## **Supplemental Online Content**

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eTable 1. List of Ancillary Services that Could be Provided and Billed in Connection to the Primary Shoppable Health Care Service
eFigure 1. Flowchart of Sample Inclusion and Exclusion Criteria
eTable 2. Flowchart of Sample Inclusion and Exclusion Criteria by Service
eFigure 2. Total Reimbursement for Service Packages Ranked by the Portion of Reimbursement Billed by the Hospital for Selected Common Shoppable Health Care Services

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. List of Ancillary Services that Could be Provided and Billed in Connection to the Primary Shoppable Health Care Service

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		EVALUATION & MANAGEME	NT		
Davish oth sugar		Facility fee			
Psychotherapy, 30/45/60 min (CPT		Psychiatric diagnostic evaluation	90791-2		
90832, 90834, 90837);		Office or other outpatient visit for the evaluation	99201-5	Only if billed by	
Family psychotherapy,	Outpatient	and management of a new patient	99201-0	a psychiatrist	
including/not including	Outpatient	Office or other outpatient visit for the evaluation	99211-5	Only if billed by	
patient, 50 min (CPT		and management of an established patient		a psychiatrist	
90846, 90847)		Drug test(s), presumptive	80305-7, G0477-9		
30040, 30047)		Drug test(s), definitive	G0480-3		
		* Same set of services as for Psychotherapy, 30/4			
Group psychotherapy		Family psychotherapy, including/not including patie	ent, 50 min, with addi	tion of:	
(CPT 90853)	Outpatient	Group psychotherapy other than of a multiple-			
(CF 1 90055)		family group, in a partial hospitalization setting,	G0410		
		approximately 45 to 50 minutes			
New patient office or		Facility fee			
other outpatient visit,		Hospital outpatient clinic visit for assessment and	G0463		
typically 30/45/60 min	Outpatient	management of a patient			
(CPT 99203, 99204,		* "New patient office or other outpatient visit" is a b			
99205)		accompanied by various other procedures and ser	vices depending on t	he purpose of the visit.	
Patient office consultation, typically 40/60 min (CPT 99243, 99244)	Outpatient	Facility fee			
		Facility fee			
		Collection of venous blood by venipuncture	36415		
		Collection of capillary blood specimen	36416		
Initial new patient		Laboratory & pathology services	8xxxx		
preventive medicine	Outpotiont	Immunization administration	90471-4		
evaluation, 18-39	Outpatient	Vaccines	90476-749		
years (CPT 99385)		Electrocardiogram, routine ECG	93000-5, G0403-5		
		Brief emotional/behavioral assessment	96127		
		Handling and/or conveyance of specimen for transfer to a laboratory	99000-1		

Primary shoppable	Setting	Ancillary service included in package if billed	Procedure code	Service-specific	Package-specific
service	<u> </u>	together with the primary shoppable service  Administration of influenza		inclusion criteria	exclusion criteria
			G0008-10		
		virus/pneumococcal/hepatitis B vaccine	G0101		
		Cervical or vaginal cancer screening			
		Screening cytopathology	G0123-4, G0141- 7		
		Annual alcohol misuse screening	G0442		
		Annual depression screening	G0444		
		Hospital outpatient clinic visit for assessment and management of a patient	G0463		
		HIV antigen/antibody screening	G0475		
		HPV for cervical cancer screening	G0476		
		Screening papanicolaou smear	Q0091		
Initial new patient preventive medicine	Outpatient	* same set of services as for Initial new patient pre with addition of:	ventive medicine eva	aluation (18-39 years),	
evaluation, 40-64 years (CPT 99386)	Carpanoni	Prostate cancer screening	G0102-3		
		LABORATORY & PATHOLOG	GY		
All proposed shoppable laboratory & pathology services (CPT 80048, 80053, 80055, 80061, 80069, 80076, 81000, 81001,	Outpatient	Facility fee		Only if service was delivered at a hospital that bills for a facility fee for laboratory & pathology services alone	Collection of venous blood by venipuncture not billed (e.g., blood was collected through a port –
81002, 81003, 84153, 84154, 84443, 85025, 85027, 85610, 85730)		Collection of venous blood by venipuncture	36415		an indication of a complex health care encounter)
		RADIOLOGY			
CT scan, head or brain, without contrast (CPT 70450); X-Ray, lower back, minimum four views (CPT 72110); Ultrasound of abdomen (CPT 76700); Abdominal ultrasound of pregnant	Outpatient	Facility fee		Only if service was delivered at a hospital that bills for a facility fee for radiology services alone	

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
uterus, greater or equal to 14 weeks 0					
days, single or first					
fetus (CPT 76805);					
Ultrasound pelvis					
through vagina (CPT 76830);					
Mammography of one					
breast/both breasts					
(CPT 77065, 77066);					
Mammography,					
screening, bilateral (CPT 77067)					
(01 1 7 7 00 7 )				Only if service was	
		Facility fee		delivered at a hospital	
MRI scan of brain	Outpatient			that bills for a facility	
before and after				fee for radiology	
contrast (CPT 70553)		Anesthesia for non-invasive imaging	01922	services alone	-
		Contrast material	A95xx, Q9958-67		-
			, .,	Only if service was	
MRI scan of lower				delivered at a hospital	
spinal canal (CPT	Outpatient	Facility fee		that bills for a facility	
72148); MRI scan of leg joint (CPT 73721)				fee for radiology services alone	
109 journ (01 1 70721)		Anesthesia for non-invasive imaging	01922	COLVIDOR GIOTIC	-
CT scan, pelvis, with				Only if service was	
contrast (CPT 72193);		Facility (car		delivered at a hospital	
CT scan of abdomen	Outpatient	Facility fee		that bills for a facility fee for radiology	
and pelvis with				services alone	
contrast (CPT 74177)		Contrast material	Q9958-67		<u> </u>
		Medicine & Surgery			1
Cardiac valve and other major	Inpatient	All services billed during inpatient stay			
cardiothoracic	пранен	All services billed during inpatient stay			

Primary shoppable service	Setting	Ancillary service included in package <u>if billed</u> together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
procedures with cardiac catheterization with major complications or comorbidities (DRG 216)					
Spinal fusion except cervical without major comorbid conditions or complications (DRG 460)	Inpatient	All services billed during inpatient stay			
Major joint replacement or reattachment of lower extremity without major comorbid conditions or complications (DRG 470)	Inpatient	All services billed during inpatient stay			
Cervical spinal fusion without comorbid conditions or major comorbid conditions or complications (DRG 473)	Inpatient	All services billed during inpatient stay			
Uterine and adnexa procedures for non-malignancy without comorbid conditions or major comorbid conditions or complications (DRG 743)	Inpatient	All services billed during inpatient stay			
	Outpatient	Facility fee			

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
Removal of 1 or more		Anesthesia for procedures on the integumentary			
breast growth, open		system on the extremities, anterior trunk and	00400, 00402		
procedure (CPT		perineum	·		
19120)		Excision, benign lesion including margins, except			
		skin tag (unless listed elsewhere), trunk, arms or	11400-6		
		legs			
		Repair, intermediate, wounds of scalp, axillae,	12032		
		trunk and/or extremities; 2.6 cm to 7.5 cm	12032		
		Adjacent Tissue Transfer or Rearrangement	14000-21		
		Placement of breast localization device(s),	19281, 19285		
		percutaneous; first lesion	ŕ		
		Revision of reconstructed breast	19380		
		Collection of venous blood by venipuncture	36415		
		Biopsy or excision of lymph node(s); open deep axillary node(s)	38525		
		Injection procedure; lymphangiography; radioactive tracer for identification of sentinel node	38792		
		Intraoperative identification (eg, mapping) of			=
		sentinel lymph node(s) includes injection of non-	38900		
		radioactive dye, when performed			
		Radiological examination, surgical specimen	76098		
		Ultrasound, breast, unilateral, real time with image documentation; limited	76642		
		Ultrasonic guidance, intraoperative	76998		
		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Injection, bupivacaine liposome	C9290		
		Drugs administered other than oral method	Jxxxx		
		Injection, non-radioactive, non-contrast,	00000		
		visualization adjunct	Q9968		
		Injection, bupivicaine hydrochloride	S0020		
Shaving of shoulder		Facility fee			
bone using an	Outpotiont	Anesthesia for all procedures on nerves,			
arthroscope (CPT 29826)	Outpatient	muscles, tendons, fascia, and bursae of shoulder and axilla	01610		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Anesthesia for diagnostic arthroscopic procedures of shoulder joint	01622		
		Anesthesia for open or surgical arthroscopic procedures on humeral head and neck, sternoclavicular joint, acromioclavicular joint, and shoulder joint	01630		
		Arthroscopy, shoulder, surgical	29806-25, 27, 28		
		Collection of venous blood by venipuncture	36415		
		Injection, anesthetic agent; brachial plexus, single	64415		
		Injection, anesthetic agent; trigeminal nerve; brachial plexus, continuous infusion by catheter	64416		
		Ultrasonic guidance for needle placement (eg, biopsy, aspiration, injection, localization device), imaging supervision and interpretation	76942		
		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Anchor/screw for opposing bone-to-bone or soft tissue-to-bone (implantable);	C1713		
		Injection, bupivacaine liposome	C9290		
		Drugs administered other than oral method	Jxxxx		
		Shoulder orthosis, prefabricated, off-the-shelf	L3650-78		
		Shoulder elbow wrist hand orthosis, abduction positioning, airplane design, prefabricated, includes fitting and adjustment	L3960		
		Injection, bupivicaine hydrochloride	S0020		
		Facility fee			
Removal of one knee		Anesthesia for all procedures on nerves, muscles, tendons, fascia, and bursae of shoulder and axilla	01610		
cartilage using an endoscope (CPT	Outpatient	Anesthesia for diagnostic arthroscopic procedures of shoulder joint	01622		
29881)		Anesthesia for open or surgical arthroscopic procedures on humeral head and neck, sternoclavicular joint, acromioclavicular joint, and shoulder joint	01630		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Arthroscopy, shoulder, surgical	29806-25, 27, 28		
		Collection of venous blood by venipuncture	36415		1
		Injection, anesthetic agent; brachial plexus, single	64415		
		Injection, anesthetic agent; trigeminal nerve; brachial plexus, continuous infusion by catheter	64416		
		Ultrasonic guidance for needle placement (eg, biopsy, aspiration, injection, localization device), imaging supervision and interpretation	76942		
		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Anchor/screw for opposing bone-to-bone or soft tissue-to-bone (implantable);	C1713		
		Injection, bupivacaine liposome	C9290		
		Drugs administered other than oral method	Jxxxx		
		Shoulder orthosis, prefabricated, off-the-shelf	L3650-78		
		Shoulder elbow wrist hand orthosis, abduction positioning, airplane design, prefabricated, includes fitting and adjustment	L3960		
		Injection, bupivicaine hydrochloride	S0020		
		Facility fee	00000		
		Anesthesia for intraoral procedures, including biopsy	00170		
Removal of tonsils and adenoid glands patient		Ablation, soft tissue of inferior turbinates, unilateral or bilateral, any method; intramural (i.e., submucosal)	30802		
younger than age 12	Outpatient	Collection of venous blood by venipuncture	36415		
(CPT 42820)		Laboratory & pathology services	8xxxx		
,		Initial observation care, per day	99218-20		
		Surgical supply; miscellaneous	A4649		
		Hospital observation	G0378		1
		Drugs administered other than oral method	Jxxxx		
Diagnostic		Facility fee			
examination of esophagus, stomach,	Outpatient	Anesthesia for procedures on the upper abdomen	00731		
and/or upper small		Laboratory & pathology services	8xxxx		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
bowel using an endoscope (CPT 43235)		Esophagus, gastroesophageal reflux test; with mucosal attached telemetry pH electrode placement	91035		
,		Moderate sedation services	99152		
		Moderate sedation services	G0500		
		Drugs administered other than oral method	Jxxxx		
Biopsy of the esophagus, stomach,		* same set of services as for Diagnostic examination small bowel using an endoscope, with addition of:	on of esophagus, stor	mach, and/or upper	
and/or upper small bowel using an endoscope (CPT 43239)	Outpatient	Diagnostic examination of esophagus, stomach, and/or upper small bowel using an endoscope	43235		
		Facility fee			
Diagnostic	Outpatient	Anesthesia for procedures on the lower abdomen	00811-3		
examination of large		Anesthesia for anorectal procedure	00902		
bowel using an endoscope (CPT		Laboratory & pathology services	8xxxx		
45378)		Moderate sedation services	99152		
45576)		Moderate sedation services	G0500		
		Drugs administered other than oral method	Jxxxx		
Biopsy of large bowel using an endoscope	Outpatient	* same set of services as for Diagnostic examination addition of:	on of large bowel usin	ng an endoscope, with	
(CPT 45380)	Outpatient	Diagnostic examination of large bowel using an endoscope	45378		
Removal of polyps or growths of large bowel using an endoscope (CPT 45385)	Outpatient	* same set of services as for Biopsy of large bowe	l using an endoscope		
,		Facility fee			
Ultrasound examination of lower		Anesthesia for procedures on the lower abdomen	00811-3		
large bowel using an	Outpatient	Anesthesia for anorectal procedure	00902		
endoscope (CPT		Moderate sedation services	99152		
45391)		Moderate sedation services	G0500		
		Drugs administered other than oral method	Jxxxx		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
	Inpatient	All services billed during inpatient stay			DRG other than 419 – Laparoscopic cholecystectomy without common bile duct exploration without complication, comorbidity or major complication or comorbidity
		Anesthesia for intraperitoneal procedures in upper abdomen including laparoscopy	00790		
		Collection of venous blood by venipuncture	36415		
Removal of gallbladder using an		Transversus abdominis plane (TAP) block (abdominal plane block, rectus sheath block) bilateral; by injections	64488		
endoscope (CPT 47562)		Ultrasound, abdominal, real time with image documentation; limited	76705		
17002)		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Intravenous infusion, hydration	96360-1		
	Outpatient	Intravenous infusion, for therapy, prophylaxis, or diagnosis	96365-8		
		Intravenous push, single or initial substance/drug	96374-6		
		Initial observation care, per day	99218-20		
		Injection, pantoprazole sodium	C9113		
		Injection, bupivacaine liposome	C9290		
		Hospital observation	G0378		1
		Drugs administered other than oral method	Jxxxx		1
		Injection, bupivicaine hydrochloride	S0020		
		Injection, famotidine	S0028		7
		Surgical techniques requiring use of robotic surgical system	S2900		
	Outpotions	Facility fee			
	Outpatient	Anesthesia for hernia repairs in lower abdomen	00830		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Anesthesia for intraperitoneal procedures in	00840		
		lower abdomen including laparoscopy	00445		
		Collection of venous blood by venipuncture	36415		
		Transversus abdominis plane (TAP) block (abdominal plane block, rectus sheath block) unilateral; by injection	64486		
Repair of groin hernia patient age 5 years or older (CPT 49505)		Transversus abdominis plane (TAP) block (abdominal plane block, rectus sheath block) bilateral; by injections	64488		
, , ,		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Mesh (implantable)	C1781		
		Injection, bupivacaine liposome	C9290		
		Drugs administered other than oral method	Jxxxx		
		Injection, bupivicaine hydrochloride	S0020		
		Facility fee			
		Anesthesia for procedures on the integumentary system on the extremities, anterior trunk and perineum	00400		
		Anesthesia for; anorectal procedure	00902		1
		Anesthesia for transurethral procedures	00910		1
		Collection of venous blood by venipuncture	36415		1
		Injection, anesthetic agent; other peripheral nerve or branch	64450		
Dianay of proototo		3D rendering with interpretation and reporting	76377		
Biopsy of prostate gland (CPT 55700)	Outpatient	Ultrasound, transrectal	76872		
giand (CFT 55700)		Ultrasonic guidance for needle placement	76942		
		Ultrasonic guidance, intraoperative	76988		
		Laboratory & pathology services	8xxxx		
		Electrocardiogram, routine ECG; tracing only	93005		
		Therapeutic, prophylactic, or diagnostic injection; subcutaneous or intramuscular	96372		
		Moderate sedation services	99152		
		Surgical pathology, gross and microscopic examinations, for prostate needle biopsy, any method	G0416		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Drugs administered other than oral method	Jxxxx		
	Inpatient	All services billed during inpatient stay			DRG other than 708 – Major male pelvic procedures without complication, comorbidity or major complication or comorbidity; or concurrent cystectomy: 51570-96 also billed
		Facility fee			
		Collection of venous blood by venipuncture	36415		
Surgical removal of		Laparoscopy, surgical; with retroperitoneal lymph node sampling (biopsy), single or multiple	38570		
prostate and surrounding lymph		Laparoscopy, surgical; with bilateral total pelvic lymphadenectomy	38571		
nodes using an endoscope (CPT 55866)		Transversus abdominis plane (TAP) block (abdominal plane block, rectus sheath block) bilateral; by injections	64488		
		Laboratory & pathology services	8xxxx		Compositions
		Electrocardiogram, routine ECG; tracing only	93005		Concurrent
	Outpatient	Noninvasive ear or pulse oximetry for oxygen saturation;	94760-1		cystectomy: 51570-96 also
		Intravenous infusion, hydration	96360-1		billed
		Intravenous infusion, for therapy, prophylaxis, or diagnosis	96365-8		
		Intravenous push, single or initial substance/drug	96374-6		
		Initial observation care, per day	99218-20		
		Catheter, drainage	C1729		
		Catheter, ureteral	C1758		
		Closure device, vascular	C1760		
		Connective tissue, human	C1762		7
		Guide wire	C1769		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Mesh (implantable)	C1781		
		Port, indwelling (implantable)	C1788		
		Injection, pantoprazole sodium	C9113		
		Injection, bupivacaine liposome	C9290		
		Hospital observation	G0378		
		Drugs administered other than oral method	Jxxxx		
		Infusion, albumin (human), 5%	P9045		
		Injection, bupivicaine hydrochloride	S0020		
		Surgical techniques requiring use of robotic surgical system	S2900		
		Amniotic membrane for surgical reconstruction	V2790		
Routine obstetric care for vaginal delivery, including pre-and post-delivery care (CPT 59400)	Inpatient	All services billed during inpatient stay			DRG other than 775 – Vaginal delivery without complicating diagnoses; or indication of cesarean delivery: 59510-622 also billed
Routine obstetric care for cesarean delivery, including pre-and post-delivery care (CPT 59510)	Inpatient	All services billed during inpatient stay			DRG other than 766 – Cesarean section without complication, comorbidity or major complication or comorbidity
Routine obstetric care for vaginal delivery after prior cesarean delivery including pre- and post-delivery care (CPT 59610)	Inpatient	All services billed during inpatient stay			DRG other than 775 – Vaginal delivery without complicating diagnoses; or indication of cesarean delivery: 59510-5 also billed
	Outpatient	Facility fee			

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Anesthesia for non-invasive imaging	01922		
		Anesthesia for percutaneous image guided procedures on the spine and spinal cord; therapeutic	01936		
		Radiologic examination, spine, single view	72020		
		Radiologic examination, spine, lumbosacral; 2 or 3 views	72100		
Injection of substance		Epidurography, radiological supervision and interpretation	72275		
into spinal canal of lower back or sacrum		Fluoroscopic guidance and localization of needle or catheter tip for spine	77003		
using imaging guidance (CPT 62322,		Moderate sedation services	99152		
62323)		Office or other outpatient visit for the evaluation and management of a new patient	99201-5		
		Office or other outpatient visit for the evaluation and management of an established patient	99211-5		
		Catheter, intraspinal	C1755		
		Hospital outpatient clinic visit for assessment and management of a patient	G0463		
		Drugs administered other than oral method	Jxxxx		
		Low osmolar contrast material	Q9965-7		
		Facility fee			
		Anesthesia for percutaneous image guided procedures on the spine and spinal cord; therapeutic	01936		
Injections of anesthetic and/or		Anesthesia for diagnostic or therapeutic nerve blocks and injections, prone position	01992		
steroid drug into lower	Outpotiont	Radiologic examination, spine, single view	72020		
or sacral spine nerve root using imaging	Outpatient	Radiologic examination, spine, lumbosacral; 2 or 3 views	72100		
guidance (CPT 64483)	Epidurography, radiolo interpretation  Fluoroscopic guidance	Epidurography, radiological supervision and interpretation	72275		
		Fluoroscopic guidance and localization of needle or catheter tip for spine	77003		
		Moderate sedation services	99152		

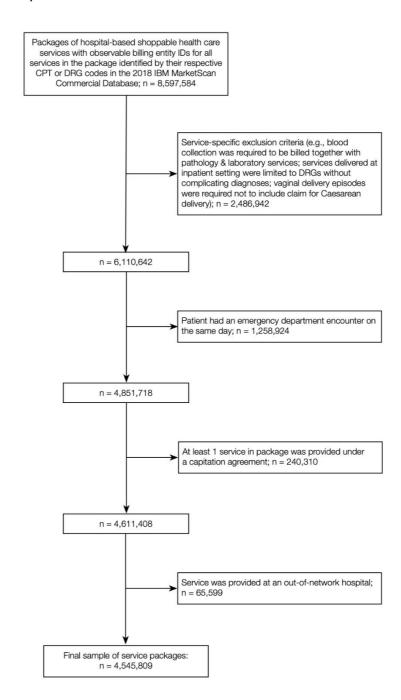
Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Office or other outpatient visit for the evaluation and management of a new patient	99201-5		
		Office or other outpatient visit for the evaluation and management of an established patient	99211-5		
		Hospital outpatient clinic visit for assessment and management of a patient	G0463		
		Drugs administered other than oral method	Jxxxx		
		Low osmolar contrast material	Q9965-7		
		Injection, bupivicaine hydrochloride	S0020		
		Facility fee			
Pomoval of requiring		Scanning computerized ophthalmic diagnostic imaging, posterior segment, with interpretation and report; optic nerve	92134		
Removal of recurring cataract in lens capsule using laser	lens ing laser 1)  Outpatient diag Offic and Hosp	Ophthalmological services: medical examination and evaluation, with initiation or continuation of diagnostic and treatment program	92002, 92004, 92012, 92014		
(CPT 66821)		Office or other outpatient visit for the evaluation and management of an established patient	99211-5		
		Hospital outpatient clinic visit for assessment and management of a patient	G0463		
		Facility fee			
		Anesthesia for procedures on eye; lens surgery	00140-00145		
		Ophthalmic biometry by ultrasound echography; with intraocular lens power calculation	76519		
Removal of cataract		Ophthalmic biometry by partial coherence interferometry with intraocular lens power calculation			
with insertion of lens	Outpatient	Lens, intraocular (new technology)	C1780		
(CPT 66984)	Ocular implant, aqueous drainage assist device Drugs administered other than oral method Posterior chamber intraocular lens Astigmatism correcting function of intraocular lens		C1783		
			Jxxxx		7
		V2632			
		"	V2787		
		Presbyopia correcting function of intraocular lens	V2788		
Electrocardiogram, routine, with	Outpatient	Facility fee			

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
interpretation and report (CPT 93000)					
		Facility fee  Anesthesia for cardiac catheterization including coronary angiography and ventriculography	01920		
		Collection of venous blood by venipuncture	36415		
		Laboratory & pathology services  Electrocardiogram, routine ECG; tracing only	8 <i>xxxx</i> 93005		4
Insertion of catheter		Injection procedure during cardiac catheterization including imaging supervision; for supravalvular aortography	93567		_
into left heart for	0 (2.2)	Moderate sedation services	99152		
diagnosis (CPT	Outpatient	Catheter, intravascular ultrasound	C1753		
93452)		Drug wire	C1769		
,		Catheter, guiding	C1887		
		Introducer/sheath, other than guiding, other than intracardiac electrophysiological	C1894		
		Percutaneous transcatheter placement of drug eluting intracoronary stent(s)	C9600		
		Hospital observation	G0378		
		Drugs administered other than oral method	Jxxxx		
		Low osmolar contrast material	Q9967		
		Facility fee			
		Multiple sleep latency or maintenance of wakefulness testing, recording, analysis and interpretation	95805		
Sleep study (CPT 95810)	Outpatient	Office or other outpatient visit for the evaluation and management of a new patient	99201-5		
•		Office or other outpatient visit for the evaluation and management of an established patient	99211-5		
		Hospital outpatient clinic visit for assessment and management of a patient	G0463		
Physical therapy,		Facility fee			
therapeutic exercise (CPT 97110)	Outpatient	Application of a modality to 1 or more areas; hot or cold packs	97010-6		

Primary shoppable service	Setting	Ancillary service included in package if billed together with the primary shoppable service	Procedure code	Service-specific inclusion criteria	Package-specific exclusion criteria
		Application of a modality to 1 or more areas; ultrasound	97035		
		Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities	97112		
		Manual therapy techniques	97140		
		Physical therapy evaluation	97161-2		
		Therapeutic activities, direct (one-on-one) patient contact	97530		
		Electrical stimulation (unattended), to one or more areas for indication(s) other than wound care, as part of a therapy plan of care	G0283		

Notes: CPT, Current Procedural Terminology; DRG, Diagnosis-related group.

eFigure 1. Flowchart of Sample Inclusion and Exclusion Criteria



**Notes:** All 70 "shoppable" services proposed by the Centers for Medicare & Medicaid Services combined.

eTable 2. Flowchart of Sample Inclusion and Exclusion Criteria by Service

	Sample size							
Shoppable service	(1) Hospital- based care with observable billing entity IDs	(2) Package- specific exclusions *	(3) Non- emergency	(4) Non- capitated	(5) In-network hospital			
EVALUATION & MANAGEMENT								
Psychotherapy, 30 min	9,018	9,018	8,952	8,111	7,126			
Psychotherapy, 45 min	44,331	44,331	44,214	42,097	37,475			
Psychotherapy, 60 min	18,427	18,427	18,369	17,229	14,940			
Family psychotherapy, not including patient, 50 min	1,093	1,093	1,085	1,056	849			
Family psychotherapy, including patient, 50 min	4,839	4,839	4,819	4,641	4,074			
Group psychotherapy	85,196	85,196	84,962	80,983	69,840			
New patient office or other outpatient visit, typically 30 min	15,585	15,585	14,503	12,563	12,038			
New patient office of other outpatient visit, typically 45 min	10,786	10,786	10,310	8,516	8,204			
New patient office of other outpatient visit, typically 60 min	4,483	4,483	4,280	3,842	3,682			
Patient office consultation, typically 40 min	1,400	1,400	1,385	1,325	1,204			
Patient office consultation, typically 60 min	1,503	1,503	1,490	1,421	1,365			
Initial new patient preventive medicine evaluation (18-39 years)	960	960	959	913	885			
Initial new patient preventive medicine evaluation (40-64 years)	655	655	654	632	605			
	LABO	RATORY & PATH	IOLOGY					
Basic metabolic panel	488,178	272,043	170,540	156,048	154,801			
Blood test, comprehensive group of blood chemicals	1,285,020	799,610	582,264	547,507	542,383			
Obstetric blood test panel	2,509	2,019	2,002	1,906	1,880			
Blood test, lipids (cholesterol and triglycerides)	553,780	415,667	402,910	384,367	381,804			
Kidney function panel test	20,357	13,768	12,582	11,844	11,666			
Liver function blood test panel	138,358	73,727	46,879	44,333	43,972			

	Sample size					
Shoppable service	(1) Hospital- based care with observable billing entity IDs	(2) Package- specific exclusions *	(3) Non- emergency	(4) Non- capitated	(5) In-network hospital	
Manual urinalysis test with examination using microscope	444,413	192,361	87,567	80,264	79,415	
Automated urinalysis test	278,635	108,014	48,115	42,677	42,215	
PSA (prostate specific antigen)	79,909	56,902	56,659	54,232	53,810	
Blood test, thyroid stimulating hormone (TSH)	492,189	359,758	332,483	315,369	313,096	
Complete blood cell count, with differential white blood cells, automated	1,433,785	856,990	557,362	521,210	515,839	
Complete blood count, automated	411,063	221,654	179,949	165,433	164,160	
Blood test, clotting time	288,222	147,855	86,624	77,005	76,115	
Coagulation assessment blood test	157,760	87,887	42,879	37,036	36,616	
		RADIOLOGY				
CT scan, head or brain, without contrast	112,963	112,963	9,635	9,322	9,144	
MRI scan of brain before and after contrast	43,808	43,808	38,887	38,258	37,334	
X-Ray, lower back, minimum four views	20,610	20,610	17,197	16,741	16,570	
MRI scan of lower spinal canal	31,135	31,135	28,802	28,204	27,892	
CT scan, pelvis, with contrast	1,795	1,795	896	870	832	
MRI scan of leg joint	36,556	36,556	36,150	35,570	35,210	
CT scan of abdomen and pelvis with contrast	147,238	147,238	51,028	49,837	47,555	
Ultrasound of abdomen	41,870	41,870	35,641	34,794	34,430	
Abdominal ultrasound of pregnant uterus (greater or equal to 14 weeks 0 days) single or first fetus	19,375	19,375	17,460	17,044	16,724	
Ultrasound pelvis through vagina	70,085	70,085	51,518	50,339	49,759	
Mammography of one breast	62,256	62,256	62,146	58,500	57,892	
Mammography of both breasts	52,260	52,260	52,168	50,875	50,226	
Mammography, screening, bilateral	431,493	431,493	430,836	421,853	418,328	
	Mi	EDICINE & SURG	ERY			
Cardiac valve and other major cardiothoracic	110	110	23	23	22	

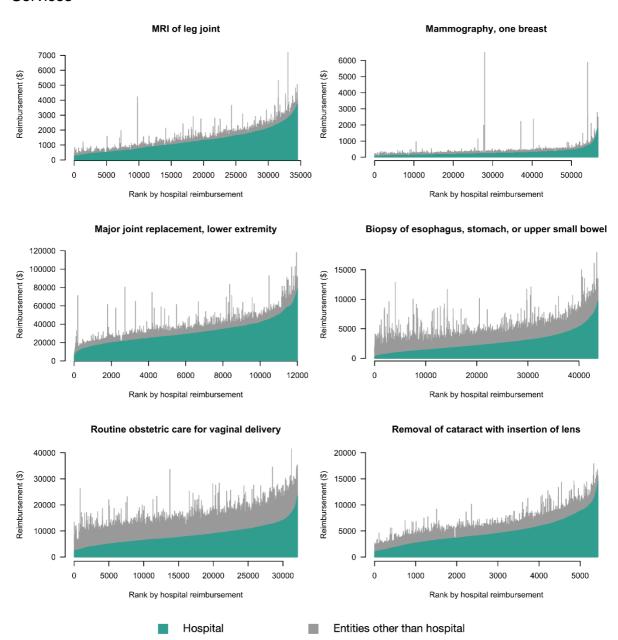
			Sample size		
Shoppable service	(1) Hospital- based care with observable billing entity IDs	(2) Package- specific exclusions *	(3) Non- emergency	(4) Non- capitated	(5) In-network hospital
procedures with cardiac catheterization with major complications or comorbidities					
Spinal fusion except cervical without major comorbid conditions or complications	2,273	2,273	2,152	2,132	2,072
Major joint replacement or reattachment of lower extremity without major comorbid conditions or complications	12,910	12,910	12,716	12,556	12,257
Cervical spinal fusion without comorbid conditions or major comorbid conditions or complications	832	832	779	762	726
Uterine and adnexa procedures for non-malignancy without comorbid conditions or major comorbid conditions or complications	2,877	2,877	2,767	2,718	2,663
Removal of 1 or more breast growth, open procedure	1,663	1,663	1,653	1,633	1,611
Shaving of shoulder bone using an endoscope	4,506	4,506	4,482	4,428	4,376
Removal of one knee cartilage using an endoscope	7,381	7,381	7,351	7,090	6,974
Removal of tonsils and adenoid glands patient younger than age 12	4,268	4,268	4,237	4,182	4,131
Diagnostic examination of esophagus, stomach, and/or upper small bowel using an endoscope	7,316	7,316	6,784	6,556	6,403
Biopsy of the esophagus, stomach, and/or upper small bowel using an endoscope	48,766	48,766	46,924	45,607	44,596
Diagnostic examination of large bowel using an endoscope	28,100	28,100	27,833	27,453	26,889
Biopsy of large bowel using an endoscope	44,035	44,035	43,627	42,621	41,672

			Sample size		
Shoppable service	(1) Hospital- based care with observable billing entity IDs	(2) Package- specific exclusions *	(3) Non- emergency	(4) Non- capitated	(5) In-network hospital
Removal of polyps or growths of large bowel using an endoscope	28,419	28,419	28,224	27,594	27,131
Ultrasound examination of lower large bowel using an endoscope	53	53	53	50	43
Removal of gallbladder using an endoscope	12,715	10,984	8,717	8,623	8,487
Repair of groin hernia patient age 5 years or older	2,631	2,631	2,609	2,578	2,546
Biopsy of prostate gland	1,366	1,366	1,356	1,349	1,277
Surgical removal of prostate and surrounding lymph nodes using an endoscope	1,365	1,110	1,105	1,099	1,046
Routine obstetric care for vaginal delivery, including pre-and post-delivery care	46,616	38,615	33,611	33,316	32,753
Routine obstetric care for cesarean delivery, including pre-and post-delivery care	23,470	12,656	11,706	11,592	11,391
Routine obstetric care for vaginal delivery after prior cesarean delivery including pre-and post-delivery care	1,203	985	834	828	815
Injection of substance into spinal canal of lower back or sacrum using imaging guidance	8,545	8,545	8,452	8,249	8,076
Injections of anesthetic and/or steroid drug into lower or sacral spine nerve root using imaging guidance	8,986	8,986	8,922	8,643	8,384
Removal of recurring cataract in lens capsule using laser	450	450	450	440	433
Removal of cataract with insertion of lens	5,716	5,716	5,707	5,634	5,544
Electrocardiogram, routine, with interpretation and report	5,459	5,459	1,709	1,555	1,495
Insertion of catheter into left heart for diagnosis	57	57	48	46	45
Sleep study	13,153	13,153	13,138	12,888	12,768

	Sample size						
Shoppable service	(1) Hospital- based care with observable billing entity IDs	(2) Package- specific exclusions *	(3) Non- emergency	(4) Non- capitated	(5) In-network hospital		
Physical therapy, therapeutic exercise	928,445	928,445	926,588	894,396	887,228		

Notes: Package-specific exclusions are described in eTable 1.

**eFigure 2.** Total Reimbursement for Service Packages Ranked by the Portion of Reimbursement Billed by the Hospital for Selected Common Shoppable Health Care Services



Notes: For better image quality, service packages with hospital reimbursement in the 1st and 99th percentiles were excluded from the visualizations.