Surgical site infection surveillance protocol

(Updated May 2019)

OPCS codes supplement.
OPCS CODES

CODES FOR SURGICAL PROCEDURES INCLUDED IN THE
SURVEILLANCE OF SSI

List of surgical procedures in each category with corresponding OPCS
codes and minimum wound class
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Mandatory Procedures

Caesarean section

The minimum wound class for Caesarean section is clean contaminated.

**R17  Elective caesarean delivery (*clean contaminated*)**

- R17.1 Elective upper uterine segment caesarean delivery
- R17.2 Elective lower uterine segment caesarean delivery
- R17.8 Other specified
- R17.9 Unspecified

**R18  Other caesarean delivery (*clean contaminated*)**

*Includes: Emergency caesarean delivery Excludes: Caesarean hysterectomy (R25.1)*

- R18.1 Upper uterine segment caesarean delivery NEC
- R18.2 Lower uterine segment caesarean delivery NEC
- R18.8 Other specified
- R18.9 Unspecified

- R25.1 Caesarean hysterectomy
Hip arthroplasty

The minimum wound class for Hip arthroplasty is clean.

W37  Total prosthetic replacement of hip joint using cement (clean)

W37.1  Primary total prosthetic replacement of hip joint using cement
W37.2  Conversion to total prosthetic replacement of hip joint using cement
W37.3  Revision of total prosthetic replacement of hip joint using cement
W37.4  Revision of one component of total prosthetic replacement of hip joint using cement
W37.8  Other specified
W37.9  Unspecified
W37.0  Conversion from previous cemented total prosthetic replacement of hip joint

W38  Total prosthetic replacement of hip joint not using cement (clean)

W38.1  Primary total prosthetic replacement of hip joint not using cement
W38.2  Conversion to total prosthetic replacement of hip joint not using cement
W38.3  Revision of total prosthetic replacement of hip joint not using cement
W38.4  Revision of one component of total prosthetic replacement of hip joint not using cement
W38.8  Other specified
W38.9  Unspecified
W38.0  Conversion from previous cemented total prosthetic replacement of hip joint

W39  Other total prosthetic replacement of hip joint (clean)

W39.1  Primary total prosthetic replacement of hip joint (not elsewhere classified, NEC)
W39.2  Conversion to total prosthetic replacement of hip joint NEC
W39.3  Revision of total prosthetic replacement of hip joint NEC
W39.5  Revision of one component of total prosthetic replacement of hip joint NEC
W39.8  Other specified
W39.9  Unspecified
W39.0  Conversion from previous total prosthetic replacement of hip joint NEC
W93 Hybrid prosthetic replacement of hip joint using cemented acetabular component (clean)

W93.1 Primary hybrid prosthetic replacement of hip joint using cemented acetabular component
W93.2 Conversion to hybrid prosthetic replacement of hip joint using cemented acetabular component
W93.3 Revision of hybrid prosthetic replacement of hip joint using cemented acetabular component
W93.8 Other specified
W93.9 Unspecified
W93.0 Conversion from previous hybrid prosthetic replacement of hip joint using cemented acetabular component.

W94 Hybrid prosthetic replacement of hip joint using cemented femoral component (clean)

W94.1 Primary hybrid prosthetic replacement of hip joint using cemented femoral component
W94.2 Conversion to hybrid prosthetic replacement of hip joint using cemented femoral component.
W94.3 Revision of hybrid prosthetic replacement of hip joint using cemented femoral component.
W94.8 Other specified
W94.9 Unspecified
W94.0 Conversion from previous hybrid prosthetic replacement of hip joint using cemented femoral component.

W95 Hybrid prosthetic replacement of hip joint using cement (clean)
Includes: Hybrid prosthetic replacement of hip joint NEC

W95.1 Primary hybrid prosthetic replacement of hip joint using cement NEC
W95.2 Conversion of hybrid prosthetic replacement of hip joint using cement NEC
W95.3 Revision of hybrid prosthetic replacement of hip joint using cement NEC
W95.4 Attention to hybrid prosthetic replacement of hip joint using cement NEC
W95.8 Other specified
W95.9 Unspecified
W95.0 Conversion from previous hybrid prosthetic replacement of hip joint using cement NEC
Resurfacing of hip joint

W58 Other reconstruction of joint (*clean*)

W58.1 Primary resurfacing arthroplasty of joint
W58.2 Revision of resurfacing arthroplasty of joint
W58.8 Other specified
W58.9 Unspecified
W58.0 Conversion from previous resurfacing of joint

Replacement of acetabulum

(*Please note that these codes are also used for partial knee replacement procedures.*)

W52 Prosthetic replacement of articulation of other bone using cement (*clean*)

*Includes: Prosthetic hemiarthroplasty of articulation of bone using cement NEC*

W52.1 Primary prosthetic replacement of articulation of bone using cement not elsewhere classified
W52.2 Conversions to prosthetic replacement of articulation of bone using cement not elsewhere classified
W52.3 Revision of prosthetic replacement of articulation of bone using cement not elsewhere classified
W52.8 Other specified
W52.9 Unspecified
W52.0 Conversion from previous cemented prosthetic replacement of articulation of bone NEC

W53 Prosthetic replacement of articulation of other bone not using cement (*clean*)

*Includes: Prosthetic hemiarthroplasty of articulation of bone not using cement not elsewhere classified*

W53.1 Primary prosthetic replacement of articulation of bone not using cement not elsewhere classified
W53.2 Conversions to prosthetic replacement of articulation of bone not using cement not elsewhere classified
W53.3 Revision of prosthetic replacement of articulation of bone not using cement not elsewhere classified
W53.8 Other specified
W53.9 Unspecified
W53.0 Conversion from previous uncemented prosthetic replacement of articulation of bone NEC
### W54 Other prosthetic replacement of other bone *(clean)*

*Includes: Prosthetic hemiarthroplasty of articulation of bone NEC*

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>W54.1</td>
<td>Primary prosthetic replacement of articulation of bone NEC</td>
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<tr>
<td>W54.9</td>
<td>Unspecified</td>
</tr>
<tr>
<td>W54.0</td>
<td>Conversion from previous prosthetic replacement of articulation of bone not elsewhere classified</td>
</tr>
</tbody>
</table>
Large bowel surgery (Planned procedures only)

Excludes: Those unplanned, immediate life-saving operations, and operations conducted as soon as possible after resuscitation.

Incision, excision or anastomosis of the large bowel, including procedures that involve anastomosis of small to large bowel.

Please see minimum wound class against each procedure.

Bypass of small bowel to large bowel
Includes: Bypass of small bowel by anastomosis of small bowel to large bowel

G51.4 Bypass of duodenum by anastomosis of duodenum to colon (clean contaminated)
G58.3 Total jejunectomy and anastomosis of duodenum to colon *
G58.5 Partial jejunectomy and anastomosis of duodenum to colon *
G61.3 Bypass of jejunum by anastomosis of jejunum to colon (clean contaminated)
G69.4 Ileectomy and anastomosis of ileum to colon (clean contaminated)

*Note: Jejunectomy and anastomosis of duodenum to colon (G58.3, G58.5) are usually emergency operations for ischaemia. Only include if planned procedure.

G71 Bypass of ileum (clean-contaminated)

G71.3 Bypass of ileum by anastomosis of ileum to caecum
G71.4 Bypass of ileum by anastomosis of ileum to transverse colon
G71.5 Bypass of ileum by anastomosis of ileum to colon NEC
Includes: Bypass of ileum by anastomosis of ileum to rectum

G72 Other connection of ileum (clean-contaminated) Includes:
Anastomosis of small bowel to large bowel NEC Excludes: When associated with concurrent excision of ileum (G69.4)

G72.1 Anastomosis of ileum to caecum
G72.2 Anastomosis of ileum to transverse colon
G72.3 Anastomosis of ileum to colon NEC
G72.4 Anastomosis of ileum to rectum
G72.5 Anastomosis of ileum to anus and creation of pouch however further qualified
G72.8 Other specified
G72.9 Unspecified
**H04  Total excision of colon and rectum (clean contaminated)**

H04.1 Panproctocolectomy and ileostomy
Includes: Proctocolectomy NEC

H04.2 Panproctocolectomy and anastomosis of ileum to anus and creation of pouch however further qualified

H04.3 Panproctocolectomy and anastomosis of ileum to anus NEC

H04.8 Other specified

H04.9 Unspecified

**H05  Total excision of colon (clean contaminated)**

H05.1 Total colectomy and anastomosis of ileum to rectum

H05.2 Total colectomy and ileostomy and creation of rectal fistula however further qualified

H05.3 Total colectomy and ileostomy NEC

H05.8 Other specified

H05.9 Unspecified

**H06  Extended excision of right hemicolon (clean contaminated)**

*Includes: Excision of right colon and other segment of ileum or colon and surrounding tissue*

H06.1 Extended right hemicolecetomy and end to end anastomosis

H06.2 Extended right hemicolecetomy and anastomosis of ileum to colon

H06.3 Extended right hemicolecetomy and anastomosis NEC

H06.4 Extended right hemicolecetomy and ileostomy however further qualified

H06.8 Other specified

H06.9 Unspecified

**H07  Other excision of right hemicolon (clean contaminated)**

*Includes: Limited excision of caecum and terminal ileum caecum*

H07.1 Right hemicolecetomy and end to end anastomosis of ileum to colon

*Includes: Ileoacetal resection*

H07.2 Right hemicolecetomy and side to side anastomosis of ileum to transverse colon

H07.3 Right hemicolecetomy and anastomosis NEC

H07.4 Right hemicolecetomy and ileostomy however further qualified

H07.8 Other specified

H07.9 Unspecified
H08  Excision of transverse colon *(clean contaminated)*

H08.1  Transverse colectomy and end to end anastomosis
H08.2  Transverse colectomy and anastomosis of ileum to colon
H08.3  Transverse colectomy and anastomosis NEC
H08.4  Transverse colectomy and ileostomy however further qualified
H08.5  Transverse colectomy and exteriorisation of bowel NEC
H08.8  Other specified
H08.9  Unspecified

H09  Excision of left hemicolon *(clean contaminated)*

H09.1  Left hemicolecetomy and end to end anastomosis of colon to rectum
H09.2  Left hemicolecetomy and end to end anastomosis of colon to colon
H09.3  Left hemicolecetomy and anastomosis NEC
H09.4  Left hemicolecetomy and ileostomy however further qualified
H09.5  Left hemicolecetomy and exteriorisation of bowel NEC
H09.8  Other specified
H09.9  Unspecified

H10  Excision of sigmoid colon *(clean contaminated)*

H10.1  Sigmoid colectomy and end to end anastomosis of ileum to rectum
H10.2  Sigmoid colectomy and anastomosis of colon to rectum
H10.3  Sigmoid colectomy and anastomosis NEC
H10.4  Sigmoid colectomy and ileostomy however further qualified
H10.5  Sigmoid colectomy and exteriorisation of bowel NEC
H10.8  Other specified
H10.9  Unspecified

H11  Other excision of colon *(clean contaminated)*

*Includes: Excision of colon where segment removed is not stated*

H11.1  Colectomy and end to end anastomosis of colon to colon NEC
H11.2  Colectomy and side to side anastomosis of ileum to colon NEC
H11.3  Colectomy and anastomosis NEC
H11.4  Colectomy and ileostomy NEC
H11.5  Colectomy and exteriorisation of bowel NEC
H11.8  Other specified
H11.9  Unspecified

*Includes: Colectomy or hemicolecetomy NEC*
H12 Exirpation of lesion of colon
*Includes: Caecum*

H12.1 Excision of diverticulum of colon *(dirty)*
H12.2 Excision of lesion of colon to NEC
H12.3 Destruction of lesion of colon NEC
H12.8 Other specified
H12.9 Unspecified

H13 Bypass of colon *(clean contaminated)*
*Includes: Caecum*
*Excludes: Bypass of colon when associated with excision of colon (H04-H11)*

H13.1 Bypass of colon by anastomosis of ileum to colon
H13.2 Bypass of colon by anastomosis of caecum to sigmoid colon
H13.3 Bypass of colon by anastomosis of transverse colon to sigmoid colon
H13.4 Bypass of colon by anastomosis of transverse colon to rectum
H13.5 Bypass of colon by anastomosis of colon to rectum NEC
H13.8 Other specified
H13.9 Unspecified

H14 Exteriorisation of caecum *(contaminated)*

H14.1 Tube caecostomy
H14.2 Refashioning of caecostomy
H14.3 Closure of caecostomy
H14.8 Other specified
H14.9 Unspecified
*Includes: Caecostomy NEC*

H15 Other exteriorisation of colon
*Excludes: Dilatation of colostomy (H15.5)*

H15.1 Loop colostomy *(clean contaminated)*
H15.2 End colostomy *(clean contaminated)*
H15.3 Refashioning of colostomy *(contaminated)*
H15.4 Closure of colostomy *(contaminated)*
H15.6 Reduction of prolapse of colostomy *(clean contaminated)*
H15.8 Other specified
H15.9 Unspecified
*Includes: colostomy NEC*
H16 Incision of colon *(clean contaminated)*
*Includes: Caecum*

H16.1 Drainage of colon
*Includes: Drainage of pericolonic tissue*
H16.2 Caecotomy
H16.3 Colotomy
H16.8 Other specified
H16.9 Unspecified

H19 Other open operations on colon *(clean contaminated)*

H19.1 Open biopsy of lesion of colon
H19.2 Fixation of colon
H19.3 Enterorrhaphy of colon
H19.4 Open removal of foreign body from colon
H19.8 Other specified other operations on colon
H19.9 Unspecified other operations on colon

H29 Subtotal excision of colon and rectum *(clean contaminated)*

H29.1 Subtotal excision of colon and rectum and creation of colonic pouch and anastomosis of colon to anus
H29.2 Subtotal excision of colon and rectum and creation of colonic pouch NEC
H29.3 Subtotal excision of colon and creation of colonic pouch and anastomosis of colon to rectum.
H29.4 Subtotal excision of colon and creation of colonic pouch NEC
H29.8 Other specified subtotal excision of colon
H29.9 Unspecified subtotal excision of colon

H33 Excision of rectum *(clean contaminated)*
*Includes: Excision of whole or part of rectum with or without part of sigmoid colon*

H33.1 Abdominoperineal excision of rectum and end colostomy
H33.2 Proctectomy and anastomosis of colon to anus
H33.3 Anterior resection of rectum and anastomosis of colon to rectum using staples
*Includes: Rectosigmoidectomy and anastomosis of colon to rectum*

H33.4 Anterior resection of rectum and anastomosis NEC
H33.5 Rectosigmoidectomy and closure of rectal stump and exteriorisation of bowel
H33.6 Anterior resection of rectum and exteriorisation of bowel
H33.7 Perineal resection of rectum HFQ
H33.8 Other specified
H33.9 Unspecified
*Includes: Rectosigmoidectomy NEC*
Major vascular surgery (Planned procedures only)

Excludes: Those unplanned, immediate life-saving operations and operations conducted as soon as possible after resuscitation.

The minimum wound class for vascular surgery is clean.
Limb amputations should be classified as clean if the limb is ischaemic or dry gangrene is present. Amputations through, or adjacent to, an area of acute inflammation (without pus or ulceration) should be classified as contaminated. Amputations adjacent to, or through necrotic ulcers and/or purulent areas should be classified as dirty.

Note: In categories L16 - L21, L49 – L53 and L57 – L65 references to iliac artery (NFG) should be understood to include:
Common iliac artery
External iliac artery
Internal iliac artery
Similarly reference to femoral artery includes:
Deep femoral artery
Superficial femoral artery

L16  Extraanatomic bypass of aorta (clean)
Excludes: L16.1 Emergency bypass of aorta by anastomosis of axillary artery to femoral artery
L16.2  Bypass of aorta by anastomosis of axillary artery to femoral artery NEC
L16.3  Bypass of aorta by anastomosis of axillary artery to bilateral femoral arteries
L16.8  Other specified
L16.9  Unspecified

L19  Other replacement of aneurysmal segment of aorta (clean)
Includes: Replacement of aneurysmal segment of aorta using prosthesis NEC

L19.1  Replacement of aneurysmal segment of ascending aorta by anastomosis of aorta to aorta NEC
L19.2  Replacement of aneurysmal segment of thoracic aorta by anastomosis of aorta to aorta NEC
L19.3  Replacement of aneurysmal segment of suprarenal abdominal aorta by anastomosis of aorta to aorta NEC
L19.4  Replacement of aneurysmal segment of infrarenal abdominal aorta by anastomosis of aorta to aorta NEC
L19.5  Replacement of aneurysmal segment of abdominal aorta by anastomosis of aorta to aorta NEC
L19.6  Replacement of aneurysmal bifurcation of aorta by anastomosis of aorta to iliac artery NEC
L19.8 Other specified
L19.9 Unspecified

**L21 Other bypass of segment of aorta (clean)**
*Includes: Bypass of segment of aorta using prosthesis NEC*
*Replacement of segment of aorta NEC*
*Replacement of segment of aorta using prosthesis NEC*

L21.1 Bypass of segment of ascending aorta by anastomosis of aorta to aorta NEC
L21.2 Bypass of segment of thoracic aorta by anastomosis of aorta to aorta NEC
L21.3 Bypass of segment of suprarenal abdominal aorta by anastomosis of aorta to aorta NEC
L21.4 Bypass of segment of infrarenal abdominal aorta by anastomosis of aorta to aorta NEC
L21.5 Bypass of segment of abdominal aorta by anastomosis of aorta to aorta NEC
L21.6 Bypass of bifurcation of aorta by anastomosis of aorta to iliac artery NEC
L21.8 Other specified
L21.9 Unspecified

**L22 Attention to prosthesis of aorta (clean)**

L22.1 Revision of prosthesis of thoracic aorta
L22.2 Revision of prosthesis of bifurcation of aorta
L22.3 Revision of prosthesis of abdominal aorta NEC
L22.4 Removal of prosthesis from aorta
L22.8 Other specified
L22.9 Unspecified

**L23 Plastic repair of aorta (clean)**

L23.1 Plastic repair of aorta and end to end anastomosis of aorta
L23.2 Plastic repair of aorta using subclavian flap
L23.3 Plastic repair of aorta using patch graft
L23.4 Release of vascular ring of aorta
L23.5 Revision of plastic repair of aorta
L23.6 Plastic repair of aorta and insertion of tube graft
L23.7 Repair of interrupted aortic arch
L23.8 Other specified
L23.9 Unspecified

**L25 Other open operations on aorta (clean)**
*Includes: Aortic body (L25.5)*

L25.1 Endarterectomy of aorta and patch repair of aorta
L25.2 Endarterectomy of aorta NEC
L25.3  Open embolectomy of bifurcation of aorta

*Includes:*  Open thrombectomy of bifurcation of aorta
Embolectomy of bifurcation of aorta NEC
Thrombectomy of bifurcation of aorta NEC

L25.4  Operations on aneurysm of aorta NEC
L25.5  Operations on aortic body
L25.8  Other specified
L25.9  Unspecified

L28  Transluminal insertion of stent graft for aneurismal segment of aorta *(clean)*

**Note:** Includes only procedures requiring an incision to expose a major blood vessel for access e.g. the femoral artery. Does not include percutaneous procedures

L28.1  Endovascular stenting for infrarenal abdominal aortic aneurism
L28.2  Endovascular stenting for suprarenal abdominal aortic aneurism
L28.3  Endovascular stenting for thoracic aortic aneurism
L28.4  Endovascular stenting for aortic dissection in any position
L28.5  Endovascular stenting of aortic bifurcation NEC
L28.6  Endovascular stenting of aorto-uniiliac aneurism
L28.8  Other specified
L28.9  Unspecified

L29  Reconstruction of carotid artery *(clean)*

L29.1  Replacement of carotid artery using graft
L29.2  Intracranial bypass to carotid artery
L29.3  Bypass to carotid artery NEC
L29.4  Endarterectomy of carotid artery and patch repair of carotid artery
L29.5  Endarterectomy of carotid artery NEC

L29.6  High flow interposition extracranial to intracranial bypass from external carotid artery to middle cerebral artery
L29.7  Bypass of carotid artery by anastomosis of superficial temporal artery to middle cerebral artery
L29.8  Other specified
L29.9  Unspecified

L30  Other open operations of carotid artery *(clean)*

*Includes:*  Carotid body (L30.5)

L30.1  Repair of carotid artery NEC
L30.2  Ligation of carotid artery
L30.3  Open embolectomy of carotid artery

*Includes:*  Open thrombectomy of carotid artery
Embolectomy of carotid artery NEC
Thrombectomy of carotid artery NEC
L30.4 Operations on aneurysm of carotid artery
L30.5 Operations on carotid body
L30.8 Other Specified
L30.9 Unspecified

L37 Reconstruction of subclavian artery (clean)
Includes: Axillary artery
          Brachial artery
          Vertebral artery
L37.1 Bypass of subclavian artery NEC
L37.2 Endarterectomy of vertebral artery
L37.3 Endarterectomy of subclavian artery and patch repair of
       subclavian artery
L37.4 Endarterectomy of subclavian artery NEC
L37.8 Other specified
L37.9 Unspecified

L38 Other open operations on subclavian artery (clean)
Includes: Axillary artery
          Brachial artery
          Vertebral artery
L38.1 Repair of subclavian artery NEC
L38.2 Ligation of subclavian artery
L38.3 Open embolectomy of subclavian artery
       Includes: Open thrombectomy of subclavian artery
                 Embolectomy of subclavian artery NEC
                 Thrombectomy of subclavian artery
L38.4 Operations on aneurysm of subclavian artery
L38.8 Other specified
L38.9 Unspecified

L41 Reconstruction of renal artery (clean)
L41.1 Plastic repair of renal artery and end to end anastomosis of
      renal artery
L41.2 Bypass of renal artery
L41.3 Replantation of renal artery
L41.4 Endarterectomy of renal artery
L41.5 Translocation of branch of renal artery
L41.6 Patch angioplasty of renal artery
L41.8 Other specified
L41.9 Unspecified

L42 Other open operations on renal artery (clean)
L42.1 Open embolectomy of renal artery
       Includes: Open thrombectomy of renal artery
                 Embolectomy of renal artery NEC
                 Thrombectomy of renal artery NEC
L42.2 Open embolisation of renal artery
L42.3 Ligation of renal artery
L42.4 Operations on aneurysm of renal artery
L42.8 Other specified
L42.9 Unspecified

L45 Reconstruction of other visceral branch of abdominal aorta (clean)
Includes: Coeliac artery
    Superior mesenteric artery
    Inferior mesenteric artery
    Suprarenal artery

L45.1 Bypass of visceral branch of abdominal aorta NEC
L45.2 Replantation of visceral branch of abdominal aorta NEC
L45.3 Endarterectomy of visceral branch of abdominal aorta and patch repair of visceral branch of abdominal aorta NEC
L45.4 Endarterectomy of visceral branch of abdominal aorta NEC
L45.8 Other specified
L45.9 Unspecified

L46 Other open operations on other visceral branch of abdominal aorta (clean)
Includes: Coeliac artery
    Superior mesenteric artery
    Inferior mesenteric artery
    Suprarenal artery

L46.1 Open embolectomy of visceral branch of abdominal aorta NEC
Includes: Open thrombectomy of visceral branch of abdominal aorta NEC
    Embolectomy of visceral branch of abdominal aorta NEC
    Thrombectomy of visceral branch of abdominal aorta NEC

L46.2 Open embolisation of visceral branch of abdominal aorta NEC
L46.3 Ligation of visceral branch of abdominal aorta NEC
L46.4 Operations on aneurysm of visceral branch of abdominal aorta NEC
L46.8 Other specified
L46.9 Unspecified

L49 Other replacement of aneurismal iliac artery
Includes: Replacement of aneurismal iliac artery using prosthesis NEC

L49.1 Replacement of aneurysmal common iliac artery by anastomosis of aorta to common iliac artery NEC
L49.2 Replacement of aneurysmal iliac artery by anastomosis of aorta to external iliac artery NEC
Includes: Replacement of aneurysmal iliac artery by
anastomosis of aorta to internal iliac artery NEC

L49.3 Replacement of aneurysmal artery of leg by anastomosis of aorta to common femoral artery NEC

L49.4 Replacement of aneurysmal artery of leg by anastomosis of aorta to superficial femoral artery NEC

Includes: Replacement of aneurysmal artery of leg by anastomosis of aorta to deep femoral artery NEC

Replacement of aneurysmal artery of leg by anastomosis of aorta to popliteal artery NEC

L49.5 Replacement of aneurysmal iliac artery by anastomosis of iliac artery to iliac artery NEC

L49.6 Replacement of aneurysmal artery of leg by anastomosis of iliac artery to femoral artery NEC

Includes: Replacement of aneurysmal artery of leg by anastomosis of iliac to popliteal artery NEC

L49.8 Other specified

L49.9 Unspecified

L51 Other bypass of iliac artery (clean)

Includes: Bypass of iliac artery using prosthesis NEC

Replacement of iliac artery NEC

Replacement of iliac artery using prosthesis NEC

L51.1 Bypass of common iliac artery by anastomosis of aorta to common iliac artery NEC

L51.2 Bypass of iliac artery by anastomosis of aorta to external iliac artery NEC

Includes: Bypass of iliac by anastomosis of aorta to internal iliac artery NEC

L51.3 Bypass of artery of leg by anastomosis of aorta to common femoral artery NEC

L51.4 Bypass of artery of leg by anastomosis of aorta to deep femoral artery NEC

Includes: Bypass of artery of leg by anastomosis of aorta to superficial femoral artery NEC

Bypass of artery of leg by anastomosis of aorta to popliteal artery NEC

L51.5 Bypass of iliac artery by anastomosis of iliac artery to iliac artery NEC

L51.6 Bypass of artery of leg by anastomosis of iliac artery to femoral artery NEC

Includes: Bypass of artery of leg by anastomosis of iliac artery to popliteal artery NEC

L51.8 Other specified

Includes: Aortoiliac anastomosis NEC

Aortofemoral anastomosis NEC

Iliofemoral anastomosis NEC

L51.9 Unspecified
### L52 Reconstruction of iliac artery (clean)

- L52.1 Endarterectomy of iliac artery and patch repair of iliac artery
- L52.2 Endarterectomy of iliac artery NEC
- L52.8 Other specified
- L52.9 Unspecified

### L53 Other open operation on iliac artery (clean)

- L53.1 Repair of iliac artery NEC
- L53.2 Open embolectomy of iliac artery
  
  *Includes:*
  - Open thrombectomy of iliac artery
  - Embolectomy of iliac artery NEC
  - Thrombectomy of iliac artery NEC
- L53.3 Operations on aneurysm of iliac artery NEC
- L53.8 Other specified
- L53.9 Unspecified

### L57 Other replacement of aneurysmal femoral artery (clean)

*Excludes: When associated with connection from aorta or iliac artery (L49)*

- L57.1 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to femoral artery NEC
  
  *Includes:*
  - Replacement of aneurysmal femoral artery by anastomosis of femoral artery to femoral artery using prosthesis NEC
- L57.2 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to popliteal using prosthesis NEC
- L57.3 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to popliteal artery using vein graft NEC
- L57.4 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to tibial artery using prosthesis NEC
  
  *Includes:*
  - Popliteal artery
- L57.5 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to tibial artery to tibial artery using graft NEC
  
  *Includes:*
  - Replacement of aneurysmal femoral artery by anastomosis of femoral artery to tibial artery using graft NEC
- L57.6 Replacement of aneurysmal femoral artery of anastomosis of femoral artery to peroneal artery using prosthesis NEC
  
  *Includes:*
  - Popliteal artery
- L57.7 Replacement of aneurysmal femoral artery by anastomosis of femoral artery to peroneal artery using vein graft NEC
  
  *Includes:*
  - Replacement of aneurysmal femoral artery by anastomosis of femoral artery to peroneal artery NEC
- L57.8 Other specified
- L57.9 Unspecified
L59  Other bypass of femoral artery (clean)
Includes: Replacement of femoral artery NEC
Excludes: When associated with connection from aorta or iliac artery (L51)

L59.1  Bypass of femoral artery by anastomosis of femoral artery to femoral artery NEC
Includes: Bypass of femoral artery by anastomosis of femoral artery to femoral artery using prosthesis NEC

L59.2  Bypass of femoral artery by anastomosis of femoral artery to popliteal artery using prosthesis NEC

L59.3  Bypass of femoral artery by anastomosis of femoral artery to popliteal artery using vein graft NEC
Includes: Bypass of femoral artery by anastomosis of femoral artery to popliteal artery NEC

L59.4  Bypass of femoral artery by anastomosis of femoral artery to tibial artery using prosthesis NEC
Includes: Popliteal artery

L59.5  Bypass of femoral artery by anastomosis of femoral artery to tibial artery using vein graft NEC
Includes: Bypass of femoral artery by anastomosis of femoral artery to tibial artery NEC

L59.6  Bypass of femoral artery by anastomosis of femoral artery to peroneal artery using prosthesis NEC
Includes: Popliteal artery

L59.7  Bypass of femoral artery by anastomosis of femoral artery to peroneal artery using vein graft NEC
Includes: Bypass of femoral artery by anastomosis of femoral artery to peroneal artery NEC

L59.8  Other specified
L59.9  Unspecified

L60  Reconstruction of femoral artery (clean)
Includes: Popliteal artery

L60.1  Endarterectomy of femoral artery and patch repair of femoral artery

L60.2  Endarterectomy of femoral artery NEC

L60.3  Profundoplasty of femoral artery and patch repair of deep femoral artery

L60.4  Profundoplasty of femoral artery NEC
L60.8  Other specified
L60.9  Unspecified
L62  Other open operations on femoral artery (clean)

Includes: Popliteal artery

L62.1  Repair of femoral artery NEC
L62.2  Open embolectomy of femoral artery

Includes: Open thrombectomy of femoral artery

Embolectomy of femoral artery NEC
Thrombectomy of femoral artery NEC

L62.3  Ligation of aneurysm of popliteal artery
L62.4  Operations on aneurysm of femoral artery NEC
L62.8  Other specified
L62.9  Unspecified

L65  Revision of reconstruction of artery (clean)

L65.1  Revision of reconstruction involving aorta
L65.2  Revision of reconstruction involving iliac artery
L65.3  Revision of reconstruction involving femoral artery
L65.8  Other specified
L65.9  Unspecified

L68  Repair of other artery (clean)

Includes: Unspecified artery

L68.1  Endarterectomy and patch repair of artery NEC
L68.2  Endarterectomy NEC
L68.3  Repair of artery using prosthesis NEC
L68.4  Repair of artery using vein graft NEC

Includes: Repair of artery using graft NEC

L68.8  Other specified
L68.9  Unspecified

L70  Other open operations on other artery (clean)

Includes: Unspecified artery

L70.1  Open embolectomy of artery NEC

Includes: Open thrombectomy of artery NEC

Embolectomy of artery NEC
Thrombectomy of artery NEC

L70.2  Open embolisation of artery NEC
L70.3  Ligation of artery NEC
L70.4  Open cannulation of artery NEC
L70.5  Operations on aneurysm of artery NEC
L70.8  Other specified
L70.9  Unspecified

L75  Other arteriovenous operations (clean)

L75.1  Excision of congenital arteriovenous malformation

Includes: Ligation of congenital arteriovenous malformation
L75.2 Repair of acquired arteriovenous fistula
   *Includes: Ligation of acquired arteriovenous fistula*
L75.3 Embolisation of arteriovenous abnormality
L75.8 Other specified
L75.9 Unspecified

**L77  Connection of vena cava or branch of vena cava (clean)**

L77.1 Creation of portocaval shunt
L77.2 Creation of mesocaval shunt
L77.3 Creation of portosystemic shunt NEC
L77.4 Creation of distal splenorenal shunt
L77.5 Creation of proximal splenorenal shunt
L77.8 Other specified
L77.9 Unspecified

**L79  Other operations on vena cava (clean)**

L79.1 Insertion of filter into vena cava
L79.2 Plication of vena cava
L79.3 Stenting of vena cava NEC
L79.4 Attention to filter into vena cava NEC
L79.5 Removal of filter in vena cava
L79.6 Repair of anomalous caval vein connection
L79.7 Excision of lesion of vena cava
L79.8 Other specified
L79.9 Unspecified

Limb amputations should be classified as clean if the limb is ischaemic or dry gangrene is present. Amputations through, or adjacent to, an area of acute inflammation (without pus or ulceration) should be classified as contaminated. Amputations adjacent to, or through necrotic ulcers and/or purulent areas should be classified as dirty.

**X09  Amputation of leg (see note above)**

X09.1 Hindquarter amputation
X09.2 Disarticulation of hip
X09.3 Amputation of leg above knee
X09.4 Amputation of leg through knee
X09.5 Amputation of leg below knee
X09.8 Other specified
X09.9 Unspecified
<table>
<thead>
<tr>
<th>X10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X10.1</td>
<td>Amputation of foot through ankle</td>
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<tr>
<td>X10.2</td>
<td>Disarticulation of tarsal bones</td>
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<td>X10.3</td>
<td>Disarticulation of metatarsal bones</td>
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<tr>
<td>X10.4</td>
<td>Amputation through metatarsal bones</td>
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<td>X10.8</td>
<td>Other specified</td>
</tr>
<tr>
<td>X10.9</td>
<td>Unspecified</td>
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</tbody>
</table>
Voluntary Procedures

Abdominal hysterectomy

The minimum wound class for abdominal hysterectomy surgery is clean contaminated.

Q07 Abdominal excision of uterus (*clean contaminated*)

Q07.1 Abdominal hysterocolpectomy and excision of periuterine tissue
Q07.2 Abdominal hysterectomy and excision of periuterine tissue NEC
Q07.3 Abdominal hysterocolpectomy NEC
Q07.4 Total abdominal hysterectomy NEC
   *Includes: Hysterectomy NEC*
Q07.5 Subtotal abdominal hysterectomy
Q07.6 Excision of accessory uterus
Q07.8 Other specified
Q07.9 Unspecified
Breast surgery

The minimum wound class for breast surgery is clean.

**B27 Total excision of breast (clean)**

B27.1 Total mastectomy and excision of both pectoral muscles and part of chest wall
B27.2 Total mastectomy and excision of both pectoral muscles NEC
B27.3 Total mastectomy and excision of pectoralis minor muscles
B27.4 Total mastectomy NEC
B27.5 Subcutaneous mastectomy
B27.6 Skin sparing mastectomy
B27.8 Other specified
B27.9 Unspecified

*Includes: Mastectomy NEC*

**B28 Other excision of breast (clean)**

B28.1 Quadrantectomy of breast
B28.2 Partial excision of breast NEC

*Includes: Wedge excision of breast NEC*
B28.3 Excision of lesion of breast

*Includes: Lumpectomy of breast*
B28.4 Re-excision of breast margins
B28.6 Excision of accessory breast tissue
B28.8 Other specified
B28.9 Unspecified

**B29 Reconstruction of breast (clean)**

*Excludes: Reconstruction of breast using flap of skin of buttock (B38)*

*Reconstruction of breast using abdominal flap (B39)*

B29.1 Reconstruction of breast using myocutaneous flap of latissimus dorsi muscle
B29.2 Reconstruction of breast local flap of skin NEC
B29.3 Reconstruction of breast using flap of skin of abdomen
B29.4 Reconstruction of breast using distant flap of skin NEC
B29.5 Revision of reconstruction of breast
B29.8 Other specified
B29.9 Unspecified
B30 **Prosthesis for breast** *(clean)*  
*Excludes: Augmentation mammoplasty (B31.2)*

B30.1 Insertion of prosthesis for breast  
B30.2 Revision of prosthesis for breast  
B30.3 Removal of prosthesis for breast  
B30.4 Renewal of prosthesis for breast  
B30.8 Other specified  
B30.9 Unspecified

B31 **Other plastic operations on breast** *(clean)*  

B31.1 Reduction mammoplasty  
B31.2 Augmentation mammoplasty  
B31.3 Mastopexy  
B31.4 Revision of mammoplasty  
B31.8 Other specified  
B31.9 Unspecified

B38 **Reconstruction of breast using flap of skin of buttock** *(clean)*

B38.1 Reconstruction of breast using free superior gluteal artery perforator flap  
B38.2 Reconstruction of breast using free inferior gluteal artery perforator flap  
B38.8 Other specified  
B38.9 Unspecified

B39 **Reconstruction of breast using abdominal flap** *(clean)*  
*Excludes: Reconstruction of breast using flap of skin of abdomen NES (B29.3)*

B39.1 Reconstruction of breast using free transverse rectus abdominis myocutaneous flap  
B39.2 Reconstruction of breast using pedicled transverse rectus abdominis myocutaneous flap  
B39.3 Reconstruction of breast using free deep inferior epigastric perforator flap  
B39.4 Reconstruction of breast using pedicled omental flap  
B39.5 Reconstruction of breast using free omental flap  
B39.8 Other specified  
B39.9 Unspecified
O14 Other lymph node (*clean*)

O14.2 Sentinel lymph node

**T 85 Block dissection of lymph nodes (*clean*)**

- T85.1 Block dissection of cervical lymph nodes
- T85.2 Block dissection of axillary lymph nodes
- T85.3 Block dissection of mediastinal lymph nodes
- T85.4 Block dissection of para-aortic lymph nodes
- T85.5 Block dissection of inguinal lymph nodes
- T85.6 Block dissection of pelvic lymph nodes
- T85.8 Other specified
- T85.9 Unspecified

**T86 Sampling of lymph nodes (*clean*)**

- T86.1 Sampling of cervical lymph nodes
- T86.2 Sampling of axillary lymph nodes
- T86.3 Sampling of supraclavicular lymph nodes
- T86.4 Sampling of internal mammary lymph nodes
- T86.5 Sampling of mediastinal lymph nodes
- T86.6 Sampling of para-aortic lymph nodes
- T86.7 Sampling of inguinal lymph nodes
- T86.8 Other specified
- T86.9 Unspecified

**T87 Excision or biopsy of lymph node (*clean*)**

- T87.1 Excision or biopsy of scalene lymph node
- T87.2 Excision or biopsy of cervical lymph node NEC
- T87.3 Excision or biopsy of axillary lymph node
  *Includes: Excision or biopsy of supraclavicular lymph node NEC*
- T87.4 Excision or biopsy of mediastinal lymph node
- T87.5 Excision or biopsy of para-aortic lymph node
- T87.6 Excision or biopsy of porta hepatitis lymph node
- T87.7 Excision or biopsy of inguinal lymph node
- T87.8 Other specified
- T97.9 Unspecified
Cardiac surgery

The minimum wound class for cardiac surgery is clean.

**K04 Repair of tetralogy of Fallot (clean)**
- Includes: Fallot-type pulmonary atresia with ventricular septal defect
- K04.1 Repair of tetralogy of Fallot using valved right ventricular outflow conduit
- K04.2 Repair of tetralogy of Fallot using right ventricular outflow conduit NEC
- K04.3 Repair of tetralogy of Fallot using right transannular patch
  - Includes: Repair of tetralogy of Fallot using right ventricular outflow patch
- K04.4 Revision of repair of tetralogy of Fallot
- K04.5 Repair of tetralogy of Fallot with absent pulmonary valve
- K04.6 Repair of Fallot-type pulmonary atresia with aortopulmonary collaterals
- K04.8 Other specified
- K04.9 Unspecified

**K05 Atrial inversion operations for transposition of great vessels (clean)**

- K05.1 Reconstruction of atrium using atrial patch for transposition of great vessels
- K05.2 Reconstruction of atrium using atrial wall for transposition of great vessels
- K05.8 Other specified
- K05.9 Unspecified

**K06 Other correction of transposition of great vessels (clean)**
- Includes: Repair of transposition of great arteries with ventricular septal defect
- Repair of transposition of great arteries with left ventricular outflow tract obstruction
- Repair of congenitally corrected transposition of great arteries
- K06.1 Repositioning of transposed great vessels
  - Includes: Arterial switch procedure
- K06.2 Left ventricle to aorta tunnel with right ventricle to pulmonary trunk direct anastomosis
- K06.3 Left ventricle to aorta tunnel with right ventricle to pulmonary artery valved conduit
- K06.4 Atrial inversion and repositioning of transposed great artery
  - Includes: Double switch procedure
- K06.8 Other specified
- K06.9 Unspecified
**K07**  Correction of total anomalous pulmonary venous connection (*clean*)

K07.1  Correction of total anomalous pulmonary venous connection to supracardiac vessel  
K07.2  Correction of total anomalous pulmonary venous connection to coronary sinus  
K07.3  Correction of total anomalous pulmonary venous connection to infradiaphragmatic vessel  
K07.8  Other specified  
K07.9  Unspecified

**K08**  Repair of double outlet ventricle (*clean*)

K08.1  Repair of double outlet right ventricle with intraventricular tunnel  
K08.2  Repair of Fallot-type double outlet right ventricle  
K08.3  Repair of double outlet right ventricle  
K08.4  Repair of double outlet left ventricle  
K08.8  Other specified  
K08.9  Unspecified

**K09**  Repair of defect of atrioventricular septum (*clean*)

Exclusive: When associated with correction of tetralogy of fallot  

K09.1  Repair of defect of atrioventricular septum using dual prosthesis patches  
K09.2  Repair of defect of atrioventricular septum using prosthesis patch NEC  
K09.3  Repair of defect of atrioventricular septum using tissue graft  
K09.4  Repair of persistent ostium primum  
K09.5  Primary closure of defect atrioventricular septum NEC  
K09.6  Revision of closure of defect atrioventricular septum  
K09.8  Other specified  
K09.9  Unspecified

**K10**  Repair of defect of interatrial septum (*clean*)

Exclusive: When associated with correction of tetralogy of fallot  

K10.1  Repair of defect of interatrial septum using prosthesis patch  
K10.2  Repair of defect of interatrial septum using pericardial patch  
K10.3  Repair of defect of interatrial septum tissue graft NEC  
K10.4  Primary closure of defect of interatrial septum NEC  
K10.5  Revision of closure of defect of interatrial septum  
K10.8  Other specified  
K10.9  Unspecified
K11 Repair of defect of interventricular septum (clean)
   *Excludes: When associated with correction of tetralogy of Fallot (K04)*

K11.1 Repair of defect of interventricular septum using prosthesis NEC
K11.2 Repair of defect of interventricular septum using pericardial patch
K11.3 Repair of defect of interventricular septum using tissue graft NEC
K11.4 Primary closure of defect of interventricular septum NEC
K11.5 Revision of closure of defect of interventricular septum
K11.6 Repair of multiple interventricular septal defects
K11.7 Repair of interventricular septal defect using intraoperative transluminal prosthesis
K11.8 Other specified
K11.9 Unspecified

K12 Closure of defect of unspecified septum of heart (clean)
   *Excludes: When associated with correction of tetralogy of Fallot (K04)*

K12.1 Closure of defect of septum of heart using prosthesis patch NEC
K12.2 Closure of defect of septum of heart using pericardial patch NEC
K12.3 Closure of defect of septum of heart using tissue graft NEC
K12.4 Primary closure of defect of septum of heart NEC
K12.5 Revision of closure of septum of heart NEC
K12.8 Other specified
K12.9 Unspecified

K14 Other open operations on septum of heart (clean)

K14.1 Open enlargement of defect atrial septum
K14.2 Open atrial septostomy
   *Includes: Atrial septostomy NEC*
K14.3 Atrial septectomy
K14.4 Surgical atrial septectomy
K14.5 Open enlargement of defect of interventricular septum
K14.8 Other specified
K14.9 Unspecified

K17 Repair of univentricular heart (clean)

K17.1 Total cavopulmonary connection with extracardiac inferior caval vein to pulmonary artery conduit
K17.2 Total cavopulmonary connection with lateral atrial tunnel
K17.3 Aortopulmonary reconstruction with systemic to pulmonary arterial shunt
   *Includes: Primary palliation of hypoplastic left heart syndrome*
K17.4 Aortopulmonary reconstruction with right ventricle to pulmonary arterial valveless conduit
   *Includes: Primary palliation of hypoplastic left heart*
K17.5 Biventricular repair of hypoplastic left heart syndrome
K17.6 Takedown of total cavopulmonary connection
K17.7 Conversion of atrial pulmonary anastomosis to total pulmonary connection
K17.8 Other specified
K17.9 Unspecified

**K18 Creation of valved cardiac conduit (clean)**
*Excludes: When associated with correction of tetralogy of Fallot (K04)*

K18.1 Creation of valved conduit between atrium and ventricle of heart
K18.2 Creation of valved conduit between right atrium and pulmonary artery
K18.3 Creation of valved conduit between right ventricle of heart and pulmonary artery
K18.4 Creation of valved conduit between left ventricle of heart and aorta
K18.5 Revision of valved cardiac conduit
K18.6 Creation of valved conduit between left ventricle of heart and pulmonary artery
K18.7 Replacement of valved cardiac conduit
K18.8 Other specified
K18.9 Unspecified

**K19 Creation of other cardiac conduit (clean)**
*Excludes: When associated with correction of tetralogy of Fallot (K04)*

K19.1 Creation of conduit between atrium and ventricle of heart NEC
K19.2 Creation of conduit between right atrium and pulmonary artery NEC
K19.3 Creation of conduit between right ventricle of heart and pulmonary artery NEC
K19.4 Creation of conduit between right ventricle of heart and vena cava
K19.5 Creation of conduit between left ventricle of heart and aorta NEC
K19.6 Revision of cardiac conduit NEC
K19.8 Other specified
K19.9 Unspecified
K20  Refashioning of atrium (*clean*)

K20.1  Correction of persistent sinus venosus
K20.2  Correction of partial anomalous pulmonary venous drainage
K20.3  Repair of cor triatriatum
K20.4  Repair of coronary sinus abnormality
K20.8  Other specified
K20.9  Unspecified

K22  Other operations on wall of atrium (*clean*)

*Excludes: Operations on coronary artery (K40-K51) or conducting system of heart (K52, K57, K58)*

K22.1  Excision of lesion of atrium
K22.2  Repair of atrium NEC
K22.8  Other specified
K22.9  Unspecified

K23  Other operations on wall of heart (*clean*)

*Excludes: Operations on coronary artery (K40-K51) or conducting system of heart (K52, K57, K58)*

K23.1  Excision of lesion of wall of heart NEC

*Includes: Excision of lesion of ventricle of heart*

K23.2  Biopsy of lesion of wall of heart

*Includes: Biopsy of wall of heart*

*Biopsy of lesion of heart NEC*

*Biopsy of heart NEC*

K23.3  Repair of wall of heart NEC
K23.5  Partial left ventriculectomy
K23.6  Cardiomyoplasty
K23.8  Other specified
K23.9  Unspecified

K24  Other operations on ventricles of heart (*clean*)

K24.1  Relief of right ventricular outflow tract obstruction
K24.2  Repair of double chambered right ventricle
K24.3  Repair of right ventricular aneurysm
K24.4  Repair of left ventricular aneurysm
K24.5  Relief of left ventricular outflow tract obstruction
K24.6  Myectomy of left ventricular outflow tract
K24.7  Myotomy of left ventricular outflow tract
K24.8  Other specified
K24.9  Unspecified
K25 Plastic repair of mitral valve (clean)

K25.1 Allograft replacement of mitral valve
K25.2 Xenograft replacement of mitral valve
K25.3 Prosthetic replacement of mitral valve
K25.4 Replacement of mitral valve
K25.5 Mitral valve repair

Includes: Mitral valvuloplasty NEC

K25.8 Other specified
K25.9 Unspecified

K26 Plastic repair of aortic valve (clean)

K26.1 Allograft replacement of aortic valve
K26.2 Xenograft replacement of aortic valve
K26.3 Prosthetic replacement of aortic valve
K26.4 Replacement of aortic valve NEC
K26.5 Aortic valve repair NEC

Includes: Aortic valvuloplasty NEC

K26.8 Other specified
K26.9 Unspecified

K27 Plastic repair of tricuspid valve (clean)

K27.1 Allograft replacement of tricuspid valve
K27.2 Xenograft replacement of tricuspid valve
K27.3 Prosthetic replacement of tricuspid valve
K27.4 Replacement of tricuspid valve NEC
K27.5 Repositioning of tricuspid valve
K27.6 Tricuspid valve repair NEC

Includes: Tricuspid valvuloplasty NEC

K27.8 Other specified
K27.9 Unspecified

K28 Plastic repair of pulmonary valve (clean)

K28.1 Allograft replacement of pulmonary valve
K28.2 Xenograft replacement of valve of heart NEC
K28.3 Prosthetic replacement of pulmonary valve NEC
K28.4 Replacement of pulmonary valve NEC
K28.5 Pulmonary valve repair NEC

Includes: Pulmonary valvuloplasty NEC

K28.8 Other specified
K28.9 Unspecified

K29 Plastic repair of unspecified valve of heart (clean)

K29.1 Allograft replacement of valve of heart NEC
K29.2 Xenograft replacement of valve of heart NEC
K29.3 Prosthetic replacement of valve of heart NEC
K29.4 Replacement of valve of heart NEC
K29.5  Repair of valve of heart NEC
      Includes: Valvuloplasty of heart NEC
K29.6  Truncal valve repair
      Includes: Truncal valvuloplasty
K29.7  Replacement of truncal valve
K29.8  Other specified
K29.9  Unspecified

K30  Revision of plastic repair of valve of heart (clean)
      Includes: Revision of replacement of valve of heart
K30.1  Revision of plastic repair of mitral valve
K30.2  Revision of plastic repair of aortic valve
K30.3  Revision of plastic repair of tricuspid valve
K30.4  Revision of plastic of pulmonary valve
K30.5  Revision of plastic repair of truncal valve
K30.8  Other specified
K30.9  Unspecified

K31  Open incision of valve of heart (clean)
      Includes: Incision of valve of heart NEC
K31.1  Open mitral valvotomy
K31.2  Open aortic valvotomy
K31.3  Open tricuspid valvotomy
K31.4  Open pulmonary valvotomy
K31.5  Open truncal valvotomy
K31.8  Other specified
K31.9  Unspecified
      Includes: Valvotomy NEC

K32  Closed incision of valve of heart (clean)
K32.1  Closed mitral valvotomy
K32.2  Closed aortic valvotomy
K32.3  Closed tricuspid valvotomy
K32.4  Closed pulmonary valvotomy
K32.8  Other specified
K32.9  Unspecified

K34  Other open operations on valve of heart (clean)
K34.1  Annuloplasty of mitral valve
K34.2  Annuloplasty of tricuspid valve
K34.3  Annuloplasty of valve of heart NEC
K34.4  Excision of vegetations of valve of heart
K34.5  Closure of tricuspid valve
K34.6  Closure of pulmonary valve
K34.8  Other specified
K34.9  Unspecified
K36 Excision of valve of heart (clean)

K36.1 Tricuspid valvectomy
K36.2 Pulmonary valvectomy
K36.8 Other specified
K36.9 Unspecified

K67 Excision of pericardium (clean)

K67.1 Excision of lesion of pericardium
K67.8 Other specified
K67.9 Unspecified

K69 Incision of pericardium (clean)

K69.1 Freeing of adhesions of pericardium
K69.2 Fenestration of pericardium
K69.8 Other specified
K69.9 Unspecified
Coronary Artery Bypass Graft

The minimum wound class for coronary artery bypass graft is clean.

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<tr>
<th>K40</th>
<th>Saphenous vein graft replacement of coronary artery (clean)</th>
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<td>K40.1</td>
<td>Saphenous vein graft replacement of one coronary artery</td>
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<tr>
<td>K40.2</td>
<td>Saphenous vein graft replacement of two coronary arteries</td>
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<tr>
<td>K40.3</td>
<td>Saphenous vein graft replacement of three coronary arteries</td>
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<tr>
<td>K40.4</td>
<td>Saphenous vein graft replacement of four or more coronary arteries</td>
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<td>K40.8</td>
<td>Other specified</td>
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<tr>
<td>K40.9</td>
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<thead>
<tr>
<th>K41</th>
<th>Other autograft replacement of coronary artery (clean)</th>
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<tbody>
<tr>
<td>K41.1</td>
<td>Autograft replacement of one coronary artery NEC</td>
</tr>
<tr>
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<td>Autograft replacement of two coronary arteries NEC</td>
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<td>K41.3</td>
<td>Autograft replacement of three coronary arteries NEC</td>
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<tr>
<td>K41.4</td>
<td>Autograft replacement of four or more coronary arteries NEC</td>
</tr>
<tr>
<td>K41.8</td>
<td>Other specified</td>
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<table>
<thead>
<tr>
<th>K43</th>
<th>Prosthetic replacement of coronary artery (clean)</th>
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<tbody>
<tr>
<td>K43.1</td>
<td>Prosthetic replacement of one coronary artery</td>
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<tr>
<td>K43.2</td>
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<td>K43.3</td>
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<tr>
<td>K43.4</td>
<td>Prosthetic replacement of four or more coronary arteries</td>
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<tr>
<td>K43.8</td>
<td>Other specified</td>
</tr>
<tr>
<td>K43.9</td>
<td>Unspecified</td>
</tr>
</tbody>
</table>

| K44  | Other replacement of coronary artery (clean) |

*Includes: Coronary artery bypass graft NEC*

| K44.1 | Replacement of coronary arteries using multiple methods |
| K44.2 | Revision of replacement of coronary artery |
| K44.8 | Other specified |
| K44.9 | Unspecified |
K45  Connection of thoracic artery to coronary artery (clean)

K45.1 Double anastomosis of mammary arteries to coronary arteries
K45.2 Double anastomosis of thoracic arteries to coronary arteries NEC
K45.3 Anastomosis of mammary artery to left anterior descending coronary artery
K45.4 Anastomosis of mammary artery to coronary artery NEC
K45.5 Anastomosis of thoracic artery to coronary artery NEC
K45.6 Revision of connection of thoracic artery to coronary artery
K45.8 Other specified
K45.9 Unspecified

K46  Other bypass of coronary artery (clean)
Excludes: Coronary artery bypass graft (K40-K44)

K46.1 Double implantation of mammary arteries into heart
K46.2 Double implantation of thoracic arteries into heart NEC
K46.3 Implantation of mammary artery into heart NEC
K46.4 Implantation of thoracic artery into heart NEC
K46.5 Revision of implantation of thoracic artery into heart
K46.8 Other specified
K46.9 Unspecified
Cranial surgery

The minimum wound class for cranial surgery is clean.

A01  **Major excision of tissue of brain (clean)**

A01.1  Hemispherectomy
A01.2  Total lobectomy of brain
A01.3  Partial lobectomy of brain
A01.8  Other specified
A01.9  Unspecified

A02  **Excision of lesion of tissue of brain (clean)**

A02.1  Excision of lesion of tissue of frontal lobe of brain
A02.2  Excision of lesion of tissue of temporal lobe of brain
A02.3  Excision of lesion of tissue of parietal lobe of brain
A02.4  Excision of lesion of tissue of occipital lobe of brain
A02.5  Excision of lesion of tissue of cerebellum
A02.6  Excision of lesion of tissue of brain stem
A02.8  Other specified
A02.9  Unspecified

A04  **Open biopsy of lesion of tissue of brain (clean)**

A04.1  Open biopsy of lesion of tissue of frontal lobe of brain
A04.2  Open biopsy of lesion of tissue of temporal lobe of brain
A04.3  Open biopsy of lesion of tissue of parietal lobe of brain
A04.4  Open biopsy of lesion of tissue of occipital lobe of brain
A04.5  Open biopsy of lesion of tissue of cerebellum
A04.6  Open biopsy of lesion of tissue of brain stem
A04.8  Other specified
A04.9  Unspecified

A05  **Drainage of lesion of tissue of brain (clean)**

*Excludes: Drainage of subarachnoid space of brain (A22.1) Drainage of extradural space (A40)*

A05.1  Drainage of abscess of tissue of brain
A05.2  Evacuation of haematoma from temporal lobe of brain
A05.3  Evacuation of haematoma from cerebellum
A05.4  Evacuation of intracerebral haematoma NEC
A05.8  Other specified
A05.9  Unspecified
A07 Other open operations on tissue of brain (*clean*)
A07.1 Open division of tissue of brain
A07.2 Removal of foreign body from tissue of brain
A07.3 Exploration of tissue of brain
A07.4 Excision of abscess of tissue of brain
A07.5 Multiple subpial transections
A07.6 Complete callosotomy
A07.7 Partial callosotomy
A07.8 Other specified
A07.9 Unspecified

A09 Neurostimulation of brain (*clean*)
Includes: Neurostimulation of brainstem
A09.1 Implantation of neurostimulator into brain
A09.2 Maintenance of neurostimulator in brain
A09.3 Removal of neurostimulator from brain
A09.4 Operation on neurostimulator in brain NEC
A09.5 Insertion of neurostimulator electrodes into the brain
A09.8 Other specified
A09.9 Unspecified

A10 Other operations on tissue of brain (*clean*)
Note: Principal category, extended at A11
A10.1 Leucotomy NEC
A10.6 Insertion of carmustine wafers in neoplasm of tissue of brain

A11 Operations on tissue of brain (*clean*)
Note: Principal A10
A11.1 Placement of depth electrodes for electroencephalography
A11.2 Placement of surface electrodes for electroencephalography
A11.3 Monitoring of pressure in tissue of brain
Excludes: Monitoring of pressure in ventricle of brain (A20.3)
A11.8 Other specified
A11.9 Unspecified

A38 Extirpation of lesion of meninges of brain (*clean*)
Note: Principal category, extended at A43
A38.1 Extirpation of lesion of meninges of cortex of brain
A38.2 Extirpation of lesion of meninges of sphenoidal ridge of cranium
A38.3 Extirpation of lesion of meninges of subfrontal region of brain
A38.4 Extirpation of lesion of meninges of parasagittal region of brain
A38.5 Extirpation of lesion of falx cerebri
A38.6 Extirpation of lesion of tentorium cerebelli
A38.8 Other specified
A38.9 Unspecified
A39  Repair of dura (clean)

A39.1  Repair of meningoencephalocele
A39.2  Repair of dura of anterior fossa of cranium
A39.3  Repair of dura of middle fossa of cranium
A39.4  Repair of dura of posterior fossa of cranium
A39.5  Repair of dura of vault of cranium
A39.8  Other specified
A39.9  Unspecified

A40  Drainage of extradural space (clean)

A40.1  Evacuation of extradural haematoma
A40.8  Other specified
A40.9  Unspecified

A41  Drainage of subdural space (clean)

A41.1  Evacuation of subdural haematoma
A41.2  Drainage of abscess of subdural space
A41.8  Other specified
A41.9  Unspecified

A42  Other operations on meninges of brain (clean)

A42.1  Creation of anastomosis of dura
A42.8  Other specified
A42.9  Unspecified

A43  Other extirpation of lesion of meninges of brain (clean)

A43.1  Extirpation of lesion of meninges of skull base
A43.2  Extirpation of lesion of meninges of skull clivus
A43.8  Other specified
A43.9  Unspecified

B01  Excision of pituitary gland (clean)

B01.1  Transethmoidal hypophysectomy
B01.2  Trans-sphenoidal hypophysectomy
B01.3  Trans-septal hypophysectomy
B01.8  Other specified
B01.9  Unspecified

Includes: Hypophysectomy NEC
B02  Destruction of pituitary gland *(clean)*

B02.1  Cryotherapy to pituitary gland
B02.2  Implantation of radioactive substance into pituitary gland
B02.3  Injection of destructive substance into pituitary gland NEC
B02.8  Other specified
B02.9  Unspecified

B04  Other operations on pituitary gland *(clean)*
    *Includes: pituitary stalk (B04.5)*

B04.1  Excision of lesion of pituitary gland
B04.2  Biopsy of lesion of pituitary gland
    *Includes: Biopsy of pituitary gland*
B04.3  Decompression of pituitary gland
B04.4  Exploration of pituitary gland
B04.5  Operations on pituitary stalk
B04.8  Other specified
B04.9  Unspecified

B06  Operations on pineal gland *(clean)*

B06.1  Excision of pineal gland
B06.8  Other specified
B06.9  Unspecified

L33  Operations on aneurysm of cerebral artery *(clean)*
    *Includes: Artery of circle of Willis*

L33.1  Excision of aneurysm of cerebral artery
L33.2  Clipping of cerebral aneurysm
L33.3  Ligation of aneurysm of cerebral artery
L33.4  Obliteration of aneurysm of cerebral artery
L33.8  Other specified
L33.9  Unspecified

L34  Other open operations on cerebral artery *(clean)*
    *Includes: Artery of circle of Willis*

L34.1  Reconstruction of cerebral artery
L34.2  Anastomosis of cerebral artery
L34.3  Open embolectomy of cerebral artery
    *Includes: Open thrombectomy of cerebral artery*
    *Embolectomy of cerebral artery*
    *Thrombectomy of cerebral artery*
L34.4  Open embolisation of cerebral artery
L34.8  Other specified
L34.9  Unspecified
V01  Plastic repair of cranium *(clean)*

V01.1  Cranioplasty using prosthesis
V01.2  Cranioplasty using bone graft
V01.3  Opening of suture of cranium
V01.4  Removal of prosthesis from cranium
V01.5  Revision of cranioplasty NEC
V01.8  Other specified
V01.9  Unspecified

V03  Opening of cranium *(clean)*

V03.1  Exploratory open craniotomy
   *Includes: Open craniotomy*
V03.2  Re opening of cranium and re exploration of intracranial operation site and surgical arrest of postoperative bleeding
V03.3  Re opening of cranium and re exploration of intracranial operation site NEC
V03.4  Re opening of cranium NEC
V03.5  Trephine of cranium
V03.6  Exploration burrhole of cranium
V03.8  Other specified
V03.9  Unspecified

V04  Reshaping of cranium *(clean)*

V04.1  Fitting dynamic cranioplasty bands
V04.8  Other specified
V04.9  Unspecified

V05  Other operations on cranium *(clean)*

V05.1  Exirpation of lesion of cranium
V05.4  Repair of fracture of cranium NEC
V05.5  Graft of bone to cranium
V05.6  Transpetrous excision of lesion of jugular foramen
V05.7  Hemicraniotomy
V05.8  Other specified
V05.9  Unspecified
Voluntary orthopaedic procedures

Knee arthroplasty

The minimum wound class for knee arthroplasty is clean.

W40 Total prosthetic replacement of knee joint using cement (clean)

W40.1 Primary total prosthetic replacement of knee joint using cement
W40.2 Conversion to total prosthetic replacement of knee joint using cement
W40.3 Revision of total prosthetic replacement of knee joint using cement
W40.4 Revision of one component of total prosthetic replacement of knee joint using cement
W40.8 Other specified
W40.9 Unspecified
W40.0 Conversion from previous cemented total prosthetic replacement of knee joint

W41 Other total prosthetic replacement of knee joint not using cement (clean)

W41.1 Primary total prosthetic replacement of knee joint not using cement
W41.2 Conversion to total prosthetic replacement of knee joint not using cement
W41.3 Revision of total prosthetic replacement of knee joint not using cement
W41.4 Revision of one component of total prosthetic replacement of knee joint not using cement.
W41.8 Other specified W41.9 Unspecified
W41.0 Conversion from previous uncemented total prosthetic replacement of knee joint

W42 Other total prosthetic replacement of knee joint (clean)

W42.1 Primary total prosthetic replacement of knee joint NEC
W42.2 Conversion to total prosthetic replacement of knee joint NEC
W42.3 Revision of total prosthetic replacement of knee joint NEC
W42.8 Other specified
W42.9 Unspecified
W42.0 Conversion from previous total prosthetic replacement of knee joint NEC
The following codes should be used for hemiarthroplasty of the knee

Unicompartmental (partial) knee replacements

W42.5 Revision of one component of total prosthetic replacement of knee joint NEC

W52 Prosthetic replacement of articulation of other bone using cement (clean)

*Includes: Prosthetic hemiarthroplasty of articulation of bone using cement NEC*

W52.1 Primary prosthetic replacement of articulation of bone using cement NEC
W52.2 Conversion to prosthetic replacement of articulation of bone using cement NEC
W52.3 Revision of prosthetic replacement of articulation of bone using cement NEC
W52.8 Other specified
W52.9 Unspecified
W52.0 Conversion from previous cemented prosthetic replacement of articulation of bone NEC

W53 Prosthetic replacement of articulation of other bone not using cement (clean)

*Includes: Prosthetic hemiarthroplasty of articulation of bone not using cement NEC*

W53.1 Primary prosthetic replacement of articulation of bone not using cement NEC
W53.2 Conversion to prosthetic replacement of articulation of bone not using cement NEC
W53.3 Revision of prosthetic replacement of articulation of bone not using cement NEC
W53.8 Other specified
W53.9 Unspecified
W53.0 Conversion from previous uncemented prosthetic replacement of articulation of bone NEC

W54 Other prosthetic replacement of articulation of other bone (clean)

*Includes: Prosthetic hemiarthroplasty of articulation of bone NEC*

W54.1 Primary prosthetic replacement of articulation of bone NEC
W54.2 Conversion to prosthetic replacement of articulation of bone NEC
W54.3 Revision of prosthetic replacement of articulation of bone NEC
W54.8 Other specified
W54.9 Unspecified
W54.0 Conversion from previous prosthetic replacement of articulation of bone NEC

Resurfacing of knee joint

W58 Other reconstruction of joint (clean)
Exclude: Some similar operations for correction of congenital deformity (X19-X27)

W58.1 Primary resurfacing arthroplasty of joint
W58.2 Revision of resurfacing arthroplasty of joint
W58.8 Other specified other reconstruction of joint
W58.9 Unspecified other reconstruction of joint
W58.0 Conversion from previous resurfacing arthroplasty of joint
Reduction of long bone fracture

The minimum wound class for long bone fracture is clean/

Note –If the fracture is open and the operation is performed within the first 10 hours, the minimum wound class is contaminated. If the operation is performed after 10 hours, the minimum wound class is dirty.

W19 Primary open reduction of fracture of bone and intramedullary fixation (clean)

Includes: Open reduction of fracture of bone and intramedullary fixation NEC
Excludes: Fracture dislocation (W65)

W19.2 Primary open reduction of fracture of long bone and fixation using rigid nail NEC
W19.3 Primary open reduction of fracture of long bone and fixation using flexible nail
W19.5 Primary open reduction of fragment of bone and fixation using screw
W19.6 Primary open reduction of fragment of bone and fixation using wire system
W19.8 Other specified
W19.9 Unspecified

W20 Primary open reduction of fracture of bone and extramedullary fixation (clean)

Includes: Primary open reduction of fracture of bone and fixation NEC
Open reduction of fracture of bone and extramedullary fixation of NEC
Excludes: Fracture dislocation (W65)

W20.1 Primary open reduction of fracture of long bone and extramedullary fixation using place NEC
W20.2 Primary open reduction of fracture of long bone and extramedullary fixation using circlage
W20.3 Primary open reduction of fracture of long bone and extramedullary fixation using suture
W20.4 Primary open reduction of fracture of long bone and complex extramedullary fixation NEC
W20.5 Primary open reduction of fracture of ankle and extramedullary fixation NEC
W20.8 Other specified
W20.9 Unspecified
W22 Other primary open reduction of fracture of bone *(clean)*

*Includes: Open reduction of fracture of bone NEC*
*Excludes: Fracture dislocation*

- W22.1 Primary open reduction of fracture of bone and skeletal traction
- W22.2 Primary open reduction of fracture of bone and external fixation
- W22.8 Other specified
- W22.9 Unspecified

W23 Secondary open reduction of fracture of bone *(clean)*

- W23.1 Secondary open reduction of fracture of bone and intramedullary fixation
- W23.2 Secondary open reduction of fracture of bone and extramedullary fixation
- W23.4 Secondary open reduction of fracture of bone and skeletal traction
- W23.5 Secondary open reduction of fracture of bone and external fixation
- W23.6 Secondary open reduction of fracture of bone and internal fixation HFQ
- W23.8 Other specified
- W23.9 Unspecified

W24 Closed reduction of fracture of bone and internal fixation *(clean)*

*Includes: Internal fixation of fracture of bone without mention of reduction*
*Excludes: Fracture dislocation (W66)*

- W24.2 Closed reduction of fracture of long bone and rigid internal fixation NEC
- W24.3 Closed reduction of fracture of long bone and flexible internal fixation HFQ
- W24.5 Closed reduction of fragment of bone and fixation using screw

HFQ – however further qualified
Repair of neck of femur

The minimum wound class for repair of neck of femur surgery is clean.

W19 Primary open reduction of fracture of bone and intramedullary fixation (clean)
Includes: Open reduction of fracture of bone and intramedullary fixation
Excludes: Fracture dislocation (W65)

W19.1 Primary open reduction of fracture of neck of femur and open fixation using pin and plate
Includes: Primary open reduction of fracture of neck of femur and open fixation using dynamic hip screw

W24.1 Closed reduction of intracapsular fracture of the neck of femur and fixation using nail or screw.

W46 Prosthetic replacement of head femur using cement (clean)
Includes: Prosthetic hemiarthroplasty of head of femur using cement

W46.1 Primary prosthetic replacement of head of femur using cement
W46.2 Conversion to prosthetic replacement of head of femur using cement
W46.3 Revision of prosthetic replacement of head of femur using cement
W46.8 Other specified
W46.9 Unspecified
W46.0 Conversion from previous cemented prosthetic replacement of head of femur

W47 Prosthetic replacement of head of femur not using cement (clean)
Includes: Prosthetic hemiarthroplasty of head of femur not using cement

W47.1 Primary prosthetic replacement of head of femur not using cement
W47.2 Conversion to prosthetic replacement of head of femur not using cement
W47.3 Revision of prosthetic replacement of head of femur not using cement
W47.8 Other specified
W47.9 Unspecified
W47.0 Conversion from previous uncemented prosthetic replacement of head of femur
W48 Other prosthetic replacement of head of femur (clean)

Includes: Prosthetic hemiarthroplasty of head of femur NEC

W48.1 Primary prosthetic replacement of head of femur NEC
W48.2 Conversion to prosthetic replacement of head of femur NEC
W48.3 Revision of prosthetic replacement of head of femur NEC
W48.8 Other specified
W48.9 Unspecified
W48.0 Conversion from previous prosthetic replacement of head of femur NEC