rd Character = Root Type
- 4th Character = Type Qualifier
- 5th Character = Qualifier
- 6th Character = Qualifier
- 7th Character = Qualifier

Substance Abuse Treatment Root Type (Character 3)

Detoxification Services
Individual Counseling
Group Counseling
Individual Psychotherapy

Family Counseling
Medication Management
Pharmacotherapy

Substance Abuse Treatment Type Qualifier (Character 4)

- Type qualifier provides additional specificity
- Not all types have type qualifier

Substance Abuse Treatment Type Qualifier (Character 4)

Example:

Pharmacotherapy

- Nicotine Replacement Therapy
- Methadone Maintenance
- LAAM
- Antabuse
- Naltrexone
- Naloxone
- Clonidine
- Bupropion
- Psychiatric Medications
- Other Replacement Medication

 RLM MD 06/11

Substance Abuse Treatment Qualifier

(Character 5 - 7)

Have a value of "Z" None

ICD-10-PCS Testing

ICD-10-PCS Testing

- Tested by Clinical Data Abstraction Centers (CDACs)
 - FMAS, Columbia, MD
 - DynKePRO, York, PA
- Coded 5,000 records
 - Offered feedback on issues found
 - Suggested improvements
- Additional comparison test of 100 records
- Additional testing on ambulatory records

Major Modifications as a Result of Testing

- Limited Not Otherwise Specified (NOS) options added
- Number of approaches reduced
- Training manual revised
- Index entries added

Testing Findings

- More complete than ICD-9-CM, greater specificity
- Easy to expand the system
- Multi-axial structure makes it easier to analyze
- Standardized terminology makes it easier to use once the coder has initial training

Testing Findings

Initial training time will be a factor since it differs significantly from ICD-9-CM

- Having all terms defined makes it easier to teach
- Once basic knowledge is acquired, the coder does not use the index