

ROOT OPERATION

Medical and Surgical Section Root Operation (Character 3)

- **Specifies the underlying objective of the procedure**

Medical and Surgical Section Terminology of ICD-10-PCS

- **In common usage the meaning of specific medical terms can vary**
- **ICD-10-PCS establishes a definition of all possible distinct objectives of procedures**
- **Each distinct objective of a procedure (e.g., cutting out or off, without replacement, a portion of a body part) is assigned a single descriptive term (e.g., excision)**
- **The descriptive term selected may not always correspond to all variations of common usage**

Medical and Surgical Section Terminology of ICD-10-PCS

**The critical issue is the definition and not
the term selected as a label for the
definition**

Medical and Surgical Section Root Operations (Character3)

- **The current ICD-9-CM uses many different terms to describe essentially the same procedure**
- **All possible Medical and Surgical procedures comprise only 30 different root operations**

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

Transfer

Transplantation

Medical and Surgical Section Root Operations

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

Medical and Surgical Section Root Operations

- **Operations which can be performed only on tubular body parts**
- **Operations which always involve devices**
- **Other miscellaneous operations**

Medical and Surgical Section Root Operations

Operations which take out or eliminate all or a portion of a body part

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

Medical and Surgical Section

Root Operations

Excision

Definition **Cutting out or off, without replacement, a portion of a body part**

Explanation **Involves the act of cutting with either a sharp instrument or other method such as a hot knife or laser**

Examples **Partial nephrectomy**
Wedge ostectomy
Pulmonary segmentectomy

Medical and Surgical Section Root Operations Resection

Definition	Cutting out or off, without replacement, all of a body part
Explanation	Involves the act of cutting with either a sharp instrument or other method such as a hot knife or laser
Examples	Total gastrectomy Pneumonectomy Total nephrectomy

Medical and Surgical Section Root Operations Extraction

- Definition** Taking out or off, by use of force, all or a portion of a body part
- Explanation** The body part is not completely dissected free but is pulled or stripped by the use of force (e.g. manual, suction, etc.) from its location
- Examples** Phrenic nerve avulsion
Vein stripping
Dermabrasion
Tooth extraction

Medical and Surgical Section

Root Operations

Destruction

Definition **Eradicating all or a portion of a body part**

Explanation **The actual physical destruction of all or a portion of a body part by the direct use of energy, force or a destructive agent. There is no tissue taken out**

Examples **Fulgurate rectal polyp**
Crush fallopian tube

Medical and Surgical Section Root Operations Detachment

Definition **Cutting off all or a portion of an extremity**

Explanation **Pertains only to extremities. The body part determines the level of the detachment. All of the body part(s) distal to the detachment level are detached**

Examples **Shoulder disarticulation
Below knee amputation**

Medical and Surgical Section Root Operations

**Operations which always 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 all or a portion of a living body part taken from another individual or animal to physically take the place and/or the function of all or a portion of a similar body part
Explanation	The native body part may or may not be taken out. The transplanted body part may either physically take the place of the native body part or simply take over all or a portion of its function
Examples	Lung transplant Kidney transplant

Medical and Surgical Section Root Operations Reattachment

Definition	Putting back in or on all or a portion of a body part
Explanation	Pertains only to body parts that have been severed. May or may not involve the re-establishment of vascular and nervous supplies
Examples	Reattach penis Reattach hand Replant parathyroids Reattach a severed 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 repositioned may be normal, aberrant or compromised but attached and it may or may not be severed during the repositioning**

Examples **Reposition undescended testicle
Reposition an aberrant kidney**

Medical and Surgical Section Root Operations Transfer

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 is not severed from the body. Its vascular and nerve supply remain intact. The body part whose function is taken over may or may not be similar
Examples	Nerve transfer Tendon transfer

Medical and Surgical Section Root Operations

Operations which 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 fluids or gases may be normal or abnormal
Examples	I & D of an abscess Thoracentesis

Medical and Surgical Section

Root Operations

Extirpation

Definition	Taking or cutting out solid matter from a body part
Explanation	Taking out solid matter (which may or may not have been broken up) by cutting with either a sharp instrument or other method of cutting such as hot knife or laser, by blunt dissection, by pulling, by stripping or by suctioning, with the intent not to take out any appreciable amount of the body part. The solid matter may be imbedded in the tissue of the body part or in the lumen of a tubular body part
Examples	Sequestrectomy Cholelithotomy

Medical and Surgical Section

Root Operations

Fragmentation

Definition	Breaking down solid matter in a body part
Explanation	Physically breaking up solid matter which is not normally present in a body part such as stones and foreign bodies. The break up may be accomplished by direct physical force or shock waves applied directly or indirectly through intervening layers. The resulting debris is not taken out but is passed from the body or absorbed by the body. The solid matter may be in the lumen of a tubular body part or in a body cavity
Examples	Lithotripsy urinary stones Lithotripsy gallstones

Medical and Surgical Section Root Operations

**Operations which 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 Looking at a body part directly or with an optical instrument or feeling the body part directly or through intervening body layers

Examples Diagnostic arthroscopy
Exploratory laparotomy

Medical and Surgical Section Root Operations Map

Definition **Locating the route of passage of electrical impulses and/or locating functional areas in a body part**

Explanation **Confined to the cardiac conduction system and central nervous system**

Examples **Map cardiac conduction pathways
Locate cortical areas**

Medical and Surgical Section Root Operations

**Operations that can be performed only on
tubular body parts**

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

Medical and Surgical Section Root Operations Bypass

Definition	Altering the route of passage of the contents of a tubular body part
Explanation	Rerouting contents around an area of a body part to another distal (downstream) area in the normal route; rerouting the contents to another different but similar route and body part; or to an abnormal route and another dissimilar body part. It includes one or more concurrent anastomoses with or without the use of a device such as autografts, tissue substitutes and synthetic substitutes
Examples	Gastrojejunal bypass Coronary artery bypass

Medical and Surgical Section

Root Operations

Dilation

Definition **Expanding an orifice or the lumen of a tubular body part**

Explanation **Stretching by pressure using intraluminal instrumentation**

Examples **Dilate the trachea**
Dilate the anal sphincter

Medical and Surgical Section

Root Operations

Occlusion

Definition **Completely closing the orifice or lumen of a tubular body part**

Explanation **Can be accomplished intraluminally or extraluminally**

Examples **Ligate vas deferens**
Fallopian tube ligation

Medical and Surgical Section Root Operations Restriction

Definition **Partially closing the orifice or lumen of a tubular body part**

Explanation **Can be accomplished intraluminally or extraluminally**

Examples **Fundoplication
Cervical cerclage**

Medical and Surgical Section Root Operations

Operations which always involve devices

- **Insertion**
- **Replacement**
- **Removal**
- **Change**

Medical and Surgical Section Root Operations Insertion

Definition **Putting in a nonbiological appliance that monitors, assists, performs or prevents a physiological function or prepares a body part but does not physically take the place of a body part**

Examples **Implant a radioactive element
Insert a diaphragmatic pacemaker**

Medical and Surgical Section

Root Operations

Replacement

Definition	Putting in or on biological or synthetic material that physically takes the place of all or a portion of a body part
Explanation	The biological material may be living similar or dissimilar tissue from the same individual or non-living similar or dissimilar tissue from the same individual, another individual or animal. The body part replaced may have been previously taken out, previously replaced, or may be taken out concomitant with the replacement
Examples	Total hip replacement Free skin graft Pedicle skin graft

Medical and Surgical Section Root Operations Removal

Definition Taking out or off a device from a body part

Explanation May or may not involve invasive intervention

Examples Remove a drainage tube
Remove a pacemaker

Medical and Surgical Section Root Operations Change

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 Requires no invasive intervention

Examples Change a drainage tube

Medical and Surgical Section Root Operations

Miscellaneous Operations

- **Alteration**
- **Creation**
- **Control**
- **Division**
- **Fusion**
- **Release**
- **Repair**
- **Revision**

Medical and Surgical Section Root Operations Alteration

Definition **Modifying the natural 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 Control

Definition	Stopping, or attempting to stop, post procedural bleeding
Explanation	Confined to post procedure bleeding and limited to Upper Extremities, Lower Extremities and Anatomical Regions
Examples	Control of post prostatectomy bleeding Control of post pneumonectomy bleeding

Medical and Surgical Section Root Operations Creation

Definition	Making a new structure that does not physically take the place of a body part
Explanation	Confined to sex change operations where new genitalia are made
Examples	Create an artificial vagina in a male Create an artificial penis in a female

Medical and Surgical Section Root Operations Division

Definition	Separating, without taking out, a body part
Explanation	Separating into two or more portions by sharp or blunt dissection
Examples	Bisect an ovary Spinal cordotomy Divide a patent ductus

Medical and Surgical Section Root Operations Fusion

Definition **Joining together portions of an articular body part rendering the articular body part immobile**

Explanation **Confined to joints**

Examples **Spinal fusion
Ankle arthrodesis**

Medical and Surgical Section Root Operations Release

Definition **Freeing a body part**

Explanation **Eliminating abnormal compression or restraint by sharp or blunt dissection. Some of the restraining tissue may be taken out but none of the body part itself is taken out**

Examples **Lyse peritoneal adhesions
Free median nerve**

Medical and Surgical Section Root Operations Repair

Definition	Restoring, to the extent possible, a body part to its natural anatomic structure
Explanation	An operation of exclusion. Most of the other operations are some type of repair but if the objective of the procedure is one of the other operations then that operation is coded. If none of the other operations are performed to accomplish the repair then the operation “repair” is coded
Examples	Tracheoplasty Suture laceration Herniorrhaphy

Medical and Surgical Section Root Operation Revision

Definition	Correcting a portion of a previously performed procedure
Explanation	Redoing a portion of a previously performed procedure that has failed to function as intended. Revisions exclude the complete redo of the procedure and procedures to correct complications that do not require the redoing of a portion of the original procedure, such as the control of bleeding
Examples	Revise hip replacement Revise gastroenterostomy

Medical and Surgical Section Root Operations Revision (Cont'd.)

The original operation on which the revision is being performed is identified in the qualifier character

Medical and Surgical Section Root Operations

Terms which are integral parts of procedure are not root operations

Examples:

INCISION

- A means of opening

ANASTOMOSIS

- A means of joining

Integral Components of the Procedure Are Not Coded Separately

Guidelines for non-coded integral components will be developed after further experience is gained with the system. Such as:

- Routine drainage of the operative site and operative wound is not coded**
- Unless inspection is the only objective of the procedure, concomitant inspection is not coded**
- Unless resection or excision is the only objective of the procedure, concomitant resection or excision is not coded**