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**Supplement**

**Supplemental Table 1.** Procedure codes - used to identify admissions with revision TKR

<b>Procedure Codes –used to identify revision TKR</b>	
<b>Procedure</b>	<b>ICD-9 code</b>
Revision of knee replacement, total (all components)	00.80
Revision of knee replacement, tibial component Replacement of tibial baseplate and tibial insert (liner)	00.81
Revision of knee replacement, femoral component	00.82
Revision of knee replacement, patellar component	00.83
Revision of total knee replacement, tibial insert	00.84
Revision of knee replacement, not otherwise specified	81.55
Removal of knee prosthesis without replacement	80.06

**Supplemental Table 2.** Indication for revision – ICD-9-CM diagnosis codes

Indication for revision	Diagnosis	ICD-9-CM codes
Septic	Pyogenic arthritis Unspecified infective arthritis Osteomyelitis	711.0X 711.9X 730.0X, 730.1X, 730.2X
Septic	Infection and inflammatory reaction due to internal prosthetic device implant and graft	996.60; 996.66; 996.67; 996.69
Septic	Infected postoperative seroma	998.51
Septic	Other postoperative infection	998.59
Fracture	Pathologic fracture	733.10; 733.14-733.19;
Fracture	Malunion and nonunion of fracture	733.8X;
Fracture	Other and unspecified disorders of bone and cartilage – stress fracture	733.93; 733.96-733.98
Fracture	Fracture of other and unspecified parts of femur	821.X
Fracture	Fracture of patella	822.X
Fracture	Fracture of tibia and fibula	823.X
Fracture	Other multiple and ill-defined fractures of lower limb	827.X
Fracture	Peri-prosthetic fracture around prosthetic joint	996.44
Aseptic	Any diagnosis not included in Septic or Fracture lists above	

ICD-9-CM = International Classification of Diseases, 9<sup>th</sup> Revision, Clinical Modification.

X = Indicates that all codes starting with the numbers preceding the “X” are included.

**Supplemental Table 3.** Venous thromboembolism – ICD-9–CM codes

Diagnosis	ICD-9 codes
Pulmonary embolism:	415.1, 415.11, 415.13, 415.19
Phlebitis and thrombophlebitis	451.1, 451.11, 451.19, 451.2, 451.81, 451.83, 451.84, 451.9
Thrombosis and thromboembolism	453.40, 453.41, 453.42, 453.82, 453.83, 453.84, 453.85, 453.86, 453.87, 453.8, 453.89, 453.9

**Supplement Table 4.** Venous thromboembolism risk factors – ICD-9-CM codes

Risk factor	Diagnosis	ICD-9 codes
Demographics		
	Age	
	Gender	
	Race	
	Smoker (Tobacco use disorder)	305.1
Comorbidities		
	Diabetes	250.X
	Obesity	278.0X
	Renal disease	403.X; 581.X-583.X; 585.X-587.X
	Chronic obstructive pulmonary disease	491.2X, 492.X
	Sleep apnea	780.57; 327.23
	Pulmonary hypertension	416.X
	Cerebrovascular disease	437.0; 437.1; 438.X
	Heart failure	428.X
	Dementia	290.X
	Cancer	140.X-209.X; 235.X-239.X
	Inflammatory bowel disease	556.X; 555.X
	Venous insufficiency, varicose veins	459.1, 459.2; 459.3; 459.8; 459.9; 454.8, 454.9
Rheumatic disease		
	Rheumatoid arthritis	714.0
	Psoriatic arthritis	696.0
	Spondyloarthropathy	720.X; 099.3
	SLE	710.0
Thrombophilia		
	History of venous thromboembolism	V12.51
	Thrombophilia	289.8X