



Experimental/Investigational /Unproven Utilization Review Guideline

Guideline No: UR-015

UTILIZATION REVIEW GUIDELINE

Utilization Review Guideline: UR-015

Applicable Plans	All Student Health Insurance Plans (SHIP) insured by Wellfleet Insurance Company that include Utilization Review.
Purpose	The purpose of this guideline is to describe how Utilization Review for Experimental/Investigational/Unproven (E/I/U) coding should be performed by Wellfleet Utilization Review delegates. This document is intended to: 1. Provide Wellfleet's definition of E/I/U. 2. Delineate which services fall under E/I/U. 3. Describe Wellfleet's Utilization Review policy for claims determined by Wellfleet to fall within the category of E/I/U.
Scope	This policy applies to utilization review processes for providers/facilities billing applicable services by the CPT/HCPCS codes listed in Attachment A.
Definition	Experimental/Investigational/Unproven (E/I/U) services are medical procedures, equipment, medications, and cosmetic procedures that are not medically necessary and are not covered. These services are considered experimental and investigational if they meet any of the following criteria: - o The service does not have unrestricted market approval from the Food and Drug Administration (FDA) or final approval from any other governmental regulatory body. - o There is insufficient or inconclusive medical and scientific evidence to evaluate the service's therapeutic value. - o The service is not medically necessary, and there is a safe and medically accepted alternative available. The service is a medical device established by the FDA as Category A, which is generally not covered because its safety and effectiveness have not yet been established.
Guideline	1. Wellfleet limits coverage to services/supplies that are proven safe, efficacious, and comparable or superior to conventional services/supplies. Any service/supply that falls under the E/I/U definition above is not a covered benefit.



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2. Attachment A: Experimental/Investigational/Unproven Code List includes codes that may be considered E/I/U. Wellfleet will utilize a contracted Internal Review Organization (IRO) with URAC certification to perform utilization reviews to determine if the service is considered E/I/U. Wellfleet will apply the IRO recommendation/determination to the claim payment decision.
3. Wellfleet's Experimental/Investigational/Unproven Code List is not exhaustive. Codes that are not present on the E/I/U list may be new and may not yet have been assigned a CPT/HCPCS code. Additionally, an unlisted code may be E/I/U; refer to the Unlisted Codes Payment Guideline. Wellfleet has the right to subject additional codes to utilization review for E/I/U.

Change History

Version	Effective Date	Next Review Date
1.0	1/1/2019	1/1/2020
1.0 (no changes)	1/1/2019	9/1/2020
2.0	9/1/2020	9/1/2021
3.0	10/1/2021	10/1/2022
4.0	9/1/2022	9/1/2023
5.0	9/1/2023	9/2/2024
6.0	11/1/2024	8/1/2025
7.0	8/1/2025	6/1/2026
8.0 Changed from Wellfleet Payment Guideline to Utilization Review Guideline; Updated Code List	8/1/2026	6/1/2027

Original Effective Date: 1/1/2019



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Attachment A: Experimental/Investigational/Unproven Code List for 2026

Wellfleet Insurance Company Experimental, Investigational, Unproven Code List.

CPT/HCPCS Code	Description
36837	Percutaneous arteriovenous fistula creation, upper extremity, separate access sites of the peripheral artery and peripheral vein, including fistula maturation procedures when performed, including all vascular access, imaging guidance and radiologic supervision and interpretation
64628	Percutaneous arteriovenous fistula creation, upper extremity, separate access sites of the peripheral artery and peripheral vein, including fistula maturation procedures when performed, including all vascular access, imaging guidance and radiologic supervision and interpretation
64629	Thermal destruction of intraosseous basivertebral nerve, including all imaging guidance; first 2 vertebral bodies, lumbar or sacral
81225	CYP2C19 gene analysis, common variants
81229	Cytogenomic genome-wide analysis for constitutional chromosomal abnormalities; copy number and SNP variants, comparative genomic hybridization microarray analysis
81230	CYP3A4 gene analysis, common variants
81231	CYP3A5 gene analysis, common variants
81265	Comparative analysis using Short Tandem Repeat markers; patient and comparative specimen
81266	Comparative analysis using Short Tandem Repeat markers; each additional specimen
81283	IFNL3 gene analysis, rs12979860 variant
81291	MTHFR gene analysis, common variants
81346	TYMS gene analysis, common variants
81354	Cytogenomic genome-wide analysis for constitutional chromosomal abnormalities; optical genome mapping
81355	VKORC1 gene analysis, common variants
81400	Molecular pathology procedure, Level 1
81401	Molecular pathology procedure, Level 2
81405	Molecular pathology procedure, Level 6
81408	Molecular pathology procedure, Level 9
81418	Drug metabolism genomic sequence analysis panel
81490	Autoimmune rheumatoid arthritis biomarker analysis, prognostic algorithm reported as disease activity score
81500	Oncology ovarian, biochemical assays of two proteins, utilizing serum, with menopausal status, algorithm reported as a risk score

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81504	Oncology tissue of origin, microarray gene expression profiling of more than 2000 genes, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as tissue similarity scores
81524	Oncology central nervous system tumor, DNA methylation analysis of at least 10,000 methylation sites, algorithm reported as probability of matching a reference tumor family and class
82397	Chemiluminescent assay
83520	Immunoassay for analyte other than infectious agent antibody or antigen; quantitative, not otherwise specified
84112	Thermal destruction of intraosseous basivertebral nerve, including all imaging guidance; each additional vertebral body, lumbar or sacral
85415	Fibrinolytic factors and inhibitors; plasminogen activator
86152	Cell enumeration using immunologic selection and identification in fluid specimen
86153	Cell enumeration using immunologic selection and identification in fluid specimen; physician interpretation and report, when required
87481	Infectious agent detection by nucleic acid; Candida species, amplified probe technique
87798	Infectious agent detection by nucleic acid, not otherwise specified; amplified probe technique, each organism
0848T	Digitization of glass microscope slides for in situ hybridization, per specimen; initial single probe stain procedure
0005U	Oncology prostate gene expression profile by real-time RT-PCR of 3 genes, urine, algorithm reported as risk score
0007M	Oncology gastrointestinal neuroendocrine tumors, real-time PCR expression analysis of 51 genes, whole peripheral blood, algorithm reported as tumor disease index
0009U	Oncology breast cancer, ERBB2 copy number by FISH, reported as amplified or non-amplified
0016M	Oncology bladder, mRNA microarray gene expression profiling of 219 genes, algorithm reported as molecular subtype
0017M	Oncology diffuse large B-cell lymphoma, mRNA gene expression profiling of 20 genes, algorithm reported as cell of origin
0019U	Oncology RNA gene expression by whole transcriptome sequencing, predictive algorithm reported as potential therapeutic targets
0029U	Drug metabolism targeted sequence analysis including CYP and related genes
0031U	CYP1A2 gene analysis, common variants
0032U	COMT gene analysis, c.472G>A variant
0055U	Cardiology heart transplant, cell-free DNA PCR assay of 96 DNA target

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	sequences, plasma
0060U	Twin zygosity genomic-targeted sequence analysis using circulating cell-free fetal DNA in maternal blood
0067U	Oncology breast immunohistochemistry protein expression profiling of 4 biomarkers, algorithm reported as carcinoma risk score
0069U	Oncology colorectal microRNA RT-PCR expression profiling, algorithm reported as expression score
0079U	Comparative DNA analysis using selected SNPs, urine and buccal DNA, for specimen identity verification
0090U	Oncology cutaneous melanoma mRNA gene expression profiling, algorithm reported as benign, intermediate, or malignant
0106T	Quantitative sensory testing using touch pressure stimuli to assess large diameter sensation
0107T	Quantitative sensory testing using vibration stimuli to assess large diameter fiber sensation
0108T	Quantitative sensory testing using cooling stimuli to assess small nerve fiber sensation and hyperalgesia
0109T	Quantitative sensory testing using heat-pain stimuli to assess small nerve fiber sensation and hyperalgesia
0110T	Quantitative sensory testing using other stimuli to assess sensation
0113U	Oncology prostate measurement of PCA3 and TMPRSS2-ERG in urine and PSA in serum, algorithm reported as risk score
0114U	Gastroenterology Barrett's esophagus, VIM and CCNA1 methylation analysis, algorithm reported as likelihood for Barrett's esophagus
0118U	Transplantation medicine donor-derived cell-free DNA quantification, plasma, reported as percentage
0120U	Oncology B-cell lymphoma classification mRNA gene expression profiling, algorithm reported as likelihood for PMBCL and DLBCL subtype
0153U	Oncology breast mRNA gene expression profiling by next-generation sequencing of 101 genes, algorithm reported as triple negative breast cancer subtype
0156U	Copy number sequence analysis
0170U	Neurology autism spectrum disorder RNA next-generation sequencing, saliva, algorithmic analysis reported as predictive probability of ASD diagnosis
0174T	Computer aided detection of chest radiographs performed concurrent with primary interpretation
0175T	Computer aided detection of chest radiographs performed remote from primary interpretation
0175U	Psychiatry genomic analysis panel, variant analysis of 15 genes

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0198T	Measurement of ocular blood flow by repetitive intraocular pressure sampling, with interpretation and report
0203U	Autoimmune inflammatory bowel disease mRNA gene expression profiling, reported as continuous risk score and classification
0205U	Ophthalmology age-related macular degeneration analysis of 3 gene variants, reported as positive or negative
0207T	Evacuation of meibomian glands, automated, unilateral
0209T	Pure tone audiometry threshold, automated; air and bone
0209U	Cytogenomic constitutional genome-wide analysis for copy number, structural changes, and homozygosity
0210T	Speech audiometry threshold, automated
0211T	Speech audiometry threshold, automated with speech recognition
0212T	Comprehensive audiometry threshold evaluation and speech recognition, automated
0219T	Evaluation of cervicovaginal fluid for specific amniotic fluid proteins, qualitative, each specimen
0220U	Oncology breast cancer image analysis with artificial intelligence assessment, reported as recurrence score
0228U	Oncology prostate multianalyte molecular profile with machine learning, urine, algorithm reported as likelihood of prostate cancer
0229U	BCAT1 and IKZF1 promoter methylation analysis
0252U	Fetal aneuploidy STR comparative analysis, fetal DNA from products of conception
0253U	Reproductive medicine endometrial receptivity analysis, RNA gene expression profile, algorithm reported as window of implantation
0254U	Reproductive medicine preimplantation genetic assessment, analysis of 24 chromosomes using embryonic DNA genomic sequence analysis for aneuploidy and mitochondrial DNA score, per embryo tested
0258U	Autoimmune psoriasis, mRNA next-generation sequencing gene expression profiling of 50-100 genes, skin-surface collection using adhesive patch, algorithm reported as likelihood of response to psoriasis biologics
0260U	Rare diseases constitutional/heritable disorders, identification of copy number variations, inversions, insertions, translocations, and other structural variants by optical genome mapping
0262U	Oncology solid tumor gene expression profiling by real-time RT-PCR of 7 gene pathways, formalin-fixed paraffin-embedded tissue, algorithm reported as gene pathway activity score
0264U	Rare diseases constitutional/heritable disorders, identification of copy number variations, inversions, insertions, translocations, and other structural variants by optical genome mapping

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0266T	Implantation or replacement of carotid sinus baroreflex activation device; total system
0266U	Unexplained constitutional or heritable disorders, tissue-specific gene expression by whole-transcriptome and next-generation sequencing, reported as presence or absence of splicing or expression changes
0267T	Implantation or replacement of carotid sinus baroreflex activation device; lead only, unilateral
0267U	Rare constitutional and heritable disorders, identification of structural variants by optical genome mapping and whole genome sequencing
0268T	Implantation or replacement of carotid sinus baroreflex activation device; pulse generator only
0272T	Interrogation device evaluation, carotid sinus baroreflex activation system, including monitoring of device diagnostics and programmed therapy values
0273T	Interrogation device evaluation, carotid sinus baroreflex activation system, with programming
0285U	Oncology disease progression and response monitoring to cancer treatment, cell-free DNA, plasma, reported in ng/mL
0288U	Oncology lung, mRNA quantitative PCR analysis of 11 genes and 3 reference genes, formalin-fixed paraffin-embedded tumor tissue, recurrence risk score
0289U	Neurology Alzheimer disease, mRNA gene expression profiling by RNA sequencing of 24 genes, whole blood, predictive risk score
0290U	Pain management mRNA gene expression profiling by RNA sequencing of 36 genes, whole blood, predictive risk score
0291U	Psychiatry mood disorders, mRNA gene expression profiling by RNA sequencing of 144 genes, whole blood, predictive risk score
0292U	Psychiatry stress disorders, mRNA gene expression profiling by RNA sequencing of 72 genes, whole blood, predictive risk score
0293U	Psychiatry suicidal ideation, mRNA gene expression profiling by RNA sequencing of 54 genes, whole blood, predictive risk score
0294U	Longevity and mortality risk, mRNA gene expression profiling by RNA sequencing of 18 genes, whole blood, predictive risk score
0296U	Oncology oral and/or oropharyngeal cancer, gene expression profiling by RNA sequencing of at least 20 molecular features, saliva, reported as positive or negative for signature associated with malignancy
0297U	Oncology pan tumor, whole genome sequencing of paired malignant and normal DNA specimens, comparative sequence analyses and variant identification
0298U	Oncology pan tumor, whole transcriptome sequencing of paired malignant and normal RNA specimens, comparative analyses and expression/chimeric transcript identification

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0299U	Oncology pan tumor, whole genome optical genome mapping of paired malignant and normal DNA specimens, comparative structural variant identification
0300U	Oncology pan tumor, whole genome sequencing and optical genome mapping of paired malignant and normal DNA specimens, comparative sequence analyses and variant identification
0306U	Oncology minimal residual disease, next-generation targeted sequencing analysis, cell-free DNA, initial baseline assessment to determine patient-specific panel
0307U	Oncology minimal residual disease, next-generation targeted sequencing analysis of patient-specific panel, subsequent assessment to evaluate MRD
0312U	Placement of posterior intrafacet implant(s), unilateral or bilateral, including imaging and placement of bone graft(s) or synthetic device(s), single cervical level
0313U	Oncology pancreas, DNA and mRNA next-generation sequencing analysis of 74 genes and CEA expression, pancreatic cyst fluid, categorical result
0314U	Oncology cutaneous melanoma, mRNA gene expression profiling by RT-PCR of 35 genes, categorical result
0315U	Oncology cutaneous squamous cell carcinoma, mRNA gene expression profiling by RT-PCR of 40 genes, categorical risk result
0317U	Oncology lung cancer, four-probe FISH assay, whole blood, predictive algorithm-generated risk evaluation
0319U	Nephrology renal transplant, RNA expression by select transcriptome sequencing using pretransplant peripheral blood, risk score for early acute rejection
0320U	Nephrology renal transplant, RNA expression by select transcriptome sequencing using posttransplant peripheral blood, risk score for acute cellular rejection
0329T	Monitoring of intraocular pressure for 24 hours or longer, unilateral or bilateral, with interpretation and report
0330T	Tear film imaging, unilateral or bilateral, with interpretation and report
0331U	Oncology hematolymphoid neoplasia, optical genome mapping for copy number alterations and gene rearrangements, report of clinically significant alterations
0332U	Oncology pan-tumor, genetic profiling of 8 DNA regulatory markers by qPCR, whole blood, reported as probability of responding to immune checkpoint inhibitor therapy
0333T	Visual evoked potential, screening of visual acuity, automated
0333U	Oncology liver, surveillance for hepatocellular carcinoma in high-risk patients, analysis of methylation patterns on circulating cell-free DNA plus serum markers, algorithm reported as normal or abnormal result

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0335U	Rare diseases constitutional/heritable disorders, whole genome sequence analysis including sequence changes, copy number variants, deletions, duplications, mobile element insertions, UPD, inversions, aneuploidy, mitochondrial genome analysis, STR expansions, fetal sample
0336U	Rare diseases constitutional/heritable disorders, whole genome sequence analysis including sequence changes, copy number variants, deletions, duplications, UPD, inversions, aneuploidy, mitochondrial genome analysis, STR expansions, blood or saliva, each comparator genome
0338T	Transcatheter renal sympathetic denervation, percutaneous approach, including arterial puncture, renal artery catheter placement, fluoroscopy, contrast injections, roadmapping, radiological supervision and interpretation; unilateral
0339T	Transcatheter renal sympathetic denervation, percutaneous approach, including arterial puncture, renal artery catheter placement, fluoroscopy, contrast injections, roadmapping, radiological supervision and interpretation; bilateral
0341U	Fetal aneuploidy DNA sequencing comparative analysis, fetal DNA from products of conception, reported as normal, monosomy, trisomy, partial deletion/duplication, mosaicism, and segmental aneuploidy
0342T	Therapeutic apheresis with selective HDL delipidation and plasma reinfusion
0343U	Oncology prostate, exosome-based analysis of 442 small noncoding RNAs by RT-qPCR, urine, reported as molecular evidence of prostate cancer risk category
0345U	Psychiatry genomic analysis panel, variant analysis of 15 genes, including CYP2D6 deletion/duplication analysis
0347T	Placement of interstitial device(s) in bone for radiostereometric analysis
0347U	Drug metabolism or processing, whole blood or buccal specimen, DNA analysis, 16 gene report with variant analysis and reported phenotypes
0348T	Radiologic examination, radiostereometric analysis; spine, including cervical, thoracic, and lumbosacral when performed
0348U	Drug metabolism or processing, whole blood or buccal specimen, DNA analysis, 25 gene report with variant analysis and reported phenotypes
0349T	Radiologic examination, radiostereometric analysis; upper extremity, including shoulder, elbow, and wrist when performed
0349U	Drug metabolism or processing, whole blood or buccal specimen, DNA analysis, 27 gene report with variant analysis, phenotypes, and impacted gene-drug interactions
0350T	Radiologic examination, radiostereometric analysis; lower extremity, including hip, proximal femur, knee, and ankle when performed
0350U	Drug metabolism or processing, whole blood or buccal specimen, DNA analysis, 27 gene report with variant analysis and reported phenotypes

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0351T	Optical coherence tomography of breast or axillary lymph node, excised tissue, each specimen; real-time intraoperative
0352T	Optical coherence tomography of breast or axillary lymph node, excised tissue, each specimen; interpretation and report, real-time or referred
0353T	Optical coherence tomography of breast, surgical cavity; real-time intraoperative
0354T	Optical coherence tomography of breast, surgical cavity; interpretation and report, real-time or referred
0355U	APOL1 risk variants for chronic kidney disease
0356U	Oncology oropharyngeal or anal, evaluation of 17 DNA biomarkers using droplet digital PCR, cell-free DNA, algorithm reported as prognostic risk score for cancer recurrence
0358T	Oncology oropharyngeal or anal, evaluation of 17 DNA biomarkers using droplet digital PCR, cell-free DNA, algorithm reported as prognostic risk score for cancer recurrence
0362U	Oncology papillary thyroid cancer, gene-expression profiling via targeted hybrid capture-enrichment RNA sequencing of 82 content genes and 10 housekeeping genes, reported as one of three molecular subtypes
0368U	Oncology colorectal cancer, evaluation for mutations and methylation markers by multiplex qPCR, circulating cell-free DNA, plasma, report of risk score for advanced adenoma or colorectal cancer
0378T	Bioelectrical impedance analysis whole body composition assessment, supine position, with interpretation and report
0379T	Visual field assessment with concurrent real-time data analysis and accessible data storage with patient-initiated data transmitted to remote surveillance center; review and interpretation with report
0389U	Pediatric febrile illness Kawasaki disease, RNA biomarkers by RT-qPCR, blood, reported as risk score
0391U	Oncology solid tumor, DNA and RNA by next-generation sequencing, 437 genes, interpretive report for variants, copy number alterations, gene fusions, tumor mutational burden, microsatellite instability, and immunotherapy response score
0392U	Drug metabolism depression, anxiety, ADHD, gene-drug interactions, variant analysis of 16 genes including CYP2D6 deletion/duplication analysis
0395U	Oncology lung, multi-omics analysis of microbial DNA and protein biomarkers, plasma, algorithm reported as malignancy risk for lung nodules
0397T	Visual field assessment with concurrent real-time data analysis and accessible data storage; technical support, patient instructions, surveillance, analysis, and transmission of reports
0398U	Gastroenterology Barrett's esophagus, DNA methylation analysis using PCR, formalin-fixed paraffin-embedded tissue, algorithm reported as risk score for

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	progression to high-grade dysplasia or cancer
0401U	Cardiology coronary heart disease, 9 genes and 12 variants, targeted variant genotyping, algorithm reported as genetic risk score for coronary event
0403U	Oncology prostate, mRNA gene expression profiling of 18 genes, first-catch urine, algorithm reported as likelihood of detecting clinically significant prostate cancer
0405U	Oncology pancreatic, methylation haplotype block markers by next-generation sequencing, plasma, reported as cancer signal detected or not detected
0406U	Oncology lung, flow cytometry sputum markers, algorithm reported as likelihood of lung cancer
0410U	Oncology pancreatic, DNA whole genome sequencing with 5-hydroxymethylcytosine enrichment, whole blood or plasma, algorithm reported as cancer detected or not detected
0411U	Psychiatry genomic analysis panel, variant analysis of 15 genes, including deletion/duplication analysis of CYP2D6
0413U	Oncology hematolymphoid neoplasm, optical genome mapping for copy number alterations, aneuploidy, and balanced/complex structural rearrangements, DNA from blood or bone marrow, report of clinically significant alterations
0414U	Oncology lung, augmentative algorithmic analysis of digitized whole slide imaging for biomarkers, formalin-fixed paraffin-embedded tissue, reported as positive or negative for each biomarker
0418U	Oncology breast, augmentative algorithmic analysis of digitized whole slide imaging of histologic and immunohistochemical features, reported as recurrence score
0419U	Neuropsychiatry genomic sequence analysis panel, variant analysis of 13 genes, saliva or buccal swab, report of each gene phenotype
0422T	Endoscopic retrograde cholangiopancreatography with optical endomicroscopy
0423U	Psychiatry genomic analysis panel including variant analysis of 26 genes, buccal swab, report including metabolizer status and risk of drug toxicity by condition
0424U	Oncology prostate, exosome-based analysis of 53 small noncoding RNAs by RT-qPCR, urine, reported as no molecular evidence or risk category for prostate cancer
0433U	Oncology prostate, 5 DNA regulatory markers by quantitative PCR, whole blood, algorithm including prostate-specific antigen, reported as likelihood of cancer
0434U	Drug metabolism adverse drug reactions and drug response, genomic analysis panel, variant analysis of 25 genes with reported phenotypes

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0437U	Psychiatry anxiety disorders, mRNA gene expression profiling by RNA sequencing of 15 biomarkers, whole blood, predictive risk score
0438U	Drug metabolism adverse drug reactions and drug response, buccal specimen, gene-drug interactions, variant analysis of 33 genes including CYP2D6 deletion/duplication analysis
0439T	Tactile breast imaging by computer-aided tactile sensors, unilateral or bilateral
0439U	Cardiology coronary heart disease, DNA analysis of SNPs and DNA methylation markers, qPCR and digital PCR, whole blood, algorithm reported as risk score
0440U	Cardiology coronary heart disease, DNA analysis of SNPs and DNA methylation markers, qPCR and digital PCR, whole blood, algorithm reported as risk score
0443T	Myocardial contrast perfusion echocardiography at rest or with stress, for assessment of myocardial ischemia or viability
0453U	Oncology colorectal cancer, cell-free DNA methylation-based quantitative PCR assay, plasma, reported as presence or absence of circulating tumor DNA
0460U	Oncology, whole blood or buccal, DNA SNP genotyping by real-time PCR of 24 genes, with variant analysis and reported phenotypes
0461U	Oncology pharmacogenomic analysis of SNP genotyping by real-time PCR of 24 genes, whole blood or buccal swab, including impacted gene-drug interactions and reported phenotypes
0464T	Real-time spectral analysis of prostate tissue by fluorescence spectroscopy
0464U	Oncology colorectal screening, quantitative real-time target and signal amplification with methylated DNA markers and protein marker, stool, algorithm reported as positive or negative result
0465T	Visual evoked potential, testing for glaucoma, with interpretation and report
0470U	Oncology oropharyngeal, detection of minimal residual disease by next-generation sequencing quantitative evaluation of DNA targets, cell-free HPV DNA from plasma
0476U	Drug metabolism psychiatry, pharmacogenomic genotyping of 14 genes and CYP2D6 copy number variant analysis with reported phenotypes
0477U	Drug metabolism psychiatry, pharmacogenomic genotyping of 14 genes and CYP2D6 copy number variant analysis, including impacted gene-drug interactions and reported phenotypes
0485T	Suprachoroidal injection of a pharmacologic agent, does not include supply of medication; code deleted 12/31/2023
0486T	Optical coherence tomography of middle ear, with interpretation and report; unilateral
0486U	Oncology pan-solid tumor, next-generation sequencing analysis of tumor

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	methylation markers present in circulating tumor DNA, algorithm reported as quantitative methylation measurement
0489T	Optical coherence tomography of middle ear, with interpretation and report; bilateral
0489U	Autologous adipose-derived regenerative cell therapy for scleroderma in the hands, including tissue harvesting, isolation, preparation, and determination of regenerative cell concentration
0490T	Obstetrics single-gene noninvasive prenatal test, cell-free DNA sequence analysis to identify inherited pathogenic variants and fetal risk score
0494T	Autologous adipose-derived regenerative cell therapy for scleroderma in the hands; multiple injections in one or both hands
0495T	Surgical preparation and cannulation of marginal cadaver donor lung(s) to ex vivo organ perfusion system, including cold preservation prior to implantation
0495U	Oncology prostate, plasma protein analysis, germline polygenic risk score, and clinical information, algorithm reported as likelihood of clinically significant prostate cancer
0496T	Initiation and monitoring of marginal cadaver donor lung organ perfusion system by physician or qualified health care professional; first two hours in sterile field
0496U	Oncology colorectal, cell-free DNA, genes for mutations and methylation, and protein markers by assay, blood, reported positive or negative for colorectal cancer or advanced adenoma risk
0497U	Oncology prostate, mRNA gene-expression profiling by real-time RT-PCR of 6 genes, formalin-fixed paraffin-embedded tissue, algorithm reported as prostate cancer risk score
0498U	Oncology colorectal, next-generation sequencing for mutation detection and methylation pattern, blood and formalin-fixed paraffin-embedded tissue, report of variants and methylation pattern with interpretation
0505T	Initiation and monitoring of marginal cadaver donor lung organ perfusion system; each additional hour
0506T	Endovenous femoral-popliteal arterial revascularization with transcatheter placement of intravascular stent graft(s), closure, vascular access, imaging guidance, and radiological supervision and interpretation
0507T	Macular pigment optical density measurement by heterochromatic flicker photometry, unilateral or bilateral, with interpretation and report
0508U	Transplantation medicine, donor-derived cell-free DNA quantification using SNPs, plasma and urine, initial evaluation reported as percentage with risk for active rejection
0509T	Near-infrared dual imaging of meibomian glands, unilateral or bilateral, with interpretation and report
0509U	Transplantation medicine, donor-derived cell-free DNA quantification using

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	previously identified SNPs, plasma, reported as percentage with risk for active rejection
0510U	Oncology pancreatic cancer, augmentative algorithmic analysis of genes from previously sequenced RNA whole-transcriptome data, reported as predicted molecular subtype probability
0511T	Electroretinography with interpretation and report, pattern ERG
0516U	Drug metabolism, whole blood, pharmacogenomic genotyping of 40 genes and CYP2D6 copy number variant analysis, reported as metabolizer status
0525T	Removal and reinsertion of sinus tarsi implant
0526T	Insertion or replacement of intracardiac ischemia monitoring system; complete system including electrode and implantable monitor
0527T	Insertion or replacement of intracardiac ischemia monitoring system; electrode only
0528T	Insertion or replacement of intracardiac ischemia monitoring system; implantable monitor only
0529T	Programming device evaluation of intracardiac ischemia monitoring system with iterative adjustment, analysis, review, and report
0541T	Interrogation device evaluation of intracardiac ischemia monitoring system with analysis, review, and report
0542T	Myocardial imaging by magnetocardiography for detection of cardiac ischemia, signal acquisition, magnetic-field images, quantitative analysis, machine learning-derived scoring, and automated report generation; single study
0546T	Myocardial imaging by magnetocardiography for detection of cardiac ischemia; interpretation and report
0547T	Radiofrequency spectroscopy, real time, intraoperative margin assessment at time of partial mastectomy, with report
0553T	Bone-material quality testing by microindentation of tibia(s), with results reported as a score
0554T	Percutaneous transcatheter placement of iliac arteriovenous anastomosis implant, including radiological supervision and interpretation, roadmapping, and imaging guidance
0555T	Bone strength and fracture risk using finite element analysis and bone mineral density from CT data; retrieval/transmission, assessment, interpretation, and report
0556T	Bone strength and fracture risk using finite element analysis and bone mineral density from CT data; retrieval and transmission of scan data
0557T	Bone strength and fracture risk using finite element analysis and bone mineral density from CT data; assessment of bone strength, fracture risk, and bone mineral density

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0558T	Bone strength and fracture risk using finite element analysis and bone mineral density from CT data; interpretation and report
0559T	Computed tomography scan taken for purpose of biomechanical computed tomography analysis
0560T	Anatomic model 3D-printed from image data set(s); first individually prepared and processed component
0561T	Anatomic model 3D-printed from image data set(s); each additional component
0562T	Anatomic guide 3D-printed and designed from image data set(s); first anatomic guide
0563T	Anatomic guide 3D-printed and designed from image data set(s); each additional anatomic guide
0567T	Evacuation of meibomian glands using heat delivered through wearable open-eye eyelid treatment devices and manual gland expression, bilateral
0582T	Permanent fallopian tube occlusion with degradable biopolymer implant, transcervical approach, including transvaginal ultrasound
0607T	Transurethral ablation of malignant prostate tissue by high-energy water vapor thermotherapy, including intraoperative imaging and needle guidance
0607U	Reproductive medicine endometrial microbiome assessment, real-time PCR analysis for bacterial DNA targets from endometrial biopsy with quantified levels and treatment recommendations
0608T	Remote monitoring of external continuous pulmonary fluid monitoring system; set-up and patient education on use of equipment
0608U	Reproductive medicine endometrial microbiome assessment, real-time PCR analysis for bacterial DNA targets from endometrial biopsy with quantified levels and treatment recommendations
0613U	Oncology urothelial carcinoma, DNA methylation and mutation analysis of biomarkers by methylation-specific PCR and targeted next-generation sequencing, urine, algorithm reported as probability index
0615T	Remote monitoring of external continuous pulmonary fluid monitoring system; analysis of data received and transmission of reports to physician or qualified health care professional
0620T	Automated eye-movement analysis of binocular eye movements without spatial calibration, including disconjugacy, saccades, and pupillary dynamics for assessment of concussion, with interpretation and report
0630U	Oncology breast, mRNA gene expression profiling by microarray, formalin-fixed paraffin-embedded tissue, algorithm reported as diagnostic molecular subtype index
0631T	Endovascular venous arterialization, tibial or peroneal vein, with transcatheter placement of intravascular stent graft(s), closure, vascular access, imaging guidance, and radiological supervision and interpretation

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0635U	Al Alzheimer disease mRNA next-generation sequencing gene expression profiling, 487 genes, non-invasive
0639T	Percutaneous transcatheter ultrasound ablation of nerves innervating pulmonary arteries, including right heart catheterization, pulmonary artery angiography, and imaging guidance
0640T	Wireless skin sensor thermal anisotropy measurements and assessment of flow in cerebrospinal fluid shunt, including ultrasound guidance when performed
0641T	Noncontact near-infrared spectroscopy studies of flap or wound; image acquisition, interpretation and report, each flap or wound
0642T	Noncontact near-infrared spectroscopy studies of flap or wound; image acquisition only, each flap or wound; code deleted 12/31/2023
0643T	Noncontact near-infrared spectroscopy studies of flap or wound; interpretation and report only, each flap or wound; code deleted 12/31/2023
0643U	Oncology genitourinary cancer cell-free circulating tumor DNA, next-generation sequencing interrogation of SNV and indels
0644T	Transcatheter left ventricular restoration device implantation including right and left heart catheterization and left ventriculography when performed, arterial approach
0645T	Transcatheter removal or debulking of intracardiac mass via suction device, percutaneous approach, with intraoperative reinfusion of aspirated blood and imaging guidance when performed
0646T	Transcatheter implantation of coronary sinus reduction device including vascular access, right heart catheterization, venous angiography, coronary sinus angiography, imaging guidance, and supervision and interpretation
0647T	Transcatheter tricuspid valve implantation/replacement with prosthetic valve, percutaneous approach, including right heart catheterization, temporary pacemaker insertion, and selective angiography when performed
0649U	Neurology Alzheimer disease DNA targeted next-generation sequencing for AD-1 and AD-2, whole blood
0655T	Insertion of gastrostomy tube, percutaneous, with magnetic gastropexy, under ultrasound guidance, image documentation and report
0714T	Comprehensive full body computer-based markerless 3D kinematic and kinetic motion analysis and report
0716T	Transperineal laser ablation of benign prostatic hyperplasia, including imaging guidance; prostate volume less than 50 mL
0721T	Cardiac acoustic waveform recording with automated analysis and generation of coronary artery disease risk score
0722T	Quantitative computed tomography tissue characterization, including interpretation and report, obtained without concurrent CT examination of any structure in previously acquired diagnostic imaging
0723T	Quantitative computed tomography tissue characterization, including

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	interpretation and report, obtained with concurrent CT examination of any structure in concurrently acquired diagnostic imaging dataset
0724T	Quantitative magnetic resonance cholangiopancreatography including data preparation and transmission, interpretation and report, obtained without diagnostic MRI examination of same anatomy during same session
0733T	Quantitative magnetic resonance cholangiopancreatography including data preparation and transmission, interpretation and report, obtained with diagnostic MRI examination of same anatomy
0734T	Remote body and limb kinematic measurement-based therapy ordered by physician or qualified health care professional; supply and technical support, per 30 days
0735T	Quantitative magnetic resonance analysis of tissue composition, including data acquisition, preparation, transmission, interpretation and report, obtained with diagnostic MRI examination of same anatomy; single organ
0738T	Remote body and limb kinematic measurement-based therapy ordered by physician or qualified health care professional; treatment management services per calendar month
0739T	Treatment planning for magnetic field induction ablation of malignant prostate tissue using data from previously performed MRI examination
0740T	Ablation of malignant prostate tissue by magnetic field induction, including intraprocedural placement, temperature monitoring, thermal dosimetry, bladder irrigation, and magnetic field activation
0741T	Remote autonomous algorithm-based recommendation system for insulin dose calculation and titration; initial set-up and patient education
0742T	Remote autonomous algorithm-based recommendation system for insulin dose calculation and titration; software, data collection, transmission, and storage, each 30 days
0744T	Absolute quantitation of myocardial blood flow, SPECT, with exercise or pharmacologic stress and at rest when performed
0748T	Insertion of bioprosthetic valve, open, femoral vein, including duplex ultrasound imaging guidance and patch graft when performed
0753T	Ablation, benign thyroid nodule(s), percutaneous, laser, including imaging guidance
0760T	Digitization of glass microscope slides for immunohistochemistry or immunocytochemistry, per specimen, initial single antibody stain procedure
0761T	Digitization of glass microscope slides for immunohistochemistry or immunocytochemistry, per specimen, each additional single antibody stain procedure
0762T	Digitization of glass microscope slides for immunohistochemistry or immunocytochemistry, per specimen, each multiplex antibody stain procedure

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0763T	Digitization of glass microscope slides for morphometric analysis, tumor immunohistochemistry, quantitative or semiquantitative, per specimen, each single antibody stain procedure, manual
0764T	Injections of stem cell product into perianal peristomal soft tissue, including fistula preparation
0765T	Assistive algorithmic electrocardiogram risk-based assessment for cardiac dysfunction related to concurrently performed electrocardiogram
0766T	Assistive algorithmic electrocardiogram risk-based assessment for cardiac dysfunction related to previously performed electrocardiogram
0767T	Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, initial treatment; first nerve
0768T	Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, initial treatment; each additional nerve
0769T	Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, subsequent treatment; first nerve; code deleted 12/31/2023
0771T	Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, subsequent treatment; each additional nerve; code deleted 12/31/2023
0772T	Virtual reality procedural dissociation services provided by the same physician or qualified health care professional performing the supported service; initial 15 minutes
0773T	Virtual reality procedural dissociation services provided by the same physician or qualified health care professional performing the supported service; each additional 15 minutes
0774T	Virtual reality procedural dissociation services provided by a physician or qualified health care professional other than the physician performing the supported service; initial 15 minutes
0776T	Virtual reality procedural dissociation services provided by a physician or qualified health care professional other than the physician performing the supported service; each additional 15 minutes
0778T	Therapeutic induction of intra-brain hypothermia, including placement of mechanical temperature-controlled cooling device and monitoring, 30 minutes
0779T	Surface mechanomyography with concurrent inertial measurement unit sensors for measurement of range of motion, posture, gait, and muscle function
0781T	Gastrointestinal myoelectrical activity study, stomach through colon, with interpretation and report
0782T	Bronchoscopy with insertion of esophageal protection device and

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	circumferential radiofrequency destruction of pulmonary nerves; bilateral mainstem bronchi
0791T	Bronchoscopy with insertion of esophageal protection device and circumferential radiofrequency destruction of pulmonary nerves; unilateral mainstem bronchus
0793T	Motor-cognitive, semi-immersive virtual reality-facilitated gait training, each 15 minutes
0794T	Percutaneous transcatheter thermal ablation of nerves innervating pulmonary arteries, including right heart catheterization, pulmonary artery angiography, and imaging guidance
0848T	Digitization of glass microscope slides for in situ hybridization, per specimen; initial single probe stain procedure
0849T	Digitization of glass microscope slides for in situ hybridization, per specimen; each additional single probe stain procedure
0850T	Digitization of glass microscope slides for in situ hybridization, per specimen; each multiplex probe stain procedure
0851T	Digitization of glass microscope slides for morphometric analysis, in situ hybridization, manual, per specimen; initial single probe stain procedure
0852T	Digitization of glass microscope slides for morphometric analysis, in situ hybridization, manual, per specimen; each additional single probe stain procedure
0853T	Digitization of glass microscope slides for morphometric analysis, in situ hybridization, manual, per specimen; each multiplex probe stain procedure
0867T	Patient-specific assistive rules-based algorithm for ranking pharmacologic treatment options based on tumor-specific cancer marker information
0868T	Prostate volume greater than or equal to 50 mL
0870T	High-resolution gastric electrophysiology mapping with simultaneous patient-symptom profiling, with interpretation and report
0871T	Implantation of subcutaneous peritoneal ascites pump system, percutaneous, including pump pocket creation, catheter insertion, imaging, and initial programming when performed
0872T	Replacement of subcutaneous peritoneal ascites pump, including reconnection between pump and indwelling bladder and peritoneal catheters, initial programming, and imaging when performed
0873T	Replacement of indwelling bladder and peritoneal catheters, including tunneling and connection with previously implanted peritoneal ascites pump, imaging and programming when performed
0874T	Revision of subcutaneously implanted peritoneal ascites pump system, any component, including imaging and programming when performed
0875T	Removal of peritoneal ascites pump system, including implanted pump and

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	indwelling bladder and peritoneal catheters
0876T	Programming of subcutaneously implanted peritoneal ascites pump system by physician or qualified health care professional
0877T	Duplex scan of hemodialysis fistula, computer-aided, limited, including volume flow, diameter, and depth of fistula body only
0878T	Augmentative analysis of chest CT imaging data to provide categorical diagnostic subtype classification of interstitial lung disease; obtained without concurrent CT examination
0879T	Augmentative analysis of chest CT imaging data obtained with concurrent CT examination of the same structure
0880T	Radiological data preparation and transmission
0881T	Physician or qualified health care professional interpretation and report
0882T	Cryotherapy of oral cavity using temperature-regulated fluid cooling system, including oral device placement, monitoring, and removal
0883T	Intraoperative therapeutic electrical stimulation of peripheral nerve to promote nerve regeneration, including lead placement and removal, upper extremity, minimum of 10 minutes; initial nerve
0884T	Each additional nerve for intraoperative therapeutic electrical stimulation of peripheral nerve to promote nerve regeneration
0885T	Esophagoscopy, flexible, transoral, with initial transendoscopic mechanical dilation followed by therapeutic drug delivery by drug-coated balloon catheter for esophageal stricture, including fluoroscopic guidance when performed
0886T	Colonoscopy, flexible, with initial transendoscopic mechanical dilation followed by therapeutic drug delivery by drug-coated balloon catheter for colonic stricture, including fluoroscopic guidance when performed
0887T	Sigmoidoscopy, flexible, with initial transendoscopic mechanical dilation followed by therapeutic drug delivery by drug-coated balloon catheter for colonic stricture, including fluoroscopic guidance when performed
0888T	End-tidal control of inhaled anesthetic agents and oxygen to assist anesthesia care delivery
0890T	Histotripsy of malignant renal tissue, including imaging guidance
0891T	Accelerated repetitive high-dose functional connectivity MRI-guided theta-burst stimulation, including target assessment, initial motor threshold determination, neuronavigation, delivery, and management, initial treatment day
0892T	Accelerated repetitive high-dose functional connectivity MRI-guided theta-burst stimulation, including neuronavigation, delivery, and management, subsequent treatment day
0893T	Accelerated repetitive high-dose functional connectivity MRI-guided theta-burst stimulation, including neuronavigation, delivery, and management,

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	subsequent motor threshold redetermination with delivery and management, per treatment day
0894T	Noninvasive assessment of blood oxygenation, gas exchange efficiency, and cardiorespiratory status, with physician or qualified health care professional interpretation and report
0895T	Cannulation of liver allograft in preparation for connection to normothermic perfusion device and decannulation of liver allograft following normothermic perfusion
0896T	Connection of liver allograft to normothermic machine perfusion device, hemostasis control; initial 4 hours of monitoring time, including hourly physiological and laboratory assessments
0897T	Each additional hour of liver allograft normothermic machine perfusion monitoring, including physiological and laboratory assessments
0898T	Noninvasive augmentative arrhythmia analysis derived from quantitative computational cardiac arrhythmia simulations, based on selected ECG intervals and uploaded clinical parameters, with interpretation and report
0901T	Noninvasive prostate cancer estimation map derived from augmentative analysis of image-guided fusion biopsy and pathology, including visualization and physician interpretation and report
0902T	Placement of bone marrow sampling port, including imaging guidance when performed
0903T	Placement of bone marrow sampling port, including imaging guidance when performed
0904T	Electrocardiogram, algorithmically generated 12-lead ECG from reduced-lead ECG; with interpretation and report
0905T	Electrocardiogram, algorithmically generated 12-lead ECG from reduced-lead ECG; tracing only
0906T	Electrocardiogram, algorithmically generated 12-lead ECG from reduced-lead ECG; interpretation and report only
0907T	Concurrent optical and magnetic stimulation therapy, wound assessment and dressing care; first application, total wound surface area less than or equal to 50 sq cm
0909T	Each additional application of concurrent optical and magnetic stimulation therapy, total wound surface area less than or equal to 50 sq cm
0910T	Replacement of integrated neurostimulation system, vagus nerve, including analysis and programming when performed
0911T	Removal of integrated neurostimulation system, vagus nerve
0912T	Electronic analysis of implanted integrated neurostimulation system, vagus nerve, without programming by physician or qualified health care professional
0913T	Electronic analysis of implanted integrated neurostimulation system, vagus nerve, with simple programming by physician or qualified health care

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	professional
0914T	Diagnostic coronary angiography performed at a separate session from an interventional procedure is separately reportable
0915T	Percutaneous transcatheter therapeutic drug delivery by intracoronary drug-delivery balloon performed on a separate target lesion from treated target lesion, including imaging supervision, interpretation, and report
0916T	Insertion of permanent cardiac contractility modulation-defibrillation system components, including fluoroscopic guidance and evaluation/programming; pulse generator and dual transvenous electrodes/leads
0917T	Insertion of permanent cardiac contractility modulation-defibrillation system component; pulse generator only
0918T	Insertion of permanent cardiac contractility modulation-defibrillation system component; single transvenous lead only
0919T	Insertion of permanent cardiac contractility modulation-defibrillation system component; dual transvenous leads only
0920T	Removal of permanent cardiac contractility modulation-defibrillation system component; pulse generator only
0921T	Removal of permanent cardiac contractility modulation-defibrillation system component; single transvenous pacing lead only
0922T	Removal of permanent cardiac contractility modulation-defibrillation system component; single transvenous defibrillation lead only
0923T	Removal of permanent cardiac contractility modulation-defibrillation system component; dual pacing and defibrillation transvenous leads only
0924T	Removal and replacement of permanent cardiac contractility modulation-defibrillation pulse generator only
0925T	Repositioning of previously implanted cardiac contractility modulation-defibrillation transvenous electrodes/leads, including fluoroscopic guidance and programming of sensing and therapeutic parameters
0926T	Relocation of skin pocket for implanted cardiac contractility modulation-defibrillation pulse generator
0927T	Programming device evaluation, in person, with iterative adjustment of the implantable device to test function and select optimal permanent programmed values with analysis, review, and report, implantable cardiac contractility modulation-defibrillation system
0928T	Interrogation device evaluation, in person, with analysis, review, and report, including connection, recording, and disconnection, per patient encounter, implantable cardiac contractility modulation-defibrillation system
0929T	Interrogation device evaluation, remote, up to 90 days, cardiac contractility modulation-defibrillation system with interim analysis and reports by physician or qualified health care professional
0930T	Interrogation device evaluation, remote, up to 90 days, cardiac contractility

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	modulation-defibrillation system, remote data acquisition, receipt of transmissions, technician review, technical support, and distribution of results
0931T	Electrophysiologic evaluation of cardiac contractility modulation-defibrillator lead including defibrillation-threshold evaluation, at time of initial implantation or replacement with testing of pulse generator
0932T	Electrophysiologic evaluation of cardiac contractility modulation-defibrillator leads including defibrillation-threshold evaluation, separate from initial implantation or replacement with testing of pulse generator
0934T	Noninvasive detection of heart failure derived from augmentative analysis of an echocardiogram demonstrating preserved ejection fraction, with interpretation and report
0935T	Remote monitoring of wireless left atrial pressure sensor for up to 30 days, including daily uploads, interpretation, trend analysis, treatment adjustments when performed, and reports
0936T	Cystourethroscopy with renal pelvic sympathetic denervation, radiofrequency ablation, retrograde ureteral approach, including guide wire insertion, ureteral sheath placement, electrodes, contrast injections, and fluoroscopy, bilateral
0937T	Photobiomodulation therapy of retina, single session
0938T	External electrocardiographic recording for greater than 15 days up to 30 days by continuous rhythm recording and storage, including recording, scanning analysis with report, review, and interpretation
0939T	External electrocardiographic recording for greater than 15 days up to 30 days; recording only, including connection and initial recording
0940T	External electrocardiographic recording for greater than 15 days up to 30 days; scanning analysis with report
0941T	External electrocardiographic recording for greater than 15 days up to 30 days; review and interpretation by physician or qualified health care professional
0942T	Cystourethroscopy, flexible, with insertion and expansion of prostatic urethral scaffold using integrated cystoscopic visualization
0943T	Cystourethroscopy, flexible, with removal and replacement of prostatic urethral scaffold
0944T	Cystourethroscopy, flexible, with removal of prostatic urethral scaffold
0945T	3D contour simulation of target liver lesion(s) and margin(s) for image-guided percutaneous microwave ablation
0946T	Intraoperative assessment for abnormal tissue following partial mastectomy using computer-aided fluorescence imaging
0948T	Interrogation device evaluation, remote, up to 90 days, cardiac contractility modulation system with interim analysis, review, and reports by physician or qualified health care professional

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0949T	Interrogation device evaluation, remote, up to 90 days, cardiac contractility modulation system, remote data acquisition, receipt of transmissions, technician review, technical support, and distribution of results
0952T	Totally implantable active middle ear hearing implant; revision or replacement, with mastoidectomy and replacement of sound processor
0953T	Totally implantable active middle ear hearing implant; revision or replacement, without mastoidectomy and replacement of sound processor
0954T	Totally implantable active middle ear hearing implant; replacement of sound processor only, with attachment to existing transducers
0955T	Totally implantable active middle ear hearing implant; removal, including removal of sound processor and all implant components
0958T	Removal of sub-scalp implanted electrode array, receiver, and telemetry unit for continuous bilateral electroencephalography monitoring system, including imaging guidance
0961T	Shortwave infrared radiation imaging, surgical pathology specimen, to assist gross examination for lymph node localization in fibroadipose tissue, per specimen
0962T	Assistive algorithmic analysis of acoustic and electrocardiogram recording for detection of cardiac dysfunction, with review and interpretation by physician or qualified health care professional
0963T	Anoscopy with directed submucosal injection of bulking agent into anal canal
0964T	Impression and custom preparation of jaw expansion oral prosthesis for obstructive sleep apnea, including initial adjustment; single arch, without mandibular advancement mechanism
0965T	Impression and custom preparation of jaw expansion oral prosthesis for obstructive sleep apnea, including initial adjustment; dual arch, with additional mandibular advancement, non-fixed hinge mechanism
0966T	Impression and custom preparation of jaw expansion oral prosthesis for obstructive sleep apnea, including initial adjustment; dual arch, with additional mandibular advancement, fixed hinge mechanism
0969T	Removal of epicranial neurostimulator system
0970T	Ablation, benign breast tumor, percutaneous, laser, including imaging guidance when performed, each tumor
0971T	Ablation, malignant breast tumor(s), percutaneous, laser, including imaging guidance when performed, unilateral
0972T	Assistive algorithmic classification of burn healing by noninvasive multispectral imaging, including system set-up, acquisition, selection, transmission of images, and automated report generation
0973T	Selective enzymatic debridement of partial-thickness and/or full-thickness burn eschar requiring anesthesia, including patient monitoring, trunk, arms,

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	legs; first 100 sq cm
0974T	Selective enzymatic debridement of partial-thickness and/or full-thickness burn eschar requiring anesthesia, including patient monitoring, trunk, arms, legs; each additional 100 sq cm
0975T	Selective enzymatic debridement of partial-thickness and/or full-thickness burn eschar requiring anesthesia, including patient monitoring, scalp, neck, hands, feet, and/or multiple digits; first 100 sq cm
0976T	Selective enzymatic debridement of partial-thickness and/or full-thickness burn eschar requiring anesthesia, including patient monitoring, scalp, neck, hands, feet, and/or multiple digits; each additional 100 sq cm
0977T	Upper gastrointestinal blood detection, sensor capsule, with interpretation and report
0982T	Remote monitoring of implantable inferior vena cava pressure sensor, physiologic parameters, initial set-up, and patient education on use of equipment
0983T	Remote monitoring of implanted inferior vena cava sensor for up to 30 days, including weekly downloads, interpretation, trend analysis, and reports
0984T	Intravascular imaging of extracranial cerebral vessels using optical coherence tomography during diagnostic evaluation and/or therapeutic intervention; initial vessel
0985T	Intravascular imaging of extracranial cerebral vessels using optical coherence tomography during diagnostic evaluation and/or therapeutic intervention; each additional vessel
0986T	Intravascular imaging of intracranial cerebral vessels using optical coherence tomography during diagnostic evaluation and/or therapeutic intervention; initial vessel
0987T	Intravascular imaging of intracranial cerebral vessels using optical coherence tomography during diagnostic evaluation and/or therapeutic intervention; each additional vessel
0988T	Histotripsy of malignant hepatocellular tissue, including image guidance
0989T	Preparation of tumor cavity with placement of radiation therapy applicator for intraoperative radiation therapy concurrent with primary craniotomy
0992T	Revision or removal of integrated neurostimulation system for bladder dysfunction, including analysis, programming, and imaging when performed, posterior tibial nerve; subcutaneous and subfascial
0993T	Transcervical instillation of biodegradable hydrogel materials, intrauterine
0996T	Noninvasive assessment of cardiac risk derived from augmentative software analysis of perivascular fat with concurrent CT scan of the heart, including patient-specific clinical factors, with interpretation and report
0997T	Endovascular delivery of aortic wall stabilization drug therapy through a sheath positioned within an abdominal aortic aneurysm, with aortic

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	roadmapping, balloon occlusion, imaging guidance, and radiological supervision and interpretation; percutaneous
0998T	Endovascular delivery of aortic wall stabilization drug therapy through a sheath positioned within an abdominal aortic aneurysm, with aortic roadmapping, balloon occlusion, imaging guidance, and radiological supervision and interpretation; open
1002T	Autologous muscle cell therapy, harvesting of muscle progenitor cells, including ultrasound guidance when performed
1004T	Autologous muscle cell therapy, injection of muscle progenitor cells into the external anal sphincter, including ultrasound guidance when performed
1005T	Air displacement plethysmography, whole-body composition assessment, with interpretation and report
1006T	Arthroplasty, first carpometacarpal joint, with distal trapezial and proximal first metacarpal prosthetic replacement
1007T	Electronic analysis of implanted sub-scalp continuous bilateral electroencephalography monitoring system by physician or qualified health care professional; with programming, first 15 minutes face-to-face time
1010T	Electroencephalogram from implanted sub-scalp continuous bilateral electroencephalography monitoring system, physician or qualified health care professional review of recorded events, spike and seizure detection analysis, interpretation, and report, up to 30 days of recording, without video
1011T	Remote monitoring of sub-scalp implanted continuous bilateral electroencephalography monitoring system, device fitting, initial set-up, and patient education in wearing of system and use of equipment
1012T	Remote monitoring of sub-scalp implanted continuous bilateral electroencephalography monitoring system, physician or qualified health care professional review of recorded events, spike and seizure detection analysis, interpretation, and report, up to 30 days of recording without video
1013T	Computerized ophthalmic analysis of monocular eye movements using retinal-based eye-tracking without spatial calibration, including fixation, microsaccades, drift, and horizontal saccades, unilateral or bilateral, with interpretation and report
1014T	Photobiomodulation therapy of oral cavity, including placement of oral device, monitoring of patient tolerance to treatment, and removal of oral device
1015T	Motorized ab interno trephination of sclera or trabecular meshwork, one or more, including injection of antifibrotic agents when performed
1016T	Laparoscopy, surgical, implantation or replacement of lower esophageal sphincter neurostimulator electrode array and pulse generator or receiver, requiring pocket creation and connection, including cruroplasty and/or electronic analysis when performed

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1017T	Laparoscopic revision or removal, lower esophageal sphincter neurostimulator electrodes
1018T	Revision or removal, lower esophageal sphincter neurostimulator pulse generator or receiver
1020T	Electronic analysis of implanted neurostimulator pulse generator system, lower esophageal sphincter neurostimulator pulse generator/transmitter; subsequent, without reprogramming
1021T	Electronic analysis of implanted neurostimulator pulse generator system, lower esophageal sphincter neurostimulator pulse generator/transmitter; subsequent
1022T	Lower esophageal sphincter neurostimulator pulse generator/transmitter; subsequent, with reprogramming
1023T	Lymphovenous bypass, including robotic assistance when performed, per extremity
1024T	Raman spectroscopy of one or more skin lesions, with probability score for malignant risk derived by algorithmic analysis of data from each lesion
1027T	Transvenous phrenic neurostimulation therapy for diaphragm activation in ventilated patients
1028T	Mapping and programming of neurostimulation catheter with delivery of transvenous phrenic neurostimulation therapy in ventilated patients, with repositioning and verification of left phrenic nerve capture, per session
1029T	Mapping and programming of neurostimulation catheter with delivery of transvenous phrenic neurostimulation therapy in ventilated patients, without catheter repositioning, per session
1036T	Noninvasive hemodynamic assessment with pulmonary pressures and ejection fraction when performed, including passive acquisition of acoustic and electrical signals, augmentative algorithmic analysis, and generation of clinical report with review, interpretation, and clinical integration
1040T	Bronchoscopy, flexible, with bronchial cryotherapy, one lung, including trachea when performed
1041T	Augmentative algorithmic analysis of encephalographic waveforms to identify source and propagation of epileptiform activity, including artifact reduction, 3D localization, animations, and interpretation and report
1042T	Implantation of absorbable urologic scaffold for prosthetic prostatic urethra restoration of reconstructed bladder neck and urethral anastomosis
1044T	Harvest of full-thickness skin for autologous heterogeneous skin-construct graft, including direct closure of donor site; first 5 sq cm or less
1045T	Each additional 5 sq cm, or part thereof, for harvest of full-thickness skin for autologous heterogeneous skin-construct graft
1046T	Autologous heterogeneous skin-construct graft application, trunk, arms, legs; first 50 sq cm or less, or 0.5% of body area of infants and children

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1047T	Each additional 50 sq cm, or each additional 0.5% of body area of infants and children, or part thereof, for autologous heterogeneous skin-construct graft application
1048T	Autologous heterogeneous skin-construct graft application, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 50 sq cm or less
1049T	Autologous heterogeneous skin-construct graft application, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; each additional 50 sq cm or each additional 0.5% of body area
1051T	Removal of subcutaneous heart failure decompensation monitor
1052T	Interrogation device evaluation, in person or remote, up to 30 days, insertable subcutaneous heart failure decompensation monitor, with physiologic parameter analysis, report generation, review, and interpretation
1053T	Programming device evaluation, in person or remote, of subcutaneous heart failure decompensation monitor, with physiologic parameter analysis, report generation, review, and interpretation
81529	Oncology cutaneous melanoma, mRNA gene expression profiling by real-time RT-PCR of 31 genes, formalin-fixed paraffin-embedded tissue, algorithm reported as recurrence risk including sentinel lymph node metastasis likelihood
81535	Oncology gynecologic, live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as drug response score; first single drug or drug combination
81536	Oncology gynecologic, live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as drug response score; each additional single drug or drug combination
81540	Oncology tumor of unknown origin, mRNA gene expression profiling by real-time RT-PCR of 92 genes to classify tumor into main cancer type and subtype, algorithm reported as probability of predicted cancer type and subtype
81554	Pulmonary disease idiopathic pulmonary fibrosis, mRNA gene expression analysis of 190 genes using transbronchial biopsies, diagnostic algorithm reported as categorical result
A2004	SurgiMend; XCelliStem, 1 mg
A2005	MatriStem; Microlyte Matrix, per sq cm
A2020	Percutaneous tissue displacement, any method, including imaging guidance; intrathoracic structures
A2021	Membrane Wrap Flow; NeoMatriX, per sq cm
A2033	Matrix HD; Myriad Morcells, 4 mg
A2039	Fortaderm/PuraPly; PuraPly Wound Matrix; InnovaMatrix FD, per sq cm
C1762	Acelagraft
C1763	Amniorepair/AltiPly; Esano AAA

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C1781	Axolotl Graft
C8002	Polygon3 Membrane
C9352	NeoStim TL
C9353	NeoThelium FT
C9358	SurGraft ACA
C9360	XWrap
C9364	Oasis Burn Matrix
C9399	AC5 Advanced Wound System
G0455	Orthopedic implant movement analysis using paired computed tomography examination of target structure, including data acquisition, preparation, transmission, interpretation, and report
G9143	Preparation with instillation of fecal microbiota by any method, including assessment of donor specimen
J3590	AmnioBand Particulate
L8698	Warfarin responsiveness testing by genetic technique using any method, any number of specimens
Q4103	NeuraWrap Nerve Protector
Q4113	Esano AC
Q4114	Gentrix; Integra flowable wound matrix, injectable, 1 cc
Q4118	GraftJacket Xpress; MatriStem micromatrix, 1 mg
Q4125	AmnioMatrixF4X; ArthroFlex, per sq cm
Q4126	CYGNUS Solo; MemoDerm, DermaSpan, TranZgraft or InteguPly, per sq cm
Q4128	Acesso TrifACA
Q4130	Restorigin Amniotic Fluid; Strattice, per sq cm
Q4133	Revita
Q4137	Amnio Burgeon Membrane and Hydromembrane; AmnioExcel, AmnioExcel Plus or BioDExcel, per sq cm
Q4138	Axolotl DualGraft; BioDFence DryFlex, per sq cm
Q4139	AmnioClear LTC flowable; Amniocyte Flowable Matrix; Amniofix Injectable; Arthrex Amnion Viscous; Pro3 Amniotic Fluid; Renuva Allograft Adipose Matrix; AmnioMatrix or BioDMatrix, injectable, 1 cc
Q4140	Axolotl Ambient; Axolotl Cryo; BioDFence, per sq cm
Q4148	Biodesign, DuraSorb, GORE BIO-A, OrthoADAPT, OviTex, Phasix, SportMesh, TissueMend, Tornier BioFiber, Tutopatch, Viaflow, XenMatrix, XenoSure, Gentrix and related surgical graft products
Q4150	Multiple amniotic, dermal, pericardial, wound, surgical mesh, barrier membrane, and biologic graft products including Actishield, AmnioCare, Amniofix, BioFix, Clarix, CorMatrix, DuraSeal, Endoform, FloGraft, Myriad Matrix,

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	NuCel, Puracol, Simpliderm, VersaShield, VIAGENEX, AlloWrap DS/dry, and others
Q4152	Cygnus; DermaPure, per sq cm
Q4155	BioLab Tri-Membrane Wrap Flow; Neox Flo or Clarix Flo, 1 mg
Q4156	BioDfence DryFlex; Neox 100 or Clarix 100, per sq cm
Q4159	A/C Wrap; Affinity, per sq cm
Q4160	NeuraGen Nerve Guide; NuShield, per sq cm
Q4162	SurGraft TL; WoundEx Flow, BioSkin Flow, 0.5 cc
Q4163	SurGraft FT; WoundEx, BioSkin, per sq cm
Q4164	Esano ACA; Helicoll, per sq cm
Q4166	Coretext and Protext; Cytal, per sq cm
Q4168	Allopatch HD; Amnioband, 1 mg
Q4170	Complete FT; Cygnus, per sq cm
Q4173	NuShield Orthopaedics; NuShield Spine; PalinGen or PalinGen XPlus, per sq cm
Q4174	NuForm; Palingen or ProMatrX, 0.36 mg per 0.25 cc
Q4180	PuraPly Antimicrobial/PuraPly AM; Revita, per sq cm
Q4187	DermaPure; Epicord, per sq cm
Q4189	AmnioMatrix; Artacent AC, 1 mg
Q4192	ProgenaMatrix; Restorigin, 1 cc
Q4193	Clarix 100; Neox 100; Coll-e-Derm, per sq cm
Q4195	Esano A; PuraPly, per sq cm
Q4196	Permacol; PuraPly AM, per sq cm
Q4204	WoundEx Membrane; XWRAP, per sq cm
Q4205	InnovaMatrix FD; Membrane Graft or Membrane Wrap, per sq cm
Q4215	Apollo FT; Axolotl Ambient or Axolotl Cryo, 0.1 mg
Q4222	PalinGen Membrane, PalinGen HydroMembrane, PalinGen Xplus, PalinGen Xplus HydroMembrane; ProgenaMatrix, per sq cm
Q4227	Amnio Surgeon Dual-Layer Membrane; AmnioCore, per sq cm
Q4229	Clarix Cord 1K; Neox 1K; Neox RT; Cogenex Amniotic Membrane, per sq cm
Q4234	SurGraft XT; XCellerate, per sq cm
Q4235	AmnioExCel/AmnioExcel Plus/BioDExCel; AMNIOREPAIR or AltiPly, per sq cm
Q4236	BioDfence; carePATCH, per sq cm
Q4239	Amnio Surgeon XPlus Membrane and XPlus Hydromembrane; Amnio-Maxx or Amnio-Maxx Lite, per sq cm
Q4246	Coll-e-Derm; Coretext or Protext, per cc
Q4250	AlloMend Acellular Dermal Matrix; Arthrex Amnion Matrix; CTM Flow; CTM

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	Thick; Essence Acellular Dermal Matrix; GrowFX Connective Tissue Matrix; Repliform; Tutoplast Pericardium; VNEW Precut Shaped Decellularized Dermal Allograft; AmnioAmp-MP, per sq cm
Q4253	XCelliStem Wound Powder; Zenith Amniotic Membrane, per sq cm
Q4254	NeoThelium 4L; Novafix DL, per sq cm
Q4255	Miscellaneous component, supply or accessory for use with total artificial heart system; REGUaRD, topical use only, per sq cm
Q4262	DermaBind SL, DermaBind SL N, DermaBind SL X; Dual Layer Impax Membrane, per sq cm
Q4263	Summit FX; SurGraft TL, per sq cm
Q4264	carePATCH; Cocoon Membrane, per sq cm
Q4265	Natalin; NeoStim TL, per sq cm
Q4266	Myriad Morcells; NeoStim Membrane, per sq cm
Q4267	Microlyte Matrix; NeoStim DL, per sq cm
Q4268	Summit AC; SurGraft FT, per sq cm
Q4269	SurGraft AC; SurGraft XT, per sq cm
Q4270	Cocoon membrane; Complete SL, per sq cm
Q4271	Clarix Flo; Neox Flo; Complete FT, per sq cm
Q4272	Dual Layer Amnio Burgeon X-Membrane; Esano A, per sq cm
Q4273	Dual Layer Impax Membrane; Esano AAA, per sq cm
Q4274	EPICORD; Esano AC, per sq cm
Q4275	EPIXPRESS; Esano ACA, per sq cm
Q4276	Novafix DL; ORION, per sq cm
Q4331	ArthroFlex/FlexGraft; Axolotl Graft, per sq cm
Q4332	Artacent AC powder; Axolotl DualGraft, per sq cm
Q4345	Helicoll; Matrix HD Allograft Dermis, per sq cm
Q4357	Xcellerate; XWRAP Plus, per sq cm
Q4358	WoundEx Flow; XWRAP Dual, per sq cm
Q4361	DermaSpan, InteguPly, MemoDerm, TranZgraft; EPIXPRESS, per sq cm
Q4363	AmchoMatrixDL; Amnio Burgeon Membrane and Hydromembrane, per sq cm
Q4364	AmnioAMP-MP; Amnio Burgeon Xplus Membrane and Xplus Hydromembrane, per sq cm
Q4365	AlloWrap DS and Dry; Amnio Burgeon Dual-Layer Membrane, per sq cm
Q4366	Cytal; Dual Layer Amnio Burgeon X-Membrane, per sq cm
Q4383	ARTIA Reconstructive Tissue Matrix; AxoGuard Nerve Connector/Protector; Biodesign graft products; Fortiva Porcine Dermis; Integra Reinforcement Matrix; Peri-Guard Repair Patch; PhotoFix; REGENETEN; Restore Orthobiologic

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	Soft Tissue Implant; Axolotl Graft Ultra, per sq cm
Q4385	Amnio-Maxx; Apollo FT, per sq cm
Q4386	Absolv3 Membrane; Acesso TrifACA, per sq cm
Q4387	NeoMatriX; NeoThelium FT, per sq cm
Q4388	NeoStim DL; NeoThelium 4L, per sq cm
Q4389	NeoStim Membrane; NeoThelium 4L Plus, per sq cm
Q4393	Stravix; SurGraft AC, per sq cm
Q4394	Summit AAA; SurGraft ACA, per sq cm
Q4395	Alternating electric fields dosimetry and delivery-simulation modeling, creation and selection of patient-specific array layouts, and placement verification
Q4396	Membrane Graft; Membrane Wrap; Natalin, per sq cm
Q4397	REVIVAL AC; Summit AAA, per sq cm
Q4398	Revive FT; Summit AC, per sq cm
Q4399	Strattice Reconstructive Tissue Matrix; Summit FX, per sq cm
Q4400	Orion Amniotic Membrane; Polygon3 Membrane, per sq cm
Q4401	Percutaneous tissue displacement, any method, including imaging guidance; intra-abdominal/pelvic structures; Absolv3 Membrane, per sq cm
Q4410	Affinity; AmchoMatrixDL, per sq cm
Q4411	AmnioCore; AmniomatrixF4X, per sq cm
Q4413	Complete SL; Cygnus Solo, per sq cm
Q4418	Integra Flowable Wound Matrix
Q4420	NeoThelium 4L+; NuForm, per sq cm
Q4422	Percutaneous tissue displacement, any method, including imaging guidance; soft tissue
Q4423	Axolotl Graft Ultra
Q4424	Renati AC Membrane
Q4428	CuraMatrix
Q4436	Prelect
Q4437	RECELL Autologous Cell Harvesting Device
Q4438	PalinGen Flow; ProMatrX
Q4440	Cogenex Amniotic Membrane
S3854	Gene expression profiling panel for use in the management of breast cancer treatment
S9988	Reguard, for topical use only, per square centimeter
S9990	Services provided as part of a Phase I clinical trial

UTILIZATION REVIEW GUIDELINE**References:**

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