Postoperative	ICD-9 Code	Tiddonar Oldooni	cation of Diseases Codes Used to Define Post-Operative Complications
Complication	Type		Description
Pulmonary Failure	Diagnostic		Acute respiratory failure Other pulmonary insufficiency, NOS
		518.84	Acute on chronic respiratory failure
	Procedure		Nonoperative insertion of endotracheal tube Nonoperative other intubation of respiratory tract
		96.7	Continuous invasive mechanical ventilation of unspecified duration
		96.71	Continuous invasive mechanical ventilation for less than 96 consecutive hours Continuous invasive mechanical ventilation for 96 consecutive hours or more
Danimonia	Disensatio		Pulmonary insufficiency following trauma and surgery
Pneumonia	Diagnostic		Pneumococcal pneumonia (s. pneumoniae) Pneumonia (Klebsiella pneumoniae)
		482.1	Pneumonia (Pseudomonas)
			Pneumonia (H. influenzae) Pneumonia Streptococcus (orther than s. pneumoniae)
		482.4	Pneumonia due to Staphylococcus
			Pneumonia due to other specified bacteria Bacterial pneumonia, NOS
		483	Mycoplasma pneumoniae Chlamydia
			Pneumonia, other specified organism
		494.1	Proumonia in outomogalia inclusion discosso
			Pneumonia in cytomegalic inclusion disease Pneumonia in whooping cough
			Pneumonia in anthrax Pneumonia in aspergillosis
			Pneumonia in aspergiliosis Pneumonia in other systemic mycoses
			Pneumonia in other infectious diseases classified elsewhere Bronchopneumonia, organism unspecified
			Due to inhalation of food or vomitus (aspiration pneumonia)
			Due to inhalation of oils and essences Due to other solids and liquids
Myocardial Infarction	Diagnostic	410	AMI, anteriolateral wall
			AMI, other anterior wall AMI, inferolateral wall
		410.3	AMI, inferoposterior wall
			AMI, other inferior wall AMI, other lateral wall
		410.6	True posterior wall infarction
			Subendocardial infarction AMI, other specified sites (e.g. atrium, papillary muscle)
			AMI, NOS
Venous Thromboembolism	Diagnostic	415.1	PE and infarction
		415.11	Latrogenic PE and infarction
		415.12 4 415.19	Septic PE Other
			Phlebitis and thrombophlebitis of the femoral vein Other phlebitis and thrombophlebitis of the femoropoliteal, popliteal, or tibial veins
		451.2	Phlebitis and thrombophlebitis of lower extremities, unspecified
			Phlebitis and thrombophlebitis of Iliac Vein Venous embolism and thrombosis of other specified veins
	Procedure	38.7	inturruption of the vena cava (e.g. Insertion of implant or sieve in vena cava)
Acute Renal Failure	Diagnostic		Acute renal failure (Excludes: following labor and delivery [669.3], posttraumatic [958.5], that complicating: abortion [634-638 with .3, 639.3], ectopic or molar pregnancy [639.3])
		584.5	ARF with lesion of tubular necrosis
			ARF with lesion of renal cortical necrosis ARF with lesion of renal medullary [papillary] necrosis
		584.8	ARF with other specified pathological lesion in kidney
	Procedure		ARF, NOS Hemodialysis
Post-operative Hemorrhage	Diagnostic	000 1	Hemorrhage or hematoma or seroma complicating a procedure
nemorrnage	Diagnosiic		Hemorrhage complicating a procedure
			Hematoma complicating a procedure Seroma complicating a procedure
Surgical Site Infection	n Diagnostic		Posttraumatic wound infection, NOS Disruption of wound, NOS
		1	Disruption of internal operation (surgical) wound (e.g. dehiscence of fascial closure or
			muscle flap) Disruption of external operation (surgical) wound (Disruption or dehiscence of closure of
			skin, subcutaneous tissue)
			Disruption of traumatic injury wound repair
			Postoperative infection Infected postoperative seroma
		998.59	Other postoperative infection (e.g. intra-abdominal abscess, septicemia)
	Procedure		Percutaneous abdominal drainage Esophageal hemorrhage (Excludes:
GI Hemorrhage	Diagnostic	530.82	nemorrhage due to esophageal varices [456.0-456.2])
			Gastric Ulcer, includes 531.x0 (no mention of obstruction) and 531.x1 (with obstruction) Gastric Ulcer, Acute with hemorrhage
		531.1x	Gastric Ulcer, Acute with perforation
			Gastric Ulcer, Acute with hemorrhage and perforation Gastric Ulcer, Chronic or unspecified with hemorrhage
			Gastric Ulcer, Chronic or unspecified with hemorrhage and perforation
			Duodenal Ulcer, includes 532.x0 (no mention of obstruction) and 532.x1 (with obstruction)
			Duodenal Ulcer, Acute with hemorrhage
			Duodenal Ulcer, Acute with perforation Duodenal Ulcer, Acute with hemorrhage and perforation
		532.4x l	Duodenal Ulcer, Chronic or unspecified with hemorrhage
			Duodenal Ulcer, Chronic or unspecified with hemorrhage and perforation Peptic Ulcer, includes 533.x0 (no mention of obstruction) and 533.x1 (with obstruction)
		533.0x l	Peptic Ulcer, Acute with hemorrhage
			Peptic Ulcer, Acute with perforation Peptic Ulcer, Acute with hemorrhage and perforation
		533.4x l	Peptic Ulcer, Chronic or unspecified with hemorrhage
			Peptic Ulcer, Chronic or unspecified with hemorrhage and perforation Gastrogejunal Ulcer, includes 533.x0 (no mention of obstruction) and 533.x1 (with
		534.xx	obstruction)
		534.0x	Gastrogejunal Ulcer, Acute with hemorrhage
			Gastrogejunal Ulcer, Acute with perforation Gastrogejunal Ulcer, Acute with hemorrhage and perforation
		534.4x	Gastrogejunal Ulcer, Chronic or unspecified with hemorrhage
			Gastrogejunal Ulcer, Chronic or unspecified with hemorrhage and perforation Acute gastritis with hemorrhage
		535.11	Atrophic gastritis with hemorrhage
			Gastric mucosal hypertrophy with hemorrhage Alcoholic gastritis with hemorrhage with hemorrhage
		535.41	Other specified gastritis with hemorrhage
			Unspecified gastritis and gastroduodenitis with hemorrhage Duodenitis with hemorrhage
			Hemorrhage of gastrointestinal tract, NOS

Supplemental Digial Content 2. International Classification of Diseases Codes Used to Define Post-Operative Complications