



CODES FOR AREAS FOR CONSIDERATION OR OF CONCERN

July 24, 2005

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W1	OPEN OPERATION/ORGAN RELATED TECHNICAL	6
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C = Clinical R = Resource O = Other S = SASM
C1 = Individual C2 = Team C3 = Indeterminate

W0	GENERAL COMPLICATIONS OF TREATMENT	C
W00	Central nervous system	C
W000	CVA	C3
W001	CVA due to hypotension	C1
W002	CVA due to arterial injury	C1
W003	High intracranial pressure	C3
W004	Peri operative intracranial infection	C1
W005	Post operative intracranial haematoma	C1
W006	Peri operative cerebral ischaemia or infarction	C1
W01	Endocrine and breast	C
W02	Eyes - general complication of treatment	C3
W03	Ears - general complication of treatment	C3
W04	Respiratory tract	C
W040	Aspiration pneumonia	C2
W0400	Aspiration pneumonia with no anaesthetic	C2
W0401	Aspiration pneumonia before anaesthetic	C2
W0402	Aspiration pneumonia during anaesthetic	C1
W0403	Aspiration pneumonia after anaesthetic	C2
W041	Pulmonary embolus	C2
W0410	Pulmonary embolus with no prophylaxis given	C1
W0411	Pulmonary embolus with prophylaxis given	C3
W042	Pneumonia as a general complication of treatment	C3
W043	Tension pneumothorax	C3
W0431	Pneumothorax related to CVP line insertion	C1
W0432	Pneumothorax related to thoracentesis	C1
W05	Mouth complication	C3

W06	Upper GI complication	C
W060	Oesophageal complication	C3
W0600	Oesophageal candidiasis	C3
W0601	Oesophageal perforation	C1
W061	Stomach complication	C3
W0610	Acute gastric ulcer	C3
W0611	Acute bleeding gastric ulcer	C3
W0612	Acute perforated gastric ulcer	C3
W062	Duodenal complication	C3
W0620	Acute duodenal ulcer	C3
W0621	Acute bleeding duodenal ulcer	C3
W0622	Acute perforated duodenal ulcer	C3
W063	Small bowel complication	C3
W0630	Ileus	C3
W0631	Misplaced jejunostomy feeding tube	C2

W07	Lower GI complication	C
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W08	Other abdominal complication	C
W080	Abdominal Abscess	C3
W0800	Right subphrenic abscess	C3
W0801	Left subphrenic abscess	C3
W0802	Pelvic abscess	C3
W0803	Right paracolic abscess	C3
W0804	Left paracolic abscess	C3
W0805	Interloop abscess	C3
W081	Pancreatic complication	C3
W0810	Post-operative pancreatitis	C3
W082	Liver complication	C3
W0820	Liver failure	C3

W09	Heart complication	C3
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W0A	Arterial or venous complication	C
W0A0	DVT	C3
W0A00	Sub-clinical DVT	C3
W0A01	Clinical DVT	C3
W0A1	Post radiotherapy carotid artery blow out	C3

W0B	Urinary complication	C
W0B0	Kidney complication	C3
W0B00	Renal failure	C3
W0B01	Hepato renal failure	C3

W0C	Male genital complication	C3
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W0D	Lower female tract complication	C3
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W0E	Upper female tract complication	C3
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W0F	Obstetric complication	C3
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W0G	Skins complication	C3
W0G1	Pressure sores	C2

W0H	Soft tissue complication	C3
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W0J	Skull/spine/bone/joint complication	C3
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W0K	Other bone joint complication	C3
W0K1	Fat embolus	C3

W0L	Wound problem	C
W0L0	Swab left in wound	C1
W0L1	Instrument left in wound	C1
W0L2	Wound infection	C3
W0L20	Wound abscess	C3
W0L21	Cellulitis	C3
W0L22	Fasciitis	C3
W0L3	Seroma	C3
W0L4	Wound dehiscence	C1
W0L40	Deep wound dehiscence	C1
W0L41	Superficial dehiscence	C1
W0L5	Failure of wound healing	C3
W0L6	Wound skin necrosis	C1
W0L60	Minor wound necrosis requiring dressings	C1
W0L61	Major wound necrosis requiring surgery	C1

W0M	Bleeding or coagulation problems not related to operative technique	C
W0M0	General coagulopathy	C3
W0M1	Intra-operative bleeding due to coagulopathy	C3
W0M2	Failure to stop intra-operative bleeding due to coagulopathy	C3
W0M3	Post-operative bleeding due to coagulopathy	C3
W0M4	Upper gastrointestinal bleeding	C3
W0M5	Lower gastrointestinal bleeding	C3
W0M6	Urinary tract bleeding	C3
W0M7	Secondary haemorrhage	C3
W0M8	Post-op bleeding leading to coagulopathy	C3

WON	Miscellaneous complication	C
WON0	Haemodilution post TUR	C2
WON1	Sepsis related to an intravenous line	C2
WON11	Line sepsis coliforms	C2
WON12	Line sepsis staphylococcus	C2
WON2	Sepsis related to a urinary catheter	C3
WON3	Septicaemia- cause unspecified	C3
WON4	Allergy -cause unspecified	C3
WON5	Haemorrhage after needle biopsy	C1
WON6	Theatre acquired infection	C2
WON7	MRSA infection	C3
WON71	MRSA septicaemia	C3
WON72	MRSA in chest	C3
WON73	MRSA on lines	C3
WON74	MRSA in wound	C3
WON8	Sepsis secondary to chest infection	C3
WON9	Hospital acquired chest infection	C3

W1	OPEN OPERATION/ORGAN RELATED TECHNICAL	C
W10	Nervous system complication of open surgery	C
W100	CVA following open surgery	C1
W101	CVA due to hypotension following open surgery	C2
W102	CVA due to arterial injury following open surgery	C1
W103	High intracranial pressure following open surgery	C3
W11	Endocrine/breast complication of open surgery	C3
W12	Eye complication of open surgery	C3
W13	Ear complication of open surgery	C3
W14	Respiratory tract complication of open surgery	C
W140	Lung complication of open surgery	C2
W1400	Injury to lung during open surgery	C1
W1401	Accidental pneumothorax related to open surgery	C1
W1402	Pulmonary artery rupture due to IV line insertion	C1
W141	Tracheal complication of open surgery	C1
W1410	Injury to trachea during open surgery	C1
W142	Broncheal complication of open surgery	C1
W1420	Injury to bronchi during open surgery	C1
W1421	Post operative bronchopleural fistula following open surgery	C1
W143	Pleural complication of open surgery	C1
W1430	Injury to pleura during open surgery	C1
W15	Mouth complication of open surgery	C3

W16	Upper GI complication of open surgery	C
W160	Oesophageal complication of open surgery	C3
W1600	Perforation of oesophagus during open surgery	C1
W1601	Injury to oesophagus during open surgery	C1
W1602	Bleeding from oesophagus related to open surgery	C1
W1603	Stricture of oesophagus following open surgery	C3
W1604	Fistula from oesophagus following open surgery	C1
W1605	Anastomotic leak from oesophagus following open surgery	C1
W1606	Vascular injury to oesophagus following open surgery	C1
W161	Stomach complication of open surgery	C3
W1610	Perforation of stomach during open surgery	C1
W1611	Injury to stomach during open surgery	C1
W1612	Bleeding from stomach related to open surgery	C1
W1613	Stricture of stomach following open surgery	C3
W1614	Fistula from stomach following open surgery	C1
W1615	Anastomotic leak from stomach following open surgery	C1
W1616	Vascular injury to stomach following open surgery	C1
W1617	Colonic ischaemia after gastrectomy following open surgery	C1
W162	Duodenal complication of open surgery	C3
W1620	Perforation of duodenum during open surgery	C1
W1621	Injury to duodenum during open surgery	C1
W1622	Bleeding from duodenum related to open surgery	C1
W1623	Stricture of duodenum following open surgery	C3
W1624	Fistula from duodenum following open surgery	C1
W1625	Anastomotic leak from duodenum following open surgery	C1
W1626	Vascular injury to duodenum during open surgery	C1
W1627	Re-perforation of surgically closed DU after open surgery	C1
W1628	Re-bleed after open operation for duodenal ulcer	C1
W163	Small bowel complication of open surgery	C3
W1630	Perforation of small bowel during open surgery	C1
W1631	Injury to small bowel during open surgery	C1
W1632	Bleeding from small bowel related to open surgery	C1
W1633	Stricture of small bowel after open surgery	C3
W1634	Fistula from small bowel after open surgery	C1
W1635	Anastomotic leak from small bowel after open surgery	C1
W1636	Vascular injury to small bowel during open surgery	C1
W1637	Post-operative obstruction after open surgery	C1
W1638	Technical complications of recent ileostomy	C1

W17	Lower GI complication of open surgery	C
W170	Appendix complication of open surgery	C3
W1700	Injury to appendix during open surgery	C1
W1701	Fistula from appendix after open surgery	C1
W171	Colonic complication of open surgery	C3
W1710	Perforation of colon after open surgery	C1
W1711	Injury to colon during open surgery	C1
W1712	Bleeding from colon related to open surgery	C1
W1713	Stricture of colon after open surgery	C3
W1714	Fistula from colon after open surgery	C1
W1715	Anastomotic leak from colon after open surgery	C1
W1716	Vascular injury to colon during open surgery	C1
W1717	Colostomy infarction after open surgery	C1
W1718	Colonic infarction after open colonic surgery	C1
W172	Rectal complication of open surgery	C3
W1720	Perforation of rectum following open surgery	C1
W1721	Injury to rectum following open surgery	C1
W1722	Bleeding from rectum related to open surgery	C1
W1723	Stricture of rectum following open surgery	C3
W1724	Fistula from rectum to skin after open surgery	C1
W1725	Fistula from rectum to vagina after open surgery	C1
W1726	Fistula from rectum to bladder after open surgery	C1
W1727	Anastomotic leak from rectum after open surgery	C1
W1728	Vascular injury to rectum after open surgery	C1
W173	Anus/perianal complication of open surgery	C3

W18	Other abdominal complication of open surgery	C
W180	Liver complication of open surgery	C3
W1800	Injury to liver during open surgery	C1
W1801	Bleeding from liver related to open surgery	C1
W1802	Bile leakage from liver after open surgery	C1
W1803	Vascular injury to liver following open surgery	C1
W1804	Failure of liver transplant	C3
W181	Gall bladder complication of open surgery	C3
W1810	Perforation of gall bladder during open surgery	C1
W1811	Injury to gall bladder during open surgery	C1
W1812	Bleeding from gall bladder related to open surgery	C1
W1813	Fistula from gall bladder after open surgery	C1
W1814	Anastomotic leak from gall bladder after open surgery	C1
W1815	Vascular injury to gall bladder during open surgery	C1
W182	Biliary tree complication of open surgery	C3
W1820	Injury to common bile duct during open surgery	C1
W1821	Division common bile duct during open surgery	C1
W1822	Injury to right hepatic duct during open surgery	C1
W1823	Division right hepatic duct, during open surgery	C1
W1824	Injury to left hepatic duct during open surgery	C1
W1825	Division left hepatic duct during open surgery	C1
W1826	Fistula from biliary tree after open surgery	C1
W1827	Anastomotic leak from biliary tree after open surgery	C1
W1828	Stricture of biliary tree after open surgery	C3
W1829	Bleeding from biliary tree related to open surgery	C1
W182A	Vascular injury to biliary tree during open surgery	C1
W182C	Retained stones in common bile duct after open gall stone surgery	C1
W183	Pancreatic complication of open surgery	C3
W1830	Operation induced acute pancreatitis after open surgery	C1
W1831	Injury to pancreas during open surgery	C1
W1832	Bleeding from pancreas related to open surgery	C1
W1833	Fistula from pancreas following open surgery	C1
W1834	Anastomotic leak from pancreas after open surgery	C1
W1835	Vascular injury to pancreas during open surgery	C1
W184	Splenic complication of open surgery	C3
W1840	Injury to spleen during open surgery	C1
W1841	Bleeding from spleen related to open surgery	C1

W19	Heart complication of open surgery	C
W190	Injury to heart during open surgery	C1
W191	Prolapse of heart	C3

W1A	Vascular complication of open surgery	C
W1A0	Arterial complication of open surgery	C3
W1A00	Failed arterial reconstruction after open surgery	C1
W1A01	Bowel infarction after open vascular operation	C1
W1A02	Failed open surgical embolectomy	C3
W1A03	Extension of ischaemia after open surgery	C1
W1A04	Arterial occlusion related to open surgery	C1
W1A05	Arterial bleeding related to open surgery	C1
W1A06	Shunt problem related to open surgery	C1
W1A07	Tension vascular anastomosis related to open surgery	C1
W1A1	Venous complication of open surgery	C3
W1A10	Venous Occlusion related to open surgery	C1
W1A11	Venous bleeding related to open surgery	C1
W1A12	Budd Chiari syndrome related to open surgery	C3
W1A13	Central vein thrombosis related to open surgery	C1
W1A14	Clot dislodged leading to pulmonary embolus related to open surgery	C1
W1A15	CVP wrongly positioned	C1
W1A2	Thoracic duct injury during open surgery	C1
W1A20	Injury to thoracic duct during open surgery	C1
W1A21	Division of thoracic duct during open surgery	C1

W1B	Urinary tract complication of open surgery	C
W1B0	Kidney complication of open surgery	C3
W1B00	Injury to kidney during open surgery	C1
W1B1	Ureteric complication of open surgery	C3
W1B10	Injury to ureter during open surgery	C1
W1B2	Bladder complication of open surgery	C3
W1B20	Injury to bladder during open surgery	C1
W1B3	Prostatic complication of open surgery	C3
W1B30	Injury to prostate during open surgery	C1

W1C	Male genital complication of open surgery	C
W1C0	Urethral complication of open surgery	C3
W1C1	Penile complication of open surgery	C3

W1D	Lower female genital tract complication of open surgery	C3
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W1E	Upper female genital tract complication of open surgery	C3
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W1F	Obstetric complication of open surgery	C3
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W1G	Skin complication of open surgery	C3
W1G1	Free skin flap – vascular failure	C1

W1H	Soft tissue complication of open surgery	C3
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W1J	Skull/spine/bone/joint complication of open surgery	C
W1J0	Dislocated hip prosthesis	C3
W1J1	Uncemented orthopaedic prosthesis preferable	C1
W1J2	Crack in greater trochanter	C1
W1J3	Infection of hip prosthesis	C1
W1J4	Intra-operative bone fracture	C1
W1J5	Inadequate fixation of fracture	C1

W1K	Other bone or joint complication of open surgery	C3
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W1L	Wound complication relating to open surgery	C
W1L0	Swab left in wound after open surgery	C1
W1L1	Instrument left in wound after open surgery	C1
W1L2	Wound infection after open surgery	C3
W1L20	Wound abscess after open surgery	C3
W1L21	Cellulitis after open surgery	C3
W1L22	Fasciitis after open surgery	C3
W1L3	Seroma after open surgery	C3
W1L4	Wound dehiscence after open surgery	C1
W1L40	Deep wound dehiscence after open surgery	C1
W1L41	Superficial dehiscence after open surgery	C1
W1L5	Failure to heal wound after open surgery	C3
W1L6	Wound skin necrosis after open surgery	C1
W1L60	Minor skin necrosis requiring dressing after open surgery	C1
W1L61	Major skin necrosis requiring surgery after open surgery	C1

W1M	Peri-op bleeding problems after open surgery	C
W1M0	General coagulopathy relating to open surgery	C3
W1M1	Intra-operative bleeding during open surgery	C1
W1M2	Failure to stop intra-op bleed during open surgery	C1
W1M3	Post-operative bleeding after open surgery	C1
W1M4	Upper GI bleeding relating to open surgery	C1
W1M5	Lower GI bleeding relating to open surgery	C1
W1M6	Urinary tract bleeding relating to open surgery	C1

W1y	Not specified complications of open surgery	C
W1y0	Anastomotic leak after open surgery	C1

W2	LAPAROSCOPIC SURGERY, ORGAN RELATED TECHNICAL	C3
W20	Nervous system complication of laparoscopic operation	C3
W21	Endocrine/breast complication of laparoscopic operation	C3
W22	Eye complication of laparoscopic operation	C3
W23	Ears complication of laparoscopic operation	C3
W24	Respiratory tract complication of laparoscopic operation	C
W240	Injury to lung during laparoscopic operation	C1
W241	Injury to trachea during laparoscopic operation	C1
W242	Injury to bronchi during laparoscopic operation	C1
W243	Injury to pleuri during laparoscopic operation	C1
W25	Mouth complication of laparoscopic operation	C3

W26	Upper GI complication of laparoscopic operation	C
W260	Oesophageal complication of laparoscopic operation	C3
W2600	Perforation of oesophagus during laparoscopic operation	C1
W2601	Injury to oesophagus during laparoscopic operation	C1
W2602	Bleeding from oesophagus during laparoscopic operation	C1
W2603	Stricture of oesophagus after laparoscopic operation	C3
W2604	Fistula from oesophagus after laparoscopic operation	C1
W2605	Anastomotic leak from oesophagus after laparoscopic operation	C1
W2606	Vascular injury to oesophagus during laparoscopic operation	C1
W261	Stomach complication of laparoscopic operation	C3
W2610	Perforation of stomach during laparoscopic operation	C1
W2611	Injury to stomach during laparoscopic operation	C1
W2612	Bleeding from stomach during laparoscopic operation	C1
W2613	Stricture of stomach after laparoscopic operation	C3
W2614	Fistula from stomach after laparoscopic operation	C1
W2615	Anastomotic leak from stomach after laparoscopic operation	C1
W2616	Vascular injury to stomach during laparoscopic operation	C1
W262	Duodenal complication of laparoscopic operation	C3
W2620	Perforation of duodenum during laparoscopic operation	C1
W2621	Injury to duodenum during laparoscopic operation	C1
W2622	Bleeding from duodenum during laparoscopic operation	C1
W2623	Stricture of duodenum after laparoscopic operation	C3
W2624	Fistula from duodenum after laparoscopic operation	C1
W2625	Anastomotic leak from duodenum after laparoscopic operation	C1
W2626	Vascular injury to duodenum during laparoscopic operation	C1
W2627	Re-perforation of surgically closed DU after laparoscopic operation	C1
W263	Small bowel complication of laparoscopic operation	C3
W2630	Perforation of small bowel during laparoscopic operation	C1
W2631	Injury to small bowel during laparoscopic operation	C1
W2632	Bleeding from small bowel related to laparoscopic operation	C1
W2633	Stricture of small bowel after laparoscopic operation	C3
W2634	Fistula from small bowel after laparoscopic operation	C1
W2635	Anastomotic leak from small bowel after laparoscopic operation	C1
W2636	Vascular injury to small bowel during laparoscopic operation	C1

W27	Lower GI complication of laparoscopic operation	C
W270	Appendix complication of laparoscopic operation	C3
W2700	Injury to appendix during laparoscopic operation	C1
W2701	Fistula from appendix after laparoscopic operation	C1
W271	Colonic complication of laparoscopic operation	C3
W2710	Perforation of colon related to laparoscopic operation	C1
W2711	Injury to colon related to laparoscopic operation	C1
W2712	Bleeding from colon related to laparoscopic operation	C1
W2713	Stricture of colon related to laparoscopic operation	C3
W2714	Fistula from colon related to laparoscopic operation	C1
W2715	Anastomotic leak from colon after laparoscopic operation	C1
W2716	Vascular injury to colon during laparoscopic operation	C1
W2717	Colostomy infarction after laparoscopic operation	C1
W272	Rectal complication of laparoscopic operation	C3
W2720	Perforation of rectum during laparoscopic operation	C1
W2721	Injury to rectum during laparoscopic operation	C1
W2722	Bleeding from rectum related to laparoscopic operation	C1
W2723	Stricture of rectum after laparoscopic operation	C3
W2724	Fistula from rectum to skin after laparoscopic operation	C1
W2725	Fistula from rectum to vagina after laparoscopic operation	C1
W2726	Fistula from rectum to bladder after laparoscopic operation	C1
W2727	Anastomotic leak from rectum after laparoscopic operation	C1
W2728	Vascular injury to rectum during laparoscopic operation	C1
W273	Anal/perianal complication of laparoscopic operation	C1

W28	Other abdominal complication of laparoscopic operation	C
W280	Liver complication of laparoscopic operation	C3
W2800	Injury to liver during laparoscopic operation	C1
W2801	Bleeding from liver related to laparoscopic operation	C1
W2802	Bile leakage from liver related to laparoscopic operation	C1
W2803	Vascular injury to liver related to laparoscopic operation	C1
W281	Gall bladder complication of laparoscopic operation	C3
W2810	Perforation of gall bladder during laparoscopic operation	C1
W2811	Injury to gall bladder during laparoscopic operation	C1
W2812	Bleeding from gall bladder related to laparoscopic operation	C1
W2813	Fistula from gall bladder after laparoscopic operation	C1
W2814	Anastomotic leak from gall bladder after laparoscopic operation	C1
W2815	Vascular injury to gall bladder during laparoscopic operation	C1
W282	Biliary tree complication of laparoscopic operation	C3
W2820	Injury to common bile duct during laparoscopic operation	C1
W2821	Division of common bile duct during laparoscopic operation	C1
W2822	Injury to right hepatic duct during laparoscopic operation	C1
W2823	Division of right hepatic duct during laparoscopic operation	C1
W2824	Injury to left hepatic duct during laparoscopic operation	C1
W2825	Division of left hepatic duct during laparoscopic operation	C1
W2826	Fistula from biliary tree after laparoscopic operation	C1
W2827	Anastomotic leak from biliary tree after laparoscopic operation	C1
W2828	Stricture of biliary tree after laparoscopic operation	C3
W2829	Bleeding from biliary tree related to laparoscopic operation	C1
W282A	Vascular injury to biliary tree during laparoscopic operation	C1
W283	Pancreatic complication of laparoscopic operation, organ related technical	C3
W2830	Operation induced acute pancreatitis after laparoscopic operation	C1
W2831	Injury to pancreas during laparoscopic operation	C1
W2832	Bleeding from pancreas related to laparoscopic operation	C1
W2833	Fistula from pancreas after laparoscopic operation	C1
W2834	Anastomotic leak from pancreas after laparoscopic operation	C1
W2835	Vascular injury to pancreas during laparoscopic operation	C1
W284	Splenic complication of laparoscopic operation	C3
W2840	Injury to spleen during laparoscopic operation	C1
W2841	Bleeding from spleen related to laparoscopic operation	C1
W29	Heart complication of laparoscopic operation	C
W290	Injury to heart during laparoscopic operation	C1

W2A	Vascular complication of laparoscopic operation	C
W2A0	Arterial complication laparoscopic operation	C3
W2A00	Arterial reconstruction failed after laparoscopic operation	C1
W2A01	Bowel infarct after vascular laparoscopic operation	C1
W2A02	Failed laparoscopic embolectomy	C3
W2A03	Extension of ischaemia after laparoscopic operation	C1
W2A04	Arterial occlusion after laparoscopic operation	C1
W2A05	Arterial bleeding after laparoscopic operation	C1
W2A06	Shunt problem after laparoscopic operation	C1
W2A07	Tension vascular anastomosis after laparoscopic operation	C1
W2A1	Venous problem after laparoscopic operation	C3
W2A10	Venous occlusion after laparoscopic operation	C1
W2A11	Venous bleeding, laparoscopic operation	C1
W2A12	Budd Chiari syndrome related to laparoscopic operation	C3
W2A13	Central vein thrombosis related to laparoscopic operation	C1
W2A2	Thoracic duct injury during laparoscopic operation	C1
W2A20	Injury to thoracic duct during laparoscopic operation	C1
W2A21	Division of thoracic duct during laparoscopic operation	C1
W2B	Urinary problem related to laparoscopic operation	C
W2B0	Kidney problem related to laparoscopic operation	C3
W2B1	Ureter problem related to laparoscopic operation	C3
W2B2	Bladder problem related to laparoscopic operation	C3
W2B3	Prostate problem related to laparoscopic operation	C3
W2C	Male genital problem related to laparoscopic operation	C
W2C0	Urethral problem related to laparoscopic operation	C3
W2C1	Penis problem related to laparoscopic operation	C3
W2D	Lower female tract problem related to laparoscopic operation	C3
W2E	Upper female tract problem related to laparoscopic operation	C3
W2F	Obstetric problem related to laparoscopic operation	C3
W2G	Skin problem related to laparoscopic operation	C3
W2H	Soft tissue problem related to laparoscopic operation	C3
W2J	Skull/spine/bone/joint problem related to laparoscopic operation	C3
W2K	Other bone/joint problem related to laparoscopic operation	C3

W2L	Wound problem related to laparoscopic operation	C
W2L0	Swab left in wound after laparoscopic operation	C1
W2L1	Instrument left in wound after laparoscopic operation	C1
W2L2	Wound infection after laparoscopic operation	C3
W2L20	Wound abscess after laparoscopic operation	C3
W2L21	Wound cellulitis after laparoscopic operation	C3
W2L22	Wound fasciitis after laparoscopic operation	C3
W2L3	Wound seroma after laparoscopic operation	C3
W2L4	Wound dehiscence after laparoscopic operation	C1
W2L40	Deep wound dehiscence after laparoscopic operation	C1
W2L41	Superficial wound dehiscence after laparoscopic operation	C1
W2L5	Failure to heal wound after laparoscopic operation	C3
W2L6	Wound skin necrosis after laparoscopic operation	C1
W2L60	Minor skin necrosis requiring dressing after laparoscopic operation	C1
W2L61	Major skin necrosis requiring operation after laparoscopic operation	C1

W2M	Peri-operative bleeding problems after laparoscopic operation	C
W2M0	General coagulopathy related to laparoscopic operation	C3
W2M1	Intra-operative bleeding during laparoscopic operation	C1
W2M2	Failure to stop intra-operative bleed during laparoscopic operation	C1
W2M3	Post-operative bleed after laparoscopic operation	C1
W2M4	Upper GI bleeding related to laparoscopic operation	C1
W2M5	Lower GI bleeding related to laparoscopic operation	C1
W2M6	Urinary tract bleed related to laparoscopic operation	C1

W2y0	Anastomotic leak related to laparoscopic operation	C1
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W3	ENDOSCOPIC SURGERY	C
W30	Nervous system complication related to endoscopic operation	C3
W31	Endocrine/breast complication related to endoscopic operation	C3
W32	Eyes complication related to endoscopic operation	C3
W33	Ears complication related to endoscopic operation	C3
W34	Respiratory tract complication related to endoscopic operation	C
W340	Injury to lung during endoscopic operation	C1
W341	Injury to trachea during endoscopic operation	C1
W342	Injury to bronchi during endoscopic operation	C1
W343	Injury to pharynx during endoscopic operation	C1
W35	Mouth complication related to endoscopic operation	C3

W36	Upper GI complication related to endoscopic operation	C
W360	Oesophageal complication related to endoscopic operation	C3
W3600	Perforation of oesophagus during endoscopic operation	C1
W3601	Injury to oesophagus during endoscopic operation	C1
W3602	Bleeding from oesophagus during endoscopic operation	C1
W3603	Stricture of oesophagus after endoscopic operation	C3
W3604	Fistula from oesophagus after endoscopic operation	C1
W3605	Anastomotic leak from oesophagus after endoscopic operation	C1
W3606	Vascular injury to oesophagus during endoscopic operation	C1
W361	Stomach complication related to endoscopic operation	C3
W3610	Perforation of stomach during endoscopic operation	C1
W3611	Injury to stomach during endoscopic operation	C1
W3612	Bleeding from stomach resulting from endoscopic operation	C1
W3613	Stricture of stomach related to endoscopic operation	C3
W3614	Fistula from stomach related to endoscopic operation	C1
W3615	Anastomotic leak from stomach related to endoscopic operation	C1
W3616	Vascular injury to stomach during endoscopic operation	C1
W362	Duodenal complication related to endoscopic operation	C3
W3620	Perforation of duodenum during endoscopic operation	C1
W3621	Injury to duodenum during endoscopic operation	C1
W3622	Bleeding from duodenum resulting from endoscopic operation	C1
W3623	Stricture of duodenum after endoscopic operation	C3
W3624	Fistula from duodenum after endoscopic operation	C1
W3625	Anastomotic leak from duodenum after endoscopic operation	C1
W3626	Vascular injury to duodenum relating to endoscopic operation	C1
W3627	Re-perforation of surgically closed DU after endoscopic operation	C1
W3628	Re-bleed after injection of bleeding duodenal ulcer	C1
W363	Small bowel complication after endoscopic operation	C3
W3630	Perforation of small bowel during endoscopic operation	C1
W3631	Injury to small bowel during endoscopic operation	C1
W3632	Bleed from small bowel resulting from endoscopic operation	C1
W3633	Stricture of small bowel after endoscopic operation	C3
W3634	Fistula from small bowel after endoscopic operation	C1
W3635	Anastomotic leak small bowel after endoscopic operation	C1
W3636	Vascular injury to small bowel during endoscopic operation	C1
W3637	Leak following PEG tube insertion	C1

W37	Lower GI complication after endoscopic operation	C
W370	Appendix complication after endoscopic operation	C3
W3700	Injury to appendix during endoscopic operation	C1
W3701	Fistula from appendix after endoscopic operation	C1
W371	Colon complication related to endoscopic operation	C3
W3710	Perforation of colon during endoscopic operation	C1
W3711	Injury to colon during endoscopic operation	C1
W3712	Bleeding from colon resulting from endoscopic operation	C1
W3713	Stricture of colon after endoscopic operation	C3
W3714	Fistula from colon after endoscopic operation	C1
W3715	Anastomotic leak from colon after endoscopic operation	C1
W3716	Vascular injury to colon during endoscopic operation	C1
W3717	Colostomy infarction after endoscopic operation	C1
W372	Rectal complication after endoscopic operation	C3
W3720	Perforation of rectum, endoscopic operation	C1
W3721	Injury to rectum during endoscopic operation	C1
W3722	Bleeding from rectum relating to endoscopic operation	C1
W3723	Stricture of rectum after endoscopic operation	C3
W3724	Fistula from rectum to skin after endoscopic operation	C1
W3725	Fistula from rectum to vagina after endoscopic operation	C1
W3726	Fistula from rectum to bladder after endoscopic operation	C1
W3727	Anastomotic leak from rectum after endoscopic operation	C1
W3728	Vascular injury to rectum during endoscopic operation	C1
W373	Anus/perianal complication of endoscopic operation	C1

W38	Other abdominal complication after endoscopic operation	C
W380	Liver complication after endoscopic operation	C3
W3800	Injury to liver during endoscopic operation	C1
W3801	Bleeding from liver during endoscopic operation	C1
W3802	Bile leakage from liver related to, endoscopic operation	C1
W3803	Vascular injury to liver related to endoscopic operation	C1
W381	Gall bladder complication of endoscopic operation	C3
W3810	Perforation of gall bladder during endoscopic operation	C1
W3811	Injury to gall bladder during endoscopic operation	C1
W3812	Bleeding from gall bladder after endoscopic operation	C1
W3813	Fistula from gall bladder after endoscopic operation	C1
W3814	Anastomotic leak from gall bladder after endoscopic operation	C1
W3815	Vascular injury to gall bladder during endoscopic operation	C1
W382	Biliary tree complication of endoscopic operation	C3
W3820	Injury common bile duct during endoscopic operation	C1
W3821	Division common bile duct during endoscopic operation	C1
W3822	Injury to right hepatic duct during endoscopic operation	C1
W3823	Division right hepatic duct during endoscopic operation	C1
W3824	Injury to left hepatic duct during endoscopic operation	C1
W3825	Division left hepatic duct during endoscopic operation	C1
W3826	Fistula from biliary tree after endoscopic operation	C1
W3827	Anastomotic leak from biliary tree after endoscopic operation	C1
W3828	Stricture of biliary tree after endoscopic operation	C3
W3829	Bleeding from biliary tree related to endoscopic operation	C1
W382A	Vascular injury to biliary tree during endoscopic operation	C1
W382B	ERCP failed	C3
W382C	ERCP + stenting of CBD failed	C3
W383	Pancreatic complication of endoscopic operation	C3
W3830	Operation induced acute pancreatitis after endoscopic operation	C1
W3831	Injury to pancreas related to endoscopic operation	C1
W3832	Bleeding from pancreas related to endoscopic operation	C1
W3833	Fistula from pancreas after endoscopic operation	C1
W3834	Anastomotic leak from pancreas after endoscopic operation	C1
W3835	Vascular injury to pancreas during endoscopic operation	C1
W384	Splenic complication of endoscopic operation	C3
W3840	Injury to spleen during endoscopic operation	C1
W3841	Bleeding from spleen related to endoscopic operation	C1

W39	Heart complication of endoscopic operation	C
W390	Injury to heart during endoscopic operation	C1

W3A	Vascular complication of endoscopic operation	C
W3A0	Arterial complication of endoscopic operation	C3
W3A00	Reconstruction failed after endoscopic operation	C3
W3A01	Bowel infarct after vascular endoscopic operation	C1
W3A02	Failed embolectomy after endoscopic operation	C3
W3A03	Extension of ischaemia post-op after endoscopic operation	C1
W3A04	Arterial occlusion after endoscopic operation	C1
W3A05	Arterial bleeding after endoscopic operation	C1
W3A06	Shunt problem after endoscopic operation	C3
W3A07	Tension vascular anastomosis after endoscopic operation	C1
W3A1	Venous complication after endoscopic operation	C3
W3A10	Venous occlusion after endoscopic operation	C1
W3A11	Venous bleeding related to endoscopic operation	C1
W3A12	Budd Chiari syndrome related to endoscopic operation	C3
W3A13	Central vein thrombosis related to endoscopic operation	C1
W3A2	Thoracic duct injury during endoscopic operation	C1
W3A20	Injury to thoracic duct during endoscopic operation	C1
W3A21	Division of thoracic duct during endoscopic operation	C1

W3B	Urinary complication of endoscopic operation	C
W3B0	Kidney complication of endoscopic operation	C3
W3B1	Ureteric complication of endoscopic operation	C3
W3B2	Bladder complication of endoscopic operation	C3
W3B3	Prostate complication of endoscopic operation	C3

W3C	Male genitalia complication of endoscopic operation	C
W3C0	Urethral complication of endoscopic operation	C3
W3C1	Penile complication of endoscopic operation	C3

W3D	Lower female genital tract complication of endoscopic operation	C3
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W3E	Upper female genital tract complication of endoscopic operation	C3
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W3F	Obstetric complication of endoscopic operation	C3
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W3G	Skin complication of endoscopic operation	C3
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W3H	Soft tissue complication of endoscopic operation	C3
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W3J	Skull/spine/bone/joint complication of endoscopic operation	C3
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W3K	Other bone/joint complication of endoscopic operation	C3
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W3L	Wound complication of endoscopic operation	C
W3L0	Swab left in wound after endoscopic operation	C1
W3L1	Instrument left in wound after endoscopic operation	C1
W3L2	Wound infection after endoscopic operation	C3
W3L20	Wound abscess after endoscopic operation	C3
W3L21	Cellulitis after endoscopic operation	C3
W3L22	Fasciitis after endoscopic operation	C3
W3L3	Seroma after endoscopic operation	C3
W3L4	Wound dehiscence after endoscopic operation	C1
W3L40	Deep wound dehiscence after endoscopic operation	C1
W3L41	Superficial dehiscence after endoscopic operation	C1
W3L5	Failure to heal wound after endoscopic operation	C3
W3L6	Wound skin necrosis after endoscopic operation	C1
W3L60	Minor skin necrosis requiring dressing after endoscopic operation	C1
W3L61	Major skin necrosis requiring surgery after endoscopic operation	C1

W3M	Peri-operative bleeding related to endoscopic operation	C
W3M0	General coagulopathy related to endoscopic operation	C3
W3M1	Intra-operative bleeding related to endoscopic operation	C1
W3M2	Failure stop intra-operative bleed during endoscopic operation	C1
W3M3	Post-operative bleeding related to endoscopic operation	C1
W3M4	Upper GI bleeding related to endoscopic operation	C1
W3M5	Lower GI bleeding related to endoscopic operation	C1
W3M6	Urinary tract bleeding related to endoscopic operation	C1

W3y0	Anastomotic leak related to endoscopic operation	C1
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W4	RADIOLOGICAL SURGERY, ORGAN RELATED TECHNICAL	C3
W40	Nervous system complication of radiological operation	C3
W41	Endocrine/breast complication of radiological operation	C3
W42	Eye complication of radiological operation	C3
W43	Ear complication of radiological operation	C3
W44	Respiratory tract complication of radiological operation	C3
W440	Injury to lung during radiological operation	C3
W45	Mouth complication of radiological operation	C3

W46	Upper GI complication of radiological operation	C
W460	Oesophageal complication of radiological operation	C3
W4600	Perforation of oesophagus during radiological operation	C1
W4601	Injury to oesophagus during radiological operation	C1
W4602	Bleeding from oesophagus related to radiological operation	C1
W4603	Stricture of oesophagus after radiological operation	C3
W4604	Fistula from oesophagus after radiological operation	C1
W4605	Anastomotic leak oesophagus after radiological operation	C1
W4606	Vascular injury to oesophagus during radiological operation	C1
W461	Stomach complication of radiological operation	C3
W4610	Perforation of stomach during radiological operation	C1
W4611	Injury to stomach during radiological operation	C1
W4612	Bleeding from stomach caused by radiological operation	C1
W4613	Stricture of stomach after radiological operation	C3
W4614	Fistula from stomach after radiological operation	C1
W4615	Anastomotic leak from stomach after radiological operation	C1
W4616	Vascular injury to stomach during radiological operation	C1
W462	Duodenal complication of radiological operation	C3
W4620	Perforation of duodenum during radiological operation	C1
W4621	Injury to duodenum during radiological operation	C1
W4622	Bleeding from duodenum related to radiological operation	C1
W4623	Stricture of duodenum after radiological operation	C3
W4624	Fistula from duodenum after radiological operation	C1
W4625	Anastomotic leak from duodenum, after radiological operation	C1
W4626	Vascular injury to duodenum during radiological operation	C1
W4627	Re-perforation of surgically closed DU after radiological operation	C1
W463	Small bowel complication of radiological operation	C3
W4630	Perforation of small bowel during radiological operation	C1
W4631	Injury to small bowel during radiological operation	C1
W4632	Bleeding from small bowel related to radiological operation	C1
W4633	Stricture of small bowel after radiological operation	C3
W4634	Fistula from small bowel after radiological operation	C1
W4635	Anastomotic leak /small bowel after radiological operation	C1
W4636	Vascular injury to small bowel during radiological operation	C1

W47	Lower GI complication of radiological operation	C
W470	Appendix complication of radiological operation	C3
W4700	Injury to appendix during radiological operation	C1
W4701	Fistula from appendix after radiological operation	C1
W471	Colon complication of radiological operation	C3
W4710	Perforation of colon during radiological operation	C1
W4711	Injury to colon during radiological operation	C1
W4712	Bleeding from colon related to radiological operation	C1
W4713	Stricture of colon after radiological operation	C3
W4714	Fistula from colon after radiological operation	C1
W4715	Anastomotic leak from colon after radiological operation	C1
W4716	Vascular injury to colon during radiological operation	C1
W4717	Colostomy infarction after radiological operation	C1
W472	Rectal complication of radiological operation	C3
W4720	Perforation of rectum during radiological operation	C1
W4721	Injury to rectum during radiological operation	C1
W4722	Bleeding from rectum related to radiological operation	C1
W4723	Stricture of rectum after radiological operation	C3
W4724	Fistula from rectum to skin after radiological operation	C1
W4725	Fistula from rectum to vagina after radiological operation	C1
W4726	Fistula from rectum to bladder after radiological operation	C1
W4727	Anastomotic leak from rectum after radiological operation	C1
W4728	Vascular injury to rectum during radiological operation	C1
W473	Anal/perianal complication of radiological operation	C1

W48	Other abdominal complication of radiological operation	C
W480	Liver complication of radiological operation	C3
W4800	Injury to liver during radiological operation	C1
W4801	Bleeding from liver related to radiological operation	C1
W4802	Bile leakage from liver after radiological operation	C1
W4803	Vascular injury to liver during radiological operation	C1
W481	Gall bladder complication of radiological operation	C1
W4810	Perforation of gall bladder during radiological operation	C1
W4811	Injury to gall bladder during radiological operation	C1
W4812	Bleeding from gall bladder related to radiological operation	C1
W4813	Fistula from gall bladder after radiological operation	C1
W4814	Anastomotic leak from gall bladder after radiological operation	C1
W4815	Vascular injury to gall bladder during radiological operation	C1
W482	Biliary tree complication of radiological operation	C1
W4820	Injury to common bile duct during radiological operation	C1
W4821	Division of common bile duct during radiological operation	C1
W4822	Injury to right hepatic duct during radiological operation	C1
W4823	Division of right hepatic duct during radiological operation	C1
W4824	Injury to left hepatic duct during radiological operation	C1
W4825	Division of left hepatic duct during radiological operation	C1
W4826	Fistula from biliary tree after radiological operation	C1
W4827	Anastomotic leak from biliary tree after radiological operation	C1
W4828	Stricture of biliary tree after radiological operation	C3
W4829	Bleeding from biliary tree after radiological operation	C1
W482A	Vascular injury to biliary tree during radiological operation	C1
W483	Pancreatic complication of radiological operation	C1
W4830	Operation induced acute pancreatitis after radiological operation	C1
W4831	Injury to pancreas during radiological operation	C1
W4832	Bleeding from pancreas related to radiological operation	C1
W4833	Fistula from pancreas after radiological operation	C1
W4834	Anastomotic leak from pancreas after radiological operation	C1
W4835	Vascular injury to pancreas after radiological operation	C1
W484	Splenic complication of radiological operation	C1
W4840	Injury to spleen during radiological operation	C1
W4841	Bleeding from spleen related to radiological operation	C1
W49	Heart complication of radiological operation	C
W490	Injury to heart during radiological operation	C1

W4A	Vascular complication of radiological operation	C
W4A0	Arterial complication of radiological operation	C1
W4A00	Reconstruction failed after radiological operation	C3
W4A01	Bowel infarct after vascular radiological operation	C1
W4A02	Failed embolectomy after radiological operation	C3
W4A03	Extension ischaemia post-operative after radiological operation	C1
W4A04	Arterial occlusion after radiological operation	C1
W4A05	Arterial bleeding after radiological operation	C1
W4A06	Shunt problem after radiological operation	C1
W4A07	Tension vascular anastomosis after radiological operation	C1
W4A08	Distal arterial embolism after radiological procedure	C1
W4A0A	Distal site bleeding after thrombolysis by radiological procedure	C3
W4A0B	Local puncture bleeding after thrombolysis by radiological procedure	C1
W4A0C	Distal arterial occlusion after thrombolysis by radiological procedure	C1
W4A0D	Stroke after thrombolysis by radiological procedure	C1
W4A0E	Coagulopathy after thrombolysis by radiological procedure	C1
W4A1	Venous complication of radiological operation	C1
W4A10	Venous occlusion after radiological operation	C1
W4A11	Venous bleeding after radiological operation	C1
W4A12	Budd Chiari syndrome related to radiological operation	C3
W4A13	Central vein thrombosis related to radiological operation	C1
W4A2	Thoracic duct injury related to radiological operation	C1
W4A20	Injury to thoracic duct during radiological operation	C1
W4A21	Division of thoracic duct during radiological operation	C1
W4A3	Problems post coiling of cerebral aneurysm	C1
W4A31	Cerebral infarct post coiling	C1

W4B	Urinary complication of radiological operation	C
W4B0	Kidney complication of radiological operation	C3
W4B00	Injury to kidney during radiological operation	C1
W4B1	Ureter complication of radiological operation	C3
W4B10	Injury to ureter during radiological operation	C1
W4B2	Bladder complication of radiological operation	C3
W4B20	Injury to bladder during radiological operation	C1
W4B3	Prostate complication of radiological operation	C3
W4B30	Injury to prostate during radiological operation	C1
W4B4	Radiological drainage inadequate	C

W4C	Male genital complication of radiological operation	C
W4C0	Urethral complication of radiological operation	C3
W4C1	Penile complication of radiological operation	C3

W4D	Lower female genital tract complication of radiological operation	C3
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W4E	Upper female genital tract complication of radiological operation	C3
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W4F	Obstetric complication of radiological operation	C3
W4G	Skin complication of radiological operation	C3
W4H	Soft tissue complication of radiological operation	C3
W4J	Skull/spine/bone/joint complication of radiological operation	C3
W4K	Other bone/joint complication of radiological operation	C3
W4L	Wound complication of radiological operation	C
W4L0	Swab left in patient after radiological operation	C1
W4L1	Instrument left in patient after radiological operation	C1
W4L2	Wound infection after radiological operation	C3
W4L20	Wound abscess after radiological operation	C3
W4L21	Wound cellulitis after radiological operation	C3
W4L22	Wound fasciitis after radiological operation	C3
W4L3	Wound seroma after radiological operation	C3
W4L4	Wound dehiscence after radiological operation	C1
W4L40	Deep wound dehiscence after radiological operation	C1
W4L41	Superficial wound dehiscence after radiological operation	C1
W4L5	Failure to heal wound after radiological operation	C3
W4L6	Wound skin necrosis after radiological operation	C1
W4L60	Minor skin necrosis requiring dressings after radiological operation	C1
W4L61	Major skin necrosis requiring surgery after radiological operation	C1
W4M	Peri-operative bleeding after radiological operation	C
W4M0	General coagulopathy related to radiological operation	C1
W4M1	Intra-operative bleeding during radiological operation,	C1
W4M2	Failure stop intra-operative bleed during radiological operation	C1
W4M3	Post-operative bleeding after radiological operation	C1
W4M4	Upper GI bleeding related to radiological operation	C1
W4M5	Lower GI bleeding related to radiological operation	C1
W4M6	Urinary tract bleeding related to radiological operation,	C1
W4y0	Anastomotic leak related to radiological operation	C1

W5	ANAESTHESIA RELATED	
W50	General anaesthetic complications	
W500	Monitoring problems during general anaesthetic	R
W5000	Poor monitoring during general anaesthetic	R
W5001	Inadequate monitors used during general anaesthetic	C1
W5002	Inadequate monitors available for general anaesthetic	R
W5003	Failure to check equipment during general anaesthetic	C1
W501	Technique not ideal during general anaesthetic	C1
W5010	Not optimal practice during general anaesthetic	C1
W5011	Pre-medication not optimal for general anaesthetic	C1
W5012	Anaesthetic agent not optimal for general anaesthetic	C1
W5013	Anaesthetic circuit not optimal for general anaesthetic	C1
W5014	Better not to have had a general anaesthetic	C2
W5015	Better to have been a general anaesthetic	C2
W5016	Intubation difficult at general anaesthetic	C3
W5017	Intubation difficult - no hypoxia during general anaesthetic	C3
W5018	Intubation difficult - hypoxia during general anaesthetic	C1
W5019	Intubation failed for general anaesthetic	C3
W501A	Intubation required during operation with general anaesthetic	C3
W501B	Intubation required post-operatively after general anaesthetic	C3
W501C	Intubation of the right bronchus during general anaesthetic	C1
W501D	Better to have used a double lumen ET tube	C1
W501E	Injury to cricoid	C1
W502	Respiratory complication during general anaesthetic	C3
W5020	Laryngospasm complicating general anaesthetic	C3
W5021	Bronchospasm complicating general anaesthetic	C3
W5022	Aspiration complicating general anaesthetic	C1
W5023	Pneumothorax complicating general anaesthetic	C3
W5024	Major haemoptysis whilst being ventilated	C3
W5025	Failure of neuromuscular reversal	C3
W5026	Post general anaesthetic airway problem	C3
W5027	Aspiration at intubation	C1
W503	Cardiac complication during general anaesthetic	C3
W5030	Cardiac arrhythmia complicating general anaesthetic	C3
W5031	Myocardial ischaemia complicating general anaesthetic	C3
W5032	Hypotension complicating general anaesthetic	C1
W5033	Cardiac arrest complicating general anaesthetic	C3
W5034	Hypertension during anaesthesia	C3

W51	Regional anaesthetic complication	C
W510	Monitoring problems during regional anaesthetic	C1
W511	Technique not ideal during regional anaesthetic	C1
W512	Respiratory complication during regional anaesthetic	C3
W513	Cardiac complication after regional anaesthetic	C3
W5130	Cardiac arrhythmia complicating regional anaesthetic	C3
W5131	Myocardial ischaemia complicating regional anaesthetic	C3
W5132	Hypotension complicating regional anaesthetic	C1
W5133	Cardiac arrest complicating regional anaesthetic	C3
W514	Better not have used an epidural anaesthetic	C1
W515	Epidural should have been inserted peri-operatively	C1
W516	Inadequate local analgesia	C1
W517	Epidural removed too soon	C2
W518	Epidural opiates used in too great a concentration	C1

W52	Local anaesthetic complications	C
W520	Monitoring not ideal during local anaesthetic	C1
W521	Technique not ideal during local anaesthetic	C1
W5210	Excess spread of block during local anaesthetic	C1
W5211	Intravascular injection of local anaesthetic	C1

W53	Complication relating to anaesthesia with sedation only	C
W530	Monitoring not ideal during anaesthetic with sedation only	C1
W531	Technique not ideal during anaesthetic with sedation only	C1

W6	EQUIPMENT RELATED COMPLICATION	
W60	Failure of equipment	
W600	Stapler failure	R
W601	Endoscope failure	R
W602	Orthopaedic instrument failure	R
W6020	Failure of hip fracture screw/plate	R
W603	Cardiopulmonary bypass problem	R
W604	Cardiopulmonary bypass pump problem	R
W605	Cardiopulmonary bypass line problem	R
W606	Other, equipment related complication	R
W607	Accidental disconnection of equipment	C2
W608	Microscope failure in theatre	R
W609	Ventilator failure	R
W61	Equipment not available	R
W610	CT scan not available	R
W611	No fiberoptic intubation facilities	R

W7	DRUGS RELATED COMPLICATION	C
W70	Reaction to drugs	C
W700	Convulsion due to drugs	C3
W7000	Local anaesthetic related complication	C3
W701	Anaphylactic shock related to drug treatment	C3
W702	Allergic skin reaction related to drug treatment	C3
W703	Antibiotic induced colitis	C3
W704	Drug induced peptic ulceration	C3
W705	Adverse effect of steroids	C3
W706	Gentimicin related renal failure	C1
W706B	Vancomycin related renal failure	C3
W707	Anticoagulation causing post operative bleeding	C3
W708	Multi-organ failure after thiopentone	C1
W709	GI complication after taking NSAIDs	C3
W71	Wrong drug used	C
W711	Inappropriate use of non steroidal analgesia	C2
W712	Inappropriate use of sedation	C1
W7121	Inappropriate use of droperidol	C1
W72	Wrong dose of drug used	C
W720	Over anticoagulation	C3
W7200	Over anticoagulation before admission	C3
W7201	Over anticoagulation during admission	C2
W721	Under anticoagulation	C2
W7210	Under anticoagulation before admission	C3
W7211	Under anticoagulation during admission	C2
W722	Over sedation	C2
W7221	Excessive sedation at endoscopy	C1
W723	Respiratory depression due to drug overdosage	C1
W724	Excess muscle relaxant	C1
W73	Wrong route of drug administration	C1
W74	Drug interaction	C3
W75	Drug omission	C2
W76	Drug continued in presence of renal failure	C2

W8	BLOOD/BLOOD PRODUCTS COMPLICATION	
W80	Allergy to blood or blood products	O
W81	Wrong blood given to patient	C2
W82	Pyrexia due to blood or blood products	O
W83	No blood available	R
W84	Problems with haemofiltration	C
W841	Lactate free infusate should have been used for Haemofiltration	C2
W85	Delay in giving blood	C2
W86	Delay in giving blood products	C2

W9	DIAGNOSIS RELATED COMPLICATIONS	
W90	Diagnosis missed - unspecified	O
W91	Diagnosis missed by GP	O
W92	Diagnosis missed by surgeons	C
W921	Diagnosis missed on xray	O
W9211	Free gas on chest xray not seen by medical staff	C2
W922	Diagnosis missed on endoscopy	C2
W923	Diagnosis missed by surgeon at operation	C1
W924	Diagnosis missed by another surgeon	C2
W93	Diagnosis missed by pathologist	C2
W94	Diagnosis missed by medical unit	C2
W95	Diagnosis missed by referring hospital	O
W96	Diagnosis missed - no histology	C2
W97	Diagnosis missed by ICU staff	C2
W98	Diagnosis missed by radiologists	C2

WA	DELAYS	
WA0	Delay in transfer to surgical unit	O
WA01	Delay in surgical consultation	O
WA1	Delay in transfer to surgeon by General Practitioner	O
WA2	Delay in transfer to surgeon by physicians	O
WA3	Delay in seeking anaesthetic advice	C2
WA4	Delay to blood transfusion	O
WA5	Delay in obtaining cardiac arrest team	C2
WA6	Delay to surgery ie earlier operation desirable	C
WA61	Delay in evacuating of a mass cerebral lesion	C1
WA62	Earlier operation desirable - no theatre available	R
WA63	Delay to operation caused by missed diagnosis	C2
WA64	Delay to ERCP	C2
WA65	Delay to surgery whilst obtaining a CT scan	R
WA66	Delay to surgery due to lack of beds	R
WA7	Delay in patient presenting	O
WA8	Delay in obtaining blood products, xmatch or typing	R
WA80	Delay in availability of coagulation factors	O
WA9	Delay in recognising complications	C
WA90	Delay in recognising anastomotic leak	C2
WA91	Delay in recognising a respiratory complication	C2
WA92	Delay in recognising a cardiac complication	C2
WA93	Delay in recognising a renal complication	C2
WA94	Delay in recognising a bleeding complication	C2
WA95	Delay in recognising unspecified complication	C2
WA96	Delay recognising pulmonary embolus	C2
WA97	Delay in recognising post-operative duodenal ulcer perforation	C2
WAA	Earlier operation on list in diabetic	C1
WAB	Operation would have been better deferred or delayed	C1
WAC	Delay in investigating the patient	
WAC1	Delay in xray department	O
WAC2	Delay in obtaining CT scan	O

WAD	Delay in transferring patient to ITU	C2
WAD1	Delay in transfer to ITU pre-operatively	C2
WAD2	Delay in transfer to ITU post-operatively	C2
WAE	Delay to re-operation	C2
WAF	Delay to diagnosis	
WAF1	Delay in diagnosing perforated DU	C2
WAF2	Delay in diagnosing site of GI haemorrhage	C2
WAG	Delay starting medical treatment	C
WAG0	Delay starting antibiotics	C2
WAG1	Delay starting resuscitation	C2
WAG2	Delay in initiating ventilation after referral	C2
WAG3	Delay in using CVP monitoring	C2
WAG4	Delay in inserting arterial line	C2
WAG5	Delay in inserting PAFC	C2
WAG6	Delay in inserting ICP monitor	C2
WAG7	Delay in carrying out cerebral angiography	C2
WAG8	Delay in instituting treatment for cerebral aneurysm	C2
WAG9	Delay in giving steroids	C2
WAH	Delay in withdrawing treatment	
WAH1	Delay in weaning from ventilator	C2
WAJ	Delay in transfer to HDU	
WAJ1	Delay in transfer to HDU pre-operatively	C2
WAJ2	Delay in transfer to HDU post-operatively	C2
WAK	Delay starting DVT prophylaxis	C2
WAL	Delay in referring from ICU to other staff	
WAL1	Delay in referring to surgeons	O
WAL2	Delay in referring to cardiologists	C2
WAL3	Delay in referring to neurosurgeons	C2
WAL4	Delay in referring to tertiary centre	C2
WAM	Delay to starting ventilation	C2
WAN	Delay in referral to ICU	C2
WAP	Delay in admission to ICU after referral	
WAP1	Delay in admission to ICU because of shortage of beds	R
WAQ	Delay in re-admission to ICU	C2
WAR	Delay in starting chemotherapy	C2
WAR1	Delay in starting chemotherapy due to lack of resources	R

WB	PROBLEMS WITH APPROPRIATE STAFFING	
WB0	Failure of junior surgeon to seek advice	C2
WB1	Failure of junior anaesthetist to seek advice	C2
WB2	Surgeon too junior	C2
WB21	Consultant surgeon should have been present in theatre	C1
WB3	Anaesthetist too junior	C2
WB31	Consultant anaesthetist refused to attend	C1
WB4	Inadequate anaesthetic assistance	C2
WB5	Inadequate surgical assistance	C2
WB6	Surgeon operating outwith specialty	C1
WB7	Anaesthetist should have been involved in preparation/resuscitation	C2
WB8	No interventional radiologist	R
WB9	Lack of nursing supervision	R
WBA	Case unsuitable for a locum consultant	C1
WBB	Shortage of emergency theatre staff	R

WC	COMMUNICATION FAILURES	
WC0	Failure of communication - unspecified	C2
WC1	Poor communication between anaesthetist and surgeon	C2
WC2	Poor communication with GP	O
WC3	Post-operative instructions unclear	C1
WC4	Post-operative instructions ignored	C2
WC5	Poor documentation	C2
WC51	Failure of communication due to poor case notes	C2
WC52	SASM form incomplete	C1
WC521	Events/procedures missing from SASM forms	C1
WC53	No anaesthetist named on SASM form	C3
WC54	Hospital notes missing or unavailable	C3
WC541	Anaesthetic chart missing	C3
WC55	Inconsistencies/discrepancies on SASM forms	C1
WC6	Failure to communicate with senior staff	C2
WC7	Failure of communication at anaesthetic handover	C2
WC8	Failure in communication between xray department and clinicians	C2
WC9	Failed surgical communication through rotation of staff	C2
WCA	Poor communication between physician and surgeon	C2
WCB	Poor communication from transferring to receiving hospital	O
WCC	Pre-operative investigations either not seen or confused	C2
WCD	No protocol for DVT prophylaxis	R
WCE	Wrong results used for decision making	C2
WCF	Poor communication between surgical teams	C2
WCG	Failure to report death to Procurator Fiscal	C2

WD	PROBLEMS DUE TO FAILURE TO USE FACILITIES	
WD0	Failure to use ITU	
WD00	Failure to use ITU, pre-operatively	C2
WD000	Failure to use ITU pre-operatively, ITU full	R
WD001	Failure to use ITU pre-operatively, no ITU in hospital	R
WD002	ITU not used pre-operatively, incorrect decision	C2
WD003	ITU not used pre-operatively, admission refused	O
WD01	Failure to use ITU post-operatively	C2
WD010	Failure to use ITU post-operatively, ITU full	R
WD011	Failure to use ITU post-operatively, no ITU in hospital	R
WD012	ITU not used post-operatively, incorrect decision	C2
WD013	ITU not used post-operatively, admission refused	O
WD02	Premature discharge from ITU	C2
WD021	Premature discharge from ICU because of shortage of beds	R
WD03	Failure to use ITU, reason not specified	C3
WD030	Failure to use ITU, ITU full	R
WD031	Failure to use ITU, no ITU in hospital	R
WD1	Failure to use HDU	
WD10	Failure to use HDU pre-operatively	C2
WD100	HDU not used pre-operatively, HDU full	R
WD101	HDU not used pre-operatively, no HDU in hospital	R
WD102	HDU not used pre-operatively, error in management	C2
WD103	HDU not used pre-operatively, admission refused	O
WD11	Failure to use HDU post-operatively	C2
WD110	HDU not used post-operatively, HDU full	R
WD111	HDU not used post-operatively, no HDU in hospital	R
WD112	HDU not used post-operatively, error in management	C2
WD113	HDU not used post-operatively, admission refused	O
WD12	Premature discharge from HDU	C2
WD2	Failure to use endoscopic surgery	
WD20	ERCP not used or not available	R
WD3	Failure to use laparoscopic surgery	C2
WD4	Failure to use DVT prophylaxis	C1
WD5	Failure to use antibiotic prophylaxis	C1

WD6	Failure to use a specialist centre	C2
WD61	Failure to use specialised burns unit	C2
WD610	Failure to use specialised burns unit – unit full	R
WD62	Failure to refer to a tertiary centre	C2
WD63	Failure to use Spinal Injuries unit	C2
WD630	Failure to use Spinal Injuries unit – unit full	R
WD64	Failure to use NSU	C2
WD640	Failure to use NSU – unit full	R
WD7	Failure to obtain a post mortem	C2
WD8	Failure to insert a drain	C2
WD9	Radiotherapy not used before surgery	C2
WDA	Failure to treat malnutrition	C2
WDB	Failure to use CCU	
WDB1	Failure to use CCU pre-op	C2
WDB11	Failure to use CCU pre-op, no bed available	R
WDB2	Failure to use CCU post-op	C2
WDB21	Failure to use CCU post-op, no bed available	R
WDB3	Failure to use CCU, no op performed	C2
WDB31	Failure to use CCU, no op performed, no bed available	R
WDC	ITU should not have been used	C1
WDD	Recovery room not used	C1
WDD0	Recovery room not used because not available	R
WDE	Oxygen therapy withdrawn prematurely	C2
WDF	Wrong choice of suture material	C1
WDG	Management error led to pressure ulcer	C2
WDH	Failure to transfuse patient	C2
WDJ	Hospice not used	C2
WDJ0	Hospice not used – not available	R
WDK	Premature discharge from hospital	C2
WDL	Over packing of post nasal space	C1
WDM	Failure to obtain a chest xray pre-operatively	C2
WDN	Failure to use body warming measures	C2
WDP	Failure to use NHS facilities	C2

WE	INCORRECT/INAPPROPRIATE THERAPY	
WE0	Wrong operation performed	C1
WE00	Better to have been treated endoscopically	C1
WE01	Better to have been treated by ERCP	C1
WE02	Better to have been treated laparoscopically	C1
WE03	Better not to have been treated endoscopically	C1
WE04	Better not to have been treated laparoscopically	C1
WE05	Wrong surgical approach used	C1
WE06	Better to have performed more limited surgery	C1
WE07	Better to have had more extensive surgery	C1
WE08	Defunctioning stoma advised	C1
WE09	Inadequate drainage of peritoneal abscess/sepsis	C1
WE0A	Better treated radiologically	C1
WE1	Operation should have been done	C1
WE10	Operation should have been done after initial resuscitation	C1
WE2	Operation should not have been done or was unnecessary	C1
WE21	Operation would have been better delayed	C1
WE3	Wrong anaesthetic technique	C1

WE4	Unsatisfactory medical management	C3
WE40	Care unsatisfactory (not otherwise specified)	C2
WE400	Post-operative care unsatisfactory	C2
WE41	Analgesia unsatisfactory	C2
WE410	Post-operative analgesia unsatisfactory	C2
WE42	Over-sedation	C2
WE420	Post-operative over sedation	C2
WE43	Physiotherapy unsatisfactory	C2
WE430	Post-operative physiotherapy unsatisfactory	C2
WE431	Physiotherapy unsatisfactory due to lack of resources	R
WE44	Nutritional care unsatisfactory	C2
WE440	Post-operative nutritional care unsatisfactory	C2
WE45	Oxygen therapy unsatisfactory	C2
WE450	Post-operative oxygen therapy unsatisfactory	C2
WE46	Fluid balance unsatisfactory	C2
WE460	Post-operative fluid balance unsatisfactory	C2
WE47	Fluid overload	C2
WE470	Pre-operative fluid overload	C2
WE471	Peri-operative fluid overload	C2
WE472	Post-operative fluid overload	C2
WE48	Inappropriate use of haemofiltration	C2
WE49	Poor terminal care management	C2
WE490	Lack of hospice beds	R
WE4A	Unsatisfactory management of coagulopathy	C2
WE4B	Inappropriate treatment prior to surgical referral	O
WE4C	More aggressive treatment of infection needed	C2
WE4D	Unsatisfactory management of hypotension	C2
WE4E	Oral fluids commenced too soon	C2
WE4F	Over transfusion of blood	C2
WE4G	Complications of dressings	C2
WE4G0	Pressure dressing leading to bowel ischaemia	C2
WE4H	Nursing care unsatisfactory	C2
WE4H1	Nursing care unsatisfactory post-operatively	C2
WE5	Hospital admission to wrong ward or specialty	O
WE50	Inappropriate surgical admission	O
WE51	Inappropriate medical admission	O
WE52	Inappropriate management of geriatric patient in acute ward	
WE6	Operation better deferred to daytime	C1
WE7	Premature discontinuation of treatment	
WE70	Too early removal of naso gastric tube	C2
WE700	Too early removal of naso gastric tube, by patient	O
WE71	Ventilation discontinued too early post-operatively	C2

WE8	Incorrect use of drains or catheters	
WE80	Suprapubic catheter removed too early	C2
WE81	Inadequate percutaneous drainage of abscess	C1
WE82	T-tube removed in error	C2
WE83	Failure to catheterise pre-operatively	C2
WE84	Nasogastric tube not used	C2
WE841	Nasogastric tube not used pre-operatively	C2
WE842	Nasogastric tube not used peri-operatively	C2
WE843	Nasogastric tube not used post-operatively	C2
WE844	Nasogastric tube not used – no operation	C2
WE85	Bowel perforated by paracentesis catheter	C1
WE9	Re-operation should have been done	C1
WEA	Duration of anaesthetic too long	C2
WEB	Duration of operation too long	C1
WEC	Patient lost to follow up from previous episode	O
WED	Tracheostomy problems	
WED1	Tracheostomy tube too short	C1
WED2	Displacement of tracheostomy tube	O
WED3	Delay in re-inserting a tracheostomy tube	C2
WEE	Operation late due to list overrun	R
WEF	Premature withdrawal of treatment	
WEF1	Premature withdrawal of inotropes	C2
WEF2	Premature withdrawal of ventilation	C2
WEF3	Premature withdrawal of CPAP	C2
WEF4	Premature removal of tracheal tube	C2

WF	TRANSFER PROBLEMS	
WF0	Problems during transfer	O
WF01	Deterioration during transfer	O
WF1	Transfer should not have occurred	O
WF10	Discharged to convalescence too early	C2
WF2	Transfer should have occurred	O
WF20	Better transferred between hospitals pre-operatively for ITU support	O
WF3	Transfer necessary to obtain ITU bed	
WF30	Transfer necessary to obtain ITU bed, ITU full	R
WF31	Transfer necessary to obtain ITU bed, no ITU in hospital	R
WF32	Transfer necessary to obtain haemodialysis	R
WF4	Delay in transferring patient	O
WF5	Problems before transfer	
WF51	Failure to give mannitol before a transfer	O
WF52	Failure to resuscitate adequately before transfer	O
WF53	Failure to intubate before transfer	O
WF54	Failure to assess before transfer	C3

WG	MONITORING PROBLEMS	C
WG0	Inadequate monitoring	C
WG00	Cardiac monitoring inadequate	C2
WG000	Pre-operative cardiac monitoring inadequate	C2
WG001	Post-operative cardiac monitoring inadequate	C2
WG002	CVP not used	C2
WG003	Pulmonary artery catheter not used	C1
WG004	CVP insertion failed	C1
WG005	Failure to do echo-cardiogram	C2
WG01	Inadequate respiratory monitoring	C2
WG010	Pre-operative inadequate respiratory monitoring	C2
WG011	Post-operative inadequate respiratory monitoring	C2
WG012	Failure to use CPAP	C1
WG02	Inadequate renal monitoring	C2
WG03	Inadequate hepatic monitoring	C2
WG04	Inadequate metabolic monitoring	C2
WG05	Inadequate laboratory monitoring	C2
WG06	Failure to use ICP monitoring	C2
WG1	Problems with CVP monitoring	
WG11	Deterioration while CVP being inserted	C3
WG12	Arterial puncture during CVP insertion	C1
WG2	Problems with PAFC	
WG21	Complete heart block after PAFC in LBBB	C3
WG22	VF associated with use of PAFC	C3

WH	ASSESSMENT PROBLEMS	C
WH0	Pre-operative assessment inadequate	C2
WH00	Cardiac pre-operative assessment inadequate	C2
WH000	Failure to control arrhythmia pre-operatively	C2
WH01	Pre-operative respiratory assessment inadequate	C2
WH010	Pre-operatively should have been referred to chest physician	C2
WH02	Laboratory pre-operative assessment inadequate	C2
WH03	Metabolic pre-operative assessment inadequate	C2
WH04	Inadequate pre-operative assessment of cancer staging	C2
WH05	Inadequate pre operative vascular assessment	C2
WH050	Vascular opinion not sought preoperatively	C2
WH06	CT scan should have been done pre-operatively	C2
WH1	Inadequate post-operative assessment	C2
WH10	Inadequate post-operative cardiac assessment	C2
WH11	Inadequate post-operative respiratory assessment	C2
WH110	Post-operatively should have been referred to chest physician	C2
WH12	Inadequate post-operative laboratory assessment	C2
WH13	Inadequate post-operative metabolic assessment	C2
WH15	Inadequate post operative vascular assessment	C2
WH150	Vascular opinion not sought post operatively	C2
WH16	Inadequate post-op renal assessment	C2
WH2	Failure to investigate or assess patient fully	C2
WH20	Inadequate cardiac assessment - no operation performed	C2
WH21	Inadequate respiratory assessment - no operation performed	C2
WH22	Inadequate laboratory assessment - no operation performed	C2
WH23	Inadequate metabolic assessment - no operation performed	C2
WH25	Inadequate vascular assessment - no operation performed	C2
WH250	Vascular opinion not sought - no operation	C2
WH26	CT scan should have been done - no operation performed	C2
WH3	Pre-optimisation should have been used	C2
WH4	Failure to recognise severity of illness	C2

WJ	RESUSCITATION PROBLEMS	C
WJ0	Resuscitation inadequate	C2
WJ00	Fluid and electrolyte resuscitation inadequate	C2
WJ000	Pre-operative re-hydration inadequate	C2
WJ1	Tracheostomy tube dislodged during resuscitation	C2

WK	PATIENT FACTORS	0
WK0	Patient refused treatment	0
WK1	Relatives refused Post Mortem	0
WK2	Patient unfit for surgery and anaesthesia	C3
WK3	Pre-operative nutrition poor	C3
WK4	Patient refused to allow transfer	0
WK5	Injury caused by fall in hospital	0
WK6	Patient fell out of bed	0
WK7	Patient handling	0