ICD9 codes for secondary outcomes

1. <u>Aortic valve replacement</u>

35.21 Replacement of aortic valve with tissue graft 35.22 Other replacement of aortic valve

2. Mitral valve replacement

35.23 Replacement of mitral valve with tissue graft 35.24 Other replacement of mitral valve

3. Vascular Complications

868.04 Retroperitoneal hematoma

997.2 Peripheral vascular complications, NOS

997.7 Vascular complications of other vessels

999.2 Vascular complications, NEC

447.0 Arteriovenous fistula, acquired

901.0 Injury to thoracic aorta

902.0 Injury to abdominal aorta

904.0 Injury to common femoral artery

998.11 Hemorrhage complicating a procedure

998.12 Hematoma complicating a procedure

998.2 Accidental laceration during a procedure

7. Vascular Complications Requiring Surgery

39.31 Suture of artery

39.41 Control of hemorrhage

39.49 Other revision of vascular procedure

39.52 Repair of aneurysm

39.53 Repair of arteriovenous fistula

39.56 Repair of vessel with tissue patch

39.57 Repair of vessel with synthetic patch

39.58 Repair of vessel with unspecified patch

39.59 Repair of vessel, unspecified

8. Cardiogenic shock

785.51

9. Cardiac arrest

427.5

10. Stroke

434.91 Cerebral artery occlusion, unspecified with cerebral infarction

- 430 Subarachnoid hemorrhage
- 431 Intracerebral hemorrhage
- 432.0 Nontraumatic extradural hemorrhage
- 432.1 Subdural hemorrhage
- 432.9 Unspecified intracranial hemorrhage
- 433.01 Cerebral thrombus with infarction
- 433.11 Occlusion of carotid artery, with cerebral infarction
- 433.21 Occlusion of vertebral artery with cerebral infarction
- 433.31 Occlusion of bilateral precerebral arteries with infarction
- 433.81 Occlusion of other precerebral arteries with cerebral infarction
- 433.91 Occlusion of unspecified precerebral arteries with infarction
- 434.00 Cerebral infarction without mention of cerebral infarction
- 434.01 Cerebral infarction with cerebral infarction
- 434.10 Cerebral embolism without mention of cerebral infarction
- 434.11 Cerebral embolism with cerebral infarction
- 436 Acute cerebral vascular disease, ill-defined
- 997.02 Iatrogenic cerebral infarction

11. Acute Kidney Injury

- 584.5 Acute Kidney Injury with tubular necrosis
- 584.6 Acute Kidney Injury with lesion of renal cortical necrosis
- 584.6 Acute Kidney Injury with lesion of renal cortical necrosis
- 584.8 Acute Kidney Injury, other specified pathological lesion in kidney
- 584.9 Acute Kidney Injury, unspecified

12. Acute Kidney Injury Requiring Dialysis

39.95 Hemodialysis (in addition to acute kidney injury) 585.6 End stage renal disease – excluded

13. Pacemaker Implantation

- 00.50 Implantation of CRT-P, total system
- 00.51 Implantation of CRT-D, total system
- 00.52 Implantation of coronary sinus lead
- 00.53 Implantation of CRT-P generator only
- 00.54 Implantation of CRT-D generator only
- 37.70 Initial insertion of lead, NOS

- 37.71 Initial insertion of lead, ventricle
- 37.72 Initial insertion of lead, ventricle and atrium
- 37.73 Initial insertion of lead, atrium
- 37.80 Initial insertion of permanent pacemaker, NOS
- 37.81 Initial insertion of single-chamber pacemaker
- 37.82 Initial insertion of single-chamber pacemaker, rate responsive
- 37.83 Initial insertion of dual-chamber pacemaker
- 37.94 Implantation of ICD, total system
- 37.96 Implantation of ICD, generator only

14. Blood Transfusion CCS diagnosis

222 Blood transfusion

15. Cardiac Tamponade

423.3 Cardiac tamponade

16. Acquired Pneumonia

486 Pneumonia, organism unspecified

- 481 Pneumococcal pneumonia
- 482.8 Pneumonia due to other specified bacteria
- 482.3 Pneumonia due to streptococcus

17. Urinary Tract Infection

599.0 Urinary tract infection, site not specified 590.9 Infection of kidney, unspecified

18. Sepsis

995.91 Sepsis
038 Septicemia.
995.92 Severe sepsis
996.64 Infection and inflammatory reaction due to indwelling urinary catheter
999.31 Other and unspecified infection due to central venous catheter
999.32 Bloodstream infection due to central venous catheter

19. Mechanical Ventilation

96.72 Invasive mechanical ventilation

20. Tracheostomy

- 311 Temporary tracheostomy
- 31.21 Mediastinal tracheostomy
- 31.29 Other permanent tracheostomy

21. Gastrostomy

43.11 Percutaneous [endoscopic] Gastrostomy [PEG]

43.19 Other gastrostomy

22. Hepatic

- 570 hepatic necrosis
- 572.2 Hepatic encephalopathy
- 573.3 unspecified hepatitis

23. Hematologic

287.3, 287.4, 287.5	Thrombocytopenia
286.9	Coagulopathy

24. Metabolic/lactic acidosis

276.2