New and Emerging Technologies and Other Non-Covered Services

MEDICARE MEDICAL POLICY NUMBER: 220

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INSTRUCTIONS FOR USE: Company Medicare Medical Policies serve as guidance for the administration of plan benefits and do not constitute medical advice nor a guarantee of coverage. Company Medicare Medical Policies are reviewed annually to guide the coverage or non-coverage decision-making process for services or procedures in accordance with member benefit contracts (otherwise known as Evidence of Coverage or EOCs) and Centers of Medicare and Medicaid Services (CMS) policies, manuals, and other CMS rules and regulations. In the absence of a CMS coverage determination or specific regulation for a requested service, item or procedure, Company policy criteria or applicable utilization management vendor criteria may be applied. These are based upon published, peer-reviewed scientific evidence and evidence-based clinical practice guidelines that are available as of the last policy update. Coverage decisions are made on the basis of individualized determinations of medical necessity and the experimental or investigational character of the treatment in the individual case. In cases where medical necessity is not established by policy for specific treatment modalities, evidence not previously considered regarding the efficacy of the modality that is presented shall be given consideration to determine if the policy represents current standards of care.

The Company reserves the right to determine the application of Medicare Medical Policies and make revisions to these policies at any time. Any conflict or variance between the EOC and Company Medical Policy will be resolved in favor of the EOC.

SCOPE: Providence Health Plan, Providence Health Assurance, and Providence Plan Partners as applicable (referred to individually as "Company" and collectively as "Companies").

K Medicare Only

MEDICARE COVERAGE CRITERIA

IMPORTANT NOTE: More than one Centers for Medicare and Medicaid Services (CMS) reference may apply to the same health care service, such as when more than one coverage policy is available (e.g., both an NCD and LCD exist). All references listed should be considered for coverage decision-making. The Company uses the most current version of a Medicare reference available at the time of publication; however, these websites are not maintained by the Company, so Medicare references and their corresponding hyperlinks may change at any time. If there is a conflict between the Company Medicare Medical Policy and CMS guidance, the CMS guidance will govern.

NOTE: This policy is <u>not</u> an all-inclusive list of services or items not covered or not paid separately by Medicare or by the Company for Medicare Advantage members.

Service	Service Medicare Guidelines		
NOTE: All services in thi	s medical policy are considered not medically necessary for		
Medicare Plan member	S.		
Services or devices subject to an available Medicare coverage policy, guidance, or	 Rationale for non-coverage of the services listed in <u>Table 1</u> is Medicare-based policy or regulation. Sources for non-coverage may include, but are not limited to, any of the following (A-E): 		
regulation	 A. Medicare statutory exclusion; B. Lack of U.S. Food and Drug Administration (FDA) approval (when applicable); To be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved. Any device that has not received the appropriate and necessary regulatory approval would not be considered 		
	medically reasonable or necessary. ¹ C. A Medicare policy (i.e., coverage manual, national coverage determination [NCD], local coverage determination [LCD], or article [LCA], etc.) indicates non-coverage; or		
	 D. Service or technology does not meet Medicare's medical and reasonable threshold requirements under <i>Title XVIII of the Social Security Act, Section</i> 1862(a)(1)(A) (i.e., the service or technology does not "treat or diagnose an illness or injury"); or 		
	E. The service is not anticipated to be a service intended for use by the Medicare population (e.g., services intended for use in the pediatric population)		

IMPORTANT NOTICE: While some services or items may appear medically indicated for an individual, they may also be a direct exclusion of Medicare or the member's benefit plan. Such excluded services or items by Medicare and member EOCs include, but are not limited to, services or procedures considered to be cosmetic, not medical in nature, or those considered not medically reasonable or necessary under *Title XVIII of the Social Security Act*, *§1862(a)(1)(A)*. If there is uncertainty regarding coverage of a service or item, please review the member EOC or submit a pre-service organization determination request. Note that the Medicare Advance Beneficiary Notice of Noncoverage (ABN) form **cannot** be used for Medicare Advantage members. *(Medicare Advance Written Notices of Non-coverage. MLN006266 May 2021)*

POLICY CROSS REFERENCES

None

The full Company portfolio of Medicare Medical Policies is available online and can be accessed here.

POLICY GUIDELINES

MEDICARE AND MEDICAL NECESSITY

"MA organizations may create publicly accessible internal coverage criteria that are based on current evidence in widely used treatment guidelines or clinical literature when coverage criteria are not fully established in applicable Medicare statutes, regulations, NCDs or LCDs. Current, widely-used treatment guidelines are those developed by organizations representing clinical medical specialties, and refers to guidelines for the treatment of specific diseases or conditions. Acceptable clinical literature includes large, randomized controlled trials or prospective cohort studies with clear results, published in a peer-reviewed journal, and specifically designed to answer the relevant clinical question, or large systematic reviews or meta-analyses summarizing the literature of the specific clinical question."² (CFR § 422.101(b)(6))

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The Company policy for *PHA Medicare Medical Policy Development and Application* (MP50) provides details regarding Medicare's definition of medical necessity and the hierarchy of Medicare references and resources during the development of medical policies, as well as the Plan's use of evidence-based processes for policy development. In the absence of Medicare coverage policies (e.g., manual, national coverage determination [NCD], local coverage determination [LCD], article [LCA], etc.), Medicare regulatory guidelines do allow Medicare Advantage Organizations (MAOs) to make their own coverage determinations, as long as the MAO applies an objective, evidence-based process, based on authoritative evidence. (*Medicare Managed Care Manual, Ch. 4, §90.5*)

Following an evidence-based assessment of current peer-reviewed medical literature, the Company may consider certain medical services or technologies to be "investigational." The term "investigational" is not limited to devices or technologies which have not received the appropriate governmental regulatory approval (e.g., U.S. Food and Drug Administration [FDA]), but rather may also mean the procedure, device, or technology does not meet all of the Company's technology assessment criteria, as detailed within the Company policy for *Definition: Experimental/Investigational* (MP5).

Only medically reasonable and necessary services or items which treat illness or injury are eligible for Medicare coverage, as outlined in *Title XVIII of the Social Security Act, §1862(a)(1)(A)*. Thus, services which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (*Medicare Claims Processing Manual, Ch. 23, §30 A*)

INVESTIGATIONAL DEVICE EXEMPTION (IDE) STUDIES

Some services may be listed as not medically necessary in this policy, but if rendered in the context of a **Medicare-approved** IDE study, the non-coverage position can be reconsidered. Documentation must support participation in the IDE study, as well as identify the study in question, including the national clinical trial (NCT) number. To view Medicare-approved IDE studies, see the <u>CMS website for IDEs</u>.

REGULATORY STATUS

U.S. FOOD & DRUG ADMINISTRATION (FDA)

While clearance by the Food and Drug Administration (FDA) is a prerequisite for Medicare coverage, the 510(k) premarket clearance process does not in itself establish medical necessity. Medicare payment policy is determined by the interaction of numerous requirements, including but not limited to, the availability of a Medicare benefit category and other statutory requirements, coding and pricing guidelines, as well as national and local coverage determinations and clinical evidence.

BILLING GUIDELINES AND CODING

GENERAL

Claims for these services will always be reviewed when they are billed with an unlisted procedure code.

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CODE	S*	
СРТ		See Tables below
HCPCS		See Tables below

NOTE: This is <u>not</u> an all-inclusive list of services or items not covered or not paid separately by Medicare or by the Company for Medicare Advantage members. Exclusion, removal, or omission from this list does <u>not</u> necessarily imply a service or technology is covered.

Table 1 Set: CPT/HCPCS codes that are <u>not medically necessary</u> based on *Medicare policy, guideline, or regulation*.

NOTES: Specific devices and products listed in the following tables may not be an all-inclusive list, but rather may only represent examples of the relevant technology. The "Effective Date" listed is the date the code was effective, which may or may not be the same date Medicare or the Medicare contractor (MAC) non-coverage position was effective.

Table 1: C article.	Table 1: CPT/HCPCS codes that are <u>not medically necessary</u> based on a specific <i>Medicare policy or article</i> .		
Code	Description	Medicare Rationale, Product, and Manufacturer (when available or applicable, may not be an all-inclusive list or may be examples only)	
97026	Application of a modality to 1 or more areas; infrared	 Medicare Status "R" code NCD for Infrared Therapy Devices (270.6) LCA: Billing and Coding: Wound Care (A55909) 	
0219T	Placement of a posterior intrafacet implant(s), unilateral or bilateral, including imaging and placement of bone graft(s) or synthetic device(s), single level; cervical	LCA: Billing and Coding: Facet Joint Interventions for Pain Management (<u>A58405</u>)	
0220T	Placement of a posterior intrafacet implant(s), unilateral or bilateral, including imaging and placement of bone graft(s) or synthetic device(s), single level; thoracic		
0221T	Placement of a posterior intrafacet implant(s), unilateral or bilateral, including imaging and placement of bone graft(s) or synthetic device(s), single level; lumbar		
0222T	Placement of a posterior intrafacet implant(s), unilateral or bilateral, including imaging and placement of bone graft(s) or synthetic device(s), single level; each		

Table 1.1

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Table 1: Cl article.	PT/HCPCS codes that are <u>not medically necessar</u>	<u>y</u> based on a specific <i>Medicare policy or</i>
	additional vertebral segment (List separately in addition to code for primary procedure)	
0469Т	Retinal polarization scan, ocular screening with on-site automated results, bilateral	Medicare Status "N" code. As a non- covered Traditional Medicare service, this would be covered for Medicare Advantage plans only if there is a Supplemental Benefit available that calls this service out directly.
0114U	Gastroenterology (Barrett's esophagus), VIM and CCNA1 methylation analysis, esophageal cells, algorithm reported as likelihood for Barrett's esophagus	EsoGuard [™] (Lucid Diagnostics) Lucid Diagnostics is headquartered in NY, but laboratory testing services are performed in Lake Forest, CA. Therefore, the Noridian J-E <u>LCD L39262</u> and <u>LCA</u> <u>A59032</u> is applied.
0312U	Autoimmune diseases (eg, systemic lupus erythematosus [SLE]), analysis of 8 IgG autoantibodies and 2 cell-bound complement activation products using enzyme-linked immunosorbent immunoassay (ELISA), flow cytometry and indirect immunofluorescence, serum, or plasma and whole blood, individual components reported along with an algorithmic SLE-likelihood assessment <i>(Effective 4/1/2022)</i>	Avise [®] Lupus, Exagen Inc. (Vista, California) This test is considered not medically reasonable or necessary. The <u>LCA A59641</u> requires proteomic testing to undergo a technical assessment (TA) to determine Medicare coverage. This test has not yet undergone the required TA review by the MoIDX Contractor and therefore does not meet the LCA requirements for coverage.
0352U	TERMED 12/31/2024Infectious disease (bacterial vaginosis and vaginitis), multiplex amplified probe technique, for detection of bacterial vaginosis-associated bacteria (BVAB-2, Atopobium vaginae, and Megasphera type 1), algorithm reported as detected or not detected and separate detection of Candida species (C. albicans, C. tropicalis, C. parapsilosis, C. dubliniensis), Candida glabrata/Candida krusei, and trichomonas vaginalis, vaginal-fluid specimen, each result reported as detected or not detected	Xpert [®] Xpress MPV (Cepheid [®]) This test is non-covered as a screening test under Medicare. Coverage exceptions may be made on appeal if not used as a screening tool when coverage criteria from <u>LCD L39003</u> are met and if the test is included as a covered test in the companion LCA (<u>A58726</u>).
0369U	TERMED 6/30/2025Infectious agent detection by nucleic acid(DNA and RNA), gastrointestinal pathogens,31 bacterial, viral, and parasitic organismsand identification of 21 associatedantibiotic resistance genes, multiplexamplified probe technique	GI assay (Gastrointestinal Pathogen with ABR) (Lab Genomics LLC, Thermo Fisher Scientific; California) LCD L39001 requires TA review in the absence of FDA approval. This test does not have the required TA review nor is it

Table 1: CP article.	T/HCPCS codes that are <u>not medically necessar</u>	<u>y</u> based on a specific <i>Medicare policy or</i>
		included as a covered test in the companion LCA (<u>A58720</u>).
0370U	TERMED 6/30/2025Infectious agent detection by nucleic acid(DNA and RNA), surgical wound pathogens,34 microorganisms and identification of 21associated antibiotic-resistance genes,multiplex amplified probe technique, wound	Lesion Infection (Wound) (Lab GenomicsLLC, Thermo Fisher Scientific; California)LCD-L39001 requires TA review in theabsence of FDA approval. This test doesnot have the required TA review nor is it
	swab	included as a covered test in the companion LCA (<u>A58720</u>).
0371U	Infectious agent detection by nucleic acid (DNA or RNA), genitourinary pathogen, semiquantitative identification, DNA from	Qlear UTI (Lifescan Labs of Illinois and Thermo Fisher Scientific, California)
	16 bacterial organisms and 1 fungal organism, multiplex amplified probe technique via quantitative polymerase chain reaction (qPCR), urine	<u>LCD L39001</u> requires TA review in the absence of FDA approval. This test does not have the required TA review nor is it included as a covered test in the companion LCA (<u>A58720</u>).
0372U	Infectious disease (genitourinary pathogens), antibiotic-resistance gene detection, multiplex amplified probe technique, urine, reported as an antimicrobial stewardship risk score	Qlear UTI – Reflex ABR (Lifescan Labs of Illinois and Thermo Fisher Scientific, California) <u>LCD L39001</u> requires TA review in the absence of FDA approval. This test does not have the required TA review nor is it included as a covered test in the
0373U	TERMED 6/30/2025 Infectious agent detection by nucleic acid	companion LCA (<u>A58720</u>). Respiratory Pathogen with ABR (RPX) (Lab Genomics LLC and Thermo Fisher
	(DNA and RNA), respiratory tract infection, 17 bacteria, 8 fungus, 13 virus, and 16 antibiotic resistance genes, multiplex amplified probe technique, upper or lower respiratory specimen	Scientific, California) <u>LCD L39001</u> requires TA review in the absence of FDA approval. This test does not have the required TA review nor is it included as a covered test in the companion LCA (<u>A58720</u>).
0374U	TERMED 6/30/2025 Infectious agent detection by nucleic acid (DNA or RNA), genitourinary pathogens, identification of 21 bacterial and fungal organisms and identification of 21 associated antibiotic-resistance genes, multiplex amplified probe technique, urine	Urogenital Pathogen with Rx Panel (UPX) (Lab Genomics LLC and Thermo Fisher Scientific, California) LCD L39001 requires TA review in the absence of FDA approval. This test does not have the required TA review nor is it included as a covered test in the companion LCA (A58720).

Table 1: CP article.	T/HCPCS codes that are <u>not medically necessar</u>	<u>y</u> based on a specific <i>Medicare policy or</i>
0387U	Oncology (melanoma), autophagy and beclin 1 regulator 1 (AMBRA1) and loricrin (AMLo) by immunohistochemistry, formalinfixed paraffin-embedded (FFPE) tissue, report for risk of progression	AMBLor [®] Melanoma Prognostic test, Avero [®] Diagnostics (UK based company, with locations in Washington and Texas) <u>LCD L37748</u> requires TA review. This test does not have the required TA review.
0452U	Oncology (bladder), methylated PENK DNA detection by linear target enrichment- quantitative methylation-specific real-time PCR (LTE-qMSP), urine, reported as likelihood of bladder cancer	EarlyTect [®] Bladder Cancer Detection (EarlyTect [®] BCD) (Promis Diagnostics, Inc.; California) LCD for Lab: Bladder/Urothelial Tumor Markers (<u>L36678</u>)
0506U	Gastroenterology (Barrett's esophagus), esophageal cells, DNA methylation analysis by next-generation sequencing of at least 89 differentially methylated genomic regions, algorithm reported as likelihood for Barrett's esophagus	EndoSign® Barrett's Esophagus Test (Cyted Health Inc.) According to this laboratory's website, this test is not performed in the U.S. (it is performed in the UK). According to <u>Medicare Benefit Policy Manual, Chapter</u> <u>16, 10 - General Exclusions from</u> <u>Coverage</u> , services which are "not provided within United States" are general exclusion from Medicare coverage, and therefore, testing services that are not performed in the U.S. would also be ineligible for Medicare coverage. When or if these testing services become available in the U.S., coverage can be reevaluated.
0531U	Infectious disease (acid-fast bacteria and invasive fungi), DNA (673 organisms), next- generation sequencing, plasma	NeXGen [™] Fungal/AFB NGS Assay (Eurofins Viracor, LLC & Exagen Inc.; Kansas or Missouri) The states of Kansas and Missouri are served by the Medicare Contractor (MAC) Wisconsin Physician Services. Molecular diagnostic tests in the WPS service area are subject to LCD <u>L36807</u> , which states a technical assessment (TA) is required to determine Medicare coverage. This test has not yet undergone the required TA review by the MoIDX Contractor and therefore does not meet requirements for coverage.
0573U	Oncology (pancreas), 3 biomarkers (glucose, carcinoembryonic antigen, and gastricsin), pancreatic cyst lesion fluid, algorithm	Amplified Sciences PanCystPro™ (Amplified Sciences, Inc.; California)

Table 1: CP article.	PT/HCPCS codes that are <u>not medically necessar</u>	<u>y</u> based on a specific <i>Medicare policy or</i>
	reported as categorical mucinous or non- mucinous	The states of California is served by the Medicare Contractor (MAC) Noridian, under Jurisdiction E (J-E). Molecular diagnostic tests in the Noridian service area are subject to LCD <u>L35160</u> , which states a technical assessment (TA) is required to determine Medicare coverage. This test has not yet undergone the required TA review by the MoIDX Contractor and therefore does not meet requirements for coverage.
A6000	Non-contact wound warming wound cover for use with the non-contact wound warming device and warming card	 Medicare Status "N" code Noridian "Noncovered Items" list⁴ NCD for Noncontact Normothermic Wound Therapy (270.2)
E0469	Lung expansion airway clearance, continuous high frequency oscillation, and nebulization device	Volara [™] System (Baxter) NCD: Intrapulmonary Percussive Ventilator (IPV) (240.5)
A7021	Supplies and accessories for lung expansion airway clearance, continuous high frequency oscillation, and nebulization device (e.g., handset, nebulizer kit, biofilter)	Note: This non-coverage position is specific to the use of oscillation and lung expansion (OLE) therapy in a home setting. It would not apply to OLE therapy rendered in a facility setting. OLE therapy in a facility should not be reported with this code.
E0231	Non-contact wound warming device (temperature control unit, ac adapter and power cord) for use with warming card and wound cover.	 NCD: Noncontact Normothermic Wound Therapy (270.2)
E0232	Warming card for use with the non contact wound warming device and non contact wound warming wound cover	
M0076	Prolotherapy	 All of the following Medicare references apply to Prolotherapy (note that some may only be relevant to specific indications). NCD: Prolotherapy, Joint Sclerotherapy, and Ligamentous Injections with Sclerosing Agents (150.7) Local Coverage Determination (LCD): Facet Joint Interventions for Pain Management (L38803) LCD: Trigger Point Injections (L36859)

Table 1: Cl article.	PT/HCPCS codes that are <u>not medically necessar</u>	<u>y</u> based on a specific <i>Medicare policy or</i>
		 Local Coverage Article (LCA): Billing and Coding: Platelet Rich Plasma Injections for Non-Wound Injections (A58790)
M0300	IV chelation therapy (chemical endarterectomy)	 NCD: Chelation Therapy for Treatment of Atherosclerosis (20.21) NCD: Ethylenediamine-Tera-acetic (EDTA) Chelation Therapy for Treatment of Atherosclerosis (20.22)
A4575	Topical hyperbaric oxygen chamber, disposable	LCD: Oxygen and Oxygen Equipment (L33797)
E0446	Topical oxygen delivery system, not otherwise specified, includes all supplies and accessories	

Bone Strength and Fracture Risk Assessments, Including Structural Condition of the Bone Device/Product, and Manufacturer TBS iNsight™ Information (w + en applicable) VirtuOst Fracture Risk Assessment Code(s) 77089 Trabecular bone score (TBS), structural condition of the bone microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk 77090 Trabecular bone score (TBS), structural condition of the bone microarchitecture; technical preparation and transmission of data for	-
Manufacturer Information (w+en applicable) VirtuOst Fracture Risk Assessment Code(s) 77089 Trabecular bone score (TBS), structural condition of the bone microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk 77090 Trabecular bone score (TBS), structural condition of the bone microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk	-
Information (weight applicable) VirtuOst Fracture Risk Assessment Code(s) 77089 Information (weight applicable) Trabecular bone score (TBS), structural condition of the bone Information (weight applicable) Information (weight applicable) Information (weight applicable) Trabecular bone score (TBS), structural condition of the bone Information (weight applicable) Information (TBS), structural condition of the bone Information (weight applicable) Information (TBS), structural condition of the bone Information (Weight applicable) Trabecular bone score (TBS), structural condition of the bone Information (TBS), structural condition of the bone Information (TBS), structural condition of the bone	-
applicable) Visit Code(s) 77089 Trabecular bone score (TBS), structural condition of the bone microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk 77090 Trabecular bone score (TBS), structural condition of the bone microarchitecture; technical preparation and transmission of data for	-
Code(s)77089Trabecular bone score (TBS), structural condition of the bone microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk77090Trabecular bone score (TBS), structural condition of the bone microarchitecture; technical preparation and transmission of data for	-
 microarchitecture; using dual X-ray absorptiometry (DXA) or other imag data on gray-scale variogram, calculation, with interpretation and report fracture-risk 77090 Trabecular bone score (TBS), structural condition of the bone microarchitecture; technical preparation and transmission of data for 	-
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77090 Trabecular bone score (TBS), structural condition of the bone microarchitecture; technical preparation and transmission of data for	
microarchitecture; technical preparation and transmission of data for	
and wish to be used a new dealers.	
analysis to be performed elsewhere	
77091 Trabecular bone score (TBS), structural condition of the bone	
microarchitecture; technical calculation only	
77092 Trabecular bone score (TBS), structural condition of the bone	
microarchitecture; interpretation and report on fracture-risk only by oth	er
qualified health care professional	
0554T Bone strength and fracture risk using finite element analysis of function	I
data, and bone-mineral density, utilizing data from a computed tomogra	phy
scan; retrieval and transmission of the scan data, assessment of bone	
strength and fracture risk and bone mineral density, interpretation and	
report	
0555T Bone strength and fracture risk using finite element analysis of function	1
data, and bone-mineral density, utilizing data from a computed tomogra	phy
scan; retrieval and transmission of the scan data	
0556T Bone strength and fracture risk using finite element analysis of function	
data, and bone-mineral density, utilizing data from a computed tomogra	phy
scan; assessment of bone strength and fracture risk and bone mineral	
density	

	0557T	Bone strength and fracture risk using finite element analysis of functional	
		data, and bone-mineral density, utilizing data from a computed tomography	
		scan; interpretation and report	
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline	
Coverage Note	S		
		Medicare Program Integrity Manual, Chapter 3 - Verifying Potential	
		Errors and Taking Corrective Actions, <u>§3.6.2.1 - Coverage Determinations</u>	
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From	
		Coverage, §10 - General Exclusions from Coverage	
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From	
		Coverage, §90 - Routine Services and Appliances	
		Medicare-Based Non-Coverage Rationale	
		The Medicare Program Integrity Manual, Chapter 3, §3.6.2.1 states that an	
		item or service may be denied coverage if the "The item or service is	
		statutorily excluded on grounds other than §1862(a) (1) (A) of the Act."	
		According to Medicare Benefit Policy Manual, Chapter 16 - General	
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine	
		services and appliances" are a general exclusion from Medicare coverage	
		(with the exception of preventive services noted in section 42 CFR	
		411.15(a)(1)).	
		The above services are used as routine screening tools. While bone mass	
		measurements (BMM) and bone mineral density screening are covered	
		Medicare preventive benefits, BMM and bone density screenings outside the	
		scope of NCD 150.3 would be considered non-covered under Medicare	
		statute. ³ These services are not included as part of the Medicare Preventive	
		Services chart, found on the CMS website. Therefore, if these services are	
		performed for a Medicare Advantage member, they will be considered not	
		medically necessary under Section 1862(a)(1) of the Social Security Act.	

3-D Printed Anatomic Models and Pre-planning of Procedures		
Device/Produc	t, and	
Manufacturer		
Information (w	/hen	
applicable)		
Code(s)	0559T	Anatomic model 3D-printed from image data set(s); first individually
		prepared and processed component of an anatomic structure
	0560T	Anatomic model 3D-printed from image data set(s); each additional
		individually prepared and processed component of an anatomic structure
		(List separately in addition to code for primary procedure)
	0561T	Anatomic guide 3D-printed and designed from image data set(s); first
		anatomic guide

	0562T	Anatomic guide 3D-printed and designed from image data set(s); each additional anatomic guide (List separately in addition to code for primary procedure)
	C8001	3D anatomical segmentation imaging for preoperative planning, data preparation and transmission, obtained from previous diagnostic computed tomographic or magnetic resonance examination of the same anatomy
	C9793	3D predictive model generation for pre-planning of a cardiac procedure, using data from cardiac computed tomographic angiography and/or magnetic resonance imaging with report
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Notes		· · · · · · · · · · · · · · · · · · ·
Coverage Notes	3	 Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, <u>§10.2 – Basic Rule</u> §1862(a)(1)(A) of the Act Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From
		 <u>Coverage, §10 - General Exclusions from Coverage</u> CMS National Correct Coding Initiative (NCCI), Chapter 1 – General Correct Coding Policies, B. Coding Based on Standards of Medical/Surgical Practice
		 CMS NCCI), Chapter 1 – General Correct Coding Policies, C. Medical/Surgical Package
		Medicare-Based Non-Coverage Rationale
		Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, <u>§10.2 – Basic Rule</u>
		"The scope of the benefits under Part A and Part B is defined in the Act. Part A and Part B benefits are discussed in sections 1812 and 1832 of the Act, respectively, while section 1861 of the Act lays out the definition of medical and other health services. Specific health care services must fit into one of these benefit categories, and not be otherwise excluded from coverage under the Medicare program (see §1862 for exclusions)
		"In general, Medicare coverage and payment is contingent upon a determination that:
		 A service is in a covered benefit category; A service is not specifically excluded from Medicare coverage by the Act; and
		• The item or service is "reasonable and necessary" for the diagnosis or treatment of an illness or injury, to improve functioning of a malformed body member, or is a covered preventive service."
		According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "not reasonable and necessary" are a general exclusion from Medicare coverage.

The services listed in this table are not medically reasonable or necessary under Medicare and $\$1862(a)(1)(A)$ because the intended purpose of the service or item is not to diagnose or treat an illness or injury or improve the function of a malformed body member, nor does it fall under a covered preventive service category. Therefore, the nature of the service represented by the code does not meet Medicare coverage requirements.
In addition, pre-procedural services which integral to a surgical procedure are considered a component of the surgical procedure and are not eligible for separate payment because "[s]ervices integral to HCPCS/CPT code defined procedures are included in those procedures based upon the standards of medical/surgical practice."

Table 1.4	
Vertebral Body Tetheri	ng
Device/Product, and Manufacturer Information (when applicable)	Tether Vertebral Body Tethering System (Zimmer Biomet)
Code(s) 0656T	Anterior lumbar or thoracolumbar vertebral body tethering, anterior; up to 7 vertebral segments
0657T	Anterior lumbar or thoracolumbar vertebral body tethering, anterior; 8 or more vertebral segments
0790T	Revision (eg, augmentation, division of tether), replacement, or removal of thoracolumbar or lumbar vertebral body tethering, including thoracoscopy, when performed
22836	Anterior thoracic vertebral body tethering, including thoracoscopy, when performed; up to 7 vertebral segments
22837	Anterior thoracic vertebral body tethering, including thoracoscopy, when performed; 8 or more vertebral segments
22838	Revision (eg, augmentation, division of tether), replacement, or removal of thoracic vertebral body tethering, including thoracoscopy, when performed
Medicare and Coverage Notes	 Applicable Medicare Coverage Policy, Regulation, or Guideline CMS Final Rule CMS-3421-FN. Medicare Program; Transitional Coverage for Emerging Technologies Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, §10.2 - Basic Rule §1862(a)(1)(A) of the Act Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, §10 - General Exclusions from Coverage Medicare-Based Non-Coverage Rationale Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, §10.2 - Basic Rule

"The scope of the benefits under Part A and Part B is defined in the Act. Part A and Part B benefits are discussed in sections 1812 and 1832 of the Act, respectively, while section 1861 of the Act lays out the definition of medical and other health services. Specific health care services must fit into one of these benefit categories, and not be otherwise excluded from coverage under the Medicare program (see §1862 for exclusions)
"In general, Medicare coverage and payment is contingent upon a determination that:
 A service is in a covered benefit category; A service is not specifically excluded from Medicare coverage by the Act; and The item or service is "reasonable and necessary" for the diagnosis or treatment of an illness or injury, to improve functioning of a malformed body member, or is a covered preventive service."
According to <u>Medicare Benefit Policy Manual, Chapter 16 - General</u> <u>Exclusions From Coverage, 10 - General Exclusions from Coverage</u> , services which are "not reasonable and necessary" are a general exclusion from Medicare coverage.
"[I]ndividuals representative of the Medicare population are often excluded from the studies used to generate the evidence reviewed by FDA Where there is limited evidence on the health outcomes for individuals in the Medicare population, there may be insufficient evidence to support a full coverage national coverage determination under section 1862(a)(1)(A) of the Act" When studies exclusion criteria results in exclusion of older patients with comorbidities, then "a device's potential benefits and harms for older patients with more comorbidities may not be well understood at the time of FDA market authorization" and "when there is a lack of evidence specific to the Medicare population, it makes it difficult for CMS to ensure that devices are not posing additional risks in the Medicare population."
The services listed in this table are not medically reasonable or necessary under Medicare and §1862(a)(1)(A) because this system received FDA humanitarian device exemption (HDE) approval in August, 2019 as a treatment of skeletally immature patients. Given that the age of Medicare entitlement is 65 years of age (with some exception), the majority of the Medicare population would not be considered "skeletally immature," making the use of this system on these individuals outside of the HUD intended use and thus outside the scope of study regarding safety, efficacy, and impact on health outcomes.

Digital Therapy Treatment of Amblyopia

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	87T	Luminopia (Luminopia Inc.) Treatment of amblyopia using an online digital program; device supply,
		Treatment of amblyonia using an online digital program: device supply
06		educational set-up, and initial session
	88T	Treatment of amblyopia using an online digital program; assessment of patient performance and program data by physician or other qualified health care professional, with report, per calendar month
07	04T	Remote treatment of amblyopia using an eye tracking device; device supply with initial set-up and patient education on use of equipment
07	05T	Remote treatment of amblyopia using an eye tracking device; surveillance center technical support including data transmission with analysis, with a minimum of 18 training hours, each 30 days
07	О6Т	Remote treatment of amblyopia using an eye tracking device; interpretation and report by physician or other qualified health care professional, per calendar month
A9	292	Prescription digital visual therapy, software-only, FDA cleared, per course of treatment
Coverage Notes		 Applicable Medicare Coverage Policy, Regulation, or Guideline CMS Final Rule CMS-3421-FN. Medicare Program; Transitional Coverage for Emerging Technologies Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, §10.2 – Basic Rule §1862(a)(1)(A) of the Act Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, §10 - General Exclusions from Coverage Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, §10 - Coverage of Medical Devices Medicare-Based Non-Coverage Rationale Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, §10.2 – Basic Rule "The scope of the benefits under Part A and Part B is defined in the Act. Part A and Part B benefits are discussed in sections 1812 and 1832 of the Act, respectively, while section 1861 of the Act lays out the definition of medical and other health services. Specific health care services must fit into one of these benefit categories, and not be otherwise excluded from coverage under the Medicare program (see §1862 for exclusions) "In general, Medicare coverage and payment is contingent upon a determination that: A service is in a covered benefit category;

• A service is not specifically excluded from Medicare coverage by the Act; and

• The item or service is "reasonable and necessary" for the diagnosis or treatment of an illness or injury, to improve functioning of a malformed body member, or is a covered preventive service."

According to <u>Medicare Benefit Policy Manual, Chapter 16 - General</u> <u>Exclusions From Coverage, 10 - General Exclusions from Coverage</u>, services which are "not reasonable and necessary" are a general exclusion from Medicare coverage.

"[I]ndividuals representative of the Medicare population are often excluded from the studies used to generate the evidence reviewed by FDA... Where there is limited evidence on the health outcomes for individuals in the Medicare population, there may be insufficient evidence to support a full coverage national coverage determination under section 1862(a)(1)(A) of the Act..." When studies exclusion criteria results in exclusion of older patients with comorbidities, then "a device's potential benefits and harms for older patients with more comorbidities may not be well understood at the time of FDA market authorization" and "when there is a lack of evidence specific to the Medicare population, it makes it difficult for CMS to ensure that devices are not posing additional risks in the Medicare population."

As of the most recent review, the CureSight[™] system has been studied for use in the pediatric population, there is no study regarding the application to Medicare population. Luminopia is indicated for use in patients aged 4-7 years old.

The services listed in this table are **not medically reasonable or necessary** under Medicare and \$1862(a)(1)(A) because it is not expected there will be clinical utility studies applicable to the Medicare population as these products are not meant to be used in older individuals.

In addition, as of the most recent review, CureSight[™] has not received FDA approval. According to the *Medicare Benefit Policy Manual, Chapter 14*, while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved. Devices which have not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy **and would be considered investigational or experimental**. According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services and items which are "investigational" are a general exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (*Medicare Claims Processing Manual, Ch. 23, §30 A*)

Products with	No Medio	care Benefit Category	
Device/Produc Manufacturer		VIBRANT [®] System (Vibrant Gastro System)	
Information (when applicable)		Natural Cycles	
		Exersides™ Refraint™ System	
		The PainShield MD	
		Cue Reader	
Code(s)	A9268	Programmer for transient, orally ingested capsule	
	A9269	Programable, transient, orally ingested capsule, for use with external programmer, per month	
	A9293	Fertility cycle (contraception & conception) tracking software application, FDA cleared, per month, includes accessories (e.g., thermometer)	
	E0711	Upper extremity medical tubing/lines enclosure or covering device, restricts elbow range of motion	
	K1004	Low frequency ultrasonic diathermy treatment device for home use	
	K1035	Molecular diagnostic test reader, nonprescription self-administered and self- collected use, FDA approved, authorized or cleared	
	K1036	Supplies and accessories (e.g., transducer) for low frequency ultrasonic diathermy treatment device, per month	
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline	
Coverage Note		 Medicare Program Integrity Manual, Chapter 3 - Verifying Potential Errors and Taking Corrective Actions, <u>§3.6.2.1 - Coverage</u> <u>Determinations</u> Medicare Benefit Policy Manual, Chapter 15 – Covered Medical and Other Health Services, <u>§110.8 – DMEPOS Benefit Category</u> <u>Determinations</u> (Search for keywords of the code description to find the product in the 110.8 table) 	
		Medicare-Based Non-Coverage Rationale	
		The Medicare Program Integrity Manual, Chapter 3, §3.6.2.1 states that an item or service may be denied coverage if the "item or service does not fall into a Medicare benefit category."	
		While CMS developed a HCPCS code for each of the above products, CMS also concluded that none of the products represented by the above HCPCS codes fall under a benefit category under Medicare. CMS may also determine that devices may be classified as DME, but may still not fall into an established <i>DMEPOS</i> benefit category.	
		Therefore, because these items do not fall into a Medicare benefit category, they are not medically necessary .	

The CMS decision specific to each product can be found in the following
citations:
• VIBRANT [®] System: https://www.cms.gov/files/document/2023-hcpcs-
application-summary-biannual-1-2023-non-drug-and-non-biological-
items-and-services.pdf
• *Natural Cycles: https://www.cms.gov/files/document/2023-hcpcs-
application-summary-biannual-2-2023-non-drug-and-non-biological-
items-and-services.pdf
• Exersides™ Refraint™ System:
https://www.cms.gov/files/document/2022-hcpcs-application-
summary-biannual-2-2022-non-drug-and-non-biological-items-and- services.pdf
 PainShield[®]: https://www.cms.gov/files/document/2022-hcpcs-
application-summary-biannual-1-2022-non-drug-and-non-biological-
items-and-services.pdf
Cue Reader: https://www.cms.gov/files/document/2022-hcpcs-
application-summary-biannual-2-2022-non-drug-and-non-biological-
items-and-services.pdf
*Evidence-Based Review of Natural Cycles
A review of the ECRI, Hayes, Cochrane, and PubMed databases was
conducted regarding the use of Natural Cycles and following an evidence
based review, it was determined:
"Evidence is currently insufficient to support the use of this service.
The evidence base lacks comparison to other birth control methods.
Despite data on more than 60,000 people, all studies provide very-
low-quality evidence. Available studies are at high risk of bias
because of lack of control groups. Studies included convenience
samples of individuals subscribing to the service and willing to be
included in the studies and may not be representative of the general
population who may use the app. Studies also had high attrition. For
people who provide data through 12-month follow-up, Natural Cycles' effectiveness is reported at ≥92%; 70% is considered typical
for the conventional fertility awareness method. Randomized
controlled trials comparing Natural Cycles with other birth control
methods are needed to assess comparative effectiveness, but none
are ongoing."

Proprietary Human Papillomavirus (HPV) Testing		
Device/Product, and	HPV, High-Risk, Male Urine (Molecular Testing Labs; Washington)	
Manufacturer		
Information (when	PreTect HPV-Proofer' 7 (GenePace Laboratories, LLC & PreTech) (GenePace	
applicable)	Laboratories, LLC; Indiana)	

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		Omnipathology Oropharyngeal HPV PCR Test (OmniPathology Solutions, California)
		Proofer 7 HPV mRNA E6 and E7 Biomarker (Global Diagnostics Labs, LLC, PreTect AS, a Mel-Mont Medical, Inc.; Georgia)
		QuantiVirus™ HPV E6/E7 mRNA Test for Cervical Cancer (DiaCarta Inc.; California)
Code(s)	0096U	Human papillomavirus (HPV), high-risk types (ie, 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68), male urine
	0354U	TERMED 3/31/2024
		Human papilloma virus (HPV), high risk types (ie, 16, 18, 31, 33, 45, 52 and 58) qualitative mRNA expression of E6/E7 by quantitative polymerase chain reaction (qPCR)
	0429U	Human papillomavirus (HPV), oropharyngeal swab, 14 high-risk types (ie, 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, and 68)
	0463U	Oncology (cervix), mRNA gene expression profiling of 14 biomarkers (E6 and E7 of the highest-risk human papillomavirus [HPV] types 16, 18, 31, 33, 45, 52, 58), by real-time nucleic acid sequence-based amplification (NASBA), exo- or endocervical epithelial cells, algorithm reported as positive or negative for increased risk of cervical dysplasia or cancer for each biomarker
	050211	
	0502U	Human papillomavirus (HPV), E6/E7 markers for high-risk types (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, and 68), cervical cells, branched-chain capture hybridization, reported as negative or positive for high risk for HPV
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Note	S	
		 Medicare Program Integrity Manual, Chapter 3 - Verifying Potential Errors and Taking Corrective Actions, <u>§3.6.2.1 - Coverage</u>
		Determinations
		<u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u>
		Coverage, §10 - General Exclusions from Coverage
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From
		Coverage, §90 - Routine Services and Appliances
		Medicare-Based Non-Coverage Rationale
		The Medicare Program Integrity Manual, Chapter 3, §3.6.2.1 states that an
		item or service may be denied coverage if the "The item or service is
		statutorily excluded on grounds other than §1862(a) (1) (A) of the Act."
		According to Medicare Benefit Policy Manual, Chapter 16 - General
		According to <u>Medicare Benefit Policy Manual, Chapter 16 - General</u> Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine services and appliances" are a general exclusion from Medicare coverage
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine services and appliances" are a general exclusion from Medicare coverage (with the exception of preventive services noted in section 42 CFR
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine services and appliances" are a general exclusion from Medicare coverage (with the exception of preventive services noted in section 42 CFR 411.15(a)(1)).
		Exclusions From Coverage, 10 - General Exclusions from Coverage, "routine services and appliances" are a general exclusion from Medicare coverage (with the exception of preventive services noted in section 42 CFR 411.15(a)(1)). All of the above listed tests are used for HPV screening, and HPV screening

physician for diagnostic or clinical decision-making are also non-covered
under Medicare, which means at-home or tests available without a
physician order would also be non-covered under Medicare.

Products and	Services V	Vhich Do Not Meet Medicare's Statutory Requirements for Coverage
Device/Product, and Manufacturer Information (when applicable)		Not medically reasonable or necessary under Medicare and §1862(a)(1)(A). This is artificial intelligence for the detection of vertebral fractures, reading what has already been read by the treating physician or radiologist. This does not "treat or diagnosis" an illness or injury and thus does not meet Medicare's medical necessity threshold.
Code(s)	0689T	Quantitative ultrasound tissue characterization (non-elastographic), including interpretation and report, obtained without diagnostic ultrasound examination of the same anatomy (eg, organ, gland, tissue, target structure)
	0690T	Quantitative ultrasound tissue characterization (non-elastographic), including interpretation and report, obtained with diagnostic ultrasound examination of the same anatomy (eg, organ, gland, tissue, target structure) (List separately in addition to code for primary procedure)
	0691T	Automated analysis of an existing computed tomography study for vertebral fracture(s), including assessment of bone density when performed, data preparation, interpretation, and report <u>(This is artificial intelligence for the detection of vertebral fractures, reading what has already been read by the treating physician or radiologist. This does not "treat or diagnosis" an illness or injury and thus does not meet Medicare's medical necessity threshold.)</u>
	0693T	Comprehensive full body computer-based markerless 3D kinematic and kinetic motion analysis and report (<i>OpenPose-based markerless motion capture - This system has been studied for use in relation to sports medicine.</i>)
	0697T	Quantitative magnetic resonance for analysis of tissue composition (eg, fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained without diagnostic MRI examination of the same anatomy (eg, organ, gland, tissue, target structure) during the same session; multiple organs (<i>This is not a magnetic resonance procedure covered under the Medicare NCD 220.2. This analyzes body composition to determine if more invasive procedures (i.e., biopsies) are needed, it does not "treat or diagnosis" an illness or injury.)</i>
	0698T	Quantitative magnetic resonance for analysis of tissue composition (eg, fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained with diagnostic MRI examination of the same anatomy (eg, organ, gland, tissue, target structure); multiple organs (List separately in addition to code for primary procedure) (<i>This is not a magnetic resonance procedure covered under the Medicare NCD 220.2. This analyzes body composition to determine if more invasive procedures (i.e., biopsies) are needed, it does not "treat or diagnosis" an illness or injury.</i>)
	0716T	Cardiac acoustic waveform recording with automated analysis and generation of coronary artery disease risk score (This test determines risk of coronary artery disease (CAD). Under Medicare, testing to determine risk of

		a condition or illness is considered screening. Therefore, this procedure is not medically necessary as a screening procedure per Medicare statute. ²)
	0731T	Augmentative AI-based facial phenotype analysis with report (Facial recognition based on artificial intelligence (AI) to detect underlying facial patterns thought to be beneficial for diagnosis or screening)
	0860T	Noncontact near-infrared spectroscopy (eg, for measurement of deoxyhemoglobin, oxyhemoglobin, and ratio of tissue oxygenation), for screening for peripheral arterial disease, including provocative maneuvers, image acquisition, interpretation, and report, one or both lower extremities (<i>By its definition, this code is specific to when performed for screening purposes.</i>)
	0394U	Perfluoroalkyl substances (PFAS) (eg, perfluorooctanoic acid, perfluorooctane sulfonic acid), 16 PFAS compounds by liquid chromatography with tandem mass spectrometry (LC-MS/MS), plasma or serum, quantitative (PFAS Testing & PFASure [™] , National Medical Services, NMS Labs, Inc.; Pennsylvania - This test looks for exposure-based substances in the workplace. This would not be medically reasonable or necessary, but rather, would be the responsibility of an employer.)
	0399U	Neurology (cerebral folate deficiency), serum, detection of anti-human folate receptor IgGbinding antibody and blocking autoantibodies by enzyme- linked immunoassay (ELISA), qualitative, and blocking autoantibodies, using a functional blocking assay for IgG or IgM, quantitative, reported as positive or not detected (<i>FRAT®</i> (<i>Folate Receptor Antibody Test</i>), <i>Religen Inc.;</i> (<i>Pennsylvania - This test is only likely to be used for conditions generally</i> <i>associated with pediatrics (children). It is not expected it will have clinical</i> <i>utility for a Medicare Advantage member.</i>)
	0457U	Perfluoroalkyl substances (PFAS) (eg, perfluorooctanoic acid, perfluorooctane sulfonic acid), 9 PFAS compounds by LC-MS/MS, plasma or serum, quantitative (PFAS (Forever Chemicals) 9 Panel, Quest Diagnostics [®] - This test looks for exposure-based substances in the workplace. This would not be medically reasonable or necessary, but rather, would be the responsibility of an employer.)
	0535U	Perfluoroalkyl substances (PFAS) (eg, perfluorooctanoic acid, perfluorooctane sulfonic acid), by liquid chromatography with tandem mass spectrometry (LCMS/MS), plasma or serum, quantitative (PFAS Testing & PFASure®FT by National Medical Services [NMS Labs]. This test is used for "Monitoring for exposure to Per- and Polyfluorinated alkyl substances. This would not meet Medicare's medically reasonable or necessary criteria to diagnosis or treat an illness or condition.)
Medicare and Coverage Notes		 Applicable Medicare Coverage Policy, Regulation, or Guideline Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary Protections, <u>§10.2 - Basic Rule</u> §1862(a)(1)(A) of the Act Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, §10 - General Exclusions from Coverage Medicare-Based Non-Coverage Rationale

Medicare Managed Care Manual, Chapter 4 - Benefits and Beneficiary
Protections, <u>§10.2 – Basic Rule</u>
"The scope of the benefits under Part A and Part B is defined in the
Act. Part A and Part B benefits are discussed in sections 1812 and
1832 of the Act, respectively, while section 1861 of the Act lays out
the definition of medical and other health services. Specific health
care services must fit into one of these benefit categories, and not
be otherwise excluded from coverage under the Medicare program
(see §1862 for exclusions)
"In general, Medicare coverage and payment is contingent upon a
determination that:
• A convice is in a covered hanafit estageny
 A service is in a covered benefit category; A service is not an afficially available form Madicare severage by
 A service is not specifically excluded from Medicare coverage by the Act; and
•
 The item or service is "reasonable and necessary" for the diagnosis or treatment of an illness or injury, to improve functioning of a
malformed body member, or is a covered preventive service."
manormed body member, or is a covered preventive service.
According to Medicare Benefit Policy Manual, Chapter 16 - General
Exclusions From Coverage, 10 - General Exclusions from Coverage, services
which are "not reasonable and necessary" are a general exclusion from
Medicare coverage.
The services listed in this table are not medically reasonable or necessary
under Medicare and $\$1862(a)(1)(A)$ because the intended clinical purpose of
the service or item is not to diagnose or treat an illness or injury or improve
the function of a malformed body member, nor does it fall under a covered
preventive service category. Therefore, the nature of the service
represented by the code does not meet Medicare coverage requirements.

Transcatheter Mitral Valve Annulus Reconstruction			
Device/Product, and Manufacturer Information (when applicable)		Cardioband [™] Mitral Valve Reconstruction System (Edwards Lifesciences)	
Code(s)	0544T	Transcatheter mitral valve annulus reconstruction, with implantation of adjustable annulus reconstruction device, percutaneous approach including transseptal puncture	
Medicare and Coverage Notes		 Applicable Medicare Coverage Policy, Regulation, or Guideline Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 - Coverage of Medical Devices</u> Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From 	
		<u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u> <u>Coverage, §10 - General Exclusions from Coverage</u>	

Madisara Read New Coverage Patienale
Medicare-Based Non-Coverage Rationale
According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.
Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental . According to <u>Medicare Benefit Policy</u> <u>Manual, Chapter 16 - General Exclusions From Coverage, 10 - General</u> <u>Exclusions from Coverage</u> , services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. <i>(Medicare Claims Processing Manual, Ch. 23, §30 A)</i>
As of the most recent review, the technology/device/procedure represented by this code has not received FDA approval. Therefore, the above code is considered not medically necessary . However, this device is the focus of a Medicare-approved IDE study (<i>Cardioband Mitral System</i> ; NCT03016975). Therefore, coverage may be approved for members enrolled in a Medicare- approved study. (<i>To confirm participation in a Medicare-approved IDE study,</i> <i>the NCT number must be provided and be verified as a Medicare-approved</i> <i>study on the</i> <u>CMS website for IDEs</u> .)

Transcatheter Tricuspid Valve Annulus Reconstruction			
Device/Product, and Manufacturer Information (when applicable)		Cardioband [™] Tricuspid Valve Reconstruction System (Edwards Lifesciences)	
Code(s)	0545T	Transcatheter tricuspid valve annulus reconstruction with implantation of adjustable annulus reconstruction device, percutaneous approach	
Medicare and Coverage Note	S	 Applicable Medicare Coverage Policy, Regulation, or Guideline Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 - Coverage of Medical Devices</u> Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, <u>§10 - General Exclusions from Coverage</u> Medicare-Based Non-Coverage Rationale According to the <i>Medicare Benefit Policy Manual, Chapter 14</i>, while FDA approval does not automatically guarantee coverage under Medicare, in 	

order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.

Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy **and would be considered investigational or experimental**. According to <u>Medicare Benefit Policy</u> <u>Manual, Chapter 16 - General Exclusions From Coverage, 10 - General</u> <u>Exclusions from Coverage</u>, **services which are "investigational" are an exclusion from Medicare coverage**. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. *(Medicare Claims Processing Manual, Ch. 23, §30 A)*

The only transcatheter tricuspid valve annuloplasty reconstruction device approved for patient use anywhere in world is the Edwards Cardioband Tricuspid Valve Reconstruction System, which has received the European CE mark approval. As of the most recent review, the technology represented by this code has not received FDA approval. Therefore, the above code is considered **not medically necessary**. However, this device is the focus of a Medicare-approved investigational device exception (IDE) study (*Edwards Cardioband Tricuspid Valve Reconstruction System Early Feasibility Study*; NCT03382457). Therefore, coverage may be approved for members enrolled in a Medicare-approved study. (*To confirm participation in a Medicareapproved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the* <u>CMS website for IDEs.</u>)

Note that in the above IDE study, the device has been classified as a **Category A** device. According to the *Medicare Managed Care Manual,* Chapter 4 – Benefits and Beneficiary Protections, §10.7.2 – Payment for Investigational Device Exemption (IDE) Studies, "MAOs are responsible for payment of claims related to enrollees' participation in both Category A and B IDE studies that are covered by the MAC with jurisdiction over the MA plan's service area. The MAO is responsible for payment of routine care items and services in CMS-approved Category A... studies... **CMS will not approve Category A devices because they are statutorily excluded from coverage.**" Therefore, while routine care and services are eligible for coverage, including unrelated care, Category A devices are not.

Table 1.11			
Transurethral Water Vapor Ablation of Malignant Prostate Tissue			
Device/Product, and		Vanquish Water Vapor Ablation System (Francis Medical, Inc.)	
Manufacturer			
Information (when			
applicable)			
Code(s)	0582T	Transurethral ablation of malignant prostate tissue by high-energy water	
		vapor thermotherapy, including intraoperative imaging and needle guidance	

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Medicare and Coverage Notes	Applicable Medicare Coverage Policy, Regulation, or Guideline
	 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u> <u>Coverage of Medical Devices</u> <u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u> <u>Coverage, §10 - General Exclusions from Coverage</u>
	Medicare-Based Non-Coverage Rationale
	According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.
	Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental .
	According to <u>Medicare Benefit Policy Manual, Chapter 16 - General</u> <u>Exclusions From Coverage, 10 - General Exclusions from Coverage</u> , services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
	As of the most recent review, the technology/device/procedure represented by this code has not received full FDA approval. Therefore, the above code is considered not medically necessary . However, this device has been granted a Breakthrough Device Designation as of Summer 2023 and it is also the focus of a Medicare-approved Category B IDE study (<i>Water Vapor Ablation for Localized Intermediate Risk Prostate Cancer (VAPOR 2)</i> ; NCT05683691). Therefore, coverage may be approved for members enrolled in a Medicare- approved study. (<i>To confirm participation in a Medicare-approved IDE study,</i> <i>the NCT number must be provided and be verified as a Medicare-approved</i> <i>study on the</i> CMS website for IDEs.)

Interatrial Septal Shunt Device			
Device/Product, and Manufacturer Information (when applicable)		InterAtrial Shunt Device (IASD) (Corvia Medical)	
Code(s)	0613T	Percutaneous transcatheter implantation of interatrial septal shunt device, including right and left heart catheterization, intracardiac echocardiography, and imaging guidance by the proceduralist, when performed	

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Medicare and Coverage Notes	Applicable Medicare Coverage Policy, Regulation, or Guideline
	 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u> <u>Coverage of Medical Devices</u> <u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u> <u>Coverage, §10 - General Exclusions from Coverage</u>
	Medicare-Based Non-Coverage Rationale
	According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.
	Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental .
	According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
	As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above code is considered not medically necessary . However, this device has been granted a Breakthrough Device Designation in 2019 and it is also the focus of a Medicare-approved Category B IDE study (<i>Corvia Medical Interatrial Shunt Device (IASD) System II</i> ; NCT03088033). Therefore, coverage may be approved for members enrolled in a Medicare-approved study. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the</i> <u>CMS website</u> for IDEs.)

Subcutaneous Peritoneal Ascites Pump System			
Device/Product, and		alfapump [®] System	
Manufacturer			
Information (when			
applicable)			
Code(s)	0870T	Implantation of subcutaneous peritoneal ascites pump system,	
		percutaneous, including pump-pocket creation, insertion of tunneled	
		indwelling bladder and peritoneal catheters with pump connections,	
		including all imaging and initial programming, when performed	

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	0871T	Replacement of a subcutaneous peritoneal ascites pump, including reconnection between pump and indwelling bladder and peritoneal catheters, including initial programming and imaging, when performed
	0872T	Replacement of indwelling bladder and peritoneal catheters, including tunneling of catheter(s) and connection with previously implanted peritoneal ascites pump, including imaging and programming, when performed
	0873T	Revision of a subcutaneously implanted peritoneal ascites pump system, any component (ascites pump, associated peritoneal catheter, associated bladder catheter), including imaging and programming, when performed
	0875T	Programming of subcutaneously implanted peritoneal ascites pump system by physician or other qualified health care professional
Medicare Cove Policy or Regul Source	-	 Applicable Medicare Coverage Policy, Regulation, or Guideline Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 - Coverage of Medical Devices</u> Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, <u>§10 - General Exclusions from Coverage</u>
		Medicare-Based Non-Coverage Rationale
		According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.
		Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental .
		According to <u>Medicare Benefit Policy Manual, Chapter 16 - General</u> <u>Exclusions From Coverage, 10 - General Exclusions from Coverage</u> , services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
		As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above codes are considered not medically necessary . However, this system is currently under clinical investigation (POSEIDON Study) and is being studied in adult patients with refractory or recurrent ascites due to cirrhosis. The POSEIDON Study (NCT03973866; G140126) is a Medicare-approved Category B IDE study as of 10/2019. Therefore, coverage may be approved for members enrolled in a Medicare-approved study. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be</i> <i>verified as a Medicare-approved study on the</i> <u>CMS website for IDEs</u> .)

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Removal of Non-Covered Devices
According to the <i>Medicare Benefit Policy Manual, Chapter 16, §–80 –</i> <i>Services Related to and Required as a Result of Services Which Are Not</i> <i>Covered Under Medicare,</i> removal without replacement (0874T) may be considered medically reasonable and necessary for unrelated reasons (e.g., pain, infection, etc.).

Miscellaneous	Services	or Items Which have Not Received Appropriate Regulatory Approval	
Device/Product, and		Orlucent™ Handheld Fluorescent Molecular Imaging System	
Manufacturer			
Information (when		ExTra ELT by ELT Sight	
applicable)			
Code(s)	0621T	Trabeculostomy ab interno by laser	
	0622T	; with use of ophthalmic endoscope	
	0632T	Percutaneous transcatheter ultrasound ablation of nerves innervating the	
		pulmonary arteries, including right heart catheterization, pulmonary artery	
		angiography, and all imaging guidance	
	0639T	Wireless skin sensor thermal anisotropy measurement(s) and assessment of	
		flow in cerebrospinal fluid shunt, including ultrasound guidance, when performed	
	0700T	Molecular fluorescent imaging of suspicious nevus; first lesion	
	0701T	Molecular fluorescent imaging of suspicious nevus; each additional lesion	
		(List separately in addition to code for primary procedure)	
	0730T	Trabeculotomy by laser, including optical coherence tomography (OCT)	
		guidance	
	0888T	Histotripsy (ie, non-thermal ablation via acoustic energy delivery) of	
		malignant renal tissue, including imaging guidance	
	C9790	TERMED 6/30/2024	
		Histotripsy (ie, non-thermal ablation via acoustic energy delivery) of	
		malignant renal tissue, including image guidance	
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline	
Coverage Note	es		
		• Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u>	
		Coverage of Medical Devices	
		Medicare Benefit Policy Manual, <u>Chapter 16 – General Exclusions from</u>	
		Coverage, §10 – General Exclusions from Coverage	
		Medicare-Based Non-Coverage Rationale	
		According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.	

Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific
evidence regarding safety and efficacy and would be considered
investigational or experimental.
According to Medicare Benefit Policy Manual, Chapter 16 - General
Exclusions From Coverage, 10 - General Exclusions from Coverage, services
which are "investigational" are an exclusion from Medicare coverage.
Services and items which lack scientific evidence regarding safety and
efficacy because they are investigational are "not medically reasonable or
necessary" for Medicare Plan members. (Medicare Claims Processing
Manual, Ch. 23, §30 A)
As of the most recent review, the technology/device/procedure represented
by the above codes have not received FDA approval. Therefore, the above
codes are considered not medically necessary.

1.15

Transdermal Gl	lomerula	r filtration Rate (GFR) Measurements	
Device/Product, and Manufacturer Information (when applicable)		Transdermal GFR Measurement System and patented pharmaceutical Lumitrace (MediBeacon)	
		Glomerular filtration rate (GFR) measurement(s), transdermal, including sensor placement and administration of a single dose of fluorescent pyrazine agent	
	0603T	Glomerular filtration rate (GFR) monitoring, transdermal, including sensor placement and administration of more than one dose of fluorescent pyrazine agent, each 24 hours	
Medicare and Coverage Note:	5	 Applicable Medicare Coverage Policy, Regulation, or Guideline Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>\$10 - Coverage of Medical Devices</u> Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, <u>\$10 - General Exclusions from Coverage</u> Medicare-Based Non-Coverage Rationale According to the <i>Medicare Benefit Policy Manual, Chapter 14</i>, while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved. Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental. 	

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According to Medicare Benefit Policy Manual, Chapter 16 - General
Exclusions From Coverage, 10 - General Exclusions from Coverage, services
which are "investigational" are an exclusion from Medicare coverage.
Services and items which lack scientific evidence regarding safety and
efficacy because they are investigational are "not medically reasonable or
necessary" for Medicare Plan members. (Medicare Claims Processing
Manual, Ch. 23, §30 A)
As of the most recent review, the technology/device/procedure represented
by the above codes have not received FDA approval. Therefore, the above
codes are considered not medically necessary.

Patient-Initiat	ed Optica	I Coherence Tomography (OCT) of the Retina
Device/Product, and		Home OCT (Notal Vision)
Manufacturer		
Information (when		
applicable)		
Code(s)	0604T	Optical coherence tomography (OCT) of retina, remote, patient-initiated image capture and transmission to a remote surveillance center unilateral or bilateral; initial device provision, set-up and patient education on use of equipment
	0605T	Optical coherence tomography (OCT) of retina, remote, patient-initiated image capture and transmission to a remote surveillance center unilateral or bilateral; remote surveillance center technical support, data analyses and reports, with a minimum of 8 daily recordings, each 30 days
	0606T	Optical coherence tomography (OCT) of retina, remote, patient-initiated image capture and transmission to a remote surveillance center unilateral or bilateral; review, interpretation and report by the prescribing physician or other qualified health care professional of remote surveillance center data analyses, each 30 days
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Notes		 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 - Coverage of Medical Devices</u> Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, <u>§10 - General Exclusions from Coverage</u>
		Medicare-Based Non-Coverage Rationale According to the <i>Medicare Benefit Policy Manual, Chapter 14,</i> while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either
		FDA- or Institutional Review Board (IRB)-approved. Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific

evidence regarding safety and efficacy and would be considered investigational or experimental.
According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above codes are considered not medically necessary .

Tabl	e	1.	1	7
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Table 1.17			
Implantable Vestibular Device			
Device/Product, and		Cochlear Vestibular Implant (CVI)	
Manufacturer			
Information (w	/hen	Labyrinth Devices MVI [™] Multichannel Vestibular Implant	
applicable)			
Code(s)	0725T	Vestibular device implantation, unilateral	
	0727T	Removal and replacement of implanted vestibular device, unilateral	
	0728T	Diagnostic analysis of vestibular implant, unilateral; with initial programming	
	0729T	Diagnostic analysis of vestibular implant, unilateral; with subsequent programming	
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Note	S		
		Applicable Medicare Coverage Policy, Regulation, or Guideline	
		Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u>	
		Coverage of Medical Devices	
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From	
		Coverage, §10 - General Exclusions from Coverage	
		Medicare-Based Non-Coverage Rationale	
		According to the Medicare Benefit Policy Manual, Chapter 14, while FDA	
		approval does not automatically guarantee coverage under Medicare, in	
		order to be considered for coverage under Medicare, devices must be either	
		FDA- or Institutional Review Board (IRB)-approved.	
		Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental .	
		1	

According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)

As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above codes are considered **not medically necessary**. However, this device is currently under clinical investigation (Multichannel Vestibular Implant Early Feasibility Study) and is being studied in adult patients with refractory or recurrent ascites due to cirrhosis. This study (NCT02725463; G150198) is a Medicare-approved Category B IDE study as of 8/2021. Therefore, coverage may be approved for members enrolled in a Medicare-approved study. *(To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the* <u>CMS</u> website for IDEs.)

The VertiGO! trial (NCT04918745) is **not** a Medicare approved IDE study. Therefore, unless provided within the context of a Medicare-*approved* IDE study, a vestibular implant is **not medically necessary** for Medicare under \$1862(a)(1)(A).

Evidence

The methodological limitations of vestibular implants include challenges in optimizing electrical stimulation profiles to effectively mimic natural vestibular inputs without causing adverse effects. Surgical implantation procedures need refinement to ensure precision and minimize trauma, preserving residual labyrinthine functions, including hearing. Many patients experienced hearing loss in the implanted ear, indicating the need for better techniques to prevent this outcome. Additionally, variability in individual anatomy and pathology complicates standardization. Establishing regulatory approval and creating a robust clinical care infrastructure, akin to cochlear implants, are also significant hurdles. These limitations highlight the need for further research to enhance device efficacy and patient outcomes. Therefore, vestibular implantation and related procedures are considered **not medically necessary** for the treatment of any indication.

Evidence Sources/Citations

- A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this technology.
- Chow et al. Posture, Gait, Quality of Life, and Hearing with a Vestibular Implant. N Engl J Med 2021;384:521-532. DOI: 10.1056/NEJMoa2020457. PMID: 33567192.

 Stultiens et al. The Next Challenges of Vestibular Implantation in Humans. J Assoc Res Otolaryngol. 2023 Aug;24(4):401-412. DOI: 10.1007/s10162-023-00906-1. PMID: 37516679. Fornos et al. The vestibular implant: A probe in orbit around the human balance system. J Vestib Res. 2017;27(1):51-61. DOI: 10.3233/VES- 170604. PMID: 28387690.
Removal of Non-Covered Devices
According to the <i>Medicare Benefit Policy Manual, Chapter 16, §–80 –</i> <i>Services Related to and Required as a Result of Services Which Are Not</i> <i>Covered Under Medicare,</i> removal without replacement (0726T) may be considered medically reasonable and necessary for unrelated reasons (e.g., pain, infection, etc.).

Table 1.18				
COMS [®] One Therapy System for Wound Care				
Device/Product, and		COMS [®] One Therapy System		
Manufacturer				
Information (when				
applicable)				
Code(s)	0906T	Concurrent optical and magnetic stimulation (COMS) therapy, wound		
		assessment and dressing care; first application, total wound(s) surface area		
		less than or equal to 50 sq cm		
	0907T	Concurrent optical and magnetic stimulation (COMS) therapy, wound		
		assessment and dressing care; each additional application, total wound(s)		
		surface area less than or equal to 50 sq cm (List separately in addition to		
		code for primary procedure)		
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Coverage Note	S			
		Applicable Medicare Coverage Policy, Regulation, or Guideline		
		 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10</u> - 		
		Coverage of Medical Devices		
		<u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u>		
		Coverage, §10 - General Exclusions from Coverage		
		Medicare-Based Non-Coverage Rationale		
		According to the Medicare Penefit Policy Manual Chapter 14 while EDA		
		According to the <i>Medicare Benefit Policy Manual, Chapter 14,</i> while FDA approval does not automatically guarantee coverage under Medicare, in		
		order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.		
		Any device that has not received FDA-approval would not be considered		
		medically reasonable or necessary because it would lack the scientific		
		evidence regarding safety and efficacy and would be considered		
		investigational or experimental.		

According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above codes are considered not medically necessary under §1862(a)(1)(A).
However, the COMS One therapy system is currently under clinical investigation and is being studied (MAVERICKS clinical trial) in the treatment of refractory diabetic foot ulcers (DFUs). This study (NCT05758545; G220277) is a Medicare-approved Category B IDE study as of 6/2023. Coverage may be approved for members enrolled in this Medicare-approved IDE study. As of the most recent policy review, the NAZARÉ trial (NCT06528873), which is intended to study the COMS One device for chronic ulcers, is not a Medicare approved IDE study. <i>(To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the</i> <u>CMS website for IDEs.</u>)
Evidence
Evidence is insufficient to support the use of the COMS One Therapy System. No relevant studies or clinical practice guidelines addressing the service were identified. Additionally, the COMS One therapy system has not yet received regulatory approval in the U.S. Therefore, use of the COMS One Therapy System is considered not medically necessary for the treatment of any indication, <u>unless</u> provided within the context of a Medicare- <i>approved</i> Category B investigational device exemption (IDE) study.
 Evidence Sources/Citations A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. No published studies were identified. No clinical practice guidelines were identified.

High-Intensity Focused Ultrasound (HIFU) of the Liver				
Device/Product, and		Histosonics		
Manufacturer				
Information (when applicable)				
Code(s)	0686T	Histotripsy (ie, non-thermal ablation via acoustic energy delivery) of		
		malignant hepatocellular tissue, including image guidance		

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Medicare and Coverage Notes	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
	Applicable Medicare Coverage Policy, Regulation, or Guideline
	 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u> <u>Coverage of Medical Devices</u> <u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u> <u>Coverage, §10 - General Exclusions from Coverage</u>
	Medicare-Based Non-Coverage Rationale
	According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA approval does not automatically guarantee coverage under Medicare, in order to be considered for coverage under Medicare, devices must be either FDA- or Institutional Review Board (IRB)-approved.
	Any device that has not received FDA-approval would not be considered medically reasonable or necessary because it would lack the scientific evidence regarding safety and efficacy and would be considered investigational or experimental .
	According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From Coverage, 10 - General Exclusions from Coverage, services which are "investigational" are an exclusion from Medicare coverage. Services and items which lack scientific evidence regarding safety and efficacy because they are investigational are "not medically reasonable or necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)
	As of the most recent review, the technology/device/procedure represented by the above codes have not received FDA approval. Therefore, the above codes are considered not medically necessary under §1862(a)(1)(A).
	 However, there are some Medicare-approved Category B IDE studies available as of 3/2021 and 6/2023. Coverage may be approved for members enrolled in this Medicare-approved IDE study. #HOPE4LIVER (NCT04573881; G200253) is a Medicare-approved Category B IDE study (previously a Category A IDE study) as of 3/4/2021. #HOPE4KIDNEY (NCT05820087; G230008) is a Medicare-approved Category B IDE study as of 6/15/2023.
	Coverage may be provided for members enrolled and services performed in the context of one of these Medicare-approved studies. If not, coverage is not available for this procedure/service. (<i>To confirm participation in a</i> <i>Medicare-approved IDE study, the NCT number must be provided and be</i> <i>verified as a Medicare-approved study on the</i> <u>CMS website for IDEs</u> .)

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Non-Cove	Non-Covered Blood Based Cancer Screening Tests		
Device/P		IGoCheck™ (Blood-Based Colorectal Cancer Test), Milagen, Inc.	
and Manufacturer			
Informati	on (when	MammoCheck™ (Blood-Based Breast Cancer Test), Milagen, Inc.	
applicable	e)		
Code(s)	0558U	Oncology (colorectal), quantitative enzyme-linked immunosorbent assay (ELISA)	
		for secreted colorectal cancer protein marker (BF7 antigen), using serum, result	
		reported as indicative of response/no response to therapy or disease	
		progression/regression	
	0559U	Oncology (breast), quantitative enzyme-linked immunosorbent assay (ELISA) for	
		secreted breast cancer protein marker (BF9 antigen), serum, result reported as	
		indicative of response/no response to therapy or disease	
		progression/regression	
Medicare		Applicable Medicare Coverage Policy, Regulation, or Guideline	
Coverage	Notes		
		Medicare Program Integrity Manual, Chapter 3 - Verifying Potential Errors	
		and Taking Corrective Actions, <u>§3.6.2.1 - Coverage Determinations</u>	
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From	
		Coverage, §10 - General Exclusions from Coverage	
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From	
		Coverage, §90 - Routine Services and Appliances	
		Medicare-Based Non-Coverage Rationale	
		The Medicare Program Integrity Manual, Chapter 3, §3.6.2.1 states that an item	
		or service may be denied coverage if the "The item or service is statutorily	
		excluded on grounds other than §1862(a) (1) (A) of the Act."	
		According to Medicare Benefit Policy Manual, Chapter 16 - General Exclusions	
		From Coverage, 10 - General Exclusions from Coverage, "routine services and	
		appliances" are a general exclusion from Medicare coverage (with the	
		exception of preventive services noted in section 42 CFR 411.15(a)(1)).	
		The above services are used as routine screening tools. While colorectal and	
		breast cancer screenings are covered Medicare preventive benefits, screening	
		services outside the scope of associated NCDs 210.3 and 220.4 respectively,	
		would be considered non-covered under Medicare statute. ³ Currently, no	
		blood-based test is covered for breast cancer screening under Medicare, and	
		these services are not included as part of the Medicare Preventive Services	
		chart, found on the CMS website. Therefore, if these services are performed for	
		a Medicare Advantage member, they will be considered not medically	
		necessary under Section 1862(a)(1) of the Social Security Act.	

Table 1.XX

Device/Product, and	**Blank table left intentionally - Placeholder for future services/technologies
Manufacturer	added to the Table 1 set of codes**

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Information (when applicable)		
Code(s)		
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Notes		 XXX XXX Medicare-Based Non-Coverage Rationale XXX

Table 2 Set: CPT/HCPCS codes which are considered not medically necessary based on Criterion II of "Medicare Coverage Criteria" above are listed in the following tables.

NOTES: Specific devices and products listed in the following tables may not be an all-inclusive list, but rather may only represent examples of the relevant technology. The "Effective Date" listed is the date the code was effective, which may or may not be the same date the Company's non-coverage position was effective.

Cardiac Cor (CCM-D) Sy		odulation System (CCM) and Cardiac Contractility Modulation-Defibrillation
Device/Product, and Manufacturer		Cardiac Contractility Modulation (CCM) System by Optimizer Dynamic
Information (when applicable)		OPTIMIZER [®] Integra CCM-D [™] System, also known as a "Cardiac Contractility Modulation – Defibrillator" System
Code(s)	0408T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator with transvenous electrodes (<i>Effective 1/1/2016</i>)
	0409T	; pulse generator only (<i>Effective 1/1/2016</i>)
	0410T	; atrial electrode only (<i>Effective 1/1/2016</i>)
	0411T	; ventricular electrode only (<i>Effective 1/1/2016</i>)
	0414T	Removal and replacement of permanent cardiac contractility modulation system pulse generator only (<i>Effective 1/1/2016</i>)
	0415T	Repositioning of previously implanted cardiac contractility modulation transvenous electrode (atrial or ventricular lead) (<i>Effective 1/1/2016</i>)
	0416T	Relocation of skin pocket for implanted cardiac contractility modulation pulse generator (<i>Effective 1/1/2016</i>)
	0417T	Programming device evaluation (in person) with iterative adjustment of the implantable device to test the function of the device and select optimal permanent programmed values with analysis, including review and report, implantable cardiac contractility modulation system (<i>Effective 1/1/2016</i>)
	0418T	Interrogation device evaluation (in person) with analysis, review and report, includes connection, recording and disconnection per patient encounter, implantable cardiac contractility modulation system (<i>Effective 1/1/2016</i>)

Table 2.1

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C1824	Generator, cardiac contractility modulation (implantable) (Effective
	1/1/2020)
K1030	External recharging system for battery (internal) for use with implanted cardiac contractility modulation generator, replacement only <i>(Effective 4/1/2022)</i>
0915T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; pulse generator and dual transvenous electrodes/leads (pacing and defibrillation)
0916T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; pulse generator only
0917T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; single transvenous lead (pacing or defibrillation) only
0918T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; dual transvenous leads (pacing and defibrillation) only
0923T	Removal and replacement of permanent cardiac contractility modulation- defibrillation pulse generator only
0924T	Repositioning of previously implanted cardiac contractility modulation- defibrillation transvenous electrode(s)/lead(s), including fluoroscopic guidance and programming of sensing and therapeutic parameters
0925T	Relocation of skin pocket for implanted cardiac contractility modulation- defibrillation pulse generator
0926T	Programming device evaluation (in person) with iterative adjustment of the implantable device to test the function of the device and select optimal permanent programmed values with analysis, including review and report, implantable cardiac contractility modulation-defibrillation system
0927T	Interrogation device evaluation (in person) with analysis, review, and report, including connection, recording, and disconnection, per patient encounter, implantable cardiac contractility modulation-defibrillation system
0928T	Interrogation device evaluation (remote), up to 90 days, cardiac contractility modulation-defibrillation system with interim analysis and report(s) by a physician or other qualified health care professional
0929T	Interrogation device evaluation (remote), up to 90 days, cardiac contractility modulation-defibrillation system, remote data acquisition(s), receipt of transmissions, technician review, technical support, and distribution of results
0930T	Electrophysiologic evaluation of cardiac contractility modulation-defibrillator leads, including defibrillation-threshold evaluation (induction of arrhythmia, evaluation of sensing and therapy for arrhythmia termination), at time of initial implantation or replacement with testing of cardiac contractility modulation-defibrillator pulse generator
0931T	Electrophysiologic evaluation of cardiac contractility modulation-defibrillator leads, including defibrillation-threshold evaluation (induction of arrhythmia,

		evaluation of sensing and therapy for arrhythmia termination), separate from initial implantation or replacement with testing of cardiac contractility modulation-defibrillator pulse generator
09	948T	Interrogation device evaluation (remote), up to 90 days, cardiac contractility modulation system with interim analysis, review and report(s) by a physician or other qualified health care professional
09	949T	Interrogation device evaluation (remote), up to 90 days, cardiac contractility modulation system, remote data acquisition(s), receipt of transmissions, technician review, technical support, and distribution of results
Medicare and		Cardiac Contractility Modulation (CCM) System
Coverage Notes		
(when applicable	e)	The Assessment of Implantable CCM in the Heart Failure Group With Higher Ejection Fraction, or AIM HIGHer study (NCT05064709; G200042), which is evaluating the use of Cardiac Contractility Modulation Therapy via OPTIMIZER [™] Smart Mini System, is a Medicare-approved Category B IDE study as of 1/2022.
		Coverage may be approved for members enrolled in the Medicare-approved study. Otherwise, coverage is not available for this procedure/service. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the</i> <u>CMS</u> <u>website for IDEs</u> .)
		Cardiac Contractility Modulation-Defibrillation (CCM-D) System
		A CCM-D differs from a CCM system (0408T-0418T). A CCM system consists of a pulse generator and two ventricular pacemaker electrodes (leads), while a CCM-D system includes those same components, as well as a defibrillator (ICD) component.
		The CCM-D system as a whole does not have FDA approval, although the two separate components (CCM & ICD) do have FDA approval. An initial trial is underway to evaluate how the two technologies interact. There are no Medicare-approved IDE studies to evaluate these technologies together.
		Removal of CCM and CCM-D Systems
		While placement of the CCM or CCM-D system will be non-covered, removal without replacement (0412T, 0413T, and 0919T-0922T) may be considered medically reasonable and necessary (e.g., removal due to pain, infection, etc.). See the <i>Medicare Benefit Policy Manual, Chapter 16, §180 – Services Related to and Required as a Result of Services Which Are Not Covered Under Medicare</i> for more information.
Date of Most Red		1/9/2025
Evidence Review		
Evidence Summa	ary	Evidence remains insufficient to support the use of CCM therapy with the OPTIMIZER Smart System for the treatment of any indication, including heart failure. The generalizability of results published to date is limited by studies' lack of control groups, short follow-up duration, and mixed findings.



Nerve Repair	Nerve Repair with Synthetic Conduit or Vein Allograft		
Device/Product, and Manufacturer Information (when applicable)		N/A	
Code(s)	64910	Nerve repair; with synthetic conduit or vein allograft (eg, nerve tube), each nerve (<i>Effective 1/1/2007</i>)	
	C9352	Microporous collagen implantable tube (neuragen nerve guide), per centimeter length (<i>Effective 1/1/2008</i>)	
	C9353	Microporous collagen implantable slit tube (neurawrap nerve protector), per centimeter length (<i>Effective 1/1/2008</i>)	
	C9355	Collagen nerve cuff (neuromatrix), per 0. 5 centimeter length (<i>Effective 1/1/2008</i>)	
	C9361	Collagen matrix nerve wrap (neuromend collagen nerve wrap), per 0.5 centimeter length (<i>Effective 7/1/2009</i>)	
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Date of Most Recent Evidence Review		2/12/2024	
Evidence Summary		There is insufficient scientific evidence to support the efficacy of conduits and nerve allografts for bridging the defects resulting from peripheral nerve	

	injuries. The evidence base consists only of very small case series and case reports. Limitations of the case series include non-standardized assessment of outcomes, lack of comparator groups, lack of statistical analysis of findings, and heterogeneity in patient populations. In addition, the type and severity of the nerve injury varied substantially between studies. While one clinical practice guideline endorsed the use of processed nerve allografts in digital nerves, this conclusion was made on the basis of low -quality evidence with design limitations that undermine results' validity and generalizability (e.g., small sample sizes, lack of long-term follow-up, non-randomized groups, retrospective case series.) Additional studies are needed to determine whether or not the use of synthetic conduits or nerve allografts provide an improvement in health outcomes when used to repair peripheral nerve injuries. Therefore, the use of conduits and nerve allografts is considered not medically necessary as a treatment any indication, including peripheral nerve injuries and neuromas.
Sources/Citations	 Boston Medical Center. Health Net Plan. Medical Policy. Nerve Repairs for Peripheral Nerve Injuries Using Allografts, Autografts, and Conduits. Policy Number: OCA 3.701 Version Number: 11 Version Effective Date: 05/01/16. Hayes, Inc. Processed Nerve Allografts with the Avance Nerve Graft (Axogen Corporation) for Peripheral Nerve Discontinuities. Updated May 11, 2023. Accessed Feb 12, 2024. https://evidence.hayesinc.com/report/htb.avance4778 Salomon D, Miloro M, Kolokythas A. Outcomes of Immediate Allograft Reconstruction of Long-Span Defects of the Inferior Alveolar Nerve. J Oral Maxillofac Surg. 2016 Jun 14. Papatheodorou LK, Williams BG, Sotereanos DG. Preliminary results of recurrent cubital tunnel syndrome treated with neurolysis and porcine extracellular matrix nerve wrap. J Hand Surg Am. 2015 May;40(5):987- 92. Rbia N, Bulstra LF, Saffari TM, Hovius SER, Shin AY. Collagen Nerve Conduits and Processed Nerve Allografts for the Reconstruction of Digital Nerve Gaps: A Single-Institution Case Series and Review of the Literature. World Neurosurg. 2019 Jul;127:e1176-e1184. Doi: 10.1016/j.wneu.2019.04.087. Epub 2019 Apr 16. PMID: 31003028. Isaacs J, Safa B. A Preliminary Assessment of the Utility of Large-Caliber Processed Nerve Allografts for the Repair of Upper Extremity Nerve Injuries. Hand (N Y). 2017 Jan;12(1):55-59. PMID: 28082844 Yampolsky A, Ziccardi V, Chuang SK. Efficacy of Acellular Nerve Allografts in Trigeminal Nerve Reconstruction. J Oral Maxillofac Surg. 2017 Oct;75(10):2230-2234. PMID: 28336306. National Institute for Health and Care Excellence. Processed nerve allografts to repair peripheral nerve discontinuities. Published Nov 22, 2017. https://www.nice.org.uk/guidance/ipg597/chapter/1- Recommendations.

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Device/Product, and Manufacturer Information (when applicable)		Shockwave Coronary Rx Lithoplasty System and Shockwave Medical Peripheral IVL System, both by Shockwave Medical Inc.
Code(s)	92972	Percutaneous transluminal coronary lithotripsy (List separately in addition to code for primary procedure) (<i>Effective 1/1/2024</i>)
	C1761	Catheter, transluminal intravascular lithotripsy, coronary (<i>Effective</i> 7/1/2021)
	C9764	Revascularization, endovascular, open or percutaneous, lower extremity artery(ies), except tibial/peroneal; with intravascular lithotripsy, includes angioplasty within the same vessel(s), when performed (<i>Effective 7/1/2020</i>)
	C9765	Revascularization, endovascular, open or percutaneous, lower extremity artery(ies), except tibial/peroneal; with intravascular lithotripsy, and transluminal stent placement(s), includes angioplasty within the same vessel(s), when performed (<i>Effective 7/1/2020</i>)
	C9766	Revascularization, endovascular, open or percutaneous, lower extremity artery(ies), except tibial/peroneal; with intravascular lithotripsy and atherectomy, includes angioplasty within the same vessel(s), when performed (<i>Effective 7/1/2020</i>)
	C9767	Revascularization, endovascular, open or percutaneous, lower extremity artery(ies), except tibeal/peroneal; with intravascular lithotripsy and transluminal stent placement(s), and atherectomy, includes angioplasty within the same vessel(s), when performed (<i>Effective 7/1/2020</i>)
	C9772	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery(ies), with intravascular lithotripsy, includes angioplasty within the same vessel (s), when performed (<i>Effective 1/1/2021</i>)
	C9773	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery(ies); with intravascular lithotripsy, and transluminal stent placement(s), includes angioplasty within the same vessel(s), when performed (<i>Effective 1/1/2021</i>)
	C9774	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery(ies); with intravascular lithotripsy and atherectomy, includes angioplasty within the same vessel (s), when performed (<i>Effective</i> 1/1/2021)
	C9775	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery(ies); with intravascular lithotripsy and transluminal stent placement(s), and atherectomy, includes angioplasty within the same vessel (s), when performed (<i>Effective 1/1/2021</i>)
Medicare and Coverage Notes (when applicable)		 As of the most recent review of this policy, Medicare-approved Category B IDE studies for this Shockwave include the following: As of 12/13/2018: The Disrupt CAD III With the Shockwave Coronary IVL System study (NCT03595176; G180146), is evaluating the use of the Shockwave Coronary Rx Lithoplasty System with the Shockwave C2 Coronary IVL Catheter in Calcified Coronary Arteries. As of 6/15/2023: Shockwave Intravascular Lithotripsy System with the Shockwave Mini S Peripheral IVL Catheter study (NCT05858905; G220300), is evaluating the use of the Shockwave Mini S Peripheral IVL Catheter.

	• As of 11/9/2023: The Disrupt CAD Duo study (NCT05966662; G230172), is evaluating the use of the Shockwave C2+ 2Hz Coronary IVL Catheter in Calcified Coronary Arteries.
	Coverage may be approved for members enrolled in the Medicare- approved study. Otherwise, coverage is not available for this procedure/service. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .)
Date of Most Recent Evidence Review	1/16/2024
Evidence Summary	There is insufficient evidence to support the use of the Shockwave Intravascular Lithotripsy for treating any indication, including coronary artery disease and peripheral artery disease. Current evidence is of poor quality and does not compare the addition of IVL to standard of care alone. Furthermore, no clinical guidelines were identified that support the use of IVL. Therefore, the Shockwave Intravascular Lithotripsy System (Shockwave Medical, Inc.) is considered not medically necessary for the treatment of any indication, including but not limited to coronary artery disease and peripheral artery disease.
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases Shockwave Coronary Intravascular Lithotripsy System (Shockwave Medical, Inc.) for Treating Coronary Artery Disease. ECRI (2021). Sattar et al. Coronary intravascular lithotripsy for coronary artery calcifications- systematic review of cases. PMID: 33889320. Sheikh et al. Intravascular lithotripsy for severe coronary calcification: a systematic review. PMID: 34713678. Shockwave Peripheral Intravascular Lithotripsy System for Treating Peripheral Artery Disease. ECRI (2023). National Institutes for Health and Care Excellence (NICE). Intravascular lithotripsy for calcified coronary arteries during percutaneous coronary intervention. June 2020.

Percutaneous Transcatheter Closure of Paravalvular Leak			
Device/Product, and			
Manufacturer			
Information (when			
applicable)			
Code(s)	93590	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, mitral valve (<i>Effective 1/1/2017</i>)	
	93591	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, aortic valve (<i>Effective 1/1/2017</i>)	
	93592	Percutaneous transcatheter closure of paravalvular leak; each additional occlusion device (List separately in addition to code for primary procedure) (<i>Effective 1/1/2017</i>)	

	are currently no FDA-approved devices for this indication. Devices such as the Amplatzer Vascular Plug are commonly used off-label for this purpose. The PARADIGM trial (NCT0448982; G200097) is a Medicare-approved Category B IDE study as of 1/15/2021. Coverage may be approved for members enrolled in the Medicare-approved study. Otherwise, coverage is not available for this procedure/service. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be</i> <i>verified as a Medicare-approved study on the</i> <u>CMS website for IDEs.</u>) 1/10/2025
Evidence Review	1/10/2025
	There are currently no FDA approved devices that are indicated for percutaneous transcatheter closure of paravalvular leak. Using devices such as the Amplatzer Vascular Plug is considered an off-label use. Therefore, percutaneous transcatheter closure of paravalvular leak is considered not medically necessary .
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases National Institutes for Health and Care Excellence (NICE)

Near-Infrared Dual Imaging of Meibomian Glands			
Device/Product, and		LipiScan Dynamic Meibomian Imager	
Manufacturer			
Information (when		
applicable)			
Code(s)	0507T	Near-infrared dual imaging (ie, simultaneous reflective and trans- illuminated	
		light) of meibomian glands, unilateral or bilateral, with interpretation and report (<i>Effective 7/1/2018</i>)	
Medicare and	1	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Not	es		
(when applica	able)		
Date of Most	Recent	2/14/2024	
Evidence Rev	iew		
Evidence Summary		For individuals who have dry eye symptoms who receive near infrared dual imaging (e.g., LipiScan Dynamic Meibomian Imager) there are no randomized controlled trials (RCTs) to support the use of this technology on health outcomes. Additional RCTs with large sample sizes are needed to determine the effects of this technology on health outcomes. Furthermore, no clinical guidelines were identified recommending LipiScan. Therefore, use of the LipiScan device is considered not medically necessary for all indications.	
Sources/Citations		 Tear Science Website Nichols JJ, Berntsen DA, Mitchell GL, Nichols KK. An assessment of grading scales for meibography images. Cornea. 2005 May;24(4):382-8. Doi: 10.1097/01.ico.0000148291.38076.59. PMID: 15829792. UpToDate. Blepharitis. Last updated No 6, 2023. Accessed Feb 12, 2024. https://www.uptodate.com/contents/blepharitis 	

Iris Prost	Iris Prosthesis Insertion				
Device/Product, and Manufacturer Information (when applicable)		CustomFlex Artificial Iris, Human Optics			
Code(s) 0616T		TERMED 12/31/2024 Insertion of iris prosthesis, including suture fixation and repair or removal of iris, when performed; without removal of crystalline lens or intraocular lens, without insertion of intraocular lens (<i>Effective 7/1/2020</i>)			
	0617T	TERMED 12/31/2024 Insertion of iris prosthesis, including suture fixation and repair or removal of iris, when performed; with removal of crystalline lens and insertion of intraocular lens (<i>Effective 7/1/2020</i>)			
	0618T	TERMED 12/31/2024 Insertion of iris prosthesis, including suture fixation and repair or removal of iris, when performed; with secondary intraocular lens placement or intraocular lens exchange (<i>Effective 7/1/2020</i>)			
	66683	Implantation of iris prosthesis, including suture fixation and repair or removal of iris, when performed			
Medicard Coverage (when a		Iris prosthesis Not medically necessary under Section 1862(a)(1) of the Social Security Act.			
	Most Recent	1/16/2024			
Evidence Summary		There is insufficient evidence to support the use of the CustomFlex Artificial Iris for treating any indication, including congenital or traumatic aniridia. In general, sample populations are small, follow-up periods are short, studies are retrospective, study populations are heterogeneous, and surgical techniques vary precluding generalization of overall safety and efficacy. Large, prospective, multicenter studies are required In order to confirm findings and validate CustomFlex for individuals with congenital and acquired aniridia. Furthermore, no clinical guidelines were identified that support the use of this device. Therefore, the use of implanted artificial iris devices is considered not medically necessary for the treatment of any indication.			
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases Hayes. CustomFlex ArtificialIris (HumanOptics AG, Clinical Research Consultants Inc.) for Aniridia. CustomFlex Artificial Iris Prosthesis (HumanOptics AG) for Repairing Iris Defects. ECRI (2021). Romano et al. Artificial iris implantation in congenital aniridia: A systematic review. PMID: 3637930. Ayers et al. Results of the United States Food and Drug Administration Clinical Trial of the CustomFlex Artificial Iris. PMID: 35131359. National Institutes for Health and Care Excellence (NICE). Intravascular lithotripsy for calcified coronary arteries during percutaneous coronary intervention. June 2020. 			

Transcathete	r l eft Veni	tricular Restoration Device			
Device/Produ		AccuCinch Ventricular Restoration System and Revivent TC System –			
Manufacture	-	BioVentrix			
Information ((when				
applicable)					
Code(s)	0643T	Transcatheter left ventricular restoration device implantation including			
		right and left heart catheterization and left ventriculography when			
		performed, arterial approach (<i>Effective 7/1/2021</i>)			
Medicare and		The AccuCinch Ventricular Restoration System has been granted			
Coverage Not		Breakthrough Device Designation by the FDA.			
(when application	able)				
		The Clinical Study of the BioVentrix Revivent TC [™] System for Treatment of			
		Left Ventricular Aneurysms ALIVE-EA (American Less Invasive Ventricular			
		Enhancement-Expanded Access study (NCT05710042; G160013), which is			
		evaluating the use of the ReviventTC [™] system, is a Medicare-approved			
		Category B IDE study as of 5/2023.			
		In addition, the Clinical Study of the BioVentrix Revivent TC™ System for			
		Treatment of Left Ventricular Aneurysms study (NCT02931240; G160013),			
		also evaluating this system, is a Medicare-approved Category B IDE study as			
		of 3/2017.			
		Coverage may be considered for members enrolled in one of these			
		Medicare-approved studies. Otherwise, coverage is not available for this			
		procedure/service. (To confirm participation in a Medicare-approved IDE			
		study, the NCT number must be provided and be verified as a Medicare-			
		approved study on the <u>CMS website for IDEs</u> .)			
Date of Most	Recent	1/22/2024			
Evidence Rev	view				
Evidence Sum	nmary	There is insufficient evidence to support ventricular restorative devices			
		(e.g., AccuCinch and BioVentrix Revivent TC™ System) for any indication,			
		including heart failure. Additionally, while the FDA has granted the			
		AccuCinch device the "Breakthrough Device Designation", it has yet to			
		receive FDA approval. Coverage may be considered for members enrolled in			
		one of these Medicare-approved studies. Otherwise, ventricular restorative			
		devices such as AccuCinch and the BioVentrix Revivent TC [™] System are			
		considered not medically necessary for the treatment of any indication			
Sources/Citat	tions	ECRI, Hayes, Cochrane, and PubMed databases			
		Clinical evidence assessment on the AccuCinch Restoration System.			
		ECRI (2022).			

Table 2.8

Subchondral Calcium Phosphate (SCP) Injection (Subchondroplasty)		
Device/Product, and	N/A	
Manufacturer		
Information (when		
applicable)		

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	1								
Code(s)	0707T	Injection(s), bone-substitute material (eg, calcium phosphate) into subchondral bone defect (ie, bone marrow lesion, bone bruise, stress injury, microtrabecular fracture), including imaging guidance and arthroscopic assistance for joint visualization (<i>Effective 1/1/2022</i>)							
	0869T	Injection(s), bone-substitute material for bone and/or soft tissue hardware fixation augmentation, including intraoperative imaging guidance, when performed							
Medicare and Coverage No (when applic	tes	Not medically necessary under Section 1862(a)(1) of the Social Security Act.							
Date of Most Evidence Rev		2/12/2024							
Evidence Summary		There is not enough evidence to support the use of subchondral calcium phosphate injections for knee bone marrow lesions. The current evidence is very poor. Long term, randomized studies are needed to determine efficacy and safety of the injections. Furthermore, no guidelines were identified recommending subchondroplasty for bone osteoarthritis or any other indication. Therefore, subchondral calcium phosphate injections (subchondroplasty) are considered not medically necessary for all indications, including the treatment of bone osteoarthritis							
Sources/Cita	tions	 ECRI, Hayes, Cochrane, and PubMed databases Hayes. Subchondral Calcium Phosphate Injections for Knee Bone Marrow Lesions. (2023). Hayes reviewed studies by the following: Farr and Cohen (2013) Cohen and Sharkey (2016) Levy and Cousins (2020) Krebs et al. (2020) Chua et al. (2021) Pasqualotto et al. (2015) No relevant clinical practice guidelines were identified 							

MyoPro™ My	MyoPro™ Myoelectric Upper Limb Orthotic			
Device/Product, and Manufacturer Information (when applicable)		MyoPro™ myoelectric upper limb orthotics		
Code(s) L8701		Powered upper extremity range of motion assist device, elbow, wrist, hand with single or double upright(s), includes microprocessor, sensors, all components and accessories, custom fabricated (<i>Effective 1/1/2019</i>)		
L8702		Powered upper extremity range of motion assist device, elbow, wrist, hand, finger, single or double upright(s), includes microprocessor, sensors, all components and accessories, custom fabricated (<i>Effective 1/1/2019</i>)		
Medicare and Coverage Notes (when applicable)		According to Social Security Act §1861(s)(9), while orthoses may be covered under the Medicare Braces Benefit, all durable medical equipment, prosthetics, orthotics and supplies (DMEPOS) need to be both medically reasonable <u>and</u> medically necessary to meet the functional needs of the		

Date of Most Recent	individual patient. Under Medicare, only medically reasonable and necessary services are covered (<i>Title XVIII of the Social Security Act, §1862(a)(1)(A)</i>). Coverage of DMEPOS includes determining if there is a "less costly alternative" which can provide the needed and appropriate therapeutic benefit for the individual. Items which provide features beyond what is necessary to support the body member would fall under the category of an""upgrade"" Upgrades include "excess components" to an orthotic device (e.g., a feature, an accessory, or a service) that are in addition to, or more extensive and/or more expensive than what is reasonable and necessary under Medicare's coverage requirements. While there is coding instruction provided by the Medicare Pricing, Data Analysis and Coding (PDAC) contractor, no specific Medicare coverage policy or guidance (e.g., manual, national coverage determination [NCD], local coverage determination [LCD] article [LCA], etc.) was identified specific to the MyoPro device or technology. In the absence of a NCD, LCD, or other Medicare policy, Medicare guidelines allow a Medicare Advantage Organization (MAO) to make coverage determinations, applying an objective, evidence-based process, based on authoritative evidence. (<i>Medicare IOM Pub. No. 100-16, Ch. 4, §90.5</i>) Therefore, Company coverage criteria are applied for medical necessity decision-making. 1/16/2024
Evidence Review Evidence Summary	Evidence is insufficient to recommend the use of the MyoPro orthosis for
	any indication. No other payors are covering this device at this time, just the myoelectric upper limb prostheses with stand body-powered prosthetic devices that meet criteria. Recent Hayes reviews and an ECRI review identified too few published articles to consider evidence sufficient to support this technology. Therefore, the MyoPro orthosis is considered not medically necessary for any indication.
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases No relevant clinical practice guidelines were identified Medicare Claims Processing Manual, Pub. #100-04, Chapter 20 Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DMEPOS), §10.1.3 Prosthetics and Orthotics (Leg, Arm, Back, and Neck Braces, Trusses, and Artificial Legs, Arms, and Eyes) Coverage Definition Medicare Claims Processing Manual, Pub. #100-04, Chapter 20 Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DMEPOS), §120 DME MACs Billing Procedures Related To Advanced Beneficiary Notice (ABN) Upgrades Medicare Benefit Policy Manual, Pub. #100-02, Chapter 15 Covered Medical and Other Health Services, §110.1 Definition of Durable Medical Equipment, C. Necessary and Reasonable, 2. Reasonableness of the Equipment Palmetto PDAC website for MyoPro[®] coding; Available at: MyoPro[®] (Myomo, Inc.) Assist Device Correct Coding - Revised

MicroGenDX c	PCR & N	GS
Device/Product, and Manufacturer Information (when applicable)		MicroGenDX qPCR & NGS
Code(s)	0112U	Infectious agent detection and identification, targeted sequence analysis (16S and 18S rRNA genes) with drug-resistance gene (<i>Effective 10/1/2019</i>)
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act. These tests are not current standard of care, and do not meet Medicare's medically "reasonable" and necessary requirements. Non-coverage of these tests does not limit access to care for patients as clinically acceptable alternative test options are available.
Date of Most I Evidence Revie		2/12/2024
Evidence Summary		There is not enough evidence to show that the MicroGen DX Next-Gen DNA Sequencing test has established clinical utility. Furthermore, there is no evidence to show that it can be used to manage treatment decisions and/or improve health outcomes for any indication. In addition, no clinical practice guidelines recommend the use of this test. Therefore, the MicroGen DX Next-Gen DNA Sequencing test is considered not medically necessary for the diagnosis of infectious diseases.
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases Hayes molecular test assessment for Karius Test to diagnose Infections in immunocompromised or vulnerable hospitalized patients (2022, updated 2023) McDonald M, Kameh D, Johnson ME, Johansen TEB, Albala D, Mouraviev V. A Head-to-Head Comparative Phase II Study of Standard Urine Culture and Sensitivity Versus DNA Next-generation Sequencing Testing for Urinary Tract Infections. Rev Urol. 2017;19(4):213-220. doi: 10.3909/riu0780. PMID: 29472825; PMCID: PMC5811878. Tarabichi M, Shohat N, Goswami K, Parvizi J. Can next generation sequencing play a role in detecting pathogens in synovial fluid? Bone Joint J. 2018 Feb;100-B(2):127-133. doi: 10.1302/0301-620X.100B2.BJJ-2017-0531.R2. PMID: 29437053.

14016 2.11					
Avise [®] Lupus	Avise [®] Lupus				
Device/Prod	uct, and	aisle [®] DX Disease Activity Index (Progentec Diagnostics, Inc.; Oklahoma) and			
Manufacturer		aisle [®] DX Flare Risk Index (Progentec Diagnostics, Inc.; Oklahoma)			
Information	(when				
applicable)					
Code(s)	0446U	Autoimmune diseases (systemic lupus erythematosus [SLE]), analysis of 10			
		cytokine soluble mediator biomarkers by immunoassay, plasma, individual			
		components reported with an algorithmic risk score for current disease			
		activity (Effective 4/1/2024)			
	0447U	Autoimmune diseases (systemic lupus erythematosus [SLE]), analysis of 11			
		cytokine soluble mediator biomarkers by immunoassay, plasma, individual			

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	components reported with an algorithmic prognostic risk score for developing a clinical flare (<i>Effective 4/1/2024</i>)		
Medicare and Coverage Notes (when applicable)	developing a clinical flare (Effective 4/1/2024)Not medically necessary under Section 1862(a)(1) of the Social Security Act.The Part B Medicare Contractor (MAC) for this laboratory location ofOklahoma is Novitas Solutions. While this MAC provides an LCD forbiomarkers in general (LCD L35062), they do not provide specific coveragepolicy criteria for proteomic testing. The LCD L35062 states coverage ispredicated on an underlying performance of acceptable, high-qualityanalytical validity for such testing, as well as recognized decision impact bythe clinical community. The Company review of available evidence willapply to determine if these tests meet the LCD coverage requirements.		
Date of Most Recent Evidence Review	1/16/2024		
Evidence SummaryEvidence is currently insufficient to support the use of the Avise Lu No evidence-based clinical practice guidelines were identified that this service. Prospective diagnostic cohort studies that assess the clinical validity are needed, and comparative studies of patients w diagnosis is guided by Avise Lupus and standard laboratory testing needed to assess the test's clinical utility. The diagnosis of SLE ren complex and no single test or combination of tests are completely Therefore, serum biomarker panel testing for lupus and other con tissue diseases (e.g. Avise Lupus Test) is considered not medically necessary for the treatment of any indication, including diagnosin 			
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases ECRI published genetic test assessment about the Avise Lupus Test. (2023). Alexander et al. A multianalyte assay panel with cellbound complement activation products demonstrates clinical utility in systemic lupus erythematosus. PMID: 34253650. O'Malley et al. Complement activation products vs standard ANA testing: Treatment outcomes, diagnosis, and economic impact (CAPSTONE) in systemic lupus erythematosus. PMID: 35775579. Wallce et al. Randomised prospective trial to assess the clinical utility of multianalyte assay panel with complement activation products for the diagnosis of SLE. PMID: 31592328. American College of Rheumatology (ACR). 2019 European League Against Rheumatism/American College of Rheumatology Classification Criteria for Systemic Lupus Erythematosus. 2019. 		

Virtual Reality Cognitive Behavioral Therapy Device				
Device/Product, and	RelieVRx (E1905)			
Manufacturer	r l			
Information (when	n			
applicable)				

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Code(s)	0770T	Virtual reality technology to assist therapy (List separately in addition to
		code for primary procedure) (<i>Effective 1/1/2023</i>)
	0771T	Virtual reality (VR) procedural dissociation services provided by the same physician or other qualified health care professional performing the diagnostic or therapeutic service that the VR procedural dissociation supports, requiring the presence of an independent, trained observer to assist in the monitoring of the patien''s level of dissociation or consciousness and physiological status; initial 15 minutes of intraservice time, patient age 5 years or older (<i>Effective 1/1/2023</i>)
	0772T	Virtual reality (VR) procedural dissociation services provided by the same physician or other qualified health care professional performing the diagnostic or therapeutic service that the VR procedural dissociation supports, requiring the presence of an independent, trained observer to assist in the monitoring of the patien''s level of dissociation or consciousness and physiological status; each additional 15 minutes intraservice time (List separately in addition to code for primary service) (<i>Effective 1/1/2023</i>)
	0773T	Virtual reality (VR) procedural dissociation services provided by a physician or other qualified health care professional other than the physician or other qualified health care professional performing the diagnostic or therapeutic service that the VR procedural dissociation supports; initial 15 minutes of intraservice time, patient age 5 years or older (<i>Effective 1/1/2023</i>)
	0774T	Virtual reality (VR) procedural dissociation services provided by a physician or other qualified health care professional other than the physician or other qualified health care professional performing the diagnostic or therapeutic service that the VR procedural dissociation supports; each additional 15 minutes intraservice time (List separately in addition to code for primary service) (<i>Effective 1/1/2023</i>)
	E1905	Virtual reality cognitive behavioral therapy device (CBT), including pre- programmed therapy software (<i>Effective 4/1/2023</i>)
Medicare and Coverage No (when applic	tes	Not medically necessary under Section 1862(a)(1) of the Social Security Act. Note, any CMS classification of associated devices as "DME" or provision of fee amounts do not establish medical necessity.
Date of Most Evidence Rev		2/14/2024
Evidence Summary		Evidence is currently insufficient to support the use of virtual reality therapy systems for any indication. There is currently a lack of high-quality studies that show efficacy of these devices beyond standard treatments. Furthermore, there are no evidence-based clinical practice guidelines recommending virtual therapy systems. Therefore, virtual reality-assisted therapy systems used for screening, diagnosing, or treating a health condition are considered not medically necessary for all indications.
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases ECRI. Virtual Reality-based Psychological and Behavioral Interventions for Treating Chronic Back Pain. Published Jan 28, 2024. Accessed Feb 2, 2024. <u>https://ww</u>w.ecri.org/components/Hotline/Pages/211288.aspx

•	Fouks Y, Kern G, Cohen A, et al. A virtual reality system for pain and anxiety management during outpatient hysteroscopy-A randomized control trial. Eur J Pain. 2022; 26(3):600-609.
•	Hendricks TM, Gutierrez CN, Stulak JM, et al. The use of virtual reality to reduce preoperative anxiety in first-time sternotomy patients: a randomized controlled pilot trial. Mayo Clin Proc. 2020; 95(6):1148-1157.

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ArteraAl Pros	tata Tast	
Device/Produ	-	ArteraAl Prostate Test (Artera Inc.; Florida)
Manufacture		
Information (when	
applicable)		
Code(s)	0376U	Oncology (prostate cancer), image analysis of at least 128 histologic features and clinical factors, prognostic algorithm determining the risk of distant metastases, and prostate cancer-specific mortality, includes predictive algorithm to androgen deprivation therapy response, if appropriate (<i>Effective 4/1/2023</i>)
Medicare and	d	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Not	tes	
(when application	able)	
Date of Most	Recent	2/14/2024
Evidence Rev	view	
Evidence Sun		There is currently not enough evidence to establish the clinical utility of these types of testing. That is, it is not known whether use of system pathology or multimodal artificial intelligence (AI) models would result in medical or surgical management changes leading to improved health outcomes for individuals with prostate cancer. Additional studies are also needed to determine which individuals may benefit from these types of testing, when in the course of diagnosis and treatment the systems pathology testing or multimodal artificial intelligence testing should be performed, and what outcomes should be used in developing models. Therefore, AI models of testing prostate cancer, including ArteraAI, are considered not medically necessary .
Sources/Citat	tions	 ECRI, Hayes, Cochrane, and PubMed databases ArteraAI. ArteraAI Prostate test. Accessed Feb 14, 2024. <u>https://arter</u>a.ai/arteraai-prostate-cancer-test Esteva A, Feng J, van der Wal D, et al. Prostate cancer therapy personalization via multi-modal deep learning on randomized phase III clinical trials. NPJ Digit Med. 2022; 5(1):71. National Comprehensive Cancer Network. Prostate Cancer. Version 4.2023. Published Sep 7, 2023. <u>https://ww</u>w.nccn.org/professionals/physician_gls/pdf/prostate.pdf

Device/Product, and Manufacturer Information (when applicable)		NaviDKD [™] Predictive Diagnostic Screening for Kidney Health test kits (Journey Biosciences, Inc.) and PromarkerD (Sonic Reference Laboratory; Texas)
Code(s)	0384U	Nephrology (chronic kidney disease), carboxymethyllysine, methylglyoxal hydroimidazolone, and carboxyethyl lysine by liquid chromatography with tandem mass spectrometry (LCMS/MS) and HbA1c and estimated glomerular filtration rate (GFR), with risk score reported for predictive progression to high-stage kidney disease (<i>Effective 4/1/2023</i>)
	0385U	Nephrology (chronic kidney disease), apolipoprotein A4 (ApoA4), CD5 antigen-like (CD5L), and insulin-like growth factor binding protein 3 (IGFBP3) by enzyme-linked immunoassay (ELISA), plasma, algorithm combining results with HDL, estimated glomerular filtration rate (GFR) and clinical data reported as a risk score for developing diabetic kidney disease (<i>Effective</i> 4/1/2023)
Medicare and Coverage Note (when application		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most F Evidence Revie		3/26/2024
Evidence Sum	-	Evidence is currently insufficient to support the use of the tests for the prediction of renal decline in people with diabetes. There is currently a lack of high-quality studies and clinical practice guidelines that assess the PromarkerD Test System and no studies were identified on NaviDKD. Large studies with long-term follow-up that demonstrate clinical utility are necessary to definitively determine medical necessity. NICE guidelines recommend against the use of PromarkerD. Patients with diabetes should be tested annually for diabetic kidney disease; testing for patients' risk profile for DKD among this population is not considered standard of care. Tests for the prediction of renal decline (E.g., NaviDKD, PromarkerD) are considered not medically necessary for the treatment of any indication, including but not limited to assessing the risk of diabetic kidney disease (DKD) in patients with diabetes.
Sources/Citati	ons	 ECRI, Hayes, Cochrane, and PubMed databases Peters, et al. Canagliflozin Attenuates PromarkerD Diabetic Kidney Disease Risk Prediction Scores. PMID: 37176686. Peters, et. al. PromarkerD Predicts Renal Function Decline in Type 2 Diabetes in the Canagliflozin Cardiovascular Assessment Study (CANVAS). PMID: 33036174. Fusfeld, et. al. Evaluation of the clinical utility of the PromarkerD in-vitro test in predicting diabetic kidney disease and rapid renal decline through a conjoint analysis. PMID: 35913946. Bringans, et. al. The New and the Old: Platform Cross-Vlaidation of Immunoaffinity MASS Spectrometry versus ELISA for PromarkerD, a Predictive Testfor Diabetic Kidney Disease. PMID: 33126588. Bringans, et. al. A robust multiplex immunoaffinity mass spectrometry assay (PromarkerD) for clinical prediction of diabetic kidney disease. PMID: 33093819.

•	Bringans, et. al. Immunoaffinity Mass Spectrometry Diagnostic Tests for Multi-Biomarker Assays. PMID: 36781787.
•	Drinkwater, et. al. Assessment of biomarkers associated with rapid renal decline in the detection of retinopathy and its progression in type 2 diabetes: The Fremantle Diabetes Study Phase II. PMID: 33495038.
•	Peters, et. al. Validation of a protein biomarker test for predicting renal decline in type 2 diabetes: The Fremantle Diabetes Study Phase II. PMID: 31669066.
•	National Institute for Health and Care Excellence. PromarkerD for predicting the risk of diabetic kidney disease in people with type 2 diabetes. Published December 2022.
	<u>https://ww</u> w.nice.org.uk/advice/mib312/chapter/summary. Accessed 3/26/2024.

Table 2.15					
Virtual Reality	Virtual Reality Gait Training				
Device/Produ	ct, and	N/A			
Manufacturer					
Information (v	when				
applicable)					
Code(s)	0791T	Motor-cognitive, semi-immersive virtual reality–facilitated gait training, each			
		15 minutes (List separately in addition to code for primary procedure)			
		(Effective 7/1/2023)			
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.			
Coverage Note	es				
(when applica	ble)				
Date of Most Recent		1/10/2025			
Evidence Revi	ew				
Evidence Sum	mary	Evidence is currently insufficient to support the use of this service. There is			
		currently a lack of high-quality studies and clinical practice guidelines that			
		address this service. No evidence-based clinical practice guidelines exist as			
		well. Therefore, virtual reality gait training is considered not medically			
		necessary for the treatment of any indication.			
Sources/Citati	ions	ECRI, Hayes, Cochrane, and PubMed databases			
		Keersmaecker et al. Virtual reality during gait training: does it improve			
		gait function in persons with central nervous system movement			
		disorders? A systematic review and meta-analysis. PMID: 30814368.			
		2019.			

Table 2.16 Thermal Pulmonary Artery Denervation Device/Product, and Manufacturer Information (when applicable)

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Code(s)	0793T	Percutaneous transcatheter thermal ablation of nerves innervating the pulmonary arteries, including right heart catheterization, pulmonary artery angiography, and all imaging guidance (<i>Effective 7/1/2023</i>)
Medicare and Coverage Note (when applical		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most F Evidence Revie		1/16/2025
Evidence Sum	mary	Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, pulmonary artery denervation, including thermal pulmonary artery denervation, is considered not medically necessary for the treatment of any indication.
Sources/Citation	ons	 ECRI, Hayes, Cochrane, and PubMed databases Davies et al. Current status of pulmonary artery denervation. PMID: 36262207. 2022.

	CureMatch Therapy Matching and Scoring Service			
Device/Product, and Manufacturer Information (when applicable)		CureMatch, Inc. (California)		
Code(s)	0794T	Patient-specific, assistive, rules-based algorithm for ranking pharmaco- oncologic treatment options based on the patien''s tumor-specific cancer marker information obtained from prior molecular pathology, immunohistochemical, or other pathology results which have been previously interpreted and reported separately (<i>Effective 7/1/2023</i>)		
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Date of Most I Evidence Revie		1/16/2025		
Evidence Sum	mary	Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, CureMatch is considered not medically necessary for the treatment of any indication.		
Sources/Citati	ons	 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified. 		

Table 2.18

XV Lung Ventilation Analysis Software (XV LVAS)

Device/Produc Manufacturer Information (v applicable)		XV Lung Ventilation Analysis Software (XV LVAS)
Code(s)	0807T	Pulmonary tissue ventilation analysis using software-based processing of data from separately captured cinefluorograph images; in combination with previously acquired computed tomography (CT) images, including data preparation and transmission, quantification of pulmonary tissue ventilation, data review, interpretation and report (<i>Effective 7/1/2023</i>)
	0808T	Pulmonary tissue ventilation analysis using software-based processing of data from separately captured cinefluorograph images; in combination with computed tomography (CT) images taken for the purpose of pulmonary tissue ventilation analysis, including data preparation and transmission, quantification of pulmonary tissue ventilation, data review, interpretation and report (<i>Effective 7/1/2023</i>)
	0877T	Augmentative analysis of chest computed tomography (CT) imaging data to provide categorical diagnostic subtype classification of interstitial lung disease; obtained without concurrent CT examination of any structure contained in previously acquired diagnostic imaging (<i>Effective 7/1/2024</i>)
	0878T	Augmentative analysis of chest computed tomography (CT) imaging data to provide categorical diagnostic subtype classification of interstitial lung disease; obtained with concurrent CT examination of the same structure (<i>Effective 7/1/2024</i>)
	0879T	Augmentative analysis of chest computed tomography (CT) imaging data to provide categorical diagnostic subtype classification of interstitial lung disease; radiological data preparation and transmission (<i>Effective 7/1/2024</i>)
	0880T	Augmentative analysis of chest computed tomography (CT) imaging data to provide categorical diagnostic subtype classification of interstitial lung disease; physician or other qualified health care professional interpretation and report (<i>Effective 7/1/2024</i>)
Medicare and Coverage Note (when applica	ble)	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most I Evidence Revi		3/5/2024
Evidence Summary		Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that assess the XV LVAS [®] System. Large studies with long-term follow-up that demonstrate clinical utility are necessary to definitively determine medical necessity. Therefore, the XV LVAS [®] System is considered not medically necessary for the treatment of any indication.
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. No relevant clinical guidelines were identified. Yamashiro T, Moriya H, Tsubakimoto M, et al. Preoperative assessment of parietal pleural invasion/adhesion of subpleural lung cancer: Advantage of software-assisted analysis of 4-dimensional dynamic-ventilation computed tomography. Eur Radiol. 2019;29(10):5247-5252.

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•	Nagatani Y, Hashimoto M, Oshio Y, et al. Preoperative assessment of
	localized pleural adhesion: Utility of software-assisted analysis on
	dynamic-ventilation computed tomography. Eur J Radiol.
	2020;133:109347.

SYNTap [®] Biom	arker Tes	st
Device/Product, and Manufacturer Information (when applicable)		SYNTap [®] Biomarker Test (Amprion Clinical Laboratory)
Code(s)	0393U	Neurology (eg, Parkinson disease, dementia with Lewy bodies), cerebrospinal fluid (CSF), detection of misfolded α-synuclein protein by seed amplification assay, qualitative (<i>Effective 7/1/2023</i>)
Medicare and Coverage Note (when application		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most F Evidence Revie		1/16/2025
Evidence Sum	mary	Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, the SYNTap biomarker test is considered not medically necessary for the treatment of any indication.
Sources/Citati	ons	 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified.

Table 2.20

Gastric Electro	physiolo	gy Mapping with Simultaneous (GEMS) patient symptom profiling
Device/Produc	ct, and	Gastric Electrophysiology Mapping with Simultaneous (GEMS) patient
Manufacturer		symptom profiling
Information (w	vhen	
applicable)		
Code(s)	0868T	High-resolution gastric electrophysiology mapping with simultaneous
		patient-symptom profiling, with interpretation and report
	C9787	TERMED 6/30/2024
		Gastric electrophysiology mapping with simultaneous patient symptom
		profiling (Effective 7/1/2023)
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Note	es	
(when applical	ble)	
Date of Most Recent		1/16/2025
Evidence Review		
Evidence Summary		Evidence is currently insufficient to support the use of this service. There is
		currently a lack of high-quality studies and clinical practice guidelines that

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	address this service. No evidence-based clinical practice guidelines exist as well. Therefore, gastric electrophysiology mapping is considered not medically necessary for the treatment of any indication.
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified.

PrecivityAD [®] Blood Test				
Device/Product, and Manufacturer Information (when applicable)		PrecivityAD [®] blood test (C2N Diagnostics LLC; Missouri)		
Code(s)	0412U	Beta amyloid, A β 42/40 ratio, immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS) and qualitative ApoE isoform-specific proteotyping, plasma combined with age, algorithm reported as presence or absence of brain amyloid pathology (<i>Effective 10/1/2023</i>)		
Medicare and Coverage Note (when application		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Date of Most F Evidence Revie		2/12/2024		
Evidence Summary		There is insufficient evidence to support beta amyloid immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS) and qualitative ApoE isoform-specific proteotyping. There is also a lack of comparison to standard of care testing. Therefore, beta amyloid immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS) and qualitative ApoE isoform-specific proteotyping is considered not medically necessary for the treatment of any indication.		
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. Iino et al. Quantification of Amyloid-β in Plasma by Simple and Highly Sensitive Immunoaffinity Enrichment and LC-MS/MS Assay. PMID: 33462584. 2021. No relevant clinical guidelines were identified. 		

Augmentative Algorithmic Analysis of Digitized Whole Slide Imaging For Oncology			
Device/Product, and		LungOI (Imagene; Pennsylvania) and PreciseDx Breast Biopsy Test (PreciseDx,	
Manufacturer		Inc.; New York)	
Information (when			
applicable)			
Code(s)	0414U	Oncology (lung), augmentative algorithmic analysis of digitized whole slide	
		imaging for 8 genes (ALK, BRAF, EGFR, ERBB2, MET, NTRK1-3, RET, ROS1),	

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		and KRAS G12C and PD-L1, if performed, formalin-fixed paraffin-embedded (FFPE) tissue, reported as positive or negative for each biomarker (<i>Effective</i> 10/1/2023)		
	0418U	Oncology (breast), augmentative algorithmic analysis of digitized whole slide imaging of 8 histologic and immunohistochemical features, reported as a recurrence score (<i>Effective 10/1/2023</i>)		
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Date of Most Recent Evidence Review		2/12/2024		
Evidence Sum	mary	There is insufficient evidence to support the use of augmentative algorithmic analysis of digitized whole slide imaging of genes for oncology diagnosis assistance or any other indication. There was no mention of algorithmic assistance including any genes from the digital pathology association white paper. No other evidence was identified. Therefore, whole slide imaging of genes is considered not medically necessary for the any indication, including but not limited to breast or lung cancer diagnosis.		
Sources/Citation	ons	 ECRI, Hayes, Cochrane, and PubMed databases. Aeffner et al. Introduction to Digital Image Analysis in Whole-slide Imaging: A White Paper from the Digital Pathology Association. PMID: 30984469. 2019. No relevant clinical guidelines were identified. 		

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In-Person Monitoring & Intervention During Psychedelic Medication Therapy		
Device/Product, and Manufacturer Information (when applicable)		
Code(s)	0820T	Continuous in-person monitoring and intervention (eg, psychotherapy, crisis intervention), as needed, during psychedelic medication therapy; first physician or other qualified health care professional, each hour (<i>Effective</i> 1/1/2024)
	0821T	Continuous in-person monitoring and intervention (eg, psychotherapy, crisis intervention), as needed, during psychedelic medication therapy; second physician or other qualified health care professional, concurrent with first physician or other qualified health care professional, each hour (List separately in addition to code for primary procedure) (<i>Effective 1/1/2024</i>)
	0822T	Continuous in-person monitoring and intervention (eg, psychotherapy, crisis intervention), as needed, during psychedelic medication therapy; clinical staff under the direction of a physician or other qualified health care professional, concurrent with first physician or other qualified health care professional, each hour (List separately in addition to code for primary procedure) (<i>Effective 1/1/2024</i>)

Medicare and	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Notes		
(when applicable)		
Date of Most Recent	3/5/2024	
Evidence Review		
Evidence Summary	Evidence is currently insufficient to support the use of this psychedelic medication (e.g. ketamine) for the treatment of any indication. There is currently a lack of high-quality studies and clinical practice guidelines that assess these services. Large studies with long-term follow-up that demonstrate clinical utility are necessary to definitively determine medical necessity. Therefore, In-Person Monitoring and Intervention During Psychedelic Medication Therapy (e.g. ketamine) is considered not medically necessary for the treatment of any indication, including but not limited to psychiatric disorders (e.g. depression), chronic pain or chronic daily headache.	
Sources/Citations	ECRI, Hayes, Cochrane, and PubMed databases	
	 ECRI published genetic test assessment about the Avise Lupus Test. (2023). 	
	• Schoevers et al (2016). Oral ketamine for the treatment of pain and treatment-resistant depression. PMID: 26834167.	
	• Lauritsen et al (2016). Intravenous ketamine for subacute treatment of refractory chronic migraine: a case series. PMID: 27878523.	
	• Pomeroy et al (2018). Ketamine Infusions for Treatment Refractory Headache. PMID: 28025837.	
	 American Society of Regional Anesthesia and Pain Medicine (ASRA), The American Academy of Pain (AAP) and The American Society of Anesthesiologists (ASA). Consensus Guidelines on the Use of Intravenous Ketamine Infusions for Acute Pain Management From the American Society of Regional Anesthesia and Pain Medicine, the American Academy of Pain Medicine, and the American Society of Anesthesiologists. PMID: 29870457. American Psychiatric Association (APA). A Consensus Statement on the 	
	Use of Ketamine in the Treatment of Mood Disorders. PMID: 28249076.	

Breast Opto	Breast Opto-Acoustic Imaging			
Device/Product, and Manufacturer Information (when applicable)				
Code(s)	0857T	Opto-acoustic imaging, breast, unilateral, including axilla when performed, real-time with image documentation, augmentative analysis and report (List separately in addition to code for primary procedure) (<i>Effective 1/1/2024</i>)		
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		

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Date of Most Recent Evidence Review	3/27/2024	
Evidence Summary	There is insufficient evidence to support opto-acoustic imaging of the breast. Evidence is minimal and does not show this technology results in an improvement in the net health outcomes. No evidence-based clinical practice guidelines exist as well. Therefore, optoacoustic imaging of the breast is considered not medically necessary for the treatment of any indication, including but not limited to breast cancer.	
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases. Dogan et al. Optoacoustic Imaging and Gray-Scale US Features of Breast Cancers: Correlation with Molecular Subtypes. Radiology. 2019;292(3):564-572. Menezes et al. Optoacoustic imaging of the breast: correlation with histopathology and histopathologic biomarkers. Eur Radiol. 2019;29(12):6728-6740. No relevant clinical guidelines were identified, and NCCN breast cancer guidelines do not mention this technology. 	

Table 2.25				
Near-Infrar	Near-Infrared Spectroscopy			
Device/Product, and Manufacturer Information (when applicable)		InfraReDx LipiScan NIR Catheter Imaging System		
Code(s)	0859T	Noncontact near-infrared spectroscopy (eg, for measurement of deoxyhemoglobin, oxyhemoglobin, and ratio of tissue oxygenation), other than for screening for peripheral arterial disease, image acquisition, interpretation, and report; each additional anatomic site (List separately in addition to code for primary procedure) (<i>Effective 1/1/2024</i>)		
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Date of Most Recent Evidence Review		3/26/2024		
Evidence Summary		There is insufficient evidence to support the efficacy of near-infrared spectroscopy to assess coronary artery plaque vulnerability, behavioral disorders, or for the prediction of wound healing. Additional studies of good methodological quality are required to support the clinical utility and medical necessity of this technology. Furthermore, no clinical practice guidelines assessed the use of near-infrared spectroscopy for any indication. Therefore near-infrared spectrometry is considered not medically necessary for assessing coronary artery plaque vulnerability.		
Sources/Cit	tations	 ECRI, Hayes, Cochrane, and PubMed databases. Hayes News Release: FDA Approves New Device to Measure the Fat Composition of Coronary Plaque. Published 2008. Accessed 1/1/2018. Waxman S, Dixon SR, "Allier P, et al. In vivo validation of a catheter- based near-infrared spectroscopy system for detection of lipid core 		

	coronary plaques: initial results of the SPECTACL study. JACC
	Cardiovascular imaging. 2009;2(7):858-868.
•	Kawashima C, Tanaka Y, Inoue A, et al. Hyperfunction of left lateral
	prefrontal cortex and automatic thoughts in social anxiety disorder: A
	near-infrared spectroscopy study. J Affect Disord. 2016;206:256-260.
•	U.S. Food and Drug Administration 510(k) Premarket Notification Letter:
	LipiScan Cornary Imaging System.
	<u>https://ww</u> w.accessdata.fda.gov/cdrh_docs/pdf7/K072932.pdf.
	Published 2008. Accessed 1/1/1018.
•	No relevant clinical guidelines were identified.

Corpus Cave	rnosum Lo	w-intensity Extracorporeal Shock Wave Therapy	
Device/Product, and			
Manufacturer			
Information	(when		
applicable)			
Code(s)	0864T	Low-intensity extracorporeal shock wave therapy involving corpus	
		cavernosum, low energy (Effective 1/1/2024)	
Medicare an	nd	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage No	otes	Low-intensity extracorporeal shockwave therapy (Li-ESWT) is a novel	
(when appli		treatment for erectile dysfunction (ED), thought to stimulate	
v		neovascularization and nerve regeneration, and as such, has gained interest	
		in treatment of ED related to radical prostatectomy or radiation therapy.	
Date of Mos	t Recent	3/26/2024	
Evidence Re		-,,	
Evidence Su	mmary	Evidence is currently insufficient to support the use of low-intensity	
	,	extracorporeal shockwave therapy (Li-ESWT). The shockwave generator	
		types and protocols (energy settings, dosing, frequency of use, probe	
		locations, and duration of therapy) were inconsistent between studies and	
		consequently difficult to compare. Two clinical practice guidelines that	
		address Li-ESWT currently recommend against the procedure for the	
		treatment of erectile dysfunction due to a lack of high-quality evidence.	
		Large, randomized controlled trials with uniform treatment parameters are	
		needed to determine clinical utility. Therefore, low-intensity extracorporeal	
		shockwave therapy is considered not medically necessary for the treatment	
- /		of erectile dysfunction.	
Sources/Cita	ations	ECRI, Hayes, Cochrane, and PubMed databases.	
		Matthew et. al. The use of low-intensity extracorporeal shockwave	
		therapy in management of erectile dysfunction following prostate cancer	
		treatment: a review of the current literature. PMID: 37426598. 2023.	
		• Campbell et. al. Meta-analysis of randomized controlled trials that assess	
		the efficacy of low-intensity shockwave therapy for the treatment of	
		erectile dysfunction. PMID: 30956690. 2019. Brunckhorst et. al. A	
		systematic review of the long-term efficacy of low-intensity shockwave	
		therapy for vasculogenic erectile dysfunction. PMID: 2019.	

•	•	Bakr andEl-Sakka. Extracorporeal Shockwave Therapy in Peyronie's Disease: Systematic Review and Meta-Analysis. PMID. 34511369. 2021.
•	•	American Urology Association (AUA).
•	•	Sexual Medicine Society of North America (SMSNA)

adie 2.27			
Focal Abla	tive Therapy	and Magnetic Field Induction Ablation (Prostate)	
Device/Product, and		Visualase Laser Ablation System (Medtronic) and Visualase® Thermal	
Manufacturer		Therapy System (Bio Tex, Inc., Houston, TX)	
Informatio	•		
applicable)		
Code(s)	0655T	Transperineal focal laser ablation of malignant prostate tissue, including transrectal imaging guidance, with MR-fused images or other enhanced ultrasound imaging (<i>Effective 7/1/2021</i>)	
	0738T	Treatment planning for magnetic field induction ablation of malignant prostate tissue, using data from previously performed magnetic resonance imaging (MRI) examination (<i>Effective 1/1/2023</i>)	
	0739T	Ablation of malignant prostate tissue by magnetic field induction, including all intraprocedural, transperineal needle/catheter placement for nanoparticle installation and intraprocedural temperature monitoring, thermal dosimetry, bladder irrigation, and magnetic field nanoparticle activation (<i>Effective 1/1/2023</i>)	
Medicare a Coverage I (when app	Notes	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Date of Mo Evidence R		3/26/2024	
Evidence Summary		Evidence supporting the use of this service is limited to case studies and small phase I or phase II clinical trials with limited follow-up. There have been some small published studies with longer-term results, however, these studies have been limited by small size, single institution and non-standard protocols, limiting the quality and generalizability of the results. No randomized controlled trials (RCTs) regarding focal laser ablation have been published. Studies evaluating the long-term oncologic control associated with focal laser ablation using standardized surveillance protocols are lacking. Therefore, the use of focal laser therapy for localized prostate cancer and magnetic field induction ablation of malignant prostate tissue is considered not medically necessary .	
Sources/Ci	itations	 ECRI, Hayes, Cochrane, and PubMed databases. Review of laser interstitial thermal therapy for localized prostate cancer. ECRI (2019). American Urological Association (AUA). American Society for Radiation Oncology (ASTRO). Society of Urologic Oncology (SUO). National Comprehensive Cancer Network (NCCN). 	

Table 2.28			
Analysis of B	one Streng	gth and Fracture Risk	
Device/Product, and Manufacturer Information (when applicable)			
Code(s)	0743T	Bone strength and fracture risk using finite element analysis of functional data and bone mineral density (BMD), with concurrent vertebral fracture assessment, utilizing data from a computed tomography scan, retrieval and transmission of the scan data, measurement of bone strength and BMD and classification of any vertebral fractures, with overall fracture-risk assessment, interpretation and report (<i>Effective 1/1/2023</i>)	
Medicare and	d	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage No		This code is used when the service is performed as a screening service. This	
(when applic	-	would be non-covered under Medicare statute. ²	
Date of Most		03/26/2024	
Evidence Rev			
Evidence Sun	-	Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, bone strength and fracture risk using finite element analysis of functional data and bone mineral density is considered not medically necessary for the treatment of any indication. In addition, because this code is used when the service is performed as a screening service, it would be non-covered under Medicare statute until such time that it is added to the Medicare list of designated preventive services. ³	
Sources/Cita	tions	 ECRI, Hayes, Cochrane, and PubMed databases ECRI published genetic test assessment about the Avise Lupus Test. (2023). Johannesdottir and associates (2018) reviewed the ability of CT-based methods. Groenen and colleagues (2018). 	
		 Rajapakse and Chang (2018). 	
		 Allaire and co-workers (2019). 	

Quantitative	Quantitative Pupillometry			
Device/Product, and		nPi [®] 200 Pupillometer System and VIP [®] 300		
Manufacturer				
Information (when			
applicable)				
Code(s)	95919	Quantitative pupillometry with physician or other qualified health care professional interpretation and report, unilateral or bilateral (<i>Effective 1/1/2023</i>)		
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.		
Coverage Notes				
(when applicable)				

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Date of Most Recent	3/26/2024
Evidence Review	
Evidence SummaryEvidence is currently insufficient to support the use of quantitativ pupillometry. There is currently a lack of high-quality studies and practice guidelines that address this service. Therefore, quantitati pupillometry (e.g. nPi® 200 Pupillometer System and VIP® 300) is not medically necessary for the treatment of any indication.	
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases. Chen et al (2005). Taylor et al (2003). Bertinotti et al (2002). No relevant clinical guidelines were identified.

Insertion of B	ioprosthe	tic Valve	
Device/Product, and		VenoValve procedure	
Manufacture			
Information (when		
applicable)			
Code(s)	0744T	Insertion of bioprosthetic valve, open, femoral vein, including duplex	
		ultrasound imaging guidance, when performed, including autogenous or	
		nonautogenous patch graft (eg, polyester, ePTFE, bovine pericardium), when	
		performed (<i>Effective 1/1/2023</i>)	
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Not		The device/procedure is still in an experimental phase with active trials to	
(when applica	able)	determine its efficacy in patients with chronic venous insufficiency.	
Date of Most	Recent	3/26/2024	
Evidence Rev	iew		
Evidence Sum	nmary	There is not enough evidence to support the use of VenoValve for treating	
		venous insufficiency or any other indication. Only feasibility studies exist	
		with short term data and small sample sizes. Larger, randomized,	
		comparative studies are needed. Furthermore, no clinical guidelines	
		recommend VenoValve. Therefore, VenoValve is considered not medically	
		necessary for any indication, including treating venous insufficiency.	
Sources/Citat	ions	ECRI, Hayes, Cochrane, and PubMed databases.	
		Ulloa JH, Glickman M. One-Year First-in-Human Success for VenoValve in	
		Treating Patients With Severe Deep Venous Insufficiency. Vascular and	
		Endovascular Surgery. 2022;56(3):277-283.	
		No relevant clinical guidelines were identified.	

Table 2.31

Stem Cell Therapy for Crohn's Fistula		
Device/Product, and		
Manufacturer		
Information (when		
applicable)		

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	-	
Code(s)	0748T	Injections of stem cell product into perianal perifistular soft tissue, including
		fistula preparation (eg, removal of setons, fistula curettage, closure of
	-	internal openings) (Effective 1/1/2023)
Medicare an	-	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage No		
(when applic	cable)	
Date of Mos Evidence Rev		3/26/2024
Evidence Summary		There is not enough evidence to support the use of stem cell therapy for treating Crohn's Disease fistulas. Larger, long term comparative studies are needed to determine safety and efficacy of the treatment. Furthermore, no evidence-based clinical practice guidelines were identified that support stem cell therapy for Crohn's fistulas. Therefore, stem cell therapy for Crohn's fistulas is considered not medically necessary .
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. Cao Y, Su Q, Zhang B, Shen F, Li S. Efficacy of stem cells therapy for Croh''s fistula: a meta-analysis and systematic review. Stem Cell Res Ther. 2021;12(1):32. Wang H, Jiang HY, Zhang YX, Jin HY, Fei BY, Jiang JL. Mesenchymal stem cells transplantation for perianal fistulas: a systematic review and meta- analysis of clinical trials. Stem Cell Res Ther. 2023;14(1):103. National Institute for Health and Care Excellence. Darvadstrocel for treating complex perianal fistulas in Crohn's disease. Published Jan 9, 2019. <u>https://www.nice.org.uk/guidance/ta556/chapter/1- Recommendations</u>. Accessed 3/26/2024. No relevant clinical guidelines were identified.

Anumana Ar	Anumana Artificial Intelligence (AI)-based Electrocardiography				
Device/Product, and Manufacturer Information (when applicable)		Anumana artificial intelligence (AI)-based electrocardiography (ECG) algorithm			
Code(s)	0764T	Assistive algorithmic electrocardiogram risk-based assessment for cardiac dysfunction (eg, low-ejection fraction, pulmonary hypertension, hypertrophic cardiomyopathy); related to concurrently performed electrocardiogram (List separately in addition to code for primary procedure) (<i>Effective 1/1/2023</i>)			
	0765T	Assistive algorithmic electrocardiogram risk-based assessment for cardiac dysfunction (eg, low-ejection fraction, pulmonary hypertension, hypertrophic cardiomyopathy); related to previously performed electrocardiogram (<i>Effective 1/1/2023</i>)			
	0962T	Assistive algorithmic analysis of acoustic and electrocardiogram recording for detection of cardiac dysfunction (eg, reduced ejection fraction, cardiac murmurs, atrial fibrillation), with review and interpretation by a physician or other qualified health care professional			

	0972T	Assistive algorithmic classification of burn healing (ie, healing or nonhealing) by noninvasive multispectral imaging, including system set-up and acquisition, selection, and transmission of images, with automated generation of report
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Note		
(when applica	ble)	
Date of Most I	Recent	3/26/2024
Evidence Revi	ew	
Evidence Sum	mary	Evidence is currently insufficient to support the use of AI-based algorithms for use in detection of cardiac dysfunction. AI-based algorithms are not widely used or accepted in clinical guidelines, evidence is limited to low-level retrospective studies, and the technology in general is new to the medical world. Therefore, artificial intelligence (AI)- based electrocardiography is considered not medically necessary for any indication.
Sources/Citati	ons	 ECRI, Hayes, Cochrane, and PubMed databases. Chen HY, Lin CS, Fang WH, et al. Artificial intelligence-enabled electrocardiography predicts left ventricular dysfunction and future cardiovascular outcomes: a retrospective analysis. J Per Med. 2022 Mar; 12(3):455-480. PMID 35330455.

Therapeutic H	lypotherm	nia for Chemotherapy-Related Hair Loss	
Device/Product, and			
Manufacture	r		
Information (when		
applicable)			
Code(s)	0776T	Therapeutic induction of intra-brain hypothermia, including placement of a mechanical temperature-controlled cooling device to the neck over carotids and head, including monitoring (eg, vital signs and sport concussion assessment tool 5 [SCAT5]), 30 minutes of treatment (<i>Effective 1/1/2023</i>)	
Medicare and Coverage Not (when application	es	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Date of Most Recent		1/20/2025	
Evidence Summary		Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, therapeutic hypothermia is considered not medically necessary for the treatment or prevention of chemotherapy-related hair loss.	
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified. 	

Pressure Sens	ing Epidu	ral Guidance System
Device/Product, and Manufacturer Information (when applicable)		Accuro (RIVANNA®)
Code(s)	0777T	Real-time pressure-sensing epidural guidance system (List separately in addition to code for primary procedure) (<i>Effective 1/1/2023</i>)
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most Recent Evidence Review		1/16/2025
Evidence Summary		Insufficient evidence or clinical practice guidelines to support at this time. Therefore, Pressure Sensing Epidural Guidance System is considered not medically necessary for the treatment of any indication, including but not limited to assistance with epidural placement.
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified.

Surface Mech	Surface Mechanomyography (sMMG)				
Device/Product, and					
Manufacture	er				
Information	(when				
applicable)					
Code(s)	0778T	Surface mechanomyography (sMMG) with concurrent application of inertial measurement unit (IMU) sensors for measurement of multi-joint range of motion, posture, gait, and muscle function (<i>Effective 1/1/2023</i>)			
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.			
Date of Most Recent Evidence Review		1/16/2025			
Evidence Summary		Evidence is currently insufficient to support the use of this service. Surface Mechanomyography (sMMG) is considered not medically necessary for the treatment of any indication, including but not limited to physical therapy/rehabilitation. In addition, it is not medically necessary in addition to standard SEMG.			
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. Talib et al. A systematic review of muscle activity assessment of the biceps brachii muscle using mechanomyography. PMID: 30511949. (2018). Formstone et. al. Quantification of Motor Function Post-Stroke Using Novel Combination of Wearable Inertial and Mechanomyographic Sensors. PMID: 34129501. (2021). 			

•	Islam et al. Mechanomyogram for Muscle Function Assessment: A Review. PMID: 23536834. (2013).
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Gastrointesti	Gastrointestinal Myoelectrical Activity Study				
Device/Product, and Manufacturer Information (when applicable)					
Code(s)	0779T	Gastrointestinal myoelectrical activity study, stomach through colon, with interpretation and report (<i>Effective 1/1/2023</i>)			
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.			
Date of Most Recent Evidence Review		1/16/2025			
Evidence Summary		Evidence is currently insufficient to support the use of this service. Therefore, castrointestinal myoelectrical activity monitoring is considered not medically necessary for the treatment of any indication, including but not limited post operative gastrointestinal surgeries, ulcerative colitis, Crohn's.			
Sources/Citations		 ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified. No relevant clinical guidelines were identified. 			

Table 2.37

Terrested Lung Denomination			
Targeted Lung Denervation			
Device/Product, and Manufacturer Information (when applicable)		dNerva® Lung Denervation or Nuvaira™ Lung Denervation Systems, used in a procedure called Targeted Lung Denervation	
Code(s)	0781T	Bronchoscopy, rigid or flexible, with insertion of esophageal protection device and circumferential radiofrequency destruction of the pulmonary nerves, including fluoroscopic guidance when performed; bilateral mainstem bronchi (<i>Effective 1/1/2023</i>)	
	0782T	Bronchoscopy, rigid or flexible, with insertion of esophageal protection device and circumferential radiofrequency destruction of the pulmonary nerves, including fluoroscopic guidance when performed; unilateral mainstem bronchus (<i>Effective 1/1/2023</i>)	
Medicare and Coverage Notes (when applicable)		The trial (NCT03639051; G180199) is a Medicare-approved Category B IDE study as of 4/2/2020.	
		Coverage may be considered for members enrolled in the Medicare- approved study. If not, no coverage is available for this procedure/service. (To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the <u>CMS</u> website for IDEs.)	

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Date of Most Recent Evidence Review	1/20/2025	
Evidence Review		
Evidence Summary	Evidence is currently insufficient to support the use of this service. Targeted	
	Nerve Denervation (TND) is considered not medically necessary for the	
	treatment of any indication, including but not limited to chronic lung	
	conditions such as Chronic Obstructive Pulmonary Disease (COPD).	
Sources/Citations	• ECRI, Hayes, Cochrane, and PubMed databases. No studies were identified.	
	No relevant clinical guidelines were identified.	

Table 2.38		
Zlzheimer's [Disease Tes	sting
Device/Product, and Manufacturer Information (when		Lumipulse [®] G β-Amyloid Ratio (1-42/1-40) Test (Fujirebio Diagnostics, Inc.; Pennsylvania)
applicable)	(Elecsys [®] PhosphoTau (181P) CSF (pTau181) and βAmyloid (1-42) CSF II (Abeta 42) Ratio (Roche Diagnostics Operations, Inc.; Indiana)
		Elecsys® Total Tau CSF (tTau) and βAmyloid (1-42) CSF II (Abeta 42) Ratio (Roche Diagnostics Operations, Inc.; Indiana)
		ALZpath pTau217 (Neurocode USA, Inc., Quanterix/ALZpath)
		PrecivityAD2™ (C2N Diagnostics, LLC, C2N Diagnostics, LLC)
		Glial Fibrillary Acidic Protein Blood Test (Neurocode USA, Inc. & Fujirebio Diagnostics, Inc.)
		LucentAD p-Tau 217 and LucentAD [™] Complete (Quanterix Corporation)
Code(s)	0358U	Neurology (mild cognitive impairment), analysis of β -amyloid 1-42 and 1-40, chemiluminescence enzyme immunoassay, cerebral spinal fluid, reported as positive, likely positive, or negative (<i>Effective 1/1/2023</i>)
	0445U	β-amyloid (Abeta42) and 70hosphor tau (181P) (pTau181), electrochemiluminescent immunoassay (ECLIA), cerebral spinal fluid, ratio reported as positive or negative for amyloid pathology (<i>Effective 4/1/2024</i>)
	0459U	β-amyloid (Abeta42) and total tau (tTau), electrochemiluminescent immunoassay (ECLIA), cerebral spinal fluid, ratio reported as positive or negative for amyloid pathology
	0479U	Tau, phosphorylated, pTau217
	0503U	Neurology (Alzheimer disease), beta amyloid (Aβ40, Aβ42, Aβ42/40 ratio) and tau-protein (ptau217, np-tau217, ptau217/nptau217 ratio), blood, immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS), algorithm score reported as likelihood of positive or negative for amyloid plaques
	0548U	Glial fibrillary acidic protein (GFAP), chemiluminescent enzyme immunoassay, using plasma (<i>Effective 4/1/2025</i>)
	0551U	Tau, phosphorylated, pTau217, by single-molecule array (ultrasensitive digital protein detection), using plasma (<i>Effective 4/1/2025</i>)

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05	568U	Neurology (dementia), beta amyloid (A β 40, A β 42, A β 42/40 ratio), tau-
		protein phosphorylated at residue (eg, pTau217), neurofilament light chain (NfL), and glial fibrillary acidic protein (GFAP), by ultra-high sensitivity
		molecule array detection, plasma, algorithm reported as positive,
		intermediate, or negative for Alzheimer pathology (Effective 7/1/2025)
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Notes		
(when applicable)		Currently the diagnosis of Alzheimer's disease (AD) is a clinical diagnosis, focusing on the exclusion of other causes of dementia. In 1984 the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) and the Alzheimer's and Related Disorders Association (ADRDA) published clinical criteria for the diagnosis of AD. These organizations defined three categories: possible, probable, and definite AD. The only difference between probable and definite AD is that the definite category requires a brain biopsy
		confirming the presence of characteristic neurofibrillary tangles. As of the date of the most recent policy review, the ALZpath pTau217 test is not available in the U.S.
Date of Most Recent		4/1/2025
Evidence Review		
Evidence Summa	ıry	Evidence is currently insufficient to support the use of this service. There is currently a lack of high-quality studies that demonstrate that testing for Alzheimer disease (AD)-related biomarkers improves health outcomes for people who have AD, dementia, or mild cognitive impairment (MCI).
		Moreover, no clinical guidelines based on research recommend the use of
		AD biomarker. Therefore, beta amyloid testing (e.g. Lumipulse, Elecsys Beta Amyloid, ALZpath pTau217, PrecivityAD2 [™]) is considered not medically necessary for the diagnosis of Alzheimer's disease and other forms of cognitive impairment (e.g. dementia).
Sources/Citation	S	ECRI, Hayes, Cochrane, and PubMed databases.
		 ECRI. Genetic Test Assessment cerebrospinal fluid-based assays for aiding diagnosis of Alzheimer's disease. 2022. International Working Group.
		 Alzheimer's Association.
		 Alzheimer's Association. National Institute on Aging/Alzheimer's Association Diagnostic Guidelines for Alzheimer's Disease.

Neurofilame	Neurofilament Light Chain (NfL)			
Device/Product, and		Neurofilament Light Chain (NfL) (Mayo Clinic) and Neurofilament Light Chain		
Manufacturer		(NfL) (Neuromuscular Clinical Laboratory at Washington University in St.		
Information (when		Louis School of Medicine; Missouri)		
applicable)				
		Neurofilament Light Blood Test (Neurocode USA, Inc. & Fujirebio		
		Diagnostics, Inc.)		
Code(s)	0361U	Neurofilament light chain, digital immunoassay, plasma, quantitative		
		(Effective 1/1/2023)		

	0443U	Neurofilament light chain (NfL), ultra-sensitive immunoassay, serum or cerebrospinal fluid (<i>Effective 4/1/2024</i>)
	0547U	Neurofilament light chain (NfL), chemiluminescent enzyme immunoassay, plasma, quantitative (<i>Effective 4/1/2025</i>)
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most Recent Evidence Review		4/1/2025
Evidence Sum	mary	There is insufficient evidence in the published literature to support the efficacy and clinical utility of blood-based biomarker tests to either expedite the diagnosis of MS or measure the risk for rapid progression of disability in individuals with RRMS, CIS, or any other condition. Therefore, Neurofilament Light Chain (NfL) testing is considered not medically necessary for the testing of any condition, including but not limited to Alzheimer's Disease, other forms of dementia, and multiple sclerosis.
Sources/Citati	ons	Seiberl and colleagues (2023)
		Williams and colleagues (2022)

IpsiHand™ Upper Extremity Rehabilitation System			
Device/Product, and		IpsiHand [™] Upper Extremity Rehabilitation System (Neurolutions)	
Manufacture	r		
Information	when		
applicable)			
Code(s)	E0738	Upper extremity rehabilitation system providing active assistance to	
		facilitate muscle re-education, include microprocessor, all components and	
		accessories (Effective 4/1/2024)	
Medicare and	d	Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Not	tes		
(when applic	able)		
Date of Most Recent		3/26/2024	
Evidence Review			
Evidence Summary		There is not enough evidence to support the use of the IpsiHand System for	
		treating chronic stroke patients. The technology is new and has only had	
		preliminary research publications. Larger randomized trials are needed to	
		determine efficacy. Furthermore, no clinical guidelines address the new	
		technology. Therefore, IpsiHand is considered not medically necessary for	
		treating patients with stroke. Therefore, the IpsiHand System is considered	
		not medically necessary for treating stroke patients.	
Sources/Citat	tions	• Rustamov N, Souders L, Sheehan L, Carter A, Leuthardt EC. IpsiHand	
		Brain-Computer Interface Therapy Induces Broad Upper Extremity Motor	
		Recovery in Chronic Stroke. medRxiv. 2023:2023.2008.2026.23294320.	
		No clinical practice guidelines identified.	
		· · · · · · · · · · · · · · · · · · ·	

Table 2.41	
Motus Hand and Foot	

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Device/Product, and Manufacturer Information (when applicable)		Motus Hand and Motus Foot
Code(s)	E0739	Rehabilitation system with interactive interface providing active assistance in rehabilitation therapy, includes all components and accessories, motors, microprocessors, sensors (<i>Effective 4/1/2024</i>)
Medicare and Coverage Not (when applica	es	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most Evidence Revi		3/27/2024
Evidence Summary		There is not enough evidence to support the use of Motus Hand or Motus Foot for the rehabilitation of stroke patients. No studies were identifying comparing this robotic therapy to standard care and no studies were identified measuring patient-centered outcomes. Furthermore, no clinical guidelines were identified that mention these devices or support robotic rehabilitation over standard of care. Therefore, Motus Hand and Motus Foot are considered not medically necessary as a rehabilitation tool for any indication.
Sources/Citat	ions	 Kabir R, Sunny MSH, Ahmed HU, Rahman MH. Hand Rehabilitation Devices: A Comprehensive Systematic Review. Micromachines. 2022;13(7):1033. Greenfied R, Jeter, Russell, Housley, Stephen N., Igot, Belykh. Robotics- Assisted Stroke Rehabilitation with Machine Learning-Based Residual Severity Classification Georgia State University. <u>https://math.gsu.edu/ibelykh/neuroengineering_and_rehabilitation_sub</u> <u>mitted.pdf. Published 2022. Accessed 3/27/2024</u>. No clinical practice guidelines identified.

		l Valve Repair (TTVR) and Transcatheter Edge-to-Edge Repair for Tricuspid
Valve Regurgitation (T-TEER)		
Device/Product, and		TriClip™ Transcatheter Tricuspid Valve Repair System (Abbott)
Manufacturer		
Information (w	/hen	
applicable)		
Code(s)	0569T	Transcatheter tricuspid valve repair, percutaneous approach; initial
		prosthesis
	0570T	Transcatheter tricuspid valve repair, percutaneous approach; each additional
		prosthesis during same session (List separately in addition to code for
		primary procedure)
Medicare and		NOTE: Tricuspid valve <i>repair</i> procedures and devices are different from
Coverage Note	S	tricuspid valve replacement systems. Tricuspid valve replacement systems
(when applicat	ole)	are addressed below.
		As of July 2, 2025, Medicare has published a Final Decision Memo to detail
		coverage criteria for tricuspid transcatheter edge-to-edge repair (T-TEER) for

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symptomatic tricuspid regurgitation (TR). An NCD will be formally developed in the future, and the effective date will be retroactive back to the date of this decision memo; however, for now, the decision memo can be used for coverage decision-making. See <u>CAG-00468N</u> for Medicare coverage criteria.
Prior to July 2, 2025 , medical necessity coverage decision-making for T-TEER will be based on the following information.
<u>NOTE</u> : The CMS Decision Memo for TTVR states, "The NCD applies only to transcatheter tricuspid valve <u>replacement</u> for symptomatic TR. It does not address transcatheter tricuspid valve <u>repair</u> devices, nor devices deployed outside the tricuspid annulus." (bold added for <i>emphasis</i>) Therefore, this decision memo and future subsequent NCD will not apply to these tricuspid valve repair procedures.
<u>Prior to April 1, 2024</u> , the TriClip [™] device did not have FDA approval, and therefore, was not covered and not medically reasonable or necessary because it lacked the scientific evidence regarding safety and efficacy and would be considered investigational or experimental. Exceptions were made only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare- approved study on the <u>CMS website for IDEs</u> .)
As of April 1, 2024, the TriClip [™] Transcatheter Tricuspid Valve Repair System received FDA-approval of the premarket approval application (PMA) and the TRILUMINATE pivotal trial is no longer recruiting; however, FDA approval does not demonstrate medical necessity as defined by Medicare, nor does it automatically indicate Medicare coverage. An evidence review was performed and detailed below.
In addition, there is a potential conflict of interest noted with voting members of the FDA Committee. "The government database, called "Open Payments," records financial relationships between doctors and certain other health care providers and the makers of drugs and medical devices. KFF Health News found records of Abbott payments associated with 10 of the 14 voting members of the FDA advisory panel, which was weighing clinical evidence for a heart device called TriClip G4 System. The money, paid from 2016 through 2022 — the most recent year for which the database shows payments — adds up to about \$650,000."
However, exceptions may still be made if used in the context of a Medicare-approved investigational device exemption (IDE) study. (To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the <u>CMS website for IDEs</u> .)

	1
	According to the <i>Medicare Benefit Policy Manual, Chapter 16, §–80 –</i> Services Related to and Required as a Result of Services Which Are Not Covered Under Medicare, removal without replacement (0580T) may be considered medically reasonable and necessary for unrelated reasons (e.g., pain, infection, etc.).
Date of Most Recent Evidence Review	4/9/2024
Evidence Summary	There remains insufficient evidence to support the use of transcatheter tricuspid valve repair (TTVR), sometimes referred to as percutaneous tricuspid valve repair, for the treatment of tricuspid regurgitation. While less invasive than open surgery, there remains too little data to conclude that TTVR improves functional status and quality of life when compared to current standards of care. Additionally, what evidence exists contains very small sample populations, are at a high risk of bias, contain a lack of control groups, and do not contain sufficient long-term data (most being at or <12 months, at most 2 years). Therefore, transcatheter tricuspid valve repair (TTVR) for the treatment of tricuspid regurgitation (i.e., TriClip) is considered not medically necessary .
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases. Bardeleben et al. Two-Year Outcomes for Tricuspid Repair With a Transcatheter Edge-to-Edge Valve Repair From the Transatlantic TRILUMINATE Trial. Published: August 2023. PMID: 37582170. ECRI Clinical Evidence Assessment. 2022. No clinical practice guidelines identified. Potential conflict of interest noted with voting members of the FDA Committee. <u>https://www.govexec.com/oversight/2024/04/10-doctors-fda-panel- reviewing-abbott-heart-device-financial-ties-company/395547/</u>. 2024.

Extravascu	ılar (Subst	ernal) ICD Therapy
Device/Pro and Manu Informatio	facturer	Aurora EV-ICD [™] System (Extravascular Implantable Cardioverter Defibrillator) (Medtronic)
Information (when applicable)		The Medtronic EV ICD system is intended to provide the benefits of traditional, transvenous (TV) ICDs, including lifesaving defibrillation therapy, anti-tachycardia pacing to terminate arrhythmias, post-shock pacing to protect from sudden cardiac death, and temporary, back-up, bradycardia pacing to address abnormally slow heart rates. It is the same size (33 cc) and shape, and is expected to have similar longevity as traditional ICDs, but without any leads in the veins or heart. The EV ICD device is implanted in the left mid-axillary region below the left armpit, and the lead is placed under the sternum (breastbone), hence "substernal."
Code(s)	0571T	Insertion or replacement of implantable cardioverter-defibrillator system with substernal electrode(s), including all imaging guidance and electrophysiological evaluation (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters), when performed

		Incertion of substarnal implantable defibrillator electrode
1	0572T	Insertion of substernal implantable defibrillator electrode
	0573T	Removal of substernal implantable defibrillator electrode
	0574T	Repositioning of previously implanted substernal implantable defibrillator- pacing electrode
	0575T	Programming device evaluation (in person) of implantable cardioverter- defibrillator system with substernal electrode, with iterative adjustment of the
		implantable device to test the function of the device and select optimal
		permanent programmed values with analysis, review and report by a physician or other qualified health care professional
	0576T	Interrogation device evaluation (in person) of implantable cardioverter-
		defibrillator system with substernal electrode, with analysis, review and report
		by a physician or other qualified health care professional, includes connection,
		recording and disconnection per patient encounter
	0577T	Electrophysiological evaluation of implantable cardioverter-defibrillator system
		with substernal electrode (includes defibrillation threshold evaluation,
		induction of arrhythmia, evaluation of sensing for arrhythmia termination, and
		programming or reprogramming of sensing or therapeutic parameters)
	0578T	Interrogation device evaluation(s) (remote), up to 90 days, substernal lead
		implantable cardioverter-defibrillator system with interim analysis, review(s)
		and report(s) by a physician or other qualified health care professional
	0579T	Interrogation device evaluation(s) (remote), up to 90 days, substernal lead
		implantable cardioverter-defibrillator system, remote data acquisition(s),
		receipt of transmissions and technician review, technical support and
	0014T	distribution of results
	0614T	Removal and replacement of substernal implantable defibrillator pulse generator
Medicare		Prior to October 20, 2023, the Aurora EV-ICD device did not have FDA approval,
Coverage		and therefore, was not covered and not medically reasonable or necessary
(when app	olicable)	because it lacked the scientific evidence regarding safety and efficacy and
		I would be considered investigational or experimental. Exceptions were made
1		would be considered investigational or experimental. Exceptions were made
		only when used in the context of a Medicare-approved investigational device
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i>
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-</i>
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i>
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .)
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary prevention of sudden cardiac death due to life-threatening ventricular
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare-</i> <i>approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary prevention of sudden cardiac death due to life-threatening ventricular tachyarrhythmias include:
		only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (<i>To confirm participation in a Medicare-approved IDE</i> <i>study, the NCT number must be provided and be verified as a Medicare- approved study on the</i> <u>CMS website for IDEs</u> .) <u>As of October 20, 2023</u> , the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary prevention of sudden cardiac death due to life-threatening ventricular tachyarrhythmias include: Previous ventricular tachyarrhythmias
		 only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the CMS website for IDEs.) <u>As of October 20, 2023</u>, the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary prevention of sudden cardiac death due to life-threatening ventricular tachyarrhythmias include: Previous ventricular tachyarrhythmias Coronary disease with left ventricular dysfunction
		 only when used in the context of a Medicare-approved investigational device exemption (IDE) study. (To confirm participation in a Medicare-approved IDE study, the NCT number must be provided and be verified as a Medicare-approved study on the CMS website for IDEs.) <u>As of October 20, 2023</u>, the Aurora EV-ICD received FDA-approval of the premarket approval application (PMA) and is "indicated for the automated treatment of patients who have experienced, or are at significant risk of developing, life-threatening ventricular tachyarrhythmias through the delivery of antitachycardia pacing, cardioversion, and defibrillation therapies. Medical conditions that may indicate a patient for an EV-ICD for primary or secondary prevention of sudden cardiac death due to life-threatening ventricular tachyarrhythmias include: Previous ventricular tachyarrhythmias Coronary disease with left ventricular dysfunction Cardiomyopathy

	 FDA approval alone does not demonstrate medical necessity as defined by Medicare, nor does it automatically indicate Medicare coverage. CMS issued an NCD in 1986 providing limited coverage of implantable defibrillators. The policy has expanded over the years with revisions in 1991, 1999, 2003, 2004, and 2005. As a recently approved system, the evidence of long-term safety and efficacy of the Aurora EV-ICD[™] System, including how it compares to more traditional, transvenous ICDs, would not be included in the most recent national coverage analysis (NCA) regarding implantable cardioverter defibrillators (ICDs). Finally, claims for the Aurora EV-ICD would not be paid under NCD claim processing guidelines, which means non-coverage of this system is not more restrictive than Original Medicare. The Medicare <u>Change Request 13390</u>
	provides ICD-10 coding information related to NCDs, including the ICD NCD. Specifically, this NCD is configured to apply to CPT codes 33223, 33230, 33231, 33240, 33241, 33243, 33244, 33249, 33262, 33263, 33264, 33270, 33271, 33272, 33273, G0448 (Group 1) and 33202, 33203, 33215, 33216, 33217, 33218, 33220, 33224, 33225, C7537, C7538, C7539, C7540 (Group 2). Category III codes represent new and emerging medical technologies, and Medicare is <u>not</u> set up to pay for this technology by way of these codes under this NCD. An evidence review was performed and is detailed below. However, exceptions may still be made if used in the context of a Medicare- approved investigational device exemption (IDE) study. (<i>To confirm</i> <i>participation in a Medicare-approved IDE study, the NCT number must be</i> <i>provided and be verified as a Medicare-approved study on the</i> <u>CMS website for</u> IDEs.)
Date of Most Recent Evidence Review	4/24/2024
Evidence Summary	Evidence is insufficient to support the use of the EV ICD system as part of the treatment of any condition. Studies have not compared Aurora with other ICDs and outcomes are not reported at more than three-year follow-up. As Aurora's expected lifetime is 11 years, longer follow-up durations and AEs relevant to the impetus for developing an EV-ICD are needed to warrant conclusions. Therefore, the Extravascular Implantable Cardioverter Defibrillator (EV ICD) system is considered not medically necessary for the treatment of any indication.
Sources/Citations	 ECRI, Hayes, Cochrane, and PubMed databases. Bardeleben et al. Two-Year Outcomes for Tricuspid Repair With a Transcatheter Edge-to-Edge Valve Repair From the Transatlantic TRILUMINATE Trial. Published: August 2023. PMID: 37582170. ECRI Clinical Evidence Assessment. 2022. No clinical practice guidelines identified.

AI Based Arrhy	rthmia M	apping System
Device/Product, and Manufacturer Information (when applicable)		vMap (Vektor Medical)
Code(s)	0897T	Noninvasive augmentative arrhythmia analysis derived from quantitative computational cardiac arrhythmia simulations, based on selected intervals of interest from 12-lead electrocardiogram and uploaded clinical parameters, including uploading clinical parameters with interpretation and report <i>(Effective 7/1/2024)</i>
Medicare and Coverage Note (when applicat		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most R Evidence Revie		6/21/2024
Evidence Summary		Evidence is currently insufficient to support the use of AI-based arrhythmia mapping systems (e.g. vMap). There is currently a lack of high-quality studies and clinical practice guidelines that address this service. Many of the studies evaluating AI-based Arrhythmia Mapping Systems are small-scale or retrospective in nature, limiting the generalizability of their findings. Larger, well-designed clinical trials with long-term follow-up data are needed to validate the effectiveness and safety of these systems across different patient populations. Standardization of data collection and validation methods is essential to ensure the reliability and accuracy of these systems in clinical practice. Therefore, the use of AI-based arrhythmia mapping systems, such as vMap, is considered not medically necessary for the treatment of any indication, including but not limited to, arrhythmias.
Sources/Citatio	ons	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. Below is a list of literature identified for available evidence. Krummen et al. Forward-Solution Noninvasive Computational Arrhythmia Mapping: The VMAP Study. Published: Sept. 2022. PMID: 36069189. No clinical practice guidelines identified.

Table 2.45

Al Based Cancer Mapping System				
Device/Product, and		Unfold AI (Avenda Health)		
Manufacturer				
Information (when				
applicable)				
Code(s)	0898T	Noninvasive prostate cancer estimation map, derived from augmentative analysis of image-guided fusion biopsy and pathology, including visualization of margin volume and location, with margin determination and physician interpretation and report (<i>Effective 7/1/2024</i>)		

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Medicare and Coverage Notes	Not medically necessary under Section 1862(a)(1) of the Social Security Act.
(when applicable) Date of Most Recent Evidence Review	6/21/2024
Evidence Summary	Evidence is currently insufficient to support the use of AI-based prostate cancer mapping (e.g. Unfold AI (Avenda Health)). There is currently a lack of peer-reviewed studies and clinical practice guidelines that address this service. Large, well-designed clinical trials with long-term follow-up data are needed to validate the effectiveness and safety of these systems across different patient populations. Standardization of data collection and validation methods is also essential to ensure the reliability and accuracy of these systems in clinical practice. Therefore, the use of AI-based cancer mapping systems, such as Unfold AI, is considered not medically necessary for the treatment of any indication, including but not limited to, prediction of extraprostatic disease extensions.
Sources/Citations	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. No published studies were identified. No clinical practice guidelines were identified.

M-inSight Assay		
Device/Product	t, and	M-inSight [®] Patient Definition Assay and M-inSight [®] Patient Follow-Up
Manufacturer		Assessment (Corgenix Clinical Laboratory)
Information (when		
applicable)		
Code(s)	0450U	Oncology (multiple myeloma), liquid chromatography with tandem mass
		spectrometry (LCMS/MS), monoclonal paraprotein sequencing analysis,
		serum, results reported as baseline presence or absence of detectable
		clonotypic peptides (<i>Effective 7/1/2024</i>)
	0451U	Oncology (multiple myeloma), LCMS/MS, peptide ion quantification, serum,
		results compared with baseline to determine monoclonal paraprotein
		abundance (Effective 7/1/2024)
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Notes	5	This test is not FDA approved, and currently bone marrow minimal residual
(when applicab	le)	testing is considered to be standard of care. According to the test
	-	manufacturer website, this test is not covered by Medicare or Medicaid, or
		by any private health insurance.
Date of Most R	ecent	6/26/2024
Evidence Review	w	
Evidence Summary		There is not enough evidence to support the use of blood-based mass spectrometry MRD assay, M-InSight, to monitor patients with multiple myeloma. The current available published literature presents small sample sizes and focuses on test sensitivity and specificity, without long term results investigating clinical utility. Furthermore, no clinical guidelines were identified that recommend M-Insight, and blood-based mass spectrometry

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	MRD testing is not yet FDA approved. Therefore, M-InSight is considered not medically necessary for multiple myeloma monitoring.
Sources/Citations	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. Corgenix. MinSight. Ultra sensitive personalized MRD testing on blood. 2024. https://www.minsight-mrd.com/discover-m-insight/. Accessed 6/26/2024. Di Stefano L, Mouktadi Z, Vimard V, et al. Blood-Based Mass Spectrometry MRD Tracking (M-InSight) in Multiple Myeloma Patients from Clinical Trial NCT02513186. Blood. 2023;142(Supplement 1):3360-3360. https://doi.org/10.1182/blood-2023-179382 International Myeloma Foundation. MRD and Mass Spectrometry Testing. 2024. https://www.myeloma.org/mrd-mass-spectrometry-testing. Accessed 6/26/2024. No clinical practice guidelines were identified that recommend bloodbased mass spectrometry MRD tracking.

Table	2.47
Table	2.7/

Table 2.47		
Breast Health F	Risk Asse	ssment using Tears
Device/Produc	t, and	Auria [®] (Namida Lab, Inc.; Arkansas)
Manufacturer		
Information (w	/hen	
applicable)		
Code(s)	0458U	Oncology (breast cancer), S100A8 and S100A9, by enzyme-linked
		immunosorbent assay (ELISA), tear fluid with age, algorithm reported as a
		risk score (Effective 7/1/2024)
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Note	S	While CPT code 0458U is found in several MoIDX LCAs for proteomic testing,
(when applicat	ole)	these LCAs are not Novitas LCAs. The state of Arkansas is under Novitas
		jurisdiction (jurisdiction H or J-H), and Novitas does not generally use MoIDX
		coverage or non-coverage guidelines. Therefore, these LCAs and any
		associated LCDs are not applicable.
Date of Most Recent		6/26/2024
Evidence Revie	w	
Evidence Summ	nary	Auria uses biomarkers in tears to catch any breast abnormalities. There
		remains insufficient evidence and clinical practice guidelines to support the use of biomarker tests using tears as a prediction/risk assessment of
		patients for breast cancer (including those of suspected breast cancer
		and/or those with family history of breast cancer). Therefore, biomarker
		testing from tears for breast cancer risk assessments (including Auria) is
		considered not medically necessary for the treatment of any indication,
		including but not limited to patients with suspected breast cancer and/or
		familial breast cancer history.
Sources/Citatio	ons	A review of the ECRI, Hayes, Cochrane, and PubMed databases was
		conducted regarding the use of this service.
		• Daily, A. et al. Using tears as a non-invasive source for early detection of
		breast cancer. 2022. PMID: 35471994.

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•	No clinical practice guidelines were identified that recommend
	biomarker testing using tears for breast abnormalities.

Table 2.48		
Gait Modulati	on Syster	n
Device/Product, and Manufacturer Information (when applicable)		InTandem (MedRhythms Inc.)
Code(s)	E3200	Gait modulation system, rhythmic auditory stimulation, including restricted therapy software, all components and accessories, prescription only
Medicare and Coverage Noto (when applica		Not medically necessary under Section 1862(a)(1) of the Social Security Act. The development of a HCPCS code by CMS, in addition to a determination that an item meets the Medicare requirements to be considered "DME," do not establish the item to be both medically reasonable and necessary under
		Medicare. In the absence of fully established medical necessity coverage criteria by Medicare, an evidence-based evaluation of the product and how it improves health outcomes will be performed.
Date of Most Evidence Revi		9/23/2024
Evidence Sum	mary	There is insufficient evidence to support the safety and efficacy of a gait modulating system. There is also insufficient evidence to support significant clinical improvement with device. There is minimal evidence evaluating this technology, and no clinical practice guideline support. Additional evidence with comparative to standard practice, larger sample sizes, studies without high risk of bias, and larger volume of evidence. Therefore, gait modulation systems are considered not medically necessary for the treatment of any indication, including but not limited to gait impairment.
Sources/Citati	ons	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. Smayda, et. al. Validating the Safe and Effective Use of a Neurorehabilitation System (InTandem) to Improve Walking in the Chronic Stroke Population: Usability Study. 2023. PMID: 37983080. No clinical practice guidelines were identified to support the use of a gait modulating system.

Table 2.49

Therapeutic D	rug Moni	toring Using Non-Urine Specimens
Device/Produce Manufacturer Information (v applicable)		PrecisView [®] CNS, SyncView [®] Pain, SyncView [®] PainPlus, <i>and</i> SyncView [®] Rx (all by Phenomics Health [™] Inc.; Michigan)
Code(s)	0517U	Therapeutic drug monitoring, 80 or more psychoactive drugs or substances, LC-MS/MS, plasma, qualitative and quantitative therapeutic minimally and maximally effective dose of prescribed and non-prescribed medications

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<i>b</i>		
	0518U	Therapeutic drug monitoring, 90 or more pain and mental health drugs or substances, LC-MS/MS, plasma, qualitative and quantitative therapeutic minimally effective range of prescribed and non-prescribed medications
	0519U	Therapeutic drug monitoring, medications specific to pain, depression, and anxiety, LCMS/MS, plasma, 110 or more drugs or substances, qualitative and quantitative therapeutic minimally effective range of prescribed, non-prescribed, and illicit medications in circulation
	0520U	Therapeutic drug monitoring, 200 or more drugs or substances, LCMS/MS, plasma, qualitative and quantitative therapeutic minimally effective range of prescribed and non-prescribed medications
Medicare and Coverage Note		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
(when applica	ble)	There is no Medicare coverage manual or NCD for therapeutic drug monitoring, and available LCDs are specific to <i>urine</i> drug testing. Therefore, in the absence of fully established Medicare coverage criteria, an evidence- based evaluation of the product and how it improves health outcomes will be performed.
Date of Most I Evidence Revie		9/24/2024
Evidence Sum	mary	Definitive testing is only recommended by clinical guidelines as a confirmatory test when presumptive testing does not offer a full picture of substances. Guidelines recommend testing for <i>specific</i> substances. Therefore broad spectrum testing, or testing for more than 7 drug classes per test, is considered not medically necessary .
Sources/Citati	ons	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. Health Evidence Review Commission. Health Evidence Review Commission (HERC) Coverage Guidance: Urine Drug Testing. Approved 8/9/2018. https://www.oregon.gov/oha/HPA/DSI-HERC/EvidenceBasedReports/CG%20Urine%20Drug%20Testing.pdf. Accessed 11/3/2022. Jarvis M, Williams J, Hurford M, et al. Appropriate Use of Drug Testing in Clinical Addiction Medicine. Journal of addiction medicine. 2017;11(3):163-17

Sexually Trans	mitted In	fection (STI) Pathogen Identification and Antibiotic Susceptibility Testing
Device/Produc	ct, and	Ciprofloxacin Susceptibility of Neisseria gonorrhoeae and Macrolide
Manufacturer		Resistance of Mycoplasma genitalium (both by MedArbor Diagnostics &
Information (v	vhen	SpeeDx, Inc.; Pennsylvania)
applicable)		
Code(s)	0483U	Infectious disease (Neisseria gonorrhoeae), sensitivity, ciprofloxacin
		resistance (gyrA S91F point mutation), oral, rectal, or vaginal swab,
		algorithm reported as probability of fluoroquinolone resistance
	0484U	Infectious disease (Mycoplasma genitalium), macrolide sensitivity (23S rRNA
		point mutation), oral, rectal, or vaginal swab, algorithm reported as
		probability of macrolide resistance

Medicare and Coverage Notes (when applicable) Date of Most Recent Evidence Review	Not medically necessary under Section 1862(a)(1) of the Social Security Act. 9/23/2024
Evidence Summary	Evidence is currently insufficient to support the use of sexually transmitted infection (STI) pathogen identification and antibiotic susceptibility testing with PCR technology, for any indication, including gonorrhea or mycoplasma genitalium (Mgen). There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, sexually transmitted infection (STI) pathogen identification and antibiotic susceptibility testing with PCR technology is considered not medically necessary for the treatment of any indication, including gonorrhea or mycoplasma genitalium.
Sources/Citations	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. No published studies were identified. No clinical practice guidelines were identified.

Table 2.51		
Urinary Tract Ir	nfection 1	Testing
Device/Produc	t, and	Urinary Tract Infection Testing (NxGen MDx LLC.; Michigan)
Manufacturer		
Information (w	hen	
applicable)		
Code(s)	0504U	Infectious disease (urinary tract infection), identification of 17 pathologic
		organisms, urine, realtime PCR, reported as positive or negative for each
		organism
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Note		
(when applicab	ole)	This test is not current standard of care, and do not meet Medicare's
		medically "reasonable" and necessary requirements. Non-coverage does not
		limit access to care for patients as clinically acceptable alternative test
		options are available.
Date of Most R		9/24/2024
Evidence Revie	w	
Evidence Sumn	nary	Standard diagnosis for symptomatic urinary tract infections (UTIs) is
		urinalysis or urine culture, depending on whether symptoms resolve or the
		frequency or recurrence. Currently, polymerase chain reaction (PCR) is not
		an accepted standard diagnostic tool for UTIs and there is not enough
		evidence to show efficacy over standard testing. Therefore, this Urinary
		Tract Infection Test by NxGen MDx is considered not medically necessary .
Sources/Citatio	ons	• A review of the ECRI, Hayes, Cochrane, and PubMed databases was
		conducted regarding the use of this service.
		• Szlachta-McGinn, Alec, et al. "Molecular diagnostic methods versus
		conventional urine culture for diagnosis and treatment of urinary tract

Open Science 44 (2022): 113-124.
Colgan R, Williams M. Diagnosis and treatment of acute uncomplicated cystitis. Am Fam Physician. 2011 Oct 1;84(7):771-6. PMID: 22010614.

Table 2.52		
Transcatheter	Superior	and Inferior Vena Cava Prosthetic Valve Implantation
Device/Product, and		preCARDIA (preCARDIA Inc.)
Manufacturer		
Information (w	/hen	
applicable)		
Code(s)	0805T	Transcatheter superior and inferior vena cava prosthetic valve implantation
		(ie, caval valve implantation [CAVI]); percutaneous femoral vein approach
	0806T	Transcatheter superior and inferior vena cava prosthetic valve implantation
		(ie, caval valve implantation [CAVI]); open femoral vein approach
Medicare and		Applicable Medicare Coverage Policy, Regulation, or Guideline
	_	Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Note		
(when applicat	ole)	 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u>
		Coverage of Medical Devices
		Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From
		Coverage, §10 - General Exclusions from Coverage
		Medicare-Based Non-Coverage Rationale
		According to the Medicare Benefit Policy Manual, Chapter 14, while FDA
		approval does not automatically guarantee coverage under Medicare, in
		order to be considered for coverage under Medicare, devices must be either
		FDA- or Institutional Review Board (IRB)-approved.
		As of May 2023, the preCARDIA Occulsion System was given 510 premarket
		approval; however, FDA approval does not demonstrate medical necessity as
		defined by Medicare, nor does it automatically indicate Medicare coverage.
		An evidence review was performed and detailed below.
		This device is also the focus of a Medicare-approved Category B IDE study
		(Superior Vena Caval Occlusion in Subjects With Acute Decompensated Heart
		<i>Failure or VENUS-HF</i> ; NCT03836079; G180213), evaluating the preCARDIA
		device. This IDE study is a Medicare-approved Category B IDE study as of
		3/2020.
		While evidence is currently insufficient to support the use of caval or bi-caval
		valve implantation (CAVI) for transcatheter tricuspid valve repair or
		replacement, coverage exceptions may be made if the services are provided
		within the context of the above Medicare-approved IDE study. (If not
		participating in the above IDE, please see the <u>CMS website for IDEs</u> to search
		for other possible Medicare-approved IDE studies related to this system.)

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Date of Most Recent Evidence Review	9/29/2024
Evidence Summary	Evidence is currently insufficient to support the use of caval or bi-caval valve implantation (CAVI) for transcatheter tricuspid valve repair or replacement. There is currently a lack of high-quality studies and clinical practice guidelines that address this service. No evidence-based clinical practice guidelines exist as well. Therefore, CAVI is considered not medically necessary for all indications, including tricuspid regurgitation or insufficiency.
Sources/Citations	 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. Mattig I, Knebel F, Hewing B, Stangl V, Stangl K, Laule M, Dreger H. Impact of inferior caval valve implantation on severity of tricuspid regurgitation and right heart function. Echocardiography. 2020 Jul;37(7):999-1007. doi: 10.1111/echo.14760. Epub 2020 Jun 14. PMID: 32536000. No clinical practice guidelines were identified.

Table 2.53

Infectious Agent Detection for Helicobacter pylori (H. pylori)			
Device/Product, and			
Manufacturer			
Information (w	/hen		
applicable)			
Code(s)	87513	Infectious agent detection by nucleic acid (DNA or RNA); Helicobacter pylori	
		(H. pylori), clarithromycin resistance, amplified probe technique	
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Coverage Note	s		
(when applicat	ole)		
Date of Most R	lecent	11/26/2024	
Evidence Revie	w		
Evidence Sumn	nary	Testing for Helicobacter pylori (H. pylori) and clarithromycin resistance using nucleic acid amplification currently lacks clinical utility due to limited adoption and endorsement by key clinical practice guidelines. Although rapid nucleic acid amplification tests (NAAT) for H. pylori identification and drug resistance markers may prove to be accurate alternatives and show promise for detecting active infections and resistance mutations, they are not widely adopted. No FDA-cleared assays are available, and only a few CE- IVD labeled assays exist. The 2024 American College of Gastroenterology and UpToDate guidelines do not address this technique. Moreover, the paucity of peer-reviewed performance studies further limits its clinical application, indicating the field is still in its infancy. Therefore, testing for Helicobacter pylori (H. pylori) and clarithromycin resistance using nucleic acid amplification is considered not medically necessary .	
Sources/Citatio	ons	• A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service.	

•	Shakir, M, et al. "Updates to the Diagnosis and Clinical Management of Helicobacter pylori Infections." <i>Clin Chem</i> . 2023 Aug 2;69(8):869-880. doi: 10.1093/clinchem/hvad081.: 113-124. PMID: 37473423.
•	American College of Gastroenterology (ACG). ACG Clinical Guideline: Treatment of Helicobacter pylori Infection. <i>The American Journal of</i> <i>Gastroenterology</i> 119(9):p 1730-1753, September 2024. DOI: 10.14309/ajg.000000000002968.
•	Lamont MD, J T, et al. Indications and diagnostic tests for Helicobacter pylori infection in adults. 2023. UpToDate Guidelines.

COMS [®] One Th	COMS [®] One Therapy System for Wound Care		
Device/Product, and Manufacturer Information (when applicable)		COMS [®] One Therapy System	
Code(s)	0906T	Concurrent optical and magnetic stimulation (COMS) therapy, wound assessment and dressing care; first application, total wound(s) surface area less than or equal to 50 sq cm	
	0907T	Concurrent optical and magnetic stimulation (COMS) therapy, wound assessment and dressing care; each additional application, total wound(s) surface area less than or equal to 50 sq cm (List separately in addition to code for primary procedure)	
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.	
Date of Most Recent Evidence Review		11/26/2024	
Evidence Summary		Evidence is insufficient to support the use of the COMS One Therapy System. No relevant studies or clinical practice guidelines addressing the service were identified. Additionally, the COMS One therapy system has not yet received regulatory approval in the U.S. Therefore, use of the COMS One Therapy System is considered not medically necessary for the treatment of any indication.	
Sources/Citations		 A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of this service. No published studies were identified. No clinical practice guidelines were identified. 	

Table 2.55		
Extraarticular Implantable Shock Absorber Knee Implant		
Device/Product, and	MISHA Knee System	
Manufacturer		
Information (when		
applicable)		

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Code(s)	C8003	Implantation of medial knee extraarticular implantable shock absorber spanning the knee joint from distal femur to proximal tibia, open, includes measurements, positioning and adjustments, with imaging guidance (eg, fluoroscopy)
		There is no specific CPT code for the surgical implantation procedure (surgeon claim). Therefore, this should be billed with an unlisted code (e.g., 27599).
Medicare and	ļ	Applicable Medicare Coverage Policy, Regulation, or Guideline
Coverage Note	C	Applicable Medicale Coverage Policy, Regulation, of Outdeline
-		
(when applicat	bie)	 Medicare Benefit Policy Manual, Chapter 14 – Medical Devices, <u>§10 -</u>
		Coverage of Medical Devices
		<u>Medicare Benefit Policy Manual, Chapter 16 - General Exclusions From</u>
		Coverage, §10 - General Exclusions from Coverage
		Medicare-Based Non-Coverage Rationale
		According to the Medicare Benefit Policy Manual, Chapter 14, while FDA
		approval does not automatically guarantee coverage under Medicare, in
		order to be considered for coverage under Medicare, devices must be either
		FDA- or Institutional Review Board (IRB)-approved.
		As of April 2023, the MISHA™ Knee System was granted FDA-approval;
		however, FDA approval does not demonstrate medical necessity as defined
		by Medicare, nor does it automatically indicate Medicare coverage. An
		evidence review was performed and detailed below.
		Evidence is currently insufficient to support the use of the MISHA™ Knee
		System. See below for a summary of available evidence and citations.
Date of Most R	Recent	2/27/2024
Evidence Revie		
Evidence Summ		There is insufficient evidence to support a shock or load absorber such as
	,	the MISHA knee system. Evidence is limited on this device, with conflict of
		interest, small sample sizes, limited comparative treatments, and no clinical
		practice guideline recommendations.
Sources/Citatio	nns	ECRI published a Clinical Evidence Assessment in 2023. The authors
Sources, create	5115	found that there was "too few comparative data" and had limited
		confidence in the evidence when outcomes were evaluated.
		 Diduch et al. Implantable Shock Absorber Provides Superior Pain Relief
		and Functional Improvement Compared With High Tibial Osteotomy in
		Patients with Mild-to-Moderate Medial Knee Osteoarthritis: A 2-Year
		Report. Cartilage. 2023 Jun;14(2):152-163. DOI: 10.1177/19476035231157335. PMID: 36823955.
		 National Institute for Health and Care Excellence (NICE). Implantation of a shock or load absorber for mild to mederate symptometric medial know
		a shock or load absorber for mild to moderate symptomatic medial knee
		osteoarthritis. Published: 23 January 2015.

Transcatheter	Renal Sv	mpathetic Denervation
Device/Produc		Symplicity Renal Denervation (RDN) System by Medtronic
Manufacturer	it, and	Symplicity Kenal Denervation (KDN) System by Meditonic
Information (when applicable)		EnligHTN multielectrode renal denervation system by St. Jude Medical
applicable)		OneShot Renal Denervation System by Covidien
		Vessix Renal Denervation System by Boston Scientific
		CARTO Thermocool Smarttouch Catheter by Biosense Webster
Code(s)	0338T	Transcatheter renal sympathetic denervation, percutaneous approach
		including arterial puncture, selective catheter placement(s) renal artery(ies),
		fluoroscopy, contrast injection(s), intraprocedural roadmapping and
		radiological supervision and interpretation, including pressure gradient
		measurements, flush aortogram and diagnostic renal angiography when
		performed; unilateral
	0339T	; bilateral
	0935T	Cystourethroscopy with renal pelvic sympathetic denervation,
	05551	radiofrequency ablation, retrograde ureteral approach, including insertion of
		guide wire, selective placement of ureteral sheath(s) and multiple
	04705	conformable electrodes, contrast injection(s), and fluoroscopy, bilateral
	C1735	Catheter(s), intravascular for renal denervation, radiofrequency, including all
		single use system components
	C1736	Catheter(s), intravascular for renal denervation, ultrasound, including all
		single use system components
	0338T	Transcatheter renal sympathetic denervation, percutaneous approach
		including arterial puncture, selective catheter placement(s) renal artery(ies),
		fluoroscopy, contrast injection(s), intraprocedural roadmapping and
		radiological supervision and interpretation, including pressure gradient
		measurements, flush aortogram and diagnostic renal angiography when
		performed; unilateral
Medicare and		Prior to November 17, 2023 , there were no FDA-approved renal denervation
Coverage Note	s	technologies, but several were under development.
(when applical		
(,	According to the <i>Medicare Benefit Policy Manual, Chapter 14</i> , while FDA
		approval does not automatically guarantee coverage under Medicare, in
		order to be considered for coverage under Medicare, devices must be either
		FDA- or Institutional Review Board (IRB)-approved.
		Any device that has not received CDA conveyed would not be considered
		Any device that has not received FDA-approval would not be considered
		medically reasonable or necessary because it would lack the scientific
		evidence regarding safety and efficacy and would be considered
		investigational or experimental.
		According to Medicare Benefit Policy Manual, Chapter 16 - General
		Exclusions From Coverage, 10 - General Exclusions from Coverage, services
		which are "investigational" are an exclusion from Medicare coverage.
		Services and items which lack scientific evidence regarding safety and
		efficacy because they are investigational are "not medically reasonable or
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necessary" for Medicare Plan members. (Medicare Claims Processing Manual, Ch. 23, §30 A)

In 2016, the Agency for Healthcare Research and Quality (AHRQ) issued a technical brief with results of a systematic review of the literature to assess the effectiveness of RDN in the Medicare population. This report was conducted by the Johns Hopkins University Evidence-based Practice Center at the request of the Centers for Medicare and Medicaid Services (CMS). This brief concluded that "[l]imited evidence suggests that renal denervation in patients with treatment resistant hypertension lowers systolic blood pressure, but the results were highly variable and the studies reviewed were not designed to determine improvement in clinical endpoints. The most rigorously conducted RCTs showed much smaller blood pressure reduction as compared with observational non-comparative studies. Further research is needed to identify optimal candidates for renal denervation, refine next generation renal denervation technology, develop methods for assessing completeness of renal denervation procedure, and demonstrate efficacy of renal denervation in reducing blood pressure and improving clinical endpoints including the risk of stroke, myocardial infarction, heart failure, and death in patients with hypertension."

As of November 17, 2023, the Symplicity Renal Denervation (RDN) System by Medtronic received FDA-approval of the premarket approval application (PMA) and is "indicated to reduce blood pressure as an adjunctive treatment in patients with hypertension in whom lifestyle modifications and antihypertensive medications do not adequately control blood pressure."

The Paradise Ultrasound Renal Denervation System was also granted PMA by the FDA in November 2023. This system is "indicated to reduce blood pressure as an adjunctive treatment in hypertension patients in whom lifestyle modifications and antihypertensive medications do not adequately control blood pressure."

Several other devices have been developed for renal denervation and are in various stages of application for FDA approval. However, FDA approval alone does not demonstrate medical necessity as defined by Medicare, nor does it automatically indicate Medicare coverage. An evidence review was performed and an evidence summary is detailed below.

Possible Coverage Opportunity

Some of these technologies have been undergoing trials for evaluation and there are associated Medicare-approved investigational device exemption (IDE) studies for some of these devices:

- Symplicity Spyral Renal Denervation System; NCT05116384 (Category A)
- Adjunctive Renal Denervation to Modify Hypertension and Sympathetic Tone as Upstream Therapy in the Treatment of Atrial Fibrillation; NCT01635998 (Category A)

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	indicates some blood pressure reduction, but the clinical significance is unclear due to varying results and limited data. Current clinical practice guidelines suggest that renal denervation could be a supplementary treatment to lifestyle modifications and medications, but emphasize the need for more robust data to determine its long-term benefits and impact on patient outcomes. Therefore, renal denervation (radiofrequency or ultrasound) is considered not medically necessary for the treatment of any indication, including but not limited to refractory hypertension.
Sources/Citations	 ECRI Institute Review. Symplicity Spyral Renal Denervation System (Medtornic plc.) for Treating Refractory Hypertension. Feb. 2024. ECRI Institute Review. Paradise Renal Denervation System (ReCor Medical, Inc.) for Treatment-Resistant Hypertension. January 2024. Renal Denervation for Treating Refractory Hypertension. 2011 (Updated 2016). Pisano A, Iannone LF, Leo A, Russo E, Coppolino G, Bolignano D. Renal denervation for resistant hypertension. <i>Cochrane Database of Systematic Reviews</i> 2021, Issue 11. Art. No.: CD011499. DOI: 10.1002/14651858.CD011499.pub3. Chen, X, Kim, S, et al. Account for Clinical Heterogeneity in Assessment of Catheter-based Renal Denervation among Resistant Hypertension Patients: Subgroup Meta-analysis. Silverwatch, et all. Renal Denervation for Uncontrolled and Resistant Hypertension: Systematic Review and Network Meta-Analysis of Randomized Trials. J Clin Med. 2021 Feb 16;10(4):782. DOI: 10.3390/jcm10040782. PMID: 33669195. American Heart Association (AHA). Resistant Hypertension: Detection, Evaluation, and Management - A Scientific Statement From the American Heart Association. 2018. Hypertension: A Consensus Document From the Hypertension Academic Research Consortium. 2022. Society for Cardiovascular Angiography & Interventions (SCAI). SCAI Position Statement on Renal Denervation for Hypertension: Patient Selection, Best Practices for Optimal Techniques, Competence, Training, and Organizational Recommendations. 2023. National Institute for Health and Care Excellence (NICE). Percutaneous transluminal renal sympathetic denervation for resistant hypertension. 2022
	2023.

Table 2.57		
3D Contour Simulation of Target Liver Lesion(s) and Simulation Angiogram with Pressure- Generating Catheter		
Device/Product, and Manufacturer Information (when applicable)		

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Code(s)	0944T	3D contour simulation of target liver lesion(s) and margin(s) for image-
		guided percutaneous microwave ablation
	C8004	Simulation angiogram with use of a pressure-generating catheter (e.g., one-
		way valve, intermittently occluding), inclusive of all radiological supervision
		and interpretation, intraprocedural roadmapping, and imaging guidance
		necessary to complete the angiogram, for subsequent therapeutic
		radioembolization of tumors
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Note	S	
(when applicat	ole)	
Date of Most Recent		5/15/2025
Evidence Revie	w	
Evidence Summary		No evidence was identified that assessed the clinical utility of 3D contour
		simulation of target liver lesion(s) and margin(s) ablation or simulation
		angiogram with use of pressure-generating catheter. Additional high-quality
		studies are required in order to establish the effectiveness and safety of
		these treatment modalities. Therefore, these services for the treatment of
		liver tumors are considered not medically necessary .
Sources/Citations		• A review of the ECRI, Hayes, Cochrane, and PubMed databases was
		conducted regarding the use of these services.
		No published studies were identified.
		No clinical practice guidelines were identified.

Sub-Scalp Continuous Electroencephalogram (EEG) Monitoring Device		
Device/Product, and Manufacturer Information (when applicable)		Minder®
Code(s)	0956T	Partial craniectomy, channel creation, and tunneling of electrode for sub- scalp implantation of an electrode array, receiver, and telemetry unit for continuous bilateral electroencephalography monitoring system, including imaging guidance
	0957T	Revision of sub-scalp implanted electrode array, receiver, and telemetry unit for electrode, when required, including imaging guidance
	0959T	Removal or replacement of magnet from coil assembly that is connected to continuous bilateral electroencephalography monitoring system, including imaging guidance
	0960T	Replacement of sub-scalp implanted electrode array, receiver, and telemetry unit with tunneling of electrode for continuous bilateral electroencephalography monitoring system, including imaging guidance
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act. Removal of Non-Covered Devices
		According to the Medicare Benefit Policy Manual, Chapter 16, §–80 – Services Related to and Required as a Result of Services Which Are Not Covered Under Medicare, removal without replacement (0958T) may be

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	considered medically reasonable and necessary for unrelated reasons (e.g., pain, infection, etc.).
Date of Most Recent Evidence Review	
Evidence Summary	
Sources/Citations	•

Endoluminal Temporary Colorectal Anastomosis Protection Device		
Device/Product, and Manufacturer Information (when applicable)		Colovac
Code(s)	0967T	Transanal insertion of endoluminal temporary colorectal anastomosis protection device, including vacuum anchoring component and flexible sheath connected to external vacuum source and monitoring system
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Date of Most Recent Evidence Review Evidence Summary		
Sources/Citations		•

Table 2.60

Percutaneous Laser Ablation of Breast Tumors		
Device/Product, and Manufacturer		
Information (when applicable)		
Code(s)	0970T	Ablation, benign breast tumor (eg, fibroadenoma), percutaneous, laser, including imaging guidance when performed, each tumor
	0971T	Ablation, malignant breast tumor(s), percutaneous, laser, including imaging guidance when performed, unilateral
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Notes		
(when applicable)		
Date of Most		
Recent Evidence		
Review		
Evidence Summary		
Sources/Citations		•

Table 2.61

Intravascular Imaging of Extracranial Cerebral Vessels with Optical Coherence Tomography (OCT)	
Device/Product,	
and Manufacturer	

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Information (when applicable)		
Code(s)	0984T	Intravascular imaging of extracranial cerebral vessels using optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention, including all associated radiological supervision, interpretation, and report; initial vessel (List separately in addition to code for primary procedure)
	0985T	Intravascular imaging of extracranial cerebral vessels using optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention, including all associated radiological supervision, interpretation, and report; each additional vessel (List separately in addition to code for primary procedure)
	0986T	Intravascular imaging of intracranial cerebral vessels using optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention, including all associated radiological supervision, interpretation, and report; initial vessel (List separately in addition to code for primary procedure)
	0987T	Intravascular imaging of intracranial cerebral vessels using optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention, including all associated radiological supervision, interpretation, and report; each additional vessel (List separately in addition to code for primary procedure)
Medicare		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Notes (when applicable)		NOTE: The above Category III codes are add-on codes. As such, they are reported with CPT codes 36221, 36222, 36225, 36226, 37215 and 37216. While CPT codes 36221, 36222, 36225, 36226, 37215 and 37216 may be covered, these add-on codes are considered not medically necessary .
Date of Most Recent Evidence Review		
Evidence	Summary	
Sources/	Citations	•

Traumatic Brain Injury (TBI) Point Of Care Testing		
Device/Product, and Manufacturer Information (when applicable)		i-STAT TBI, Abbott Point of Care test kit
Code(s)	0570U	Neurology (traumatic brain injury), analysis of glial fibrillary acidic protein (GFAP) and ubiquitin carboxylterminal hydrolase L1 (UCHL1), immunoassay, whole blood or plasma, individual components reported with the overall result of elevated or non-elevated based on threshold comparison
Medicare and Coverage Notes (when applicable)		Not medically necessary under Section 1862(a)(1) of the Social Security Act.

	The i-STAT TBI cartridge is the first point-of-care test that measures the level of biomarkers associated with brain injury in whole blood to help assess patients with suspected mTBI within 24 hours after injury.
Date of Most	
Recent Evidence	
Review	
Evidence Summary	
Sources/Citations	•

Table 2.XX

Device/Product, and		**Blank table left intentionally - Placeholder for future services/technologies
Manufacturer		added to the Table 2 set of codes**
Information (when		
applicable)		
Code(s)		
Medicare and		Not medically necessary under Section 1862(a)(1) of the Social Security Act.
Coverage Notes		
(when applicable)		
Date of Most Recent		
Evidence Review		
Evidence Summary		
Sources/Citations		•

*Coding Notes:

- The code list above is provided as a courtesy and may not be all-inclusive. Inclusion or omission of a code from this policy neither implies nor guarantees reimbursement or coverage. Some codes may not require routine review for medical necessity, but they are subject to provider contracts, as well as member benefits, eligibility and potential utilization audit. According to Medicare, "presence of a payment amount in the MPFS and the Medicare physician fee schedule database (MPFSDB) does not imply that CMS has determined that the service may be covered by Medicare." The issuance of a CPT or HCPCS code or the provision of a payment or fee amount by Medicare does <u>not</u> make a procedure medically reasonable or necessary or a covered benefit by Medicare. (Medicare Claims Processing Manual, Chapter 23 Fee Schedule Administration and Coding Requirements, §30 Services Paid Under the Medicare Physician's Fee Schedule, A. Physician's Services)
- All unlisted codes are reviewed for medical necessity, correct coding, and pricing at the claim level. If an unlisted code is submitted for non-covered services addressed in this policy then it will be **denied as not covered**. If an unlisted code is submitted for potentially covered services addressed in this policy, to avoid post-service denial, **prior authorization is recommended**.
- See the non-covered and prior authorization lists on the Company <u>Medical Policy, Reimbursement Policy, Pharmacy</u> <u>Policy and Provider Information website</u> for additional information.
- HCPCS/CPT code(s) may be subject to National Correct Coding Initiative (NCCI) procedure-to-procedure (PTP) bundling
 edits and daily maximum edits known as "medically unlikely edits" (MUEs) published by the Centers for Medicare and
 Medicaid Services (CMS). This policy does not take precedence over NCCI edits or MUEs. Please refer to the CMS website
 for coding guidelines and applicable code combinations.

REFERENCES

- Medicare Benefit Policy Manual, Chapter 14 Medical Devices, 10 Coverage of Medical Devices; Updated 11/2014; Available at: <u>https://www.cms.gov/Regulations-and-</u> <u>Guidance/Guidance/Manuals/Downloads/bp102c14.pdf</u>. Accessed 1/20/2025.
- 2. US Government Publishing Office. Electronic code of federal regulations: part 422 42 CFR § 422.101 Requirements relating to basic benefits
- Medicare Preventive Services; Updated December 2024; Available at: <u>https://www.cms.gov/Medicare/Prevention/PrevntionGenInfo/medicare-preventive-</u> services/MPS-QuickReferenceChart-1.html. Accessed 1/20/2025.
- Noridian Jurisdiction D (J-D) Noncovered Items; Last Updated 11/18/2024; Available at: <u>https://med.noridianmedicare.com/web/jddme/topics/noncovered-items</u>. Accessed 1/20/2025.

POLICY REVISION HISTORY

DATE	REVISION SUMMARY
2/2023	Interim update (moved codes for Intracept to another policy)
3/2023	Interim update (added M0300 to policy)
4/2023	Interim update (added L8701, L8702, K1024, K1025, K1031, K1032, K1033 to policy).
	Removed select codes from policy (note that removal from this policy does not
	automatically warrant or guarantee coverage). Q2 2023 code updates.
6/2023	Interim update (moved 0228U from this policy to a different policy and moved 0114U
	from Table 1 to Table 2)
7/2023	Q3 2023 code updates
10/2023	Annual review and Q4 2023 code updates; reformatted tables and updated
	devices/systems which may be considered medically necessary only if performed in the context of a Medicare-approved study
1/2024	Interim update (moved code for colonic lavage to another policy) and Q1 2024 code updates

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4/2024	Interim update; align with CMS Final Rule Requirements regarding published policy criteria & evidence sources when there is no Medicare coverage policy or guidance; Q2 2024 code updates
5/2024	Interim update; update non-coverage rationale for TriClip™, the Aurora EV-ICD™ System, and for the Avise® Lupus test
7/2024	Interim update and Q3 2024 code updates
8/2024	Interim update; remove KidneyIntelX [™] (addressed in a separate policy)
10/2024	Q4 2024 code updates
1/2025	Annual review and Q1 2025 code updates. Update format, remove select codes from
	policy (note that removal from this policy does not necessarily guarantee coverage).
3/2025	Interim update. Correct tricuspid valve replacement criteria (EVOQUE TTVR system)
3/24/2025	Interim update. Add reference to Medicare Decision Memo for TTVR, effective 3/19/2025.
4/2025	New annual review and Q2 2025 code updates
5/2025	Add codes for topical hyperbaric oxygen and related LCD, transfer codes for transcatheter
	tricuspid valve replacement to a separate policy
5/6/2025	Add codes for liver histotripsy and 3D contour simulation
7/2025	Interim update and Q3 2025 code updates. Add prolotherapy and applicable NCD
7/3/2025	Interim update. Add reference to CMS Decision Memo for T-TEER, effective 7/2/2025.