

# MeSH Tree Structures - 2015

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative

<b>Surgical Procedures, Operative</b>	E4		
<b>Ablation Techniques</b>	E4.14		
<b>Cautery</b>	E4.14.170	E2.154	
<b>Electrocoagulation</b>	E4.14.170.402	E2.154.	
<b>Argon Plasma Coagulation</b>	E4.14.170.402.54	E2.154.	E2.520.
		E4.350.	
<b>Catheter Ablation</b>	E4.14.170.402.110	E2.148.	E2.148.
		E2.154.	
<b>Cryosurgery</b>	E4.14.180		
<b>Endometrial Ablation Techniques</b>	E4.14.240	E4.950.	
<b>High-Intensity Focused Ultrasound Ablation</b>	E4.14.380	E2.565.	
<b>Ultrasound, High-Intensity Focused, Transrectal</b>	E4.14.380.500	E2.565.	E4.950.
<b>Laser Therapy</b>	E4.14.520	E2.594	
<b>Angioplasty, Laser</b>	E4.14.520.60	E2.148.	E2.594.
		E4.100.	E4.502.
<b>Angioplasty, Balloon, Laser-Assisted</b>	E4.14.520.60.80	E2.148.	E2.148.
		E2.594.	E4.100.
		E4.100.	E4.502.
		E4.502.	
<b>Corneal Surgery, Laser</b>	E4.14.520.480	E2.594.	E4.540.
<b>Keratectomy, Subepithelial, Laser-Assisted</b>	E4.14.520.480.500	E2.594.	E4.540.
<b>Keratotomy, Laser In Situ</b>	E4.14.520.480.750	E2.594.	E4.540.
<b>Photorefractive Keratectomy</b>	E4.14.520.480.875	E2.594.	E4.540.
<b>Laser Coagulation</b>	E4.14.520.530	E2.520.	E2.594.
		E4.350.	E4.540.
<b>Lithotripsy, Laser</b>	E4.14.520.550	E2.594.	E2.600.
		E4.943.	
<b>Ambulatory Surgical Procedures</b>	E4.30		
<b>Anastomosis, Surgical</b>	E4.35		
<b>Anastomosis, Roux-en-Y</b>	E4.35.70	E4.210.	
<b>Arteriovenous Shunt, Surgical</b>	E4.35.87	E4.100.	
<b>Axillofemoral Bypass Grafting</b>	E4.35.112	E4.100.	
<b>Blalock-Taussig Procedure</b>	E4.35.137	E4.100.	
<b>Cerebrospinal Fluid Shunts</b>	E4.35.188	E4.525.	
<b>Ventriculoperitoneal Shunt</b>	E4.35.188.850	E4.525.	
<b>Ventriculostomy</b>	E4.35.188.957	E4.525.	
<b>Cholecystostomy</b>	E4.35.195	E4.210.	
<b>Choledochostomy</b>	E4.35.200	E4.210.	
<b>Endolymphatic Shunt</b>	E4.35.335	E4.580.	
<b>Gastroenterostomy</b>	E4.35.398	E4.210.	
<b>Gastric Bypass</b>	E4.35.398.385	E2.65.	E4.62.
		E4.210.	
<b>Heart Bypass, Right</b>	E4.35.410	E4.100.	E4.100.
		E4.928.	
<b>Fontan Procedure</b>	E4.35.410.295	E4.100.	E4.100.
		E4.100.	E4.928.
		E4.928.	
<b>Jejunioileal Bypass</b>	E4.35.415	E2.65.	E4.62.
		E4.210.	
<b>Pancreaticojejunostomy</b>	E4.35.703	E4.210.	
<b>Pericardial Window Techniques</b>	E4.35.720	E4.100.	E4.928.
<b>Peritoneovenous Shunt</b>	E4.35.735	E4.100.	E4.210.
<b>Portasystemic Shunt, Surgical</b>	E4.35.760	E4.100.	
<b>Portacaval Shunt, Surgical</b>	E4.35.760.755	E4.100.	
<b>Portasystemic Shunt, Transjugular Intrahepatic</b>	E4.35.760.795	E4.100.	
<b>Splenorenal Shunt, Surgical</b>	E4.35.760.835	E4.100.	
<b>Portoenterostomy, Hepatic</b>	E4.35.775	E4.210.	
<b>Salpingostomy</b>	E4.35.832	E4.950.	
<b>Vasovasostomy</b>	E4.35.956	E4.950.	E4.950.

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Assisted Circulation**

<b>Assisted Circulation</b>	E4.50		
<b>Counterpulsation</b>	E4.50.215		
<b>Intra-Aortic Balloon Pumping</b>	E4.50.215.400		
<b>Heart-Assist Devices</b>	E4.50.430	E7.695.	E7.858.
<b>Bariatric Surgery</b>	E4.62	E2.65.	
<b>Gastric Bypass</b>	E4.62.249	E2.65.	E4.35.
		E4.210.	
<b>Gastroplasty</b>	E4.62.750	E2.65.	E4.210.
<b>Jejunioileal Bypass</b>	E4.62.875	E2.65.	E4.35.
		E4.210.	
<b>Lipectomy</b>	E4.62.937	E2.65.	E2.218.
		E4.680.	
<b>Biopsy</b>	E4.74	E1.370.	E1.370.
		E1.370.	E5.200.
		E5.200.	E5.242.
<b>Biopsy, Needle</b>	E4.74.119	E1.370.	E1.370.
		E1.370.	E4.665.
		E5.200.	E5.200.
		E5.242.	
<b>Biopsy, Fine-Needle</b>	E4.74.119.500	E1.370.	E1.370.
		E1.370.	E4.665.
		E5.200.	E5.200.
		E5.242.	
<b>Endoscopic Ultrasound-Guided Fine Needle Aspiration</b>	E4.74.119.500.500	E1.370.	E1.370.
		E1.370.	E1.370.
		E1.370.	E1.370.
		E1.370.	E4.74.
		E4.502.	E5.200.
		E5.200.	E5.200.
		E5.200.	E5.242.
		E5.242.	
<b>Biopsy, Large-Core Needle</b>	E4.74.119.750	E1.370.	E1.370.
		E1.370.	E4.665.
		E5.200.	E5.200.
		E5.242.	
<b>Chorionic Villi Sampling</b>	E4.74.149	E1.370.	E1.370.
		E1.370.	E1.370.
		E1.370.	E4.665.
		E5.200.	E5.200.
		E5.200.	E5.200.
		E5.242.	E5.242.
<b>Conization</b>	E4.74.160	E1.370.	E1.370.
		E1.370.	E5.200.
		E5.200.	E5.242.
<b>Image-Guided Biopsy</b>	E4.74.370	E1.370.	E1.370.
		E1.370.	E5.200.
		E5.200.	E5.242.
<b>Endoscopic Ultrasound-Guided Fine Needle Aspiration</b>	E4.74.370.500	E1.370.	E1.370.
		E1.370.	E1.370.
		E1.370.	E1.370.
		E1.370.	E4.74.
		E4.502.	E5.200.
		E5.200.	E5.200.
		E5.200.	E5.242.
		E5.242.	
<b>Papanicolaou Test</b>	E4.74.422	E1.370.	E1.370.
		E5.200.	E5.200.
		E5.242.	

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Biopsy**

**Sentinel Lymph Node Biopsy**

**Sentinel Lymph Node Biopsy**

E4.74.580

E1.370. E1.370.  
E1.370. E4.446.  
E5.200. E5.200.

**Spinal Puncture**

E4.74.790

E5.242.  
E1.370. E1.370.  
E4.665. E5.200.  
E5.200.

**Vaginal Smears**

E4.74.800

E1.370. E1.370.  
E1.370. E5.200.  
E5.200. E5.242.

**Bloodless Medical and Surgical Procedures**

**Body Modification, Non-Therapeutic**

E4.79

E2.760. N2.421.

**Body Piercing**

E4.85

E2.218.

**Circumcision, Female**

E4.85.90

E2.218. E2.800.

**Circumcision, Male**

E4.85.165

E2.218. E4.950.

**Tattooing**

E4.85.170

11.76.  
E2.218. E4.950.

**Cardiovascular Surgical Procedures**

E4.85.840

E2.218.

**Cardiac Surgical Procedures**

E4.100

**Cardiac Valve Annuloplasty**

E4.100.376

E4.928.

**Mitral Valve Annuloplasty**

E4.100.376.62

E4.928.

**Cardiomyoplasty**

E4.100.376.62.500

E4.928.

**Heart Arrest, Induced**

E4.100.376.125

E4.928.

**Circulatory Arrest, Deep Hypothermia Induced**

E4.100.376.374

E4.928.

**Heart Bypass, Right**

E4.100.376.374.500

E4.928.

**Fontan Procedure**

E4.100.376.410

E4.35. E4.100.

**Heart Massage**

E4.100.376.410.295

E4.928.

**Heart Transplantation**

E4.100.376.458

E4.35. E4.100.

**Heart-Lung Transplantation**

E4.100.376.475

E4.100. E4.928.

**Heart Valve Prosthesis Implantation**

E4.100.376.475.450

E4.928.

**Transcatheter Aortic Valve Replacement**

E4.100.376.485

E2.365. E4.928.

**Myocardial Revascularization**

E4.100.376.485.500

E4.928. E4.936.

**Angioplasty, Balloon, Coronary**

E4.100.376.485

E4.650. E4.928.

**Fontan Procedure**

E4.100.376.485.500

E4.650. E4.928.

**Fontan Procedure**

E4.100.376.719

E4.928.

**Atherectomy, Coronary**

E4.100.376.719.100

E2.148. E4.100.

**Coronary Artery Bypass**

E4.100.376.719.100

E4.100. E4.502.

**Coronary Artery Bypass, Off-Pump**

E4.100.376.719.125

E2.148. E4.100.

**Internal Mammary-Coronary Artery Anastomosis**

E4.100.376.719.332

E4.502. E4.928.

**Transmyocardial Laser Revascularization**

E4.100.376.719.332.199

E4.100. E4.928.

**Norwood Procedures**

E4.100.376.719.332.400

E4.100. E4.928.

**Fontan Procedure**

E4.100.376.719.666

E4.928.

**Fontan Procedure**

E4.100.376.724

E4.35. E4.100.

**Fontan Procedure**

E4.100.376.724.500

E4.100. E4.928.

**Pericardial Window Techniques**

E4.100.376.730

E4.35. E4.928.

**Pericardiectomy**

E4.100.376.735

E4.928.

**Pericardiocentesis**

E4.100.376.745

E1.370. E2.800.

**Reperfusion**

E4.100.376.745

E4.665. E4.928.

**Myocardial Reperfusion**

E4.100.700

E5.200.

**Vascular Surgical Procedures**

E4.100.700.600

E5.680.

**Axillofemoral Bypass Grafting**

E4.100.814

E4.35.

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative

#### Cardiovascular Surgical Procedures

##### Vascular Surgical Procedures

##### Embolectomy

##### Embolectomy

###### Balloon Embolectomy

##### Endarterectomy

###### Endarterectomy, Carotid

##### Endovascular Procedures

###### Angioplasty

###### Angioplasty, Balloon

###### Angioplasty, Balloon, Coronary

###### Angioplasty, Balloon, Laser-Assisted

###### Angioplasty, Laser

###### Angioplasty, Balloon, Laser-Assisted

##### Atherectomy

###### Atherectomy, Coronary

##### Angioscopy

##### Catheterization, Central Venous

##### Catheterization, Peripheral

###### Catheterization, Swan-Ganz

##### Percutaneous Coronary Intervention

###### Angioplasty, Balloon, Coronary

###### Atherectomy, Coronary

##### Limb Salvage

##### Peritoneovenous Shunt

##### Thrombectomy

###### Mechanical Thrombolysis

##### Vascular Grafting

###### Arteriovenous Shunt, Surgical

###### Blalock-Taussig Procedure

###### Blood Vessel Prosthesis Implantation

###### Cerebral Revascularization

###### Coronary Artery Bypass

###### Coronary Artery Bypass, Off-Pump

###### Internal Mammary-Coronary Artery Anastomosis

###### Heart Bypass, Right

###### Fontan Procedure

##### Portasystemic Shunt, Surgical

###### Portacaval Shunt, Surgical

###### Portasystemic Shunt, Transjugular Intrahepatic

###### Splenorenal Shunt, Surgical

##### Venous Cutdown

E4.100.814.445		
E4.100.814.445.500	E2.148.	
E4.100.814.456		
E4.100.814.456.250		
E4.100.814.529	E4.502.	
E4.100.814.529.124	E2.148.	E4.502.
E4.100.814.529.124.60	E2.148.	E4.502.
E4.100.814.529.124.60.100	E2.148.	E4.100.
	E4.100.	E4.502.
	E4.502.	E4.928.
E4.100.814.529.124.60.105	E2.148.	E2.148.
	E2.594.	E4.14.
	E4.100.	E4.502.
	E4.502.	
E4.100.814.529.124.75	E2.148.	E2.594.
	E4.14.	E4.502.
E4.100.814.529.124.75.80	E2.148.	E2.148.
	E2.594.	E4.14.
	E4.100.	E4.502.
	E4.502.	
E4.100.814.529.124.120	E2.148.	E4.502.
E4.100.814.529.124.120.125	E2.148.	E4.100.
	E4.100.	E4.502.
	E4.502.	E4.928.
E4.100.814.529.500	E1.370.	E1.370.
	E4.502.	E4.502.
E4.100.814.529.875	E2.148.	E4.502.
E4.100.814.529.937	E2.148.	E4.502.
E4.100.814.529.937.165	E1.370.	E2.148.
	E2.148.	E4.502.
E4.100.814.529.968	E4.502.	
E4.100.814.529.968.50	E2.148.	E4.100.
	E4.100.	E4.502.
	E4.502.	E4.928.
E4.100.814.529.968.60	E2.148.	E4.100.
	E4.100.	E4.502.
	E4.502.	E4.928.
E4.100.814.603	E4.555.	E4.680.
E4.100.814.750	E4.35.	E4.210.
E4.100.814.842		
E4.100.814.842.500	E2.631	
E4.100.814.868		
E4.100.814.868.249	E4.35.	
E4.100.814.868.374	E4.35.	
E4.100.814.868.500	E4.650.	
E4.100.814.868.625	E4.494.	
E4.100.814.868.750	E4.100.	E4.928.
E4.100.814.868.750.199	E4.100.	E4.928.
E4.100.814.868.750.400	E4.100.	E4.928.
E4.100.814.868.875	E4.35.	E4.100.
	E4.928.	
E4.100.814.868.875.295	E4.35.	E4.100.
	E4.100.	E4.928.
	E4.928.	
E4.100.814.868.937	E4.35.	
E4.100.814.868.937.790	E4.35.	
E4.100.814.868.937.830	E4.35.	
E4.100.814.868.937.870	E4.35.	
E4.100.814.895		

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative Curettage

<b>Curettage</b>	E4.157		
<b>Dilatation and Curettage</b>	E4.157.310	E4.950.	
<b>Vacuum Curettage</b>	E4.157.310.970	E4.950.	
<b>Cytoreduction Surgical Procedures</b>	E4.166		
<b>Debridement</b>	E4.176		
<b>Decompression, Surgical</b>	E4.188		
<b>Decompressive Craniectomy</b>	E4.188.200	E4.525.	
<b>Microvascular Decompression Surgery</b>	E4.188.600	E4.525.	
<b>Deep Brain Stimulation</b>	E4.190	E2.342.	
<b>Device Removal</b>	E4.199		
<b>Digestive System Surgical Procedures</b>	E4.210		
<b>Anastomosis, Roux-en-Y</b>	E4.210.70	E4.35.	
<b>Appendectomy</b>	E4.210.78		
<b>Biliary Tract Surgical Procedures</b>	E4.210.120		
<b>Biliopancreatic Diversion</b>	E4.210.120.86	E4.210.	
<b>Cholecystectomy</b>	E4.210.120.172		
<b>Cholecystectomy, Laparoscopic</b>	E4.210.120.172.140	E4.502.	
<b>Cholecystostomy</b>	E4.210.120.195	E4.35.	
<b>Choledochostomy</b>	E4.210.120.200	E4.35.	
<b>Portoenterostomy, Hepatic</b>	E4.210.120.775	E4.35.	
<b>Sphincterotomy, Endoscopic</b>	E4.210.120.850	E4.210.	E4.502.
<b>Sphincterotomy, Transhepatic</b>	E4.210.120.860		
<b>Biliopancreatic Diversion</b>	E4.210.169	E4.210.	
<b>Colectomy</b>	E4.210.219		
<b>Proctocolectomy, Restorative</b>	E4.210.219.620		
<b>Endoscopy, Digestive System</b>	E4.210.240	E1.370.	E1.370.
		E4.502.	
<b>Cholangiopancreatography, Endoscopic Retrograde</b>	E4.210.240.160	E1.370.	E1.370.
		E1.370.	E1.370.
		E4.502.	
<b>Endoscopy, Gastrointestinal</b>	E4.210.240.250	E1.370.	E1.370.
		E4.502.	
<b>Colonoscopy</b>	E4.210.240.250.160	E1.370.	E1.370.
		E4.502.	
<b>Sigmoidoscopy</b>	E4.210.240.250.160.800	E1.370.	E1.370.
		E4.502.	
<b>Duodenoscopy</b>	E4.210.240.250.200	E1.370.	E1.370.
		E4.502.	
<b>Esophagoscopy</b>	E4.210.240.250.260	E1.370.	E1.370.
		E4.502.	
<b>Gastrosocopy</b>	E4.210.240.250.320	E1.370.	E1.370.
		E4.502.	
<b>Proctoscopy</b>	E4.210.240.250.680	E1.370.	E1.370.
		E4.502.	
<b>Sphincterotomy, Endoscopic</b>	E4.210.240.250.840	E4.210.	E4.502.
<b>Enterostomy</b>	E4.210.338	E4.579.	
<b>Cecostomy</b>	E4.210.338.175	E4.579.	
<b>Colostomy</b>	E4.210.338.225	E4.579.	
<b>Duodenostomy</b>	E4.210.338.303	E4.579.	
<b>Ileostomy</b>	E4.210.338.508	E4.579.	
<b>Jejunostomy</b>	E4.210.338.523	E4.579.	
<b>Esophagectomy</b>	E4.210.346		
<b>Esophagoplasty</b>	E4.210.355		
<b>Esophagostomy</b>	E4.210.358	E4.579.	
<b>Fundoplication</b>	E4.210.390		
<b>Gastreotomy</b>	E4.210.419		
<b>Gastroenterostomy</b>	E4.210.457	E4.35.	
<b>Gastric Bypass</b>	E4.210.457.430	E2.65.	E4.35.
		E4.62.	

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative

#### Digestive System Surgical Procedures

##### Gastropexy

##### Gastropexy

##### Gastroplasty

##### Gastrostomy

##### Hemorrhoidectomy

##### Hepatectomy

##### Jejunioileal Bypass

##### Liver Transplantation

##### Pancreas Transplantation

##### Pancreatectomy

##### Pancreaticoduodenectomy

##### Pancreaticojejunostomy

##### Peritoneovenous Shunt

##### Dissection

##### Microdissection

##### Drainage

##### Negative-Pressure Wound Therapy

##### Suction

##### Elective Surgical Procedures

##### Electrosurgery

##### Endocrine Surgical Procedures

##### Adrenalectomy

##### Castration

##### Orchiectomy

##### Ovariectomy

##### Hypophysectomy

##### Hypophysectomy, Chemical

##### Islets of Langerhans Transplantation

##### Parathyroidectomy

##### Thyroidectomy

##### Extracorporeal Circulation

##### Cardiopulmonary Bypass

##### Chemotherapy, Cancer, Regional Perfusion

##### Extracorporeal Membrane Oxygenation

##### Heart Bypass, Left

##### Hemofiltration

##### Hemodiafiltration

##### Hemoperfusion

##### Photopheresis

##### Ultrafiltration

##### Hemofiltration

##### Hemodiafiltration

##### Hemostasis, Surgical

##### Argon Plasma Coagulation

##### Light Coagulation

##### Laser Coagulation

##### Laparotomy

##### Ligation

	E4.210.471		
	E4.210.485	E2.65.	E4.62.
	E4.210.496	E4.579.	
	E4.210.526		
	E4.210.556		
	E4.210.626	E2.65.	E4.35.
		E4.62.	
	E4.210.650	E4.936.	E4.936.
	E4.210.725	E4.936.	
	E4.210.752		
	E4.210.760		
	E4.210.762	E4.35.	
	E4.210.790	E4.35.	E4.100.
	E4.221	E1.370.	E5.200.
	E4.221.580	E1.370.	E1.370.
		E1.370.	E5.200.
		E5.200.	E5.591.
	E4.237	E2.309	
	E4.237.444	E2.309.	E4.987.
	E4.237.890		
	E4.249		
	E4.262		
	E4.270		
	E4.270.115		
	E4.270.282	E4.950.	
	E4.270.282.679	E4.950.	E4.950.
	E4.270.282.685	E4.950.	E4.950.
	E4.270.532	E4.525.	
	E4.270.532.490		
	E4.270.550	E4.936.	
	E4.270.694		
	E4.270.856		
	E4.292		
	E4.292.413		
	E4.292.425	E2.319.	
	E4.292.451	E2.880.	
	E4.292.465		
	E4.292.471	E2.870.	E2.912.
		E4.292.	E5.196.
	E4.292.471.350	E2.870.	E2.870.
		E2.912.	E2.912.
		E4.292.	E5.196.
	E4.292.510	E2.912.	
	E4.292.762	E2.774.	
	E4.292.975	E5.196.	G1.595.
		G2.149.	G2.842.
	E4.292.975.300	E2.870.	E2.912.
		E4.292.	E5.196.
	E4.292.975.300.300	E2.870.	E2.870.
		E2.912.	E2.912.
		E4.292.	E5.196.
	E4.350	E2.520.	
	E4.350.500	E2.154.	E2.520.
		E4.14.	
	E4.350.750	E2.520.	E4.540.
	E4.350.750.410	E2.520.	E2.594.
		E4.14.	E4.540.
	E4.406		
	E4.426		

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative Lymph Node Excision

<b>Lymph Node Excision</b>	E4.446		
<b>Neck Dissection</b>	E4.446.318	E4.580.	
<b>Sentinel Lymph Node Biopsy</b>	E4.446.819	E1.370.	E1.370.
		E1.370.	E4.74.
		E5.200.	E5.200.
		E5.242.	
<b>Mastectomy</b>	E4.466		
<b>Mastectomy, Radical</b>	E4.466.678		
<b>Mastectomy, Extended Radical</b>	E4.466.678.354		
<b>Mastectomy, Modified Radical</b>	E4.466.678.476		
<b>Mastectomy, Segmental</b>	E4.466.701		
<b>Mastectomy, Simple</b>	E4.466.754		
<b>Mastectomy, Subcutaneous</b>	E4.466.823		
<b>Metastasectomy</b>	E4.480		
<b>Microsurgery</b>	E4.494	E5.591.	
<b>Cerebral Revascularization</b>	E4.494.150	E4.100.	
<b>Mohs Surgery</b>	E4.494.575	E4.680.	
<b>Minimally Invasive Surgical Procedures</b>	E4.502		
<b>Endoscopy</b>	E4.502.250	E1.370.	
<b>Angioscopy</b>	E4.502.250.35	E1.370.	E1.370.
		E4.100.	E4.502.
<b>Arthroscopy</b>	E4.502.250.70	E1.370.	E4.555.
<b>Joint Capsule Release</b>	E4.502.250.70.500	E4.555.	E4.555.
<b>Bronchoscopy</b>	E4.502.250.100	E1.370.	E1.370.
		E4.928.	
<b>Colposcopy</b>	E4.502.250.150	E1.370.	E1.370.
		E4.520.	E4.950.
<b>Conversion to Open Surgery</b>	E4.502.250.155		
<b>Culdoscopy</b>	E4.502.250.160	E1.370.	E1.370.
		E4.520.	E4.950.
<b>Cystoscopy</b>	E4.502.250.180	E1.370.	E1.370.
		E4.950.	
<b>Endoscopy, Digestive System</b>	E4.502.250.250	E1.370.	E1.370.
		E4.210.	
<b>Cholangiopancreatography, Endoscopic Retrograde</b>	E4.502.250.250.160	E1.370.	E1.370.
		E1.370.	E1.370.
		E4.210.	
<b>Endoscopy, Gastrointestinal</b>	E4.502.250.250.250	E1.370.	E1.370.
		E4.210.	
<b>Colonoscopy</b>	E4.502.250.250.250.160	E1.370.	E1.370.
		E4.210.	
<b>Sigmoidoscopy</b>	E4.502.250.250.250.160.800	E1.370.	E1.370.
		E4.210.	
<b>Double-Balloon Enteroscopy</b>	E4.502.250.250.250.180	E1.370.	
<b>Duodenoscopy</b>	E4.502.250.250.250.200	E1.370.	E1.370.
		E4.210.	
<b>Esophagoscopy</b>	E4.502.250.250.250.260	E1.370.	E1.370.
		E4.210.	
<b>Gastrosopy</b>	E4.502.250.250.250.320	E1.370.	E1.370.
		E4.210.	
<b>Proctoscopy</b>	E4.502.250.250.250.680	E1.370.	E1.370.
		E4.210.	
<b>Sphincterotomy, Endoscopic</b>	E4.502.250.250.250.840	E4.210.	E4.210.
<b>Fetoscopy</b>	E4.502.250.280	E1.370.	E1.370.
		E2.467.	E4.520.
<b>Hysteroscopy</b>	E4.502.250.360	E1.370.	E1.370.
		E4.520.	E4.950.
<b>Laparoscopy</b>	E4.502.250.520	E1.370.	
<b>Cholecystectomy, Laparoscopic</b>	E4.502.250.520.160	E4.210.	

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative**

**Minimally Invasive Surgical Procedures**

**Endoscopy**

**Laparoscopy**

**Hand-Assisted Laparoscopy**

**Hand-Assisted Laparoscopy**

**Laryngoscopy**

**Mediastinoscopy**

**Natural Orifice Endoscopic Surgery**

**Neuroendoscopy**

**Thoracoscopy**

**Thoracic Surgery, Video-Assisted**

**Ureteroscopy**

**Video-Assisted Surgery**

**Thoracic Surgery, Video-Assisted**

**Endovascular Procedures**

**Angioplasty**

**Angioplasty, Balloon**

**Angioplasty, Balloon, Coronary**

**Angioplasty, Balloon, Laser-Assisted**

**Angioplasty, Laser**

**Angioplasty, Balloon, Laser-Assisted**

**Atherectomy**

**Atherectomy, Coronary**

**Angioscopy**

**Catheterization, Central Venous**

**Catheterization, Peripheral**

**Catheterization, Swan-Ganz**

**Percutaneous Coronary Intervention**

**Angioplasty, Balloon, Coronary**

**Atherectomy, Coronary**

**Magnetic Resonance Imaging, Interventional**

**Radiography, Interventional**

**Ultrasonography, Interventional**

**Endoscopic Ultrasound-Guided Fine Needle Aspiration**

**Minor Surgical Procedures**

E4.502.250.520.580	E1.370.	
E4.502.250.525	E1.370.	E1.370.
	E4.580.	
E4.502.250.560	E1.370.	E4.928.
E4.502.250.630	E1.370.	
E4.502.250.700	E1.370.	E1.370.
	E4.525.	
E4.502.250.840	E1.370.	E4.928.
E4.502.250.840.830	E1.370.	E1.370.
	E4.502.	E4.928.
E4.502.250.920	E1.370.	E1.370.
	E4.950.	
E4.502.250.950	E1.370.	
E4.502.250.950.830	E1.370.	E1.370.
	E4.502.	E4.928.
E4.502.382	E4.100.	
E4.502.382.124	E2.148.	E4.100.
E4.502.382.124.60	E2.148.	E4.100.
E4.502.382.124.60.100	E2.148.	E4.100.
	E4.100.	E4.100.
	E4.502.	E4.928.
E4.502.382.124.60.105	E2.148.	E2.148.
	E2.594.	E4.14.
	E4.100.	E4.100.
	E4.502.	
E4.502.382.124.75	E2.148.	E2.594.
	E4.14.	E4.100.
E4.502.382.124.75.80	E2.148.	E2.148.
	E2.594.	E4.14.
	E4.100.	E4.100.
	E4.502.	
E4.502.382.124.120	E2.148.	E4.100.
E4.502.382.124.120.125	E2.148.	E4.100.
	E4.100.	E4.100.
	E4.502.	E4.928.
E4.502.382.500	E1.370.	E1.370.
	E4.100.	E4.502.
E4.502.382.875	E2.148.	E4.100.
E4.502.382.937	E2.148.	E4.100.
E4.502.382.937.165	E1.370.	E2.148.
	E2.148.	E4.100.
E4.502.382.968	E4.100.	
E4.502.382.968.50	E2.148.	E4.100.
	E4.100.	E4.100.
	E4.502.	E4.928.
E4.502.382.968.60	E2.148.	E4.100.
	E4.100.	E4.100.
	E4.502.	E4.928.
E4.502.515		
E4.502.780	E1.370.	
E4.502.890	E1.370.	
E4.502.890.500	E1.370.	E1.370.
	E1.370.	E1.370.
	E1.370.	E1.370.
	E1.370.	E4.74.
	E4.74.	E5.200.
	E5.200.	E5.200.
	E5.200.	E5.242.
	E5.242.	
E4.506		



**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Monitoring, Intraoperative**

<b>Monitoring, Intraoperative</b>	E4.510	E1.370.	
<b>Intraoperative Neurophysiological Monitoring</b>	E4.510.500	E1.370.	E1.370.
<b>Obstetric Surgical Procedures</b>	E4.520		
<b>Abortion, Induced</b>	E4.520.50		
<b>Abortion, Eugenic</b>	E4.520.50.50		
<b>Abortion, Legal</b>	E4.520.50.55		
<b>Abortion, Therapeutic</b>	E4.520.50.60		
<b>Pregnancy Reduction, Multifetal</b>	E4.520.50.60.600	E4.520.	
<b>Pregnancy Reduction, Multifetal</b>	E4.520.50.600	E4.520.	
<b>Cerclage, Cervical</b>	E4.520.100		
<b>Colposcopy</b>	E4.520.150	E1.370.	E1.370.
		E4.502.	E4.950.
<b>Colpotomy</b>	E4.520.155	E4.950.	
<b>Culdoscopy</b>	E4.520.160	E1.370.	E1.370.
		E4.502.	E4.950.
<b>Delivery, Obstetric</b>	E4.520.252		
<b>Cesarean Section</b>	E4.520.252.500		
<b>Cesarean Section, Repeat</b>	E4.520.252.500.150		
<b>Episiotomy</b>	E4.520.252.750		
<b>Extraction, Obstetrical</b>	E4.520.252.875		
<b>Vacuum Extraction, Obstetrical</b>	E4.520.252.875.970		
<b>Labor, Induced</b>	E4.520.252.968		
<b>Vaginal Birth after Cesarean</b>	E4.520.252.992		
<b>Version, Fetal</b>	E4.520.252.996		
<b>Fetoscopy</b>	E4.520.280	E1.370.	E1.370.
		E2.467.	E4.502.
<b>Hysteroscopy</b>	E4.520.360	E1.370.	E1.370.
		E4.502.	E4.950.
<b>Hysterotomy</b>	E4.520.365		
<b>Neurosurgical Procedures</b>	E4.525		
<b>Anterior Temporal Lobectomy</b>	E4.525.44		
<b>Brain Tissue Transplantation</b>	E4.525.90	E4.936.	
<b>Cerebral Decortication</b>	E4.525.160		
<b>Hemispherectomy</b>	E4.525.160.500		
<b>Cerebrospinal Fluid Shunts</b>	E4.525.170	E4.35.	
<b>Ventriculoperitoneal Shunt</b>	E4.525.170.850	E4.35.	
<b>Ventriculostomy</b>	E4.525.170.860	E4.35.	
<b>Craniotomy</b>	E4.525.190		
<b>Decompressive Craniectomy</b>	E4.525.190.200	E4.188.	
<b>Trephining</b>	E4.525.190.840		
<b>Denervation</b>	E4.525.210		
<b>Autonomic Denervation</b>	E4.525.210.80		
<b>Parasympathectomy</b>	E4.525.210.80.600		
<b>Vagotomy</b>	E4.525.210.80.600.850	E4.525.	
<b>Vagotomy, Proximal Gastric</b>	E4.525.210.80.600.850.850	E4.525.	
<b>Vagotomy, Truncal</b>	E4.525.210.80.600.850.860	E4.525.	
<b>Sympathectomy</b>	E4.525.210.80.800		
<b>Ganglionectomy</b>	E4.525.210.80.800.380	E4.525.	
<b>Sympathectomy, Chemical</b>	E4.525.210.80.800.800		
<b>Axotomy</b>	E4.525.210.145		
<b>Cordotomy</b>	E4.525.210.210		
<b>Ganglionectomy</b>	E4.525.210.380	E4.525.	
<b>Muscle Denervation</b>	E4.525.210.500		
<b>Nerve Block</b>	E4.525.210.550	E3.155.	
<b>Autonomic Nerve Block</b>	E4.525.210.550.500	E3.155.	
<b>Sphenopalatine Ganglion Block</b>	E4.525.210.550.500.500	E3.155.	
<b>Nerve Crush</b>	E4.525.210.560		
<b>Rhizotomy</b>	E4.525.210.700		

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative**

**Neurosurgical Procedures**

**Denervation**

**Vagotomy**

**Vagotomy**

**Vagotomy, Proximal Gastric**

**Vagotomy, Truncal**

**Foraminotomy**

**Hypophysectomy**

**Laminectomy**

**Laminoplasty**

**Microvascular Decompression Surgery**

**Nerve Transfer**

**Neuroendoscopy**

**Pallidotomy**

**Psychosurgery**

**Split-Brain Procedure**

**Stereotaxic Techniques**

**Neuronavigation**

**Radiosurgery**

**Ophthalmologic Surgical Procedures**

**Blepharoplasty**

**Dacryocystorhinostomy**

**Endotamponade**

**Eye Enucleation**

**Eye Evisceration**

**Filtering Surgery**

**Sclerostomy**

**Trabeculectomy**

**Iridectomy**

**Light Coagulation**

**Laser Coagulation**

**Orbit Evisceration**

**Refractive Surgical Procedures**

**Cataract Extraction**

**Capsulorhexis**

**Phacoemulsification**

**Corneal Transplantation**

**Descemet Stripping Endothelial Keratoplasty**

**Epikeratophakia**

**Keratoplasty, Penetrating**

**Corneal Surgery, Laser**

**Keratotomy, Subepithelial, Laser-Assisted**

**Keratomileusis, Laser In Situ**

**Photorefractive Keratectomy**

**Keratotomy, Radial**

**Lens Implantation, Intraocular**

**Posterior Capsulotomy**

**Scleroplasty**

**Scleral Buckling**

**Vitreotomy**

**Vitreoretinal Surgery**

**Oral Surgical Procedures**

**Apicoectomy**

**Gingivectomy**

**Gingivoplasty**

**Glossectomy**

**Jaw Fixation Techniques**

**Mandibular Advancement**

	E4.525.210.850	E4.525.	
	E4.525.210.850.850	E4.525.	
	E4.525.210.850.860	E4.525.	
	E4.525.305		
	E4.525.400	E4.270.	
	E4.525.450		
	E4.525.475		
	E4.525.500	E4.188.	
	E4.525.550		
	E4.525.562	E1.370.	E1.370.
		E4.502.	
	E4.525.575		
	E4.525.600	F4.570.	
	E4.525.770		
	E4.525.800	E5.873	
	E4.525.800.324	E1.158.	E1.370.
		E5.873.	
	E4.525.800.650	E2.815.	E5.873.
	E4.540		
	E4.540.104	E4.680.	
	E4.540.255	E4.579.	
	E4.540.342	E2.393	E2.520.
	E4.540.429		
	E4.540.431		
	E4.540.450		
	E4.540.450.600	E4.579.	
	E4.540.450.700		
	E4.540.480		
	E4.540.630	E2.520.	E4.350.
	E4.540.630.410	E2.520.	E2.594.
		E4.14.	E4.350.
	E4.540.760		
	E4.540.825		
	E4.540.825.249		
	E4.540.825.249.352		
	E4.540.825.249.704	E4.943.	
	E4.540.825.374	E4.936.	
	E4.540.825.374.112	E4.936.	
	E4.540.825.374.225	E4.936.	
	E4.540.825.374.350	E4.936.	
	E4.540.825.437	E2.594.	E4.14.
	E4.540.825.437.249	E2.594.	E4.14.
	E4.540.825.437.374	E2.594.	E4.14.
	E4.540.825.437.500	E2.594.	E4.14.
	E4.540.825.550		
	E4.540.825.600		
	E4.540.825.784		
	E4.540.825.968	E4.680.	
	E4.540.890		
	E4.540.960		
	E4.540.980		
	E4.545	E6.645	
	E4.545.100	E6.397.	E6.645.
	E4.545.350	E6.645.	E6.721.
	E4.545.355	E6.645.	E6.721.
	E4.545.380	E6.645.	
	E4.545.440	E6.645.	
	E4.545.500	E6.645.	E6.658.

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative

#### Oral Surgical Procedures

##### Maxillofacial Prosthesis Implantation

Maxillofacial Prosthesis Implantation	E4.545.510	E4.650.	E6.645.
Mandibular Prosthesis Implantation	E4.545.510.500	E4.650.	E6.645.
Oral Surgical Procedures, Preprosthetic	E4.545.550	E6.645.	
Alveolar Ridge Augmentation	E4.545.550.100	E6.645.	
Alveolectomy	E4.545.550.110	E6.645.	
Alveoloplasty	E4.545.550.120	E6.645.	
Dental Implantation	E4.545.550.280	E4.650.	E6.231
		E6.645.	E6.780.
Dental Implantation, Endosseous	E4.545.550.280.280	E6.231.	E6.645.
		E6.780.	
Blade Implantation	E4.545.550.280.280.150	E6.231.	E6.645.
		E6.780.	
Dental Implantation, Endosseous, Endodontic	E4.545.550.280.280.280	E6.231.	E6.397.
		E6.645.	E6.780.
Immediate Dental Implant Loading	E4.545.550.280.280.350	E6.231.	E6.645.
		E6.780.	
Dental Implantation, Subperiosteal	E4.545.550.280.290	E6.231.	E6.645.
		E6.780.	
Vestibuloplasty	E4.545.550.800	E6.645.	
Orthognathic Surgical Procedures	E4.545.562	E4.555.	E6.645.
Alveolar Bone Grafting	E4.545.562.500	E4.555.	E6.645.
Osteotomy, Le Fort	E4.545.575	E4.555.	E6.645.
Osteotomy, Sagittal Split Ramus	E4.545.637	E4.555.	E6.645.
Sinus Floor Augmentation	E4.545.668	E4.555.	E6.645.
Tooth Extraction	E4.545.700	E6.645.	
Serial Extraction	E4.545.700.680	E6.645.	E6.658.
Tooth Replantation	E4.545.710	E4.936.	E6.397.
		E6.645.	
Orthopedic Procedures	E4.555	E2.718	
Acetabuloplasty	E4.555.39	E4.680.	
Amputation	E4.555.80		
Disarticulation	E4.555.80.250		
Hemipelvectomy	E4.555.80.380		
Anterior Cruciate Ligament Reconstruction	E4.555.85	E2.718.	E4.555.
		E4.680.	
Bone-Patellar Tendon-Bone Grafting	E4.555.85.500	E2.718.	E4.555.
		E4.680.	E4.936.
Arthrodesis	E4.555.100		
Spinal Fusion	E4.555.100.700		
Arthroplasty	E4.555.110	E4.680.	
Anterior Cruciate Ligament Reconstruction	E4.555.110.26	E2.718.	E4.555.
		E4.680.	
Bone-Patellar Tendon-Bone Grafting	E4.555.110.26.500	E2.718.	E4.555.
		E4.680.	E4.936.
Arthroplasty, Replacement	E4.555.110.110	E4.650.	E4.680.
Arthroplasty, Replacement, Ankle	E4.555.110.110.10	E4.650.	E4.680.
Arthroplasty, Replacement, Elbow	E4.555.110.110.45	E4.650.	E4.680.
Arthroplasty, Replacement, Finger	E4.555.110.110.54	E4.650.	E4.680.
Arthroplasty, Replacement, Hip	E4.555.110.110.110	E4.650.	E4.680.
Arthroplasty, Replacement, Knee	E4.555.110.110.115	E4.650.	E4.680.
Hemiarthroplasty	E4.555.110.110.482	E4.650.	E4.680.
Total Disc Replacement	E4.555.110.110.850	E4.650.	E4.680.
Arthroplasty, Subchondral	E4.555.110.115	E4.680.	
Arthroscopy	E4.555.113	E1.370.	E4.502.
Joint Capsule Release	E4.555.113.500	E4.502.	E4.555.
Bone Lengthening	E4.555.120		
Ilizarov Technique	E4.555.120.380	E4.555.	
Osteogenesis, Distraction	E4.555.120.690		
Bone Transplantation	E4.555.130	E4.936.	

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Orthopedic Procedures  
Bone Transplantation  
Sinus Floor Augmentation**

Sinus Floor Augmentation	E4.555.130.550	E4.545.	E6.645.
Cementoplasty	E4.555.165	E2.718.	
Vertebroplasty	E4.555.165.500	E2.718.	
Kyphoplasty	E4.555.165.500.500	E2.718.	
Discectomy	E4.555.200		
Discectomy, Percutaneous	E4.555.200.200		
Fracture Fixation	E4.555.300		
Fracture Fixation, Internal	E4.555.300.300		
Fracture Fixation, Intramedullary	E4.555.300.300.300		
Ilizarov Technique	E4.555.300.380	E4.555.	
Joint Capsule Release	E4.555.350	E4.502.	E4.555.
Limb Salvage	E4.555.400	E4.100.	E4.680.
Osteotomy	E4.555.580		
Orthognathic Surgical Procedures	E4.555.580.289	E4.545.	E6.645.
Alveolar Bone Grafting	E4.555.580.289.500	E4.545.	E6.645.
Osteotomy, Le Fort	E4.555.580.580	E4.545.	E6.645.
Osteotomy, Sagittal Split Ramus	E4.555.580.790	E4.545.	E6.645.
Tendon Transfer	E4.555.700		
Tenodesis	E4.555.710	E4.987.	
Tenotomy	E4.555.712		
Traction	E4.555.720		
Ostomy	E4.579		
Cystostomy	E4.579.240	E4.950.	E4.950.
Dacryocystorhinostomy	E4.579.255	E4.540.	
Enterostomy	E4.579.338	E4.210.	
Cecostomy	E4.579.338.175	E4.210.	
Colostomy	E4.579.338.225	E4.210.	
Duodenostomy	E4.579.338.303	E4.210.	
Ileostomy	E4.579.338.508	E4.210.	
Jejunostomy	E4.579.338.523	E4.210.	
Esophagostomy	E4.579.358	E4.210.	
Gastrostomy	E4.579.408	E4.210.	
Middle Ear Ventilation	E4.579.592	E4.580.	
Nephrostomy, Percutaneous	E4.579.642	E1.370.	E4.950.
Pharyngostomy	E4.579.740	E4.580.	
Sclerostomy	E4.579.895	E4.540.	
Thoracostomy	E4.579.918	E4.928.	
Tracheostomy	E4.579.935	E2.41.	E4.580.
		E4.928.	
Ureterostomy	E4.579.947	E4.950.	
Otorhinolaryngologic Surgical Procedures	E4.580		
Adenoidectomy	E4.580.68		
Laryngectomy	E4.580.369		
Laryngoplasty	E4.580.371		
Laryngoscopy	E4.580.373	E1.370.	E1.370.
		E4.502.	
Nasal Surgical Procedures	E4.580.392		
Rhinoplasty	E4.580.392.500	E2.218.	E4.680.
Neck Dissection	E4.580.411	E4.446.	
Otologic Surgical Procedures	E4.580.450		
Auditory Brain Stem Implantation	E4.580.450.109	E4.650.	
Cochlear Implantation	E4.580.450.220	E4.650.	
Endolymphatic Shunt	E4.580.450.230	E4.35.	
Fenestration, Labyrinth	E4.580.450.277		
Middle Ear Ventilation	E4.580.450.472	E4.579.	
Myringoplasty	E4.580.450.505		
Ossicular Replacement	E4.580.450.600	E4.650.	
Stapes Surgery	E4.580.450.731		

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

<b>Surgical Procedures, Operative</b>			
<b>Otorhinolaryngologic Surgical Procedures</b>			
<b>Otologic Surgical Procedures</b>			
<b>Stapes Surgery</b>			
<b>Stapes Mobilization</b>			
<b>Stapes Mobilization</b>	E4.580.450.731.681		
<b>Transtympanic Micropressure Treatment</b>	E4.580.450.802		
<b>Tympanoplasty</b>	E4.580.450.873		
<b>Pharyngectomy</b>	E4.580.515		
<b>Pharyngostomy</b>	E4.580.540	E4.579.	
<b>Tonsillectomy</b>	E4.580.848		
<b>Tracheostomy</b>	E4.580.900	E2.41.	E4.579.
		E4.928.	
<b>Tracheotomy</b>	E4.580.907	E4.928.	
<b>Pelvic Exenteration</b>	E4.584		
<b>Perioperative Care</b>	E4.604	E2.760.	N2.421.
<b>Intraoperative Care</b>	E4.604.249	E2.760.	N2.421.
<b>Postoperative Care</b>	E4.604.500	E2.760.	N2.421.
<b>Preoperative Care</b>	E4.604.750	E2.760.	N2.421.
<b>Preanesthetic Medication</b>	E4.604.750.619	E3.806	
<b>Perioperative Period</b>	E4.614	N2.421.	
<b>Intraoperative Period</b>	E4.614.374	N2.421.	
<b>Operative Time</b>	E4.614.374.500	N2.421.	
<b>Postoperative Period</b>	E4.614.750	N2.421.	
<b>Anesthesia Recovery Period</b>	E4.614.750.55	E3.160	N2.421.
<b>Preoperative Period</b>	E4.614.937	N2.421.	
<b>Prophylactic Surgical Procedures</b>	E4.625		
<b>Prosthesis Implantation</b>	E4.650		
<b>Arthroplasty, Replacement</b>	E4.650.110	E4.555.	E4.680.
<b>Arthroplasty, Replacement, Ankle</b>	E4.650.110.10	E4.555.	E4.680.
<b>Arthroplasty, Replacement, Elbow</b>	E4.650.110.45	E4.555.	E4.680.
<b>Arthroplasty, Replacement, Finger</b>	E4.650.110.54	E4.555.	E4.680.
<b>Arthroplasty, Replacement, Hip</b>	E4.650.110.110	E4.555.	E4.680.
<b>Arthroplasty, Replacement, Knee</b>	E4.650.110.115	E4.555.	E4.680.
<b>Hemiarthroplasty</b>	E4.650.110.482	E4.555.	E4.680.
<b>Total Disc Replacement</b>	E4.650.110.850	E4.555.	E4.680.
<b>Auditory Brain Stem Implantation</b>	E4.650.155	E4.580.	
<b>Blood Vessel Prosthesis Implantation</b>	E4.650.200	E4.100.	
<b>Breast Implantation</b>	E4.650.210	E2.218.	E4.680.
<b>Cochlear Implantation</b>	E4.650.220	E4.580.	
<b>Dental Implantation</b>	E4.650.230	E4.545.	E6.231
		E6.645.	E6.780.
<b>Heart Valve Prosthesis Implantation</b>	E4.650.410	E4.100.	E4.928.
<b>Transcatheter Aortic Valve Replacement</b>	E4.650.410.500	E4.100.	E4.928.
<b>Maxillofacial Prosthesis Implantation</b>	E4.650.510	E4.545.	E6.645.
<b>Mandibular Prosthesis Implantation</b>	E4.650.510.500	E4.545.	E6.645.
<b>Ossicular Replacement</b>	E4.650.600	E4.580.	
<b>Penile Implantation</b>	E4.650.620	E4.950.	
<b>Punctures</b>	E4.665	E2.800	
<b>Biopsy, Needle</b>	E4.665.100	E1.370.	E1.370.
		E1.370.	E4.74.
		E5.200.	E5.200.
		E5.242.	
<b>Biopsy, Fine-Needle</b>	E4.665.100.500	E1.370.	E1.370.
		E1.370.	E4.74.
		E5.200.	E5.200.
		E5.242.	
<b>Biopsy, Large-Core Needle</b>	E4.665.100.750	E1.370.	E1.370.
		E1.370.	E4.74.
		E5.200.	E5.200.
		E5.242.	
<b>Blood Specimen Collection</b>	E4.665.150	E1.370.	E5.200.
<b>Cordocentesis</b>	E4.665.150.150	E1.370.	E5.200.

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Punctures**

**Blood Specimen Collection  
Petrosal Sinus Sampling**

**Petrosal Sinus Sampling**

E4.665.150.600

E1.370.

E1.370.

**Phlebotomy**

E4.665.150.625

E5.200.

E5.200.

E1.370.

E2.800.

E5.200.

**Chorionic Villi Sampling**

E4.665.160

E1.370.

E1.370.

E1.370.

E1.370.

E1.370.

E4.74.

E5.200.

E5.200.

E5.200.

E5.200.

E5.242.

E5.242.

**Paracentesis**

E4.665.600

E1.370.

E2.800.

E5.200.

**Amniocentesis**

E4.665.600.309

E1.370.

E1.370.

E1.370.

E5.200.

E5.200.

E5.242.

**Pericardiocentesis**

E4.665.600.620

E1.370.

E2.800.

E4.100.

E4.928.

E5.200.

**Spinal Puncture**

E4.665.700

E1.370.

E1.370.

E4.74.

E5.200.

E5.200.

**Reconstructive Surgical Procedures**

E4.680

**Abdominoplasty**

E4.680.25

E2.218.

**Acetabuloplasty**

E4.680.38

E4.555.

**Arthroplasty**

E4.680.101

E4.555.

**Anterior Cruciate Ligament Reconstruction**

E4.680.101.26

E2.718.

E4.555.

E4.555.

**Bone-Patellar Tendon-Bone Grafting**

E4.680.101.26.500

E2.718.

E4.555.

E4.555.

E4.936.

**Arthroplasty, Replacement**

E4.680.101.110

E4.555.

E4.650.

**Arthroplasty, Replacement, Ankle**

E4.680.101.110.10

E4.555.

E4.650.

**Arthroplasty, Replacement, Elbow**

E4.680.101.110.45

E4.555.

E4.650.

**Arthroplasty, Replacement, Finger**

E4.680.101.110.54

E4.555.

E4.650.

**Arthroplasty, Replacement, Hip**

E4.680.101.110.110

E4.555.

E4.650.

**Arthroplasty, Replacement, Knee**

E4.680.101.110.115

E4.555.

E4.650.

**Hemiarthroplasty**

E4.680.101.110.482

E4.555.

E4.650.

**Total Disc Replacement**

E4.680.101.110.850

E4.555.

E4.650.

**Arthroplasty, Subchondral**

E4.680.101.115

E4.555.

**Cervicoplasty**

E4.680.152

**Dermatologic Surgical Procedures**

E4.680.275

**Blepharoplasty**

E4.680.275.90

E4.540.

**Chemexfoliation**

E4.680.275.200

E2.218.

**Dermabrasion**

E4.680.275.250

E2.218.

**Mohs Surgery**

E4.680.275.580

E4.494.

**Rhytidoplasty**

E4.680.275.700

E2.218.

**Skin Transplantation**

E4.680.275.850

E4.936.

**Guided Tissue Regeneration**

E4.680.300

**Guided Tissue Regeneration, Periodontal**

E4.680.300.500

E6.645.

E6.721.

**Herniorrhaphy**

E4.680.325

**Limb Salvage**

E4.680.350

E4.100.

E4.555.

**Lipectomy**

E4.680.450

E2.65.

E2.218.

E4.62.

**Mammoplasty**

E4.680.500

E2.218.

**Breast Implantation**

E4.680.500.210

E2.218.

E4.650.

**Rhinoplasty**

E4.680.650

E2.218.

E4.580.

**Scleroplasty**

E4.680.700

E4.540.

**Sex Reassignment Surgery**

E4.680.750

E2.906.

E4.950.

**Tissue Expansion**

E4.680.800

**Nerve Expansion**

E4.680.800.500

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative Reoperation

Reoperation	E4.690		
Second-Look Surgery	E4.708		
Splenectomy	E4.726		
Surgery, Computer-Assisted	E4.749	E2.950.	L1.700.
Robotic Surgical Procedures	E4.749.500	E2.950.	L1.700.
Symphysiotomy	E4.910		
Thoracic Surgical Procedures	E4.928		
Cardiac Surgical Procedures	E4.928.220	E4.100.	
Cardiac Valve Annuloplasty	E4.928.220.109	E4.100.	
Mitral Valve Annuloplasty	E4.928.220.109.500	E4.100.	
Cardiomyoplasty	E4.928.220.220	E4.100.	
Heart Arrest, Induced	E4.928.220.360	E4.100.	
Circulatory Arrest, Deep Hypothermia Induced	E4.928.220.360.500	E4.100.	
Heart Bypass, Right	E4.928.220.370	E4.35.	E4.100.
Fontan Procedure	E4.928.220.370.295	E4.35.	E4.100.
		E4.100.	E4.100.
		E4.928.	
Heart Massage	E4.928.220.380	E2.365.	E4.100.
Heart Transplantation	E4.928.220.390	E4.100.	E4.936.
Heart-Lung Transplantation	E4.928.220.390.450	E4.100.	E4.928.
		E4.936.	E4.936.
Heart Valve Prosthesis Implantation	E4.928.220.410	E4.100.	E4.650.
Transcatheter Aortic Valve Replacement	E4.928.220.410.500	E4.100.	E4.650.
Myocardial Revascularization	E4.928.220.520	E4.100.	
Angioplasty, Balloon, Coronary	E4.928.220.520.100	E2.148.	E4.100.
		E4.100.	E4.100.
		E4.502.	E4.502.
Atherectomy, Coronary	E4.928.220.520.110	E2.148.	E4.100.
		E4.100.	E4.100.
		E4.502.	E4.502.
Coronary Artery Bypass	E4.928.220.520.220	E4.100.	E4.100.
Coronary Artery Bypass, Off-Pump	E4.928.220.520.220.189	E4.100.	E4.100.
Internal Mammary-Coronary Artery Anastomosis	E4.928.220.520.220.380	E4.100.	E4.100.
Transmyocardial Laser Revascularization	E4.928.220.520.610	E4.100.	
Norwood Procedures	E4.928.220.560	E4.100.	
Fontan Procedure	E4.928.220.560.500	E4.35.	E4.100.
		E4.100.	E4.100.
		E4.928.	
Pericardial Window Techniques	E4.928.220.600	E4.35.	E4.100.
Pericardiectomy	E4.928.220.605	E4.100.	
Pericardiocentesis	E4.928.220.620	E1.370.	E2.800.
		E4.100.	E4.665.
		E5.200.	
Mediastinoscopy	E4.928.490	E1.370.	E4.502.
Pulmonary Surgical Procedures	E4.928.600		
Bronchoscopy	E4.928.600.80	E1.370.	E1.370.
		E4.502.	
Collapse Therapy	E4.928.600.220		
Pneumonolysis	E4.928.600.220.610	E4.928.	
Pneumothorax, Artificial	E4.928.600.220.620		
Lung Transplantation	E4.928.600.495	E4.936.	
Heart-Lung Transplantation	E4.928.600.495.450	E4.100.	E4.928.
		E4.936.	E4.936.
Pneumonectomy	E4.928.600.600		
Pneumonolysis	E4.928.600.610	E4.928.	
Sternotomy	E4.928.710		
Thoracoplasty	E4.928.750		
Thoracoscopy	E4.928.752	E1.370.	E4.502.

**E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE**

**Surgical Procedures, Operative  
Thoracic Surgical Procedures  
Thoracoscopy**

**Thoracic Surgery, Video-Assisted**

**Thoracic Surgery, Video-Assisted**

E4.928.752.830 E1.370. E1.370.  
E4.502. E4.502.

**Thoracostomy**

E4.928.755 E4.579.

**Thoracotomy**

E4.928.760

**Thymectomy**

E4.928.770

**Tracheostomy**

E4.928.780 E2.41. E4.579.  
E4.580. E4.580.

**Tracheotomy**

E4.928.790 E4.580.

**Transplantation**

**Cell Transplantation**

E4.936

**Islets of Langerhans Transplantation**

E4.936.225 E2.95.

**Stem Cell Transplantation**

E4.936.225.375 E4.270.

**Cord Blood Stem Cell Transplantation**

E4.936.225.687

**Hematopoietic Stem Cell Transplantation**

E4.936.225.687.312

**Mesenchymal Stem Cell Transplantation**

E4.936.225.687.500

**Peripheral Blood Stem Cell Transplantation**

E4.936.225.687.625

**Cold Ischemia**

E4.936.225.687.750

**Organ Transplantation**

E4.936.337 E5.760.

**Heart Transplantation**

E4.936.450

**Heart-Lung Transplantation**

E4.936.450.475 E4.100. E4.928.  
E4.936.450.475.450 E4.100. E4.928.

**Kidney Transplantation**

E4.936.450.485 E2.870. E4.950.

**Liver Transplantation**

E4.936.450.490 E4.210. E4.936.

**Lung Transplantation**

E4.936.450.495

**Heart-Lung Transplantation**

E4.936.450.495.450 E4.928. E4.928.

**Pancreas Transplantation**

E4.936.450.495.450 E4.100. E4.928.

**Vascularized Composite Allograft Transplantation**

E4.936.450.650 E4.210.

**Facial Transplantation**

E4.936.450.825

**Hand Transplantation**

E4.936.450.825.249

**Replantation**

E4.936.450.825.500

**Tooth Replantation**

E4.936.494 E4.936.494.711 E4.545. E6.397.  
E6.645.

**Tissue and Organ Harvesting**

E4.936.537

**Donor Selection**

E4.936.537.500 N2.421.

**Fertility Preservation**

E4.936.537.562 E2.875. E5.820.

**Oocyte Retrieval**

E4.936.537.625 E2.875. E5.820.

**Operative Blood Salvage**

E4.936.537.687

**Sperm Retrieval**

E4.936.537.750 E2.875. E5.820.

**Tissue Transplantation**

E4.936.580

**Bone Marrow Transplantation**

E4.936.580.40

**Bone Transplantation**

E4.936.580.52 E4.555.

**Bone-Patellar Tendon-Bone Grafting**

E4.936.580.65 E2.718. E4.555. E4.680.

**Brain Tissue Transplantation**

E4.936.580.90 E4.525.

**Corneal Transplantation**

E4.936.580.225 E4.540.

**Epikeratophakia**

E4.936.580.225.225 E4.540.

**Keratoplasty, Penetrating**

E4.936.580.225.350 E4.540.

**Descemet Stripping Endothelial Keratoplasty**

E4.936.580.262 E4.540.

**Fetal Tissue Transplantation**

E4.936.580.300

**Liver Transplantation**

E4.936.580.490 E4.210. E4.936.

**Skin Transplantation**

E4.936.580.700 E4.680.

**Transplantation, Autologous**

E4.936.664

**Transplantation, Heterologous**

E4.936.764

**Transplantation, Heterotopic**

E4.936.800

**Transplantation, Homologous**

E4.936.864

**Transplantation, Isogeneic**

E4.936.864.700

**Warm Ischemia**

E4.936.932



## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative Ultrasonic Surgical Procedures

Ultrasonic Surgical Procedures	E4.943		
Lithotripsy	E4.943.500	E2.600	
Lithotripsy, Laser	E4.943.500.500	E2.594.	E2.600.
		E4.14.	
Phacoemulsification	E4.943.875	E4.540.	
Piezosurgery	E4.943.937		
Urogenital Surgical Procedures	E4.950		
Castration	E4.950.165	E4.270.	
Orchiectomy	E4.950.165.679	E4.270.	E4.950.
Ovariectomy	E4.950.165.685	E4.270.	E4.950.
Gynecologic Surgical Procedures	E4.950.300		
Circumcision, Female	E4.950.300.200	E2.218.	E4.85.
		I1.76.	
Colposcopy	E4.950.300.210	E1.370.	E1.370.
		E4.502.	E4.520.
Colpotomy	E4.950.300.220	E4.520.	
Culdoscopy	E4.950.300.259	E1.370.	E1.370.
		E4.502.	E4.520.
Dilatation and Curettage	E4.950.300.299	E4.157.	
Vacuum Curettage	E4.950.300.299.970	E4.157.	
Endometrial Ablation Techniques	E4.950.300.320	E4.14.	
Hysterectomy	E4.950.300.399		
Hysterectomy, Vaginal	E4.950.300.399.380		
Hysteroscopy	E4.950.300.539	E1.370.	E1.370.
		E4.502.	E4.520.
Ovariectomy	E4.950.300.680	E4.270.	E4.950.
Salpingectomy	E4.950.300.715		
Salpingostomy	E4.950.300.750	E4.35.	
Sterilization, Tubal	E4.950.300.766	E4.950.	
Uterine Artery Embolization	E4.950.300.883	E2.520.	E2.926.
Uterine Myomectomy	E4.950.300.941		
Sex Reassignment Surgery	E4.950.449	E2.906.	E4.680.
Sterilization, Reproductive	E4.950.599	E2.875.	
Sterilization, Involuntary	E4.950.599.450		
Sterilization Reversal	E4.950.599.500		
Vasovasostomy	E4.950.599.500.800	E4.35.	E4.950.
Sterilization, Tubal	E4.950.599.683	E4.950.	
Vasectomy	E4.950.599.900	E4.950.	
Urologic Surgical Procedures	E4.950.774		
Cystectomy	E4.950.774.150		
Cystoscopy	E4.950.774.155	E1.370.	E1.370.
		E4.502.	
Cystostomy	E4.950.774.156	E4.579.	E4.950.
Cystotomy	E4.950.774.162		
Kidney Transplantation	E4.950.774.400	E2.870.	E4.936.
Nephrectomy	E4.950.774.435		
Ureteroscopy	E4.950.774.840	E1.370.	E1.370.
		E4.502.	
Urinary Diversion	E4.950.774.852		
Cystostomy	E4.950.774.852.240	E4.579.	E4.950.
Nephrostomy, Percutaneous	E4.950.774.852.642	E1.370.	E4.579.
Ureterostomy	E4.950.774.852.947	E4.579.	
Urologic Surgical Procedures, Male	E4.950.774.860		
Circumcision, Male	E4.950.774.860.226	E2.218.	E4.85.
Orchiectomy	E4.950.774.860.618	E4.270.	E4.950.
Orchiopexy	E4.950.774.860.619		
Penile Implantation	E4.950.774.860.620	E4.650.	
Prostatectomy	E4.950.774.860.625		

## E4 - PROCEDURES AND TECHNIQUES-SURGICAL PROCEDURES, OPERATIVE

### Surgical Procedures, Operative

#### Urogenital Surgical Procedures

##### Urologic Surgical Procedures

##### Urologic Surgical Procedures, Male

##### Prostatectomy

##### Transurethral Resection of Prostate

##### Transurethral Resection of Prostate

##### Ultrasound, High-Intensity Focused, Transrectal

##### Vasectomy

##### Vasovasostomy

#### Wound Closure Techniques

##### Abdominal Wound Closure Techniques

##### Negative-Pressure Wound Therapy

##### Suture Techniques

##### Surgical Stapling

##### Tenodesis

E4.950.774.860.625.750			
E4.950.774.860.625.875	E2.565.	E4.14.	
E4.950.774.860.856	E4.950.		
E4.950.774.860.956	E4.35.	E4.950.	
E4.987			
E4.987.100			
E4.987.550	E2.309.	E4.237.	
E4.987.775			
E4.987.775.800			
E4.987.775.900	E4.555.		