



Surgical site infection surveillance protocol

Edition 7.1.

(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

Contents

Mandatory Procedures	4
Caesarean section.....	4
Hip arthroplasty	5
Large bowel surgery (Planned procedures only)	9
Major vascular surgery (Planned procedures only)	14
Voluntary Procedures	25
Abdominal hysterectomy	25
Breast surgery	26
Cardiac surgery	29
Coronary Artery Bypass Graft.....	37
Cranial surgery	39
Voluntary orthopaedic procedures	44
Knee arthroplasty.....	44
Reduction of long bone fracture.....	47
Repair of neck of femur	49

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

- W54.1 Primary prosthetic replacement of articulation of bone NEC
- W54.2 Conversion to prosthetic replacement of articulation of bone not elsewhere classified
- 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 not elsewhere classified

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 hemicolectomy and end to end anastomosis
- H06.2 Extended right hemicolectomy and anastomosis of ileum to colon
- H06.3 Extended right hemicolectomy and anastomosis NEC
- H06.4 Extended right hemicolectomy 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 hemicolectomy and end to end anastomosis of ileum to colon
Includes: Ileocaecal resection
- H07.2 Right hemicolectomy and side to side anastomosis of ileum to transverse colon
- H07.3 Right hemicolectomy and anastomosis NEC
- H07.4 Right hemicolectomy 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 hemicolectomy and end to end anastomosis of colon to rectum
- H09.2 Left hemicolectomy and end to end anastomosis of colon to colon
- H09.3 Left hemicolectomy and anastomosis NEC
- H09.4 Left hemicolectomy and ileostomy however further qualified
- H09.5 Left hemicolectomy 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 hemicolectomy NEC*

H12 Extirpation 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

L 16.3 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-uniliac 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 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 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 of anastomosis of femoral artery to tibial artery using vein graft NEC
Includes: Bypass of femoral artery by anastomosis of femoral 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*
 - Theombectomy 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

X10 Amputation of foot (see note above)

- X10.1 Amputation of foot through ankle
- X10.2 Disarticulation of tarsal bones
- X10.3 Disarticulation of metatarsal bones
- X10.4 Amputation through metatarsal bones
- X10.8 Other specified
- X10.9 Unspecified

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 hepatis 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*)

Excludes: When associated with correction of tetralogy of fallot (K04)

- 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*)

Excludes: When associated with correction of tetralogy of fallot (K04)

- 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.

K40 Saphenous vein graft replacement of coronary artery (clean)

- K40.1 Saphenous vein graft replacement of one coronary artery
- K40.2 Saphenous vein graft replacement of two coronary arteries
- K40.3 Saphenous vein graft replacement of three coronary arteries
- K40.4 Saphenous vein graft replacement of four or more coronary arteries
- K40.8 Other specified
- K40.9 Unspecified

K41 Other autograft replacement of coronary artery (clean)

- K41.1 Autograft replacement of one coronary artery NEC
- K41.2 Autograft replacement of two coronary arteries NEC
- K41.3 Autograft replacement of three coronary arteries NEC
- K41.4 Autograft replacement of four or more coronary arteries NEC
- K41.8 Other specified
- K41.9 Unspecified

K43 Prosthetic replacement of coronary artery (clean)

- K43.1 Prosthetic replacement of one coronary artery
- K43.2 Prosthetic replacement of two coronary arteries
- K43.3 Prosthetic replacement of three coronary arteries
- K43.4 Prosthetic replacement of four or more coronary arteries
- K43.8 Other specified
- K43.9 Unspecified

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 Extirpation 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 plate 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