

**TABLE E-1 ICD-9-CM Codes Defined as Minor In-Hospital Complications**

ICD-9-CM Minor	International Statistical Classification of Diseases and Related Health Problems (ICD-9-CM)	
	Description Minor	
4536	Venous embolism and thrombosis of superficial vessels of lower extremity	
4539	Embolism and thrombosis of unspecified site	
5185	Pulmonary insufficiency following trauma and surgery	
9971	Cardiac complications	
9972	Peripheral vascular complications	
9974	Digestive system complications	
9975	Urinary complications	
9982	Accidental puncture and laceration during a procedure	
9989	Unspecified complication of procedure	
9992	Other vascular complications of medical care	
9995	Other serum reaction	
9996	ABO incompatibility reaction	
9997	Rh incompatibility reaction	
9999	Other and unspecified complications of medical care	
45111	Phlebitis and thrombophlebitis of femoral vein (deep, superficial)	
45119	Phlebitis and thrombophlebitis of other	
45181	Phlebitis and thrombophlebitis of iliac vein	
45189	Phlebitis and thrombophlebitis of other sites	
45340	Venous embolism and thrombosis of unspecified deep vessels of lower extremity	
45341	Venous embolism and thrombosis of unspecified deep vessels of proximal lower extremity	
45342	Venous embolism and thrombosis of unspecified deep vessels of distal lower extremity	
45350	Chronic venous embolism and thrombosis of unspecified deep vessels of lower extremity	
45351	Chronic venous embolism and thrombosis of unspecified deep vessels of proximal lower extremity	
45352	Chronic venous embolism and thrombosis of unspecified deep vessels of distal lower extremity	
99739	Other respiratory complications	
99791	Complications affecting other specified body systems, not hypertension	
99799	Complications affecting other specified body systems	
99811	Hemorrhage complicating a wound	
99812	Hematoma complicating a procedure	
99813	Seroma complicating a procedure	
99859	Other postoperative infection	
99881	Emphysema (subcutaneous, surgical) resulting from procedure	
99883	Nonhealing surgical wound	
99889	Other specified complications of procedures	
99939	Infection following other infusion, injection, transfusion, or vaccination	
99988	Other infusion reaction	
99989	Other transfusion reaction	

**TABLE E-2 ICD-9-CM Codes Defined as Major In-Hospital Complications**

International Statistical Classification of Diseases and Related Health Problems (ICD-9-CM)	
ICD-9-CM Major	Description Major
4275	Cardiac arrest
9980	Postoperative shock
9984	Foreign body left during procedure
9987	Acute reaction to foreign substance left during procedure
9994	Anaphylactic shock due to serum
41511	Iatrogenic pulmonary embolism and infarction
41512	Septic pulmonary embolism
41519	Other pulmonary embolism and infarction
99640	Unspecified mechanical complication of internal orthopaedic device, implant, and graft
99641	Mechanical loosening of prosthetic joint
99642	Dislocation of prosthetic joint
99643	Prosthetic joint implant failure
99644	Periprosthetic fracture around prosthetic joint
99645	Periprosthetic osteolysis
99646	Articular bearing surface wear of prosthetic joint
99647	Other mechanical complication of prosthetic joint implant
99649	Other mechanical complication of internal orthopaedic device, implant, and graft
99666	Infection and inflammatory reaction due to internal joint prosthesis
99667	Infection and inflammatory reaction due to other internal orthopaedic device implant and graft
99677	Other complications due to internal joint prosthesis
99678	Other complications due to other internal orthopaedic device implant and graft
99679	Other complications due to other internal orthopaedic device implant and graft; not elsewhere classified
99700	Nervous system complications
99701	Central nervous system complication
99702	Iatrogenic cerebrovascular infarction or hemorrhage
99709	Other nervous system complications
99731	Respiratory complications
99779	Vascular complications of other vessels
99830	Disruption of operation wound
99832	Disruption of external operation wound
99851	Infected postoperative seroma