Appendix

Table 1 PSA

	t may include the following procedures (CPT
code)	
	ASSAY OF PROSTATE SPECIFIC ANTIGEN
84152	COMPLEXED
	ASSAY OF PROSTATE SPECIFIC ANTIGEN
84154	FREE
	ASSAY OF PROSTATE SPECIFIC ANTIGEN
84153	TOTAL
	COLLECTION VENOUS BLOOD
36415	VENIPUNCTURE

Table 2 Biopsy

Biopsy costs	may include the following procedures (CPT code)
55700	PROSTATE NEEDLE BIOPSY ANY APPROACH
76942	US GUIDANCE NEEDLE PLACEMENT RS&I
	LEVEL IV SURG PATHOLOGY GROSS&MICROSCOPIC
88305	EXAM
76872	ULTRASOUND TRANSRECTAL

Table 3 Biopsy Complication

Criteria 1:	Biopsy Complication (Diagnosis Code)	Criteria 2:	Hospitalization and ED CPT
599.7	HEMATURIA	99222	INITIAL HOSPITAL CARE/DAY 50 MINUTES
599.71	GROSS HEMATURIA	99223	INITIAL HOSPITAL CARE/DAY 70 MINUTES
599.72	MICROSCOPIC HEMATURIA	99231	SBSQ HOSPITAL CARE/DAY 15 MINUTES
608.82	HEMATOSPERMIA	99233	SBSQ HOSPITAL CARE/DAY 35 MINUTES
	OTHER POSTOPERATIVE INFECTION		OBSERVATION/INPATIENT HOSPITAL CARE 55
998.59	NEC	99236	MINUTES
719.41	JOINT PAIN-SHOULD		HOSPITAL DISCHARGE DAY MANAGEMENT 30
719.44	PAIN IN JOINT, HAND	99238	MIN/<
719.45	PAIN IN JOINT PELVIC REGION&THIGH		HOSPITAL DISCHARGE DAY MANAGEMENT > 30
719.46	JOINT PAIN-LOW LE	99239	MIN
719.47	JOINT PAIN-ANKLE	99281	EMERGENCY DEPARTMENT VISIT
719.49	PAIN IN JOINT, MULTIPLE SITES	99201	LIMITED/MINOR PROB EMERGENCY DEPARTMENT VISIT LOW/MODER
724.1	PAIN IN THORACIC SPINE	99282	•
729.5	PAIN IN LIMB		EMERGENCY DEPARTMENT VISIT MODERATE
786.5	CHEST PAIN NOS	99283	SEVERITY
786.59	OTHER CHEST PAIN		EMERGENCY DEPARTMENT VISIT HIGH/URGENT
789	ABDOMINAL PAIN-SITE NOS	99284	0_1
	ABDOMINAL PAIN RIGHT LOWER		EMERGENCY DEPT VISIT HIGH SEVERITY&THREAT
789.03	QUADRANT	99285	FUNCJ
599	URINARY TRACT INF NOS		

599.6	URINARY OBSTRUCTION NOS		CRITICAL CARE ILL/INJURED PATIENT INIT 30-74
997.5	URINARY COMP NEC	99291	MIN
996.64	INFECT D/T URETHRAL CATH		
606.9	MALE INFERTILITY NOS		

Table 4 Radical Prostatectomy

Patients with the following CPT codes were identified as radical prostatectomy patients (CPT code)				
PROSTATECTOMY PERINEAL RADICAL	55810			
PROSTATECTOMY PERINEAL RADICAL W/LYMPH NODE BX	55812			
PROSTATECTOMY PERINEAL RAD W/BI PELVIC LYMPH EXC	55815			
PROSTATECTOMY SUPRAPUBIC SUBTOTAL 1/2 STAGES	55821			
PROSTATECTOMY RETROPUBIC SUBTOTAL	55831			
PROSTATECTOMY RETROPUBIC W/WO NERVE SPARING	55840			
PROSTECT RETROPUBIC RAD W/WO NRV SPAR W/LYMPH				
BX	55842			
PROSTECT RETROPUB RAD W/WO NRV SPAR & BI PLV				
LYM	55845			
LAPS PROSTECT RETROPUBIC RAD W/NRV SPARING				
ROBOT	55866			

Table 5 Radical Prostatectomy Complication

Criteria 1: Post	Surgery C	omplication ICD9 Diagnosis	
Other			
Medical	3530	Brachial plexus lesions	353
Other			
Medical	3542	Lesion of ulnar nerve	354.2
Cardiac	40201	Malignant hypertensive heart disease with heart failure	402.01
Cardiac	40211	Benign hypertensive heart disease with heart failure	402.11
Cardiac	40291	Unspecified hypertensive heart disease with heart failure	402.91
Cardiac	410	Acute myocardial infarction	410
Cardiac	4100	Acute myocardial infarction of anterolateral wall	410
Cardiac	41000	Acute myocardial infarction of anterolateral wall, episode of care unspecified	410
Cardiac	41001	Acute myocardial infarction of anterolateral wall, initial episode of care	410.01
Cardiac	41002	Acute myocardial infarction of anterolateral wall, subsequent episode of care	410.02
Cardiac	4101	Acute myocardial infarction of other anterior wall	410.1
Cardiac	41010	Acute myocardial infarction of other anterior wall, episode of care unspecified	410.1
Cardiac	41011	Acute myocardial infarction of other anterior wall, initial episode of care	410.11
Cardiac	41012	Acute myocardial infarction of other anterior wall, subsequent episode of care	410.12
Cardiac	4102	Acute myocardial infarction of inferolateral wall	410.2
Cardiac	41020	Acute myocardial infarction of inferolateral wall, episode of care unspecified	410.2
Cardiac	41021	Acute myocardial infarction of inferolateral wall, initial episode of care	410.21
Cardiac	41022	Acute myocardial infarction of inferolateral wall, subsequent episode of care	410.22
Cardiac	4103	Acute myocardial infarction of inferoposterior wall	410.3

		Acute myocardial infarction of inferoposterior wall, episode of care	
Cardiac	41030	unspecified	410.3
Cardiac	41031	Acute myocardial infarction of inferoposterior wall, initial episode of care	410.31
		Acute myocardial infarction of inferoposterior wall, subsequent episode of	
Cardiac	41032	care	410.32
Cardiac	4104	Acute myocardial infarction of other inferior wall	410.4
Cardiac	41040	Acute myocardial infarction of other inferior wall, episode of care unspecified	410.4
Cardiac	41041	Acute myocardial infarction of other inferior wall, initial episode of care	410.41
Cardiac	41042	Acute myocardial infarction of other inferior wall, subsequent episode of care	410.42
Cardiac	4105	Acute myocardial infarction of other lateral wall	410.5
Cardiac	41050	Acute myocardial infarction of other lateral wall, episode of care unspecified	410.5
Cardiac	41051	Acute myocardial infarction of other lateral wall, initial episode of care	410.51
Cardiac	41052	Acute myocardial infarction of other lateral wall, subsequent episode of care	410.52
Cardiac	4106	Acute myocardial infarction, true posterior wall infarction	410.6
Cardiac	41060	True posterior wall infarction, episode of care unspecified	410.6
Cardiac	41061	True posterior wall infarction, initial episode of care	410.61
Cardiac	41062	True posterior wall infarction, subsequent episode of care	410.62
Cardiac	4107	Acute myocardial infarction, subendocardial infarction	410.7
Cardiac	41070	Subendocardial infarction, episode of care unspecified	410.7
Cardiac	41071	Subendocardial infarction, initial episode of care	410.71
Cardiac	41072	Subendocardial infarction, subsequent episode of care	410.72
Cardiac	4108	Acute myocardial infarction of other specified sites	410.8
		Acute myocardial infarction of other specified sites, episode of care	
Cardiac	41080	unspecified	410.8
Cardiac	41081	Acute myocardial infarction of other specified sites, initial episode of care	410.81
Cardias	41002	Acute myocardial infarction of other specified sites, subsequent episode of	410.82
Cardiac Cardiac	41082	Care	
Cardiac	4109	Acute myocardial infarction, unspecified site Acute myocardial infarction of unspecified site, episode of care unspecified	410.9 410.9
Cardiac	41090 41091	Acute myocardial infarction of unspecified site, episode of care dispectified Acute myocardial infarction of unspecified site, initial episode of care	410.9
Cardiac	41091	Acute myocardial infarction of unspecified site, subsequent episode of care	410.91
Cardiac	41092	Cardiac arrest	410.92
Cardiac	4273	Heart failure	427.3
Cardiac	4280	Congestive heart failure, unspecified	428 428
Cardiac	4280	Left heart failure	428.1
Cardiac	42820	Systolic heart failure, unspecified	428.1
Cardiac	42820	Acute systolic heart failure	428.21
Cardiac	42821	Chronic systolic heart failure	428.21
Cardiac	42823	Acute on chronic systolic heart failure	428.23
Cardiac	42823	Diastolic heart failure, unspecified	428.3
Cardiac	42831	Acute diastolic heart failure	428.31
Cardiac	42832	Chronic diastolic heart failure	428.32
Cardiac	42833	Acute on chronic diastolic heart failure	428.33
Cardiac	42833	Combined systolic and diastolic heart failure, unspecified	428.33
Cardiac	42840	Acute combined systolic and diastolic heart failure	428.41
Cardiac		·	428.41
	42842 42843	Chronic combined systolic and diastolic heart failure	
Cardiac		Acute on chronic combined systolic and diastolic heart failure	428.43
Cardiac	4289	Heart failure, unspecified	428.9

Vascular	433	Occlusion and stenosis of precerebral arteries	433
Vascular	4330	Occlusion and stenosis of basilar artery	433
Vascular	43300	Occlusion and stenosis of basilar artery without mention of cerebral infarction	433
Vascular	43301	Occlusion and stenosis of basilar artery with cerebral infarction	433.01
Vascular	4331	Occlusion and stenosis of carotid artery	433.1
		Occlusion and stenosis of carotid artery without mention of cerebral	
Vascular	43310	infarction	433.1
Vascular	43311	Occlusion and stenosis of carotid artery with cerebral infarction	433.11
Vascular	4332	Occlusion and stenosis of vertebral artery	433.2
Vascular	43320	Occlusion and stenosis of vertebral artery without mention of cerebral infarction	433.2
Vascular	43321		433.21
Vascular	4333	Occlusion and stenosis of vertebral artery with cerebral infarction	433.3
Vasculai	4333	Occlusion and stenosis of multiple and bilateral precerebral arteries Occlusion and stenosis of multiple and bilateral precerebral arteries without	433.3
Vascular	43330	mention of cerebral infarction	433.3
		Occlusion and stenosis of multiple and bilateral precerebral arteries with	
Vascular	43331	cerebral infarction	433.31
Vascular	4338	Occlusion and stenosis of other specified precerebral artery	433.8
		Occlusion and stenosis of other specified precerebral artery without mention	
Vascular	43380	of cerebral infarction	433.8
		Occlusion and stenosis of other specified precerebral artery with cerebral	
Vascular	43381	infarction	433.81
Vascular	4339	Occlusion and stenosis of unspecified precerebral artery	433.9
Vascular	43390	Occlusion and stenosis of unspecified precerebral artery without mention of cerebral infarction	433.9
Vasculai	43330	Occlusion and stenosis of unspecified precerebral artery with cerebral	433.3
Vascular	43391	infarction	433.91
Vascular	434	Occlusion of cerebral arteries	434
Vascular	4340	Cerebral thrombosis	434
Vascular	43400	Cerebral thrombosis without mention of cerebral infarction	434
Vascular	43401	Cerebral thrombosis with cerebral infarction	434.01
Vascular	4341	Cerebral embolism	434.1
Vascular	43410	Cerebral embolism without mention of cerebral infarction	434.1
Vascular	43411	Cerebral embolism with cerebral infarction	434.11
Vascular	4349	Unspecified cerebral artery occlusion	434.9
Vascular	43490	Cerebral artery occlusion, unspecified without mention of cerebral infarction	434.9
Vascular	43491	Cerebral artery occlusion, unspecified with cerebral infarction	434.91
Vascular	436	Acute, but ill-defined, cerebrovascular disease	436
Vascular	437	Other and ill-defined cerebrovascular disease	437
Vascular	4370	Cerebral atherosclerosis	437
Vascular	4371	Other generalized ischemic cerebrovascular disease	437.1
Vascular	4372	Hypertensive encephalopathy	437.2
Vascular	4373	Cerebral aneurysm, nonruptured	437.3
Vascular	4374	Cerebral arteritis	437.4
Vascular	4375	Moyamoya disease	437.5
Vascular	4376	Nonpyogenic thrombosis of intracranial venous sinus	437.6
Vascular	4377	Transient global amnesia	437.7
Vascular	4378	Other ill-defined cerebrovascular disease	437.8
Vascular	4379	Unspecified cerebrovascular disease	437.9

Vascular	44422	Arterial embolism and thrombosis of lower extremity	444.22
Vascular	44481	Embolism and thrombosis of iliac artery	444.81
Vascular	4511	Phlebitis and thrombophlebitis of deep veins of lower extremities	451.1
Vascular	45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	451.11
Vascular	45119	Phlebitis and thrombophlebitis of deep veins of lower extremities, other	451.19
Vascular	4512	Phlebitis and thrombophlebitis of lower extremities, unspecified	451.2
Vascular	45181	Phlebitis and thrombophlebitis of iliac vein	451.81
Vascular	4519	Phlebitis and thrombophlebitis of unspecified site	451.9
Vascular	4538	Embolism and thrombosis of other specified veins	453.8
Vascular	4539	Other venous embolism and thrombosis of unspecified site	453.9
Other			
Medical	4578	Other noninfectious disorders of lymphatic channels	457.8
Respiratory	466	Acute bronchitis and bronchiolitis	466
Respiratory	4660	Acute bronchitis	466
Respiratory	4661	Acute bronchiolitis	466.1
Respiratory	46611	Acute bronchiolitis due to respiratory syncytial virus (RSV)	466.11
Respiratory	46619	Acute bronchiolitis due to other infectious organisms	466.19
Respiratory	480	Viral pneumonia	480
Respiratory	4800	Pneumonia due to adenovirus	480
Respiratory	4801	Pneumonia due to respiratory syncytial virus	480.1
Respiratory	4802	Pneumonia due to parainfluenza virus	480.2
Respiratory	4803	Pneumonia due to SARS-associated coronavirus	480.3
Respiratory	4808	Pneumonia due to other virus not elsewhere classified	480.8
Respiratory	4809	Viral pneumonia, unspecified	480.9
Respiratory	481	Pneumococcal pneumonia [Streptococcus pneumoniae pneumonia]	481
Respiratory	482	Other bacterial pneumonia	482
Respiratory	4820	Pneumonia due to Klebsiella pneumoniae	482
Respiratory	4821	Pneumonia due to Pseudomonas	482.1
Respiratory	4822	Pneumonia due to Hemophilus influenzae [H. influenzae]	482.2
Respiratory	4823	Pneumonia due to Streptococcus	482.3
Respiratory	48230	Pneumonia due to Streptococcus, unspecified	482.3
Respiratory	48231	Pneumonia due to Streptococcus, group A	482.31
Respiratory	48232	Pneumonia due to Streptococcus, group B	482.32
Respiratory	48239	Pneumonia due to other Streptococcus	482.39
Respiratory	4824	Pneumonia due to Staphylococcus	482.4
Respiratory	48240	Pneumonia due to Staphylococcus, unspecified	482.4
Respiratory	48241	Methicillin susceptible pneumonia due to Staphylococcus aureus	482.41
Respiratory	48242	Methicillin resistant pneumonia due to Staphylococcus aureus	482.42
Respiratory	48249	Other Staphylococcus pneumonia	482.49
Respiratory	4828	Pneumonia due to other specified bacteria	482.8
Respiratory	48281	Pneumonia due to anaerobes	482.81
Respiratory	48282	Pneumonia due to escherichia coli [E. coli]	482.82
Respiratory	48283	Pneumonia due to other gram-negative bacteria	482.83
Respiratory	48284	Pneumonia due to Legionnaires' disease	482.84
Respiratory	48289	Pneumonia due to other specified bacteria	482.89
Respiratory	4829	Bacterial pneumonia, unspecified	482.9
Respiratory	483	Pneumonia due to other specified organism	483
Respiratory	4830	Pneumonia due to mycoplasma pneumoniae	483

Despisates	4024	Duante ania dua ta ablamudia	402.1
Respiratory	4831	Pneumonia due to chlamydia	483.1
Respiratory	4838	Pneumonia due to other specified organism	483.8
Respiratory	485	Bronchopneumonia, organism unspecified	485
Respiratory	486	Pneumonia, organism unspecified	486
Respiratory	514	Pulmonary congestion and hypostasis	514
Respiratory	5180	Pulmonary collapse	518
Respiratory	5184	Acute edema of lung, unspecified	518.4
Respiratory	5185	Pulmonary insufficiency following trauma and surgery	518.5
Respiratory	51881	Acute respiratory failure	518.81
Respiratory	51882	Other pulmonary insufficiency, not elsewhere classified	518.82
Other		, , , , , , , , , , , , , , , , , , , ,	
Medical	531	Gastric ulcer	531
Other			
Medical	5310	Acute gastric ulcer with hemorrhage	531
Other			
Medical	53100	Acute gastric ulcer with hemorrhage, without mention of obstruction	531
Other			
Medical	53101	Acute gastric ulcer with hemorrhage, with obstruction	531.01
Other			
Medical	5311	Acute gastric ulcer with perforation	531.1
Other	52440	As the could be been taken to the control of the co	F24.4
Medical	53110	Acute gastric ulcer with perforation, without mention of obstruction	531.1
Other	F2111	Asuto postuis ulson with pour soution with abotus stick	F24 44
Medical Other	53111	Acute gastric ulcer with perforation, with obstruction	531.11
Medical	5312	Acute gastric ulcer with hemorrhage and perforation	531.2
Other	3312	Acute gastric ulcer with hemorrhage and perforation, without mention of	331.2
Medical	53120	obstruction	531.2
Other	00110		001.1
Medical	53121	Acute gastric ulcer with hemorrhage and perforation, with obstruction	531.21
Other			
Medical	5313	Acute gastric ulcer without mention of hemorrhage or perforation	531.3
Other		Acute gastric ulcer without mention of hemorrhage or perforation, without	
Medical	53130	mention of obstruction	531.3
Other		Acute gastric ulcer without mention of hemorrhage or perforation, with	
Medical	53131	obstruction	531.31
Other			
Medical	5314	·	531.4
Other	524.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of	F24.4
Medical	53140	obstruction	531.4
Other Medical	E21/11	Chronic or unchasified gastric ulsor with homographs with obstruction	E21 //1
Other	53141	Chronic or unspecified gastric ulcer with hemorrhage, with obstruction	531.41
Medical	5315	Chronic or unspecified gastric ulcer with perforation	531.5
Other	3313	Chronic or unspecified gastric ulcer with perforation, without mention of	331.3
Medical	53150	obstruction	531.5
Other			222.0
Medical	53151	Chronic or unspecified gastric ulcer with perforation, with obstruction	531.51
Other			
Medical	5316	Chronic or unspecified gastric ulcer with hemorrhage and perforation	531.6
Other		Chronic or unspecified gastric ulcer with hemorrhage and perforation,	
Medical	53160	without mention of obstruction	531.6

=			
Other		Chronic or unspecified gastric ulcer with hemorrhage and perforation, with	
Medical	53161	obstruction	531.61
Other			
Medical	5317		531.7
Other	F2470	Chronic gastric ulcer without mention of hemorrhage or perforation, without	F24 7
Medical	53170	mention of obstruction	531.7
Other		Chronic gastric ulcer without mention of hemorrhage or perforation, with	
Medical	53171	obstruction	531.71
Other		Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage	
Medical	5319	or perforation	531.9
Other		Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage	
Medical	53190	or perforation, without mention of obstruction	531.9
Other		Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage	
Medical	53191	or perforation, with obstruction	531.91
Other			
Medical	532	Duodenal ulcer	532
Other			
Medical	5320	Acute duodenal ulcer with hemorrhage	532
Other			
Medical	53200	Acute duodenal ulcer with hemorrhage, without mention of obstruction	532
Other			
Medical	53201	Acute duodenal ulcer with hemorrhage, with obstruction	532.01
Other			
Medical	5321	Acute duodenal ulcer with perforation	532.1
Other			
Medical	53210	Acute duodenal ulcer with perforation, without mention of obstruction	532.1
Other			
Medical	53211	Acute duodenal ulcer with perforation, with obstruction	532.11
Other			
Medical	5322	Acute duodenal ulcer with hemorrhage and perforation	532.2
Other		Acute duodenal ulcer with hemorrhage and perforation, without mention of	
Medical	53220	obstruction	532.2
Other			
Medical	53221	Acute duodenal ulcer with hemorrhage and perforation, with obstruction	532.21
Other			
Medical	5323	Acute duodenal ulcer without mention of hemorrhage or perforation	532.3
Other		Acute duodenal ulcer without mention of hemorrhage or perforation, without	
Medical	53230	mention of obstruction	532.3
Other		Acute duodenal ulcer without mention of hemorrhage or perforation, with	
Medical	53231	obstruction	532.31
Other			
Medical	5324	Chronic or unspecified duodenal ulcer with hemorrhage	532.4
Other		Chronic or unspecified duodenal ulcer with hemorrhage, without mention of	
Medical	53240	obstruction	532.4
Other			
Medical	53241	Chronic or unspecified duodenal ulcer with hemorrhage, with obstruction	532.41
Other			
Medical	5325	Chronic or unspecified duodenal ulcer with perforation	532.5
Other		Chronic or unspecified duodenal ulcer with perforation, without mention of	
Medical	53250	obstruction	532.5
Other			
Medical	53251	Chronic or unspecified duodenal ulcer with perforation, with obstruction	532.51

Other			
Medical	5326	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	532.6
Other	3320	Chronic or unspecified duodenal ulcer with hemorrhage and perforation,	332.0
Medical	53260	without mention of obstruction	532.6
Other	33200	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, with	332.0
Medical	53261	obstruction	532.61
Other	33201	OBSCI UCCIOII	332.01
	F227	Chronic duadonal ulcar without montion of homographage or norforation	F22 7
Medical	5327	· · · · · · · · · · · · · · · · · · ·	532.7
Other	F2270	Chronic duodenal ulcer without mention of hemorrhage or perforation,	F22.7
Medical	53270	without mention of obstruction	532.7
Other	50074	Chronic duodenal ulcer without mention of hemorrhage or perforation, with	500 74
Medical	53271	obstruction	532.71
Other		Duodenal ulcer, unspecified as acute or chronic, without mention of	
Medical	5329	hemorrhage or perforation	532.9
Other		Duodenal ulcer, unspecified as acute or chronic, without hemorrhage or	
Medical	53290	perforation, without mention of obstruction	532.9
Other		Duodenal ulcer, unspecified as acute or chronic, without mention of	
Medical	53291	hemorrhage or perforation, with obstruction	532.91
Other			
Medical	533	Peptic ulcer, site unspecified	533
Other			
Medical	5330	Acute peptic ulcer, unspecified site, with hemorrhage	533
Other		Acute peptic ulcer of unspecified site with hemorrhage, without mention of	
Medical	53300	obstruction	533
Other			
Medical	53301	Acute peptic ulcer of unspecified site with hemorrhage, with obstruction	533.01
Other			
Medical	5331	Acute peptic ulcer, unspecified site, with perforation	533.1
Other		Acute peptic ulcer of unspecified site with perforation, without mention of	
Medical	53310	obstruction	533.1
Other			
Medical	53311	Acute peptic ulcer of unspecified site with perforation, with obstruction	533.11
Other			
Medical	5332	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	533.2
Other		Acute peptic ulcer of unspecified site with hemorrhage and perforation,	
Medical	53320	without mention of obstruction	533.2
Other		Acute peptic ulcer of unspecified site with hemorrhage and perforation, with	
Medical	53321	obstruction	533.21
Other		Acute peptic ulcer, unspecified site, without mention of hemorrhage and	
Medical	5333	perforation	533.3
Other		Acute peptic ulcer of unspecified site without mention of hemorrhage and	
Medical	53330	perforation, without mention of obstruction	533.3
Other		Acute peptic ulcer of unspecified site without mention of hemorrhage and	
Medical	53331	perforation, with obstruction	533.31
Other			
Medical	5334	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	533.4
Other		Chronic or unspecified peptic ulcer of unspecified site with hemorrhage,	
Medical	53340	without mention of obstruction	533.4
Other		Chronic or unspecified peptic ulcer of unspecified site with hemorrhage, with	
Medical	53341	obstruction	533.41
Other			
Medical	5335	Chronic or unspecified peptic ulcer, unspecified site, with perforation	533.5

Other	52250	Chronic or unspecified peptic ulcer of unspecified site with perforation,	500 5
Medical	53350	without mention of obstruction	533.5
Other	F22F4	Chronic or unspecified peptic ulcer of unspecified site with perforation, with	F22 F4
Medical	53351	obstruction	533.51
Other	F22C	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and	F22.C
Medical	5336	perforation	533.6
Other Medical	53360	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and	F22 6
	53360	perforation, without mention of obstruction	533.6
Other Medical	53361	Chronic or unspecified peptic ulcer of unspecified site with hemorrhage and perforation, with obstruction	533.61
Other	22201	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or	333.01
Medical	5337	perforation	533.7
Other	3337	Chronic peptic ulcer of unspecified site without mention of hemorrhage or	JJJ.7
Medical	53370	perforation, without mention of obstruction	533.7
Other	33370	Chronic peptic ulcer of unspecified site without mention of hemorrhage or	333.7
Medical	53371	perforation, with obstruction	533.71
Other	33371	Peptic ulcer, unspecified site, unspecified as acute or chronic, without	333.71
Medical	5339	mention of hemorrhage or p	533.9
Other	3333	Peptic ulcer of unspecified site, unspecified as acute or chronic, without	333.3
Medical	53390	mention of hemorrhage or perforation, without mention of obstruction	533.9
Other	00000	Peptic ulcer of unspecified site, unspecified as acute or chronic, without	333.3
Medical	53391	mention of hemorrhage or perforation, with obstruction	533.91
Other		υ το	
Medical	5601	Paralytic ileus	560.1
Other			
Medical	5608	Other specified intestinal obstruction	560.8
Other		Intestinal or peritoneal adhesions with obstruction (postoperative)	
Medical	56081	(postinfection)	560.81
Other			
Medical	56089	Other specified intestinal obstruction	560.89
Other			
Medical	5609	Unspecified intestinal obstruction	560.9
Other			
Surgical	5651	Anal fistula	565.1
Wound	567	Peritonitis and retroperitoneal infections	567
Wound	5670	Peritonitis in infectious diseases classified elsewhere	567
Wound	5671	Pneumococcal peritonitis	567.1
Wound	5672	Other suppurative peritonitis	567.2
Wound	56721	Peritonitis (acute) generalized	567.21
Wound	56722	Peritoneal abscess	567.22
Wound	56723	Spontaneous bacterial peritonitis	567.23
Wound	56729	Other suppurative peritonitis	567.29
Wound	56731	Psoas muscle abscess	567.31
Wound	56738	Other retroperitoneal abscess	567.38
Wound	56739	Other retroperitoneal infections	567.39
Wound	5678	Other specified peritonitis	567.8
Wound	56781	Choleperitonitis	567.81
Wound	56782	Sclerosing mesenteritis	567.82
Wound	56789	Other specified peritonitis	567.89
Wound	5679	Unspecified peritonitis	567.9

0.1			
Other	5693	Hemorrhage of rectum and anus	569.3
Surgical Other	3093	nemormage of rectum and ands	509.5
Surgical	5694	Other specified disorders of rectum and anus	569.4
Other	3034	other specified disorders of rectain and ands	309.4
Surgical	56941	Ulcer of anus and rectum	569.41
Other	30341	ofcer of ands and rectum	303.41
Surgical	56942	Anal or rectal pain	569.42
Other	30342	And of rectal pain	303.42
Surgical	56943	Anal sphincter tear (healed) (old)	569.43
Other		, man op milotor (coarsa) (coar	0001.0
Surgical	56944	Dysplasia of anus	569.44
Other		, ,	
Surgical	56949	Other specified disorders of rectum and anus	569.49
Other			
Surgical	56983	Perforation of intestine	569.83
Other			
Medical	5738	Other specified disorders of liver	573.8
Other			
Medical	584	Acute renal failure	584
Other			
Medical	5845	Acute kidney failure with lesion of tubular necrosis	584.5
Other			
Medical	5846	Acute kidney failure with lesion of renal cortical necrosis	584.6
Other			
Medical	5847	Acute kidney failure with lesion of renal medullary [papillary] necrosis	584.7
Other	5040	As to below the control of the contr	504.0
Medical	5848	Acute kidney failure with other specified pathological lesion in kidney	584.8
Other Medical	5849	Acute kidney failure, unspecified	584.9
Other	5849	Acute kidney failure, unspecified	584.9
Medical	586	Renal failure, unspecified	586
Genitourinary	5901	•	590.1
·		Acute pyelonephritis	
Genitourinary	59010	Acute pyelonephritis without lesion of renal medullary necrosis	590.1
Genitourinary	59011	Acute pyelonephritis with lesion of renal medullary necrosis	590.11
Genitourinary	5902	Renal and perinephric abscess	590.2
Genitourinary	5908	Other pyelonephritis or pyonephrosis, not specified as acute or chronic	590.8
Genitourinary	59080	Pyelonephritis, unspecified	590.8
Genitourinary	59081	Pyelitis or pyelonephritis in diseases classified elsewhere	590.81
Genitourinary	5909	Infection of kidney, unspecified	590.9
Genitourinary	591	Hydronephrosis	591
Genitourinary	5933	Stricture or kinking of ureter	593.3
Genitourinary	5934	Other ureteric obstruction	593.4
Other			
Medical	5934	Other ureteric obstruction	593.4
Genitourinary	59381	Vascular disorders of kidney	593.81
Genitourinary	59382	Ureteral fistula	593.82
Genitourinary	59589	Other specified types of cystitis	595.89
	596	Bladder Neck Obstruction	596
Genitourinary	5961	Intestinovesical fistula	596.1
Genitourinary	5962	Vesical fistula, not elsewhere classified	596.2
Genitournary	2302	י באנגמו וואנגוומ, ווטג פואבישוופופ גומאאוופע	390.2

Genitourinary	5966	Rupture of bladder, nontraumatic	596.6
Genitourinary	5991	Urethral fistula	599.1
Other	3331	orethan natara	333.1
Surgical	6040	Orchitis, epididymitis, and epididymo-orchitis, with abscess	604
Other			
Medical	7234	Brachial neuritis or radiculitis NOS	723.4
Other			
Medical	7824	Jaundice, unspecified, not of newborn	782.4
Other			
Medical	7855	Shock without mention of trauma	785.5
Other			
Medical	78550	Shock, unspecified	785.5
Other			
Medical	78551	Cardiogenic shock	785.51
Other			
Medical	78552	Septic shock	785.52
Other			
Medical	78559	Other shock without mention of trauma	785.59
Respiratory	7991	Respiratory arrest	799.1
Other			
Surgical	90250	Injury to iliac vessel(s), unspecified	902.5
Other			
Surgical	90251	Injury to hypogastric artery	902.51
Other			
Surgical	90252	Injury to hypogastric vein	902.52
Other			
Medical	9551	Injury to median nerve	955.1
Other			
Medical	9553	Injury to radial nerve	955.3
Other			
Medical	9557	Injury to other specified nerve(s) of shoulder girdle and upper limb	955.7
Other			
Medical	9558	Injury to multiple nerves of shoulder girdle and upper limb	955.8
Other			
Medical	9559	Injury to unspecified nerve of shoulder girdle and upper limb	955.9
Other	05.00		056
Surgical	9560	Injury to sciatic nerve	956
Other	0561	Lairum, ta fara anal mamina	056.1
Surgical Other	9561	Injury to femoral nerve	956.1
Surgical	9564	Injury to cutaneous sensory nerve, lower limb	956.4
Other	3304	injury to cutaneous sensory herve, lower limb	930.4
Surgical	9565	Injury to other specified nerve(s) of pelvic girdle and lower limb	956.5
Other	3303	many to other specified herve(s) or pervic gridle and lower limb	530.3
Surgical	9568	Injury to multiple nerves of pelvic girdle and lower limb	956.8
Other	3300		330.0
Surgical	9569	Injury to unspecified nerve of pelvic girdle and lower limb	956.9
2 0.00.	9583	Posttraum wnd infec NEC	958.3
Other	5505	. 5555. 55611 11116 11165 1125	550.5
Medical	9954	Shock due to anesthesia, not elsewhere classified	995.4
	99591	Sepsis	995.91
	99631	Malfunc urethral cath	996.31
	22021	ivianune uleunai caul	330.31

	00600	AA 16	206.20
	99639	Malfunc gu dev/graft NEC	996.39
	99659	Malfunc oth device/graft	996.59
	99664	React-indwell urin cath	996.64
	99676	Comp-genitourin dev/grft	996.76
Cardiac	9971	Cardiac complications, not elsewhere classified	997.1
Vascular	9972	Peripheral vascular complications, not elsewhere classified	997.2
Respiratory Other	9973	Respiratory complications	997.3
Medical	9974	Digestive system complications, not elsewhere classified	997.4
	99749	Oth digesty system comp	997.49
Genitourinary	9975	Urinary complications, not elsewhere classified	997.5
Other			
Medical	9980	Postoperative shock, not elsewhere classified	998
Other		Hemorrhage or hematoma or seroma complicating procedure, not elsewhere	
Surgical	9981	classified	998.1
Other			
Surgical	99811	Hemorrhage complicating a procedure	998.11
Other			
Surgical	99812	Hematoma complicating a procedure	998.12
Other	00043	Consider the state of the state	000.43
Surgical	99813	Seroma complicating a procedure	998.13
Other	0002	Assidental nuncture or lacoration during a presedure not elsewhere electified	998.2
Surgical	9982	Accidental puncture or laceration during a procedure, not elsewhere classified	
Wound	9983	Disruption of operation wound	998.3
Other	99831	Disrup internal op wound	998.31
Surgical	9984	Foreign body accidentally left during a procedure	998.4
Wound	9985		998.5
	99851	Postoperative infection, not elsewhere classified	998.51
Wound		Infected postoperative seroma	
Wound	99859	Other postoperative infection	998.59
Wound	9986	Persistent postoperative fistula	998.6
Other Medical	9987	Acute reaction to foreign substance assidentally left during a procedure	998.7
Other	9967	Acute reaction to foreign substance accidentally left during a procedure	996.7
Surgical	99883	Non-healing surgical wound	998.83
Ü	99889	Oth spcf cmplc procd NEC	998.89
Other			
Surgical	9989	Unspecified complication of procedure, not elsewhere classified	998.9
Vascular	9992	Other vascular complications of medical care, not elsewhere classified	999.2
Other		, , , , , , , , , , , , , , , , , , ,	
Medical	9994	Anaphylactic shock due to serum	999.4
Other			
Medical	9995	Other serum reaction, not elsewhere classified	999.5
Other			
Medical	9996	Abo incompatibility reaction, not elsewhere classified	999.6
Other			
Medical	9997	Rh incompatibility reaction, not elsewhere classified	999.7
Other	0000	Other transfusion reaction mat alequate are alequation	000.0
Medical	9998	Other transfusion reaction, not elsewhere classified	999.8
Other	E8700	Accidental cut, nuncture, perforation or homographe during curgical energies	E870.0
Surgical	E6/UU	Accidental cut, puncture, perforation or hemorrhage during surgical operation	E0/U.U

Other		Accidental cut, puncture, perforation or hemorrhage during endoscopic	
Surgical	E8704	examination	E870.4
Other		Accidental cut, puncture, perforation or hemorrhage during administration of	
Surgical	E8707	enema	E870.7
Other		Accidental cut, puncture, perforation or hemorrhage during other specified	
Surgical	E8708	medical care	E870.8
Other		Accidental cut, puncture, perforation or hemorrhage during unspecified	
Surgical	E8709	medical care	E870.9
Other			
Surgical	E8710	Foreign object left in body during surgical operation	E871.0
Other			
Surgical	E8730	Excessive amount of blood or other fluid during transfusion or infusion	E873.0
Other			
Surgical	E8760	Mismatched blood in transfusion	E876.0

Criteria 2: I	Post Surgery Complication Requiring Procedure (CPT)
50040	DRAINAGE OF KIDNEY
50120	EXPLORATION OF KIDNEY
50125	EXPLORE AND DRAIN KIDNEY
50395	CREATE PASSAGE TO KIDNEY
50398	CHANGE KIDNEY TUBE
50605	INSERT URETERAL SUPPORT
	CYSTOSCOPY AND
52290	TREATMENT
	CYSTOSCOPY AND
52332	TREATMENT
52334	CREATE PASSAGE TO KIDNEY
50600	EXPLORATION OF URETER
50700	REVISION OF URETER
50715	RELEASE OF URETER
50760	FUSION OF URETERS
50770	SPLICING OF URETERS
	REIMPLANT URETER IN
50780	BLADDER
	REIMPLANT URETER IN
50782	BLADDER
50703	REIMPLANT URETER IN
50/83	BLADDER REMADI ANT LIBETER IN
50785	REIMPLANT URETER IN BLADDER
50800	IMPLANT URETER IN BOWEL
50810	FUSION OF URETER & BOWEL
50815	URINE SHUNT TO INTESTINE
	CONSTRUCT BOWEL BLADDER
50820	
50825	CONSTRUCT BOWEL BLADDER
50840	REPLACE URETER BY BOWEL
50900	REPAIR OF URETER
50940	RELEASE OF URETER

26990 DRAINAGE OF PELVIS LESION
DRAINAGE OF RECTAL
45020 ABSCESS
49060 DRAIN OPEN RETROP ABSCESS
DRAINAGE OF BLADDER
51080 ABSCESS
52000 Cystourethoroscopy

Table 6 Radiation Therapy

Only patients with more than five radiation oncology treatments are included to calculate the average cost of treatment to the insurer.

Criteria for Radiation Onco	ology Procedures (CPT Code)
76873	US TRANSRCT PRSTATE VOL BRACHYTX PLNNING SPX
77263	THERAPEUTIC RADIOLOGY TX PLANNING COMPLEX
77470	SPECIAL TREATMENT PROCEDURE
77370	SPEC MEDICAL RADJ PHYSICS CONSLTJ
77336	CONTINUING MEDICAL PHYSICS CONSLTJ PR WK
77290	THER RAD SIMULAJ-AIDED FIELD SETTING COMPLEX
77280	THER RAD SIMULAJ-AIDED FIELD SETTING SIMPLE
77300	BASIC RADIATION DOSIMETRY CALCULATION
C1717	Brachytx, non-strm HDR Ir
77790	SUPERVISION HANDLING LOADING RADIATION SOURCE
77732	Treatment Device
77301	NTSTY MODUL RADTHX PLN DOSE-VOL HISTOS
77334	TX DEVICES DESIGN & CONSTRUCTION COMPLEX
77338	MLC IMRT DESIGN & CONSTRUCTION PER IMRT PLAN
77418	NTSTY MODUL DLVR 1/MLT FLDS/ARCS PR TX SESSION
77014	CT GUIDANCE RADIATION THERAPY FLDS PLACEMENT
77427	RADIATION TREATMENT MANAGEMENT 5 TREATMENTS
77295	THER RAD SIMULAJ-AIDED FLD SETTING 3-DIMENSIONAL
77331	SPEC DOSIM ONLY PRESCRIBED TREATING PHYS
77417	THERAPEUTIC RADIOLOGY PORT FILMS
77326	BRACHYTHERAPY ISODOSE PLAN SIMPLE
77327	BRACHYTHERAPY ISODOSE PLAN INTERMEDIATE
77328	BRACHYTHERAPY ISODOSE PLAN COMPLEX
77785	REMOTE AFTLD RADIONUCLIDE BRACHYTX 1 CHANNEL
77786	REMOTE AFTLD RADIONUCLIDE BRACHYTX 2-12 CHANNEL
77787	REMOTE AFTLD RADIONUCLIDE BRACHYTX > 12 CHANNEL
77403	RADJ DLVR 1 AREA 1/PRLL OPSD PORTS SMPL 6-10MEV
77404	RADJ DLVR 1 AREA 1/PRLL OPSD PORTS SMPL 11-19MEV
77405	DAI MEGAVOLTAGE RX MGMT; INTERME
77406	RADJ DLVR 1 AREA 1/PRLL OPSD PORTS SMPL 20MEV/<
77407	RADJ DLVR 2 AREAS 3/>PORTS 1 MLT BLKS <5MEV
77408	RADJ DLVR 2 AREAS 3/>PORTS 1 MLT BLKS 6-1MEV
77409	RADJ DLVR 2 AREAS 3/>PORTS 1 MLT BLKS 11-19MEV
77410	DAI MEGAVOLTAGE RX MGMT; COMPLEX

77411	RADJ DLVR 2 AREAS 3/> PORTS 1 TX AREA 20 MEV/<	
77412	RADJ DLVR 3/> AREAS CUSTOM BLKING <5MEV	
77413	RADJ DLVR 3/> AREAS CUSTOM BLKING 6-10MEV	
77414	RADJ DLVR 3/> AREAS CUSTOM BLKING 11-19MEV	
77415	THER RAD RX PORT FILM INTERPRET	
77416	RADJ DLVR 3/> AREAS CUSTOM BLKING 20MEV/<	
And: 77421 Or "76950" Or "76370" Or "77522" Or "77332" Or "77778" Or "76965" Or		
"55875"		

Table 7 Radiation Therapy Complications

- 1) Extrapolated from the EHP database all diagnosis codes for Prostate Cancer Rad Onc patients
- 2) Selected diagnosis codes for common Rad Onc complications that usually occur within 30 days of treatment.

Criteria for common diagnosis codes for common radiation oncology complications present in our patient sample

599.71 GROSS HEMATURIA

788.1 DYSURIA

HEMATURIA

599.7 UNSPECIFIED