

MEDICAL POLICY – 7.01.583

Amniotic Membrane and Amniotic Fluid

BCBSA Ref. Policy: 7.01.149

Effective Date: June 1, 2024

Last Revised: July 1, 2024

Replaces: N/.

RELATED MEDICAL POLICIES:

2.01.16 Recombinant and Autologous Platelet-Derived Growth Factors for

Wound Healing and Other Non-Orthopedic Conditions

7.01.113 Bioengineered Skin and Soft Tissue Substitutes

8.01.52 Orthopedic Applications of Stem Cell Therapy (Including Allografts and

Bone Substitutes Used with Autologous Bone Marrow)

Select a hyperlink below to be directed to that section.

POLICY CRITERIA | DOCUMENTATION REQUIREMENTS | CODING RELATED INFORMATION | EVIDENCE REVIEW | REFERENCES | HISTORY

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Introduction

The amniotic membrane and amniotic fluid are structures that surround the fetus in the uterus (womb). The fluid protects the fetus from injury. The membrane is a thin mesh of protein and contains growth factors, stem cells, and other items crucial to a developing fetus. Processing and then using the amniotic membrane and/or fluid (after delivery), has been proposed to treat a number of conditions in adults. High quality medical studies show that using specific amniotic membrane products may be useful for treating diabetic ulcers in some cases, for specific eye conditions, and for a disorder known as Stevens-Johnson syndrome. This policy describes when these products may be considered medically necessary. Using amniotic membrane for other conditions or using injections of amniotic fluid products is considered unproven (investigational).

Note: The Introduction section is for your general knowledge and is not to be taken as policy coverage criteria. The rest of the policy uses specific words and concepts familiar to medical professionals. It is intended for providers. A provider can be a person, such as a doctor, nurse, psychologist, or dentist. A provider also can be a place where medical care is given, like a hospital, clinic, or lab. This policy informs them about when a service may be covered.

Service	Medical Necessity
Treatment of nonhealing	Treatment of nonhealing* diabetic lower-extremity ulcers
diabetic lower-extremity	using the following human amniotic membrane products may
ulcers	be considered medically necessary:
	Affinity
	AmnioBand Membrane
	Biovance
	EpiCord
	Epifix
	Grafix
	*Note: Nonhealing is defined as less than a 20% decrease in wound area with standard wound care for at least 2 weeks based on the entry criteria for clinical trials (e.g., Zelen et al, 2015).
	When the above medical necessity criteria are met, the
	following conditions of coverage will apply:
	Treatment is limited to a maximum of 6 applications in 12
	weeks when evidence of wound healing is present
	Graft applications that exceed what is reasonable and
	necessary as size-appropriate based on the size of the wound
	are considered not medically necessary (see Related
	Information).
	Additional applications beyond 12 weeks are considered not
	medically necessary regardless of wound status.
Human amniotic	Human amniotic membrane grafts with or without suture or
membrane grafts for	glue may be considered medically necessary for the treatment
ophthalmic indications	of ophthalmic conditions

Service	Investigational
Injection of micronized or	Injection of micronized or particulated human amniotic
particulated human amniotic	membrane is considered investigational for all indications,
membrane	including but not limited to treatment of:

Service	Investigational
	Osteoarthritis
	Plantar fasciitis
Injection of human amniotic	Injection of human amniotic fluid is considered
fluid	investigational for all indications.
All other human amniotic	All other human amniotic products (e.g., derived from
products	amnion, chorion, amniotic fluid, umbilical cord, or
	Wharton's jelly) not listed above are considered
	investigational
Other indications	All other indications not listed above are considered
	investigational, including but not limited to, treatment of
	lower extremity ulcers due to venous insufficiency and repair
	following Mohs micrographic surgery.
All other human amnionic	All other human amniotic membrane products not listed
membrane products	above are considered investigational, including but not
	limited to, those listed in the Coding section of this policy in
	the Investigational (Not Eligible for Coverage) subsection.

Note:

Documentation Requirements

The individual's medical records submitted for review should document that medical necessity criteria are met. The record should include clinical documentation of:

- Diagnosis/condition
- History and physical examination documenting the severity of the condition
- Name of product to be used
- Previous therapy attempted and for how long
- The size (measurements) of the affected area to be treated

Coding

Note: This review covers products that do not require FDA approval or clearance. The list of products named in this review is not a complete list of all commercially available products.

Code	Description
HCPCS	



Code	Description
Reviewed for Medical	<u> </u>
Q4132	Grafix Core and GrafixPL Core, per sq cm
Q4133	Grafix PRIME, GrafixPL PRIME, Stravix and StravixPL, per square centimeter
Q4151	AmnioBand or Guardian, per sq cm
Q4154	Biovance, per sq cm
Q4159	Affinity, per sq cm
Q4186	Epifix, per square centimeter
Q4187	EpiCord, per square centimeter
Investigational (Not E	ligible for Coverage)
Q4100	Skin substitute, not otherwise specified (e.g., AmnioFix)
Q4137	AmnioExcel, AmnioExcel Plus or Biodexcel, per sq cm
Q4138	BioDFence DryFlex, per sq cm
Q4139	AmnioMatrix or BioDMatrix, injectable, 1 cc.
Q4140	BioDFence, per sq cm
Q4145	EpiFix, injectable, 1 mg
Q4148	Neox Cord 1k, Neox Cord-RT, or Clarix Cord 1K, per sq cm
Q4150	AlloWrap DS or dry, per square centimeter
Q4153	Dermavest and Plurivest, per sq cm
Q4155	NeoxFlo or Clarix Flo, 1 mg
Q4156	Neox 100 or Clarix 100, per sq cm (e.g., NeoxWound)
Q4157	Revitalon, per sq cm
Q4160	Nushield, per sq cm
Q4162	WoundEx Flow, BioSkin Flow, 0.5 cc (e.g., BioSkin)
Q4163	WoundEx,, BioSkin,, per sq cm
Q4168	AmnioBand, 1 mg (Particulate)
Q4169	Artacent Wound, per sq cm
Q4170	Cygnus per sq cm



Code	Description
Q4171	Interfyl, 1 mg
Q4173	PalinGen or PalinGen XPlus, per sq cm (e.g., PalinGen Membrane)
Q4174	PalinGen or ProMatrX, 0.36 mg per 0.25 cc (e.g., PalinGen SportFlow, ProMatrX liquid)
Q4176	Neopatch or Therion, per square centimeter
Q4177	FlowerAmnioFlo, 0.1 cc
Q4178	FlowerAmnioPatch, per sq cm
Q4180	Revita, per sq cm
Q4181	Amnio Wound, per sq cm
Q4183	SurgiGRAFT, per square centimeter
Q4184	Cellesta or Cellesta Duo, per square centimeter
Q4185	Cellesta flowable amnion (25 mg per cc); per 0.5 cc
Q4188	AmnioArmor, per square centimeter
Q4189	Artacent AC, 1 mg (flowable)
Q4190	Artacent AC, per square centimeter (patch)
Q4191	Restorigin, per square centimeter
Q4192	Restorigin, 1 cc (injectable)
Q4194	Novachor, per square centimeter
Q4198	Genesis Amniotic Membrane, per square centimeter
Q4199	Cygnus Matrix, per sq cm
Q4201	Matrion, per sq cm
Q4202	Keroxx (2.5 g/cc), 1 cc
Q4204	XWRAP, per square centimeter
Q4205	Membrane Graft or Membrane Wrap, per sq cm
Q4206	Fluid Flow or Fluid GF, 1 cc
Q4208	Novafix, per sq cm
Q4209	SurGraft, per sq cm

Code	Description
Q4210	Axolotl Graft or Axolotl DualGraft, per sq cm (code termed effective 7/1/2024)
Q4211	Amnion Bio or AxoBioMembrane, per sq cm
Q4212	AlloGen, per cc
Q4213	Ascent, 0.5 mg
Q4214	Cellesta Cord, per sq cm
Q4215	Axolotl Ambient or Axolotl Cryo, 0.1 mg
Q4216	Artacent Cord, per sq cm
Q4217	WoundFix, BioWound, WoundFix Plus, BioWound Plus, WoundFix Xplus or BioWound Xplus, per sq cm
Q4218	SurgiCORD, per sq cm
Q4219	SurgiGRAFT-DUAL, per sq cm
Q4221	Amnio Wrap2, per sq cm
Q4224	Human Health Factor 10 amniotic patch (hhf10-p), per square centimeter
Q4225	AmnioBind, per square centimeter
Q4227	AmnioCore per sq cm
Q4229	Cogenex Amniotic Membrane, per sq cm
Q4230	Cogenex Flowable Amnion, per 0.5 cc
Q4231	Corplex P, per cc
Q4232	Corplex, per sq cm
Q4233	SurFactor or NuDyn, per 0.5 cc
Q4234	XCellerate, per sq cm
Q4235	Amniorepair or AltiPly, per sq cm
Q4236	CarePATCH, per sq cm
Q4237	Cryo-Cord, per sq cm
Q4239	Amnio-maxx or Amnio-maxx Lite, per sq cm
Q4240	CoreCyte, for topical use only, per 0.5 cc
Q4241	PolyCyte, for topical use only, per 0.5 cc



Code	Description
Q4242	AmnioCyte Plus, per 0.5 cc (e.g., AmnioCyte)
Q4244	Procenta, per 200 mg (code termed effective 4/1/2024)
Q4245	Amniotext, per cc
Q4246	CoreText or ProText, per cc
Q4247	Amniotext patch, per sq cm
Q4248	Dermacyte Amniotic Membrane Allograft, per sq cm
Q4249	Amniply, for topical use only, per square centimeter
Q4250	AmnioAmp-MPMP, per square centimeter
Q4251	Vim, per sq cm
Q4252	Vendaje, per sq cm
Q4253	Zenith Amniotic Membrane, per sq cm
Q4254	Novafix DL, per square centimeter
Q4255	REGUaRD, for topical use only, per square centimeter
Q4256	MLG-CompleteTM, per square centimeter
Q4257	Release, per square centimeter
Q4258	Enverse, per square centimeter
Q4259	celera Dual Layer or celera Dual Membrane, per sq cm
Q4260	Signature APatch, per sq cm
Q4261	TAG, per sq cm
Q4262	Dual Layer Impax Membrane, per sq cm
Q4263	SurGraft TL, per sq cm
Q4264	Cocoon Membrane, per sq cm
Q4265	Neostim TL, per square centimeter
Q4266	Neostim membrane, per square centimeter
Q4267	Neostim DL, per square centimeter
Q4268	SurGraft FT, per square centimeter



Code	Description
Q4269	SurGraft XT, per square centimeter
Q4270	Complete SL, per square centimeter
Q4271	Complete FT, per square centimeter
Q4272	Esano a, per square centimeter
Q4273	Esano aaa, per square centimeter
Q4274	Esano ac, per square centimeter
Q4275	Esano aca, per square centimeter
Q4276	Orion, per square centimeter
Q4277	Woundplus membrane or e-graft, per square centimeter (code termed effective 7/1/2024)
Q4278	Epieffect, per square centimeter
Q4279	Vendaje AC, per sq cm (new code effective 1/1/2024)
Q4280	Xcell amnio matrix, per square centimeter
Q4281	Barrera sl or barrera dl, per square centimeter
Q4282	Cygnus dual, per square centimeter
Q4283	Biovance tri-layer or biovance 3I, per square centimeter
Q4284	Dermabind sl, per square centimeter
Q4285	Nudyn dl or nudyn dl mesh, per square centimeter (new code effective 10/1/2023)
Q4286	Nudyn sl or nudyn slw, per square centimeter (new code effective 10/1/2023)
Q4287	DermaBind DL, per sq cm (new code effective 1/1/2024)
Q4288	DermaBind CH, per sq cm (new code effective 1/1/2024)
Q4289	RevoShield+ Amniotic Barrier, per sq cm (new code effective 1/1/2024)
Q4290	Membrane Wrap-Hydro™, per sq cm (new code effective 1/1/2024)
Q4291	Lamellas XT, per sq cm (new code effective 1/1/2024)
Q4292	Lamellas, per sq cm (new code effective 1/1/2024)
Q4293	Acesso DL, per sq cm (new code effective 1/1/2024)
Q4294	Amnio Quad-Core, per sq cm (new code effective 1/1/2024)



Code	Description
Q4295	Amnio Tri-Core Amniotic, per sq cm (new code effective 1/1/2024)
Q4296	Rebound Matrix, per sq cm (new code effective 1/1/2024)
Q4297	Emerge Matrix, per sq cm (new code effective 1/1/2024)
Q4298	AmniCore Pro, per sq cm (new code effective 1/1/2024)
Q4299	AmniCore Pro+, per sq cm (new code effective 1/1/2024)
Q4300	Acesso TL, per sq cm (new code effective 1/1/2024)
Q4301	Activate Matrix, per sq cm (new code effective 1/1/2024)
Q4302	Complete ACA, per sq cm (new code effective 1/1/2024)
Q4303	Complete AA, per sq cm (new code effective 1/1/2024)
Q4304	GRAFIX PLUS, per sq cm (new code effective 1/1/2024)
Q4305	American amnion ac tri-layer, per square centimeter (new code effective 4/1/2024)
Q4306	American amnion ac, per square centimeter (new code effective 4/1/2024)
Q4307	American amnion, per square centimeter (new code effective 4/1/2024)
Q4308	Sanopellis, per square centimeter (new code effective 4/1/2024)
Q4309	Via matrix, per square centimeter (new code effective 4/1/2024)
Q4310	Procenta, per 100 mg (new code effective 4/1/2024)
Q4311	Acesso, per square centimeter (new code effective 7/1/2024)
Q4312	Acesso ac, per square centimeter (new code effective 7/1/2024)
Q4313	Dermabind fm, per square centimeter (new code effective 7/1/2024)
Q4314	Reeva ft, per square cenitmeter (new code effective 7/1/2024)
Q4315	Regenelink amniotic membrane allograft, per square centimeter (new code effective 7/1/2024)
Q4316	Amchoplast, per square centimeter (new code effective 7/1/2024)
Q4317	Vitograft, per square centimeter (new code effective 7/1/2024)
Q4318	E-graft, per square centimeter (new code effective 7/1/2024)
Q4319	Sanograft, per square centimeter (new code effective 7/1/2024)
Q4320	Pellograft, per square centimeter (new code effective 7/1/2024)



Code	Description
Q4321	Renograft, per square centimeter (new code effective 7/1/2024)
Q4322	Caregraft, per square centimeter (new code effective 7/1/2024)
Q4323	Alloply, per square centimeter (new code effective 7/1/2024)
Q4324	Amniotx, per square centimeter (new code effective 7/1/2024)
Q4325	Acapatch, per square centimeter (new code effective 7/1/2024)
Q4326	Woundplus, per square centimeter (new code effective 7/1/2024)
Q4327	Duoamnion, per square centimeter (new code effective 7/1/2024)
Q4328	Most, per square centimeter (new code effective 7/1/2024)
Q4329	Singlay, per square centimeter (new code effective 7/1/2024)
Q4330	Total, per square centimeter (new code effective 7/1/2024)
Q4331	Axolotl graft, per square centimeter (new code effective 7/1/2024)
Q4332	Axolotl dualgraft, per square centimeter (new code effective 7/1/2024)
Q4333	Ardeograft, per square centimeter (new code effective 7/1/2024)

Note:

HRT: Human Regenerative Technologies; MTF Musculoskeletal Transplant Foundation. ^a Processed by HRT and marketed under different tradename.

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Related Information

Epifix Sizing Guidelines

The allograft is intended for single-patient use only. All unused material should be discarded. Multiple sizes are available in a wide range of sheet and mesh configurations covering wounds To determine the measure of a wound in square centimeters multiply the length of the wound by the width of the wound in centimeters. (e.g., 10 cm in length x 5 cm in width $= 50 \text{ cm}^2$)

Here is a sample of the package standard sizes for Epifix:



Table 1. Epifix Sample of Package Standard Sizes

Item Number	Size & Description
GS-5140	14 mm disk (1.5 sq cm)
GS-5160	16 mm disk (2 sq cm)
GS-5180	18 mm disk (2.5 sq cm)
GS-5024	24 mm disk (4.5 sq cm)
GS-5220	2 cm x 2 cm sheet (4 sq cm)
GS-5230	2 cm x 3 cm sheet (6 sq cm)
Gs-5240	2 cm x 4 cm sheet (8 sq cm)
GS-5330	3 cm x 3 cm sheet (9 sq cm)
GS-5340	3 cm x 4 cm sheet (12 sq cm)
GS-5440	4 cm x 4 cm sheet (16 sq cm)
GS-5350	3 cm x 5 cm sheet (15 sq cm)
GS-5460	4 cm x 6 cm sheet (24 sq cm)
GS-5560	5 cm x 6 cm sheet (30 sq cm)
GS-5770	7 cm x 7 cm sheet (49 sq cm)
ES-2300	2 cm x 3 cm mesh sheet (4 sq cm)
ES-3300	3.5 x 3.5 cm mesh sheet (8 sq. cm)
ES-3500	3 cm x 5 cm mesh sheet (10 sq cm)
ES-4400	4 cm x 4.5 cm mesh sheet (10.2 sq cm)
ES-5500	5 cm x 5.5 cm mesh sheet (16.1 sq cm)

Source: https://mimedx.com/epifix/ (Accessed April 9, 2024).

Table 2. AmnioBand Sizing Guidelines

Tissue Code	Product Specifications
WC3010	AmnioBand Membrane, 10mm Disk
WC3014	AmnioBand Membrane, 14mm Disk
WC3016	AmnioBand Membrane, 16mm Disk

Tissue Code	Product Specifications
WC3018	AmnioBand Membrane, 18mm Disk
WC3022	AmnioBand Membrane, 2cm x 2cm
WC3023	AmnioBand Membrane, 2cm x 3cm
WC3024	AmnioBand Membrane, 2cm x 4cm
WC3034	AmnioBand Membrane, 3cm x 4cm
WC3044	AmnioBand Membrane, 4cm x 4cm
WC3038	AmnioBand Membrane, 3cm x 8cm
WC3046	AmnioBand Membrane, 4cm x 6cm
WC3056	AmnioBand Membrane, 5cm x 6cm
WC3077	AmnioBand Membrane, 7cm x 7cm

Source: https://www.mtfbiologics.org/our-products/detail/amnioband-membrane (Accessed April 9, 2024).

Table 3. Other Product Size Specifications

Name	Available Sizes	Link
Affinity	1.5 x 1.5 cm (2.25 square cm)	https://affinityfresh.com/why-choose-
	2.5 x 2.5 cm (6.25 square cm)	affinity/product-details-and-resources.html
Biovance	1 cm x 2 cm	https://cdn.arthrex.io/image/upload/dec74ab9-
	2 cm x 2 cm	9ca5-4c07-9052-fe1bbf6e4a2c.pdf
	2 cm x 3 cm	
	2 cm x 4 cm	
	3 cm x 3.5 cm	
	4 cm x 4 cm	
	5 cm x 5 cm	
	6 cm x 6 cm	
Epicord	1 cm x 2 cm (2 sq cm)	https://mimedx.com/epicord/
	2 cm x 3 cm (6 sq cm)	(see product details, other information)
	3 cm x 5 cm (15 sq cm)	
	2 cm x 3 cm (6 sq cm)	
	Epicord Expandable	
Grafix	16 mm Disc (2 cm²)	https://www.grafixpl.com/products
	1.5 cm x 2 cm (3 cm²)	
	2 cm x 3 cm (6 cm²)	

Name	Available Sizes	Link
	3 cm x 3 cm (9 cm²)	
	3 cm x 4 cm (12 cm²)	
	5 cm x 5 cm (25 cm²)	
	7 cm x 7 cm (49 cm²)	
	7 cm x 15 cm (105 cm²)	

Evidence Review

Description

Several commercially available forms of human amniotic membrane (HAM) and amniotic fluid can be administered by patches, topical application, or injection. Amniotic membrane and amniotic fluid are being evaluated for the treatment of a variety of conditions, including chronic full-thickness diabetic lower extremity ulcers, venous ulcers, knee osteoarthritis, plantar fasciitis, and ophthalmic conditions.

Background

Human Amniotic Membrane

HAM consists of two conjoined layers, the amnion and chorion, and forms the innermost lining of the amniotic sac or placenta. When prepared for use as an allograft, the membrane is harvested immediately after birth, cleaned, sterilized, and either cryopreserved or dehydrated. Many products available using amnion, chorion, amniotic fluid, and umbilical cord are being studied for the treatment of a variety of conditions, including chronic full-thickness diabetic lower-extremity ulcers, venous ulcers, knee osteoarthritis, plantar fasciitis, and ophthalmic conditions. The products are formulated either as patches, which can be applied as wound covers, or as suspensions or particulates, or connective tissue extractions, which can be injected or applied topically.

Fresh amniotic membrane contains collagen, fibronectin, and hyaluronic acid, along with a combination of growth factors, cytokines, and anti-inflammatory proteins such as interleukin-1 receptor antagonist.¹ There is evidence that the tissue has anti-inflammatory, antifibroblastic, and antimicrobial properties. HAM is considered to be non-immunogenic and has not been



observed to cause a substantial immune response. It is believed that these properties are retained in cryopreserved HAM and HAM products, resulting in a readily available tissue with regenerative potential. In support, one HAM product has been shown to elute growth factors into saline and stimulate the migration of mesenchymal stem cells both in vitro and in vivo.²

Use of a HAM graft, which is fixated by sutures, is an established treatment for disorders of the corneal surface, including neurotrophic keratitis, corneal ulcers and melts, following pterygium repair, Stevens-Johnson syndrome, and persistent epithelial defects. Amniotic membrane products that are inserted like a contact lens have more recently been investigated for the treatment of corneal and ocular surface disorders. Amniotic membrane patches are also being evaluated for the treatment of various other conditions, including skin wounds, burns, leg ulcers, and prevention of tissue adhesion in surgical procedures. Additional indications studied in preclinical models include tendonitis, tendon repair, and nerve repair. The availability of HAM opens the possibility of regenerative medicine for an array of conditions.

Amniotic Fluid

Amniotic fluid surrounds the fetus during pregnancy and provides protection and nourishment. In the second half of gestation, most of the fluid is a result of micturition and secretion from the respiratory tract and gastrointestinal tract of the fetus, along with urea.¹ The fluid contains proteins, carbohydrates, peptides, fats, amino acids, enzymes, hormones, pigments, and fetal cells. Use of human and bovine amniotic fluid for orthopedic conditions was first reported in 1927.³ Amniotic fluid has been compared with synovial fluid, containing hyaluronan, lubricant, cholesterol, and cytokines. Injection of amniotic fluid or amniotic fluid–derived cells is currently being evaluated for the treatment of osteoarthritis and plantar fasciitis.

Amniotic membrane and amniotic fluid are also being investigated as sources of pluripotent stem cells.¹ Pluripotent stem cells can be cultured and are capable of differentiation toward any cell type. The use of stem cells in orthopedic applications is addressed in a separate policy (see **Related Medical Policies**).

Summary of Evidence

Diabetic Lower-Extremity Ulcers

For individuals who have nonhealing diabetic lower-extremity ulcers who receive a patch formulation of HAM or placental membrane (i.e., Affinity, AmnioBand Membrane, AmnioExcel,



Biovance, EpiCord, EpiFix, Grafix), the evidence includes randomized controlled trials (RCTs). The relevant outcomes are symptoms, morbid events, functional outcomes, and quality of life. The RCTs evaluating amniotic and placental membrane products for the treatment of nonhealing (<20% healing with ≥2 weeks of standard care) diabetic lower-extremity ulcers have compared HAM with standard care or with an established advanced wound care product. These trials used wound closure as the primary outcome measure, and some used power analysis, blinded assessment of wound healing, and intention-to-treat (ITT) analysis. For the HAM products that have been sufficiently evaluated (i.e., Affinity, AmnioBand Membrane, Biovance, EpiCord, EpiFix, Grafix), results have shown improved outcomes compared with standard care, and outcomes that are at least as good as an established advanced wound care product. Improved health outcomes in the RCTs are supported by multicenter registries. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.

Lower-Extremity Ulcers Due to Venous Insufficiency

For individuals who have lower-extremity ulcers due to venous insufficiency who receive a patch formulation of HAM, the evidence includes three RCTs. The relevant outcomes are symptoms, morbid events, functional outcomes, and quality of life. The published evidence on HAM for the treatment of venous leg ulcers includes two multicenter RCTs with EpiFix and one multicenter RCT with Amnioband. One RCT reported a larger percent wound closure at 4 weeks, but the percentage of individuals with complete wound closure at four weeks did not differ between EpiFix and the standard of care. A second RCT evaluated complete wound closure at 12 weeks after weekly application of EpiFix or standard dressings with compression, but interpretation is limited by methodologic concerns. A third RCT demonstrated significantly greater blinded assessor-confirmed rates of complete wound closure at 12 weeks after weekly or twice-weekly application of AmnioBand Membrane with compression bandaging compared with compression bandaging alone. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Osteoarthritis

For individuals who have knee osteoarthritis who receive an injection of suspension or particulate formulation of HAM or amniotic fluid, the evidence includes a feasibility study. The relevant outcomes are symptoms, functional outcomes, quality of life, and treatment-related morbidity. The pilot study assessed the feasibility of a larger RCT evaluating HAM injection. Additional trials, which will have a larger sample size and longer follow-up, are needed to permit



conclusions on the effect of this treatment. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Plantar Fasciitis

For individuals who have plantar fasciitis who receive an injection of amniotic membrane, the evidence includes preliminary studies and a larger (n=145) patient-blinded comparison of micronized injectable-HAM and placebo control. Injection of micronized amniotic membrane resulted in greater improvements in the visual analog score for pain and the Foot Functional Index compared to placebo controls. The primary limitation of the study is that this is an interim report with 12-month results pending. The evidence is insufficient to determine that the technology results in an improvement the net health outcome.

Ophthalmic Conditions

Sutured and self-retained HAM has been evaluated for a variety of ophthalmologic conditions. Traditionally, the amniotic membrane has been fixed onto the eye with sutures or glue or placed under a bandage contact lens for a variety of ocular surface disorders. Several devices have been reported that use a ring around a HAM allograft that allows it to be inserted under topical anesthesia similar to insertion of a contact lens. Sutured HAM transplant has been used for many years for the treatment of ophthalmic conditions. Many of these conditions are rare, leading to difficulty in conducting RCTs. The rarity, severity, and variability of the ophthalmic condition was taken into consideration in evaluating the evidence. Based on clinical input received in 2019, it was determined that there is a clinically meaningful improvement in the net health outcome and the use of HAM is consistent with generally accepted medical practice for the treatment of ophthalmic conditions.

Repair Following Mohs Micrographic Surgery

For individuals who have undergone Mohs micrographic surgery for skin cancer on the face, head, neck, or dorsal hand who receive human amniotic/chorionic membrane, the evidence includes a nonrandomized, comparative study and no RCTs. Relevant outcomes are symptoms, morbid events, functional outcomes, and quality of life. A retrospective analysis using data from medical records compared a dehydrated human amnionic/chorionic membrane product (dHACM, Epifix) to repair using autologous surgery in 143 propensity-score matched pairs of

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individuals requiring same-day reconstruction after Mohs microsurgery for skin cancer on the head, face, or neck. A greater proportion of individuals who received dHACM repair experienced zero complications (97.9% vs. 71.3%; p<.0001; relative risk 13.67; 95% CI 4.33 to 43.12). Placental allograft reconstructions developed less infection (p=.004) and were less likely to experience poor scar cosmesis (p<.0001). This study is limited by its retrospective observational design. Well-designed and conducted prospective studies are lacking. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Ongoing and Unpublished Clinical Trials

Some currently ongoing and unpublished trials that might influence this review are listed in **Table 4**.

Table 4. Summary of Key Trials

NCT No.	Trial Name	Planned	Completion
		Enrollment	Date
Ongoing			
NCT04457752°	A Randomised Controlled Multicentre Clinical Trial, Evaluating the Efficacy of Dual Layer Amniotic Membrane (Artacent) and Standard of Care Versus Standard of Care Alone in the Healing of Chronic Diabetic Foot Ulcers	124	Mar 2023
NCT03390920 ^a	Evaluation of Outcomes With Amniotic Fluid for Musculoskeletal Conditions	200	Jan 2030
NCT04553432 ^a	Dry Eye OmniLenz Application of Omnigen Research Study	130	Jul 2023
NCT04636229 ^a	A Phase 3 Prospective, Multicenter, Double-blind, Randomized, Placebo-controlled Study to Evaluate the Efficacy of Amniotic Suspension Allograft (ASA) in Patients With Osteoarthritis of the Knee	474	Dec 2023
NCT06000410 ^a	A Phase 3 Prospective, Multicenter, Double-blind, Randomized, Placebo-controlled Study to Evaluate the Efficacy of Amniotic Suspension Allograft (ASA) in Patients With Osteoarthritis of the Knee	474	Mar 2026
NCT05842057 ^a	Phase 2 Randomized Trial: Human Amnion Membrane Allograft and Early Return of Erectile Function After Radical Prostatectomy (HAMMER)	240	Aug 2028



NCT No.	Trial Name	Planned Enrollment	Completion Date
NCT06150209ª	A Controlled Data Collection and Prospective Treatment Study to Evaluate the Efficacy of Vendaje in the Management of Foot Ulcers in Diabetic Patients	100	Jun 2025
NCT05796765 ^a	A Phase 2B, Prospective, Double-Blind, Randomized Controlled Trial of the Micronized DHACM Injectable Product Compared to Saline Placebo Injection for the Treatment of Osteoarthritis of the Knee	471	Jan 2025
Unpublished	Unpublished		
NCT03855514ª	A Prospective, Multicenter, Randomized, Controlled Clinical Study Of NuShield and Standard of Care (SOC) Compared to SOC Alone For The Management Of Diabetic Foot Ulcers	200	Dec 2021
NCT04599673	Prospective Analysis of Intraoperative AMNIOGEN Injection in Patients With Rotator Cuff Tear	100	Sep 2022
NCT04612023	A Prospective, Double-Blinded, Randomized Controlled Trial of an Amniotic Membrane Allograft Injection Comparing Two Doses (1 mL and 2 mL Injection) and a Placebo (Sterile Saline) in the Treatment of Osteoarthritis of the Knee	90	Jul 2022

NCT: national clinical trial.

Clinical Input from Physician Specialty Societies and Academic Medical Centers

While the various physician specialty societies and academic medical centers may collaborate with and make recommendations during this process, through the provision of appropriate reviewers, input received does not represent an endorsement or position statement by the physician specialty societies or academic medical centers, unless otherwise noted.

Practice Guidelines and Position Statements

The purpose of the following information is to provide reference material. Inclusion does not imply endorsement or alignment with the policy conclusions.

Guidelines or position statements will be considered for inclusion if they were issued by, or jointly by, a US professional society, an international society with US representation, or National



^a Denotes industry-sponsored or cosponsored trial.

Institute for Health and Care Excellence (NICE). Priority will be given to guidelines that are informed by a systematic review, include strength of evidence ratings, and include a description of management of conflict of interest.

Society for Vascular Surgery et al

In 2016, the Society for Vascular Surgery in collaboration with the American Podiatric Medical Association and the Society for Vascular Medicine made the following recommendation: "For DFUs [diabetic foot ulcers] that fail to demonstrate improvement (>50% wound area reduction) after a minimum of 4 weeks of standard wound therapy, we recommend adjunctive wound therapy options. These include negative pressure therapy, biologics (platelet-derived growth factor [PDGF], living cellular therapy, extracellular matrix products, amniotic membrane products), and hyperbaric oxygen therapy. Choice of adjuvant therapy is based on clinical findings, availability of therapy, and cost-effectiveness; there is no recommendation on ordering of therapy choice."

Wound Healing Society

In 2016, the Wound Healing Society updated their guidelines on diabetic foot ulcer treatment.⁴² The Society concluded that there was level 1 evidence that cellular and acellular skin equivalents improve diabetic foot ulcer healing, noting that, "healthy living skin cells assist in healing DFUs [diabetic foot ulcers] by releasing therapeutic amounts of growth factors, cytokines, and other proteins that stimulate the wound bed." References from two randomized controlled trials on amniotic membrane were included with references on living and acellular bioengineered skin substitutes.

Medicare National Coverage

There is no national coverage determination.

Regulatory Status

The US Food and Drug Administration (FDA) regulates human cells and tissues intended for implantation, transplantation, or infusion through the Center for Biologics Evaluation and

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Research, under Code of Federal Regulation title 21, parts 1270 and 1271. In 2017, the FDA published clarification of what is considered minimal manipulation and homologous use for human cells, tissues, and cellular and tissue-based products (HCT/Ps).⁴

HCT/Ps are defined as human cells or tissues that are intended for implantation, transplantation, infusion, or transfer into a human recipient. If an HCT/P does not meet the criteria below and does not qualify for any of the stated exceptions, the HCT/P will be regulated as a drug, device, and/or biological product and applicable regulations and premarket review will be required.

An HCT/P is regulated solely under section 361 of the PHS Act and 21 CFR Part 1271 if it meets all of the following criteria:

- "The HCT/P is minimally manipulated;
- The HCT/P is intended for homologous use only, as reflected by the labeling, advertising, or other indications of the manufacturer's objective intent;
- The manufacture of the HCT/P does not involve the combination of the cells or tissues with another article, except for water, crystalloids, or a sterilizing, preserving, or storage agent, provided that the addition of water, crystalloids, or the sterilizing, preserving, or storage agent does not raise new clinical safety concerns with respect to the HCT/P; and

Either:

- The HCT/P does not have a systemic effect and is not dependent upon the metabolic activity of living cells for its primary function; or
- The HCT/P has a systemic effect or is dependent upon the metabolic activity of living cells for its primary function, and:
 - Is for autologous use;
 - Is for allogeneic use in a first-degree or second-degree blood relative; or
 - Is for reproductive use."

The guidance provides the following specific examples of homologous and non-homologous use for amniotic membrane:

 "Amniotic membrane is used for bone tissue replacement to support bone regeneration following surgery to repair or replace bone defects. This is not a homologous use because bone regeneration is not a basic function of amniotic membrane.



- An amniotic membrane product is used for wound healing and/or to reduce scarring and inflammation. This is not homologous use because wound healing and reduction of scarring and inflammation are not basic functions of amniotic membrane.
- An amniotic membrane product is applied to the surface of the eye to cover or offer
 protection from the surrounding environment in ocular repair and reconstruction
 procedures. This is homologous use because serving as a covering and offering protection
 from the surrounding environment are basic functions of amniotic membrane."

The FDA noted the intention to exercise enforcement discretion for the next 36 months after publication of the guidance.

In 2003, Prokera was cleared for marketing by the Food and Drug Administration through the 510(k) process for the ophthalmic conformer that incorporates amniotic membrane (K032104); product code NQB. The FDA determined that this device was substantially equivalent to the Symblepharon Ring. The Prokera device is intended "for use in eyes in which the ocular surface cells have been damaged, or underlying stroma is inflamed and scarred." The development of Prokera, a commercially available product, was supported in part by the National Institute of Health and the National Eye Institute.

References

- 1. Parolini O, Soncini M, Evangelista M, et al. Amniotic membrane and amniotic fluid-derived cells: potential tools for regenerative medicine?. Regen Med. Mar 2009; 4(2): 275-91. PMID 19317646
- 2. Koob TJ, Rennert R, Zabek N, et al. Biological properties of dehydrated human amnion/chorion composite graft: implications for chronic wound healing. Int Wound J. Oct 2013; 10(5): 493-500. PMID 23902526
- 3. Shimberg M, Wadsworth K. The use of amniotic-fluid concentrate in orthopaedic conditions. J Bone Joint Surg. 1938;20(I):167-177
- U.S. Food and Drug Administration. Regulatory Considerations for Human Cells, Tissues, and Cellular and Tissue-Based Products: Minimal Manipulation and Homologous Use Guidance for Industry and Food and Drug Administration Staff. 2017 https://www.regulations.gov/document?D=FDA-2017-D-6146-0003. Accessed April 3, 2024
- Food and Drug Administration. 510(k) Summary: ProKeraTM Bio-Tissue Inc. (K032104). 2003; https://www.accessdata.fda.gov/cdrh_docs/pdf3/K032104.pdf. Accessed April 3, 2024.
- 6. Serena TE, Yaakov R, Moore S, et al. A randomized controlled clinical trial of a hypothermically stored amniotic membrane for use in diabetic foot ulcers. J Comp Eff Res. Jan 2020; 9(1): 23-34. PMID 31691579
- 7. Ananian CE, Dhillon YS, Van Gils CC, et al. A multicenter, randomized, single-blind trial comparing the efficacy of viable cryopreserved placental membrane to human fibroblast-derived dermal substitute for the treatment of chronic diabetic foot ulcers. Wound Repair Regen. May 2018; 26(3): 274-283. PMID 30098272



- 8. Tettelbach W, Cazzell S, Sigal F, et al. A multicentre prospective randomised controlled comparative parallel study of dehydrated human umbilical cord (EpiCord) allograft for the treatment of diabetic foot ulcers. Int Wound J. Feb 2019; 16(1): 122-130. PMID 30246926
- DiDomenico LA, Orgill DP, Galiano RD, et al. Use of an aseptically processed, dehydrated human amnion and chorion membrane improves likelihood and rate of healing in chronic diabetic foot ulcers: A prospective, randomised, multi-centre clinical trial in 80 patients. Int Wound J. Dec 2018; 15(6): 950-957. PMID 30019528
- Snyder RJ, Shimozaki K, Tallis A, et al. A Prospective, Randomized, Multicenter, Controlled Evaluation of the Use of Dehydrated Amniotic Membrane Allograft Compared to Standard of Care for the Closure of Chronic Diabetic Foot Ulcer. Wounds. Mar 2016; 28(3): 70-7. PMID 26978860
- Zelen CM, Gould L, Serena TE, et al. A prospective, randomised, controlled, multi-centre comparative effectiveness study of healing using dehydrated human amnion/chorion membrane allograft, bioengineered skin substitute or standard of care for treatment of chronic lower extremity diabetic ulcers. Int Wound J. Dec 2015; 12(6): 724-32. PMID 25424146
- 12. Zelen CM, Serena TE, Gould L, et al. Treatment of chronic diabetic lower extremity ulcers with advanced therapies: a prospective, randomised, controlled, multi-centre comparative study examining clinical efficacy and cost. Int Wound J. Apr 2016; 13(2): 272-82. PMID 26695998
- 13. Tettelbach W, Cazzell S, Reyzelman AM, et al. A confirmatory study on the efficacy of dehydrated human amnion/chorion membrane dHACM allograft in the management of diabetic foot ulcers: A prospective, multicentre, randomised, controlled study of 110 patients from 14 wound clinics. Int Wound J. Feb 2019; 16(1): 19-29. PMID 30136445
- 14. Lavery LA, Fulmer J, Shebetka KA, et al. The efficacy and safety of Grafix(®) for the treatment of chronic diabetic foot ulcers: results of a multi-centre, controlled, randomised, blinded, clinical trial. Int Wound J. Oct 2014; 11(5): 554-60. PMID 25048468
- 15. Smiell JM, Treadwell T, Hahn HD, et al. Real-world Experience With a Decellularized Dehydrated Human Amniotic Membrane Allograft. Wounds. Jun 2015; 27(6): 158-69. PMID 26061491
- 16. Frykberg RG, Gibbons GW, Walters JL, et al. A prospective, multicentre, open-label, single-arm clinical trial for treatment of chronic complex diabetic foot wounds with exposed tendon and/or bone: positive clinical outcomes of viable cryopreserved human placental membrane. Int Wound J. Jun 2017; 14(3): 569-577. PMID 27489115
- 17. Serena TE, Carter MJ, Le LT, et al. A multicenter, randomized, controlled clinical trial evaluating the use of dehydrated human amnion/chorion membrane allografts and multilayer compression therapy vs. multilayer compression therapy alone in the treatment of venous leg ulcers. Wound Repair Regen. 2014; 22(6): 688-93. PMID 25224019
- 18. Bianchi C, Cazzell S, Vayser D, et al. A multicentre randomised controlled trial evaluating the efficacy of dehydrated human amnion/chorion membrane (EpiFix ®) allograft for the treatment of venous leg ulcers. Int Wound J. Feb 2018; 15(1): 114-122. PMID 29024419
- 19. Bianchi C, Tettelbach W, Istwan N, et al. Variations in study outcomes relative to intention-to-treat and per-protocol data analysis techniques in the evaluation of efficacy for treatment of venous leg ulcers with dehydrated human amnion/chorion membrane allograft. Int Wound J. Jun 2019; 16(3): 761-767. PMID 30864259
- Serena TE, Orgill DP, Armstrong DG, et al. A Multicenter, Randomized, Controlled, Clinical Trial Evaluating Dehydrated Human Amniotic Membrane in the Treatment of Venous Leg Ulcers. Plast Reconstr Surg. Nov 01 2022; 150(5): 1128-1136. PMID 36067479
- 21. Vines JB, Aliprantis AO, Gomoll AH, et al. Cryopreserved Amniotic Suspension for the Treatment of Knee Osteoarthritis. J Knee Surg. Aug 2016; 29(6): 443-50. PMID 26683979
- 22. Tsikopoulos K, Vasiliadis HS, Mavridis D. Injection therapies for plantar fasciopathy ('plantar fasciitis'): a systematic review and network meta-analysis of 22 randomised controlled trials. Br J Sports Med. Nov 2016; 50(22): 1367-1375. PMID 27143138
- 23. Zelen CM, Poka A, Andrews J. Prospective, randomized, blinded, comparative study of injectable micronized dehydrated amniotic/chorionic membrane allograft for plantar fasciitis--a feasibility study. Foot Ankle Int. Oct 2013; 34(10): 1332-9. PMID 23945520



- Cazzell S, Stewart J, Agnew PS, et al. Randomized Controlled Trial of Micronized Dehydrated Human Amnion/Chorion Membrane (dHACM) Injection Compared to Placebo for the Treatment of Plantar Fasciitis. Foot Ankle Int. Oct 2018; 39(10): 1151-1161. PMID 30058377
- 25. Suri K, Kosker M, Raber IM, et al. Sutureless amniotic membrane ProKera for ocular surface disorders: short-term results. Eye Contact Lens. Sep 2013; 39(5): 341-7. PMID 23945524
- 26. Liu J, Li L, Li X. Effectiveness of Cryopreserved Amniotic Membrane Transplantation in Corneal Ulceration: A Meta-Analysis. Cornea. Apr 2019; 38(4): 454-462. PMID 30702468
- 27. Yin HY, Cheng AMS, Tighe S, et al. Self-retained cryopreserved amniotic membrane for treating severe corneal ulcers: a comparative, retrospective control study. Sci Rep. Oct 12 2020; 10(1): 17008. PMID 33046729
- 28. Paris Fdos S, Gonçalves ED, Campos MS, et al. Amniotic membrane transplantation versus anterior stromal puncture in bullous keratopathy: a comparative study. Br J Ophthalmol. Aug 2013; 97(8): 980-4. PMID 23723410
- 29. Kheirkhah A, Casas V, Raju VK, et al. Sutureless amniotic membrane transplantation for partial limbal stem cell deficiency. Am J Ophthalmol. May 2008; 145(5): 787-94. PMID 18329626
- 30. Pachigolla G, Prasher P, Di Pascuale MA, et al. Evaluation of the role of ProKera in the management of ocular surface and orbital disorders. Eye Contact Lens. Jul 2009; 35(4): 172-5. PMID 19474753
- 31. Sharma N, Thenarasun SA, Kaur M, et al. Adjuvant Role of Amniotic Membrane Transplantation in Acute Ocular Stevens-Johnson Syndrome: A Randomized Control Trial. Ophthalmology. Mar 2016; 123(3): 484-91. PMID 26686968
- 32. Bouchard CS, John T. Amniotic membrane transplantation in the management of severe ocular surface disease: indications and outcomes. Ocul Surf. Jul 2004; 2(3): 201-11. PMID 17216092
- 33. John T, Tighe S, Sheha H, et al. Corneal Nerve Regeneration after Self-Retained Cryopreserved Amniotic Membrane in Dry Eye Disease. J Ophthalmol. 2017; 2017: 6404918. PMID 28894606
- 34. McDonald MB, Sheha H, Tighe S, et al. Treatment outcomes in the DRy Eye Amniotic Membrane (DREAM) study. Clin Ophthalmol. 2018; 12: 677-681. PMID 29670328
- 35. Tandon R, Gupta N, Kalaivani M, et al. Amniotic membrane transplantation as an adjunct to medical therapy in acute ocular burns. Br J Ophthalmol. Feb 2011; 95(2): 199-204. PMID 20675729
- 36. Eslani M, Baradaran-Rafii A, Cheung AY, et al. Amniotic Membrane Transplantation in Acute Severe Ocular Chemical Injury: A Randomized Clinical Trial. Am J Ophthalmol. Mar 2019; 199: 209-215. PMID 30419194
- 37. Tamhane A, Vajpayee RB, Biswas NR, et al. Evaluation of amniotic membrane transplantation as an adjunct to medical therapy as compared with medical therapy alone in acute ocular burns. Ophthalmology. Nov 2005; 112(11): 1963-9. PMID 16198422
- 38. Kaufman SC, Jacobs DS, Lee WB, et al. Options and adjuvants in surgery for pterygium: a report by the American Academy of Ophthalmology. Ophthalmology. Jan 2013; 120(1): 201-8. PMID 23062647
- 39. Clearfield E, Muthappan V, Wang X, et al. Conjunctival autograft for pterygium. Cochrane Database Syst Rev. Feb 11 2016; 2(2): CD011349. PMID 26867004
- 40. Toman J, Michael GM, Wisco OJ, et al. Mohs Defect Repair with Dehydrated Human Amnion/Chorion Membrane. Facial Plast Surg Aesthet Med. 2022; 24(1): 48-53. PMID 34714143
- 41. Hingorani A, LaMuraglia GM, Henke P, et al. The management of diabetic foot: A clinical practice guideline by the Society for Vascular Surgery in collaboration with the American Podiatric Medical Association and the Society for Vascular Medicine. J Vasc Surg. Feb 2016; 63(2 Suppl): 3S-21S. PMID 26804367
- 42. Lavery LA, Davis KE, Berriman SJ, et al. WHS guidelines update: Diabetic foot ulcer treatment guidelines. Wound Repair Regen. 2016; 24(1): 112-26. PMID 26663430



History

Date	Comments
08/01/20	New policy, approved July 14, 2020. Policy replaces 7.01.149. AmnioFix added as investigational.
	All other policy statements remain unchanged.
10/01/20	Coding update. Added HCPCS codes Q4249, Q4250, Q4254, Q4255.
05/01/21	Annual Review, approved April 13, 2021. Policy updated with literature review through December
	28, 2020; references added. Affinity added to medically necessary statement for the treatment of
	diabetic foot ulcers; edits made to investigational statement on human amniotic products.
10/01/21	Coding update, Added HCPCS codes Q4251, Q4252 and Q4253.
1/1/2022	Coding update, Added HCPCS codes A2001 and Q4199.
05/01/22	Annual Review, approved April 12, 2022. Policy updated with literature review through January 3,
	2022; references added. Added investigational statement for treatment following Mohs
	microsurgery and all other human amniotic products not listed. Modified medically necessary
	statement for ophthalmic conditions to a general statement rather than listing specific
	indications. Removed code A2001 InnovaMatrix AC (new code effective 1/1/22) as it was moved
	to policy 7.01.113 since it is a skin substitute. Added new CPT codes Q4224, Q4225, Q4256,
	Q4257, and Q4258. Added new product names AmnioBind, Relese, MLG-CompleteTM, and
	Enverse.
07/01/22	Coding update. Added HCPC codes Q4259, Q4260 and Q4261.
12/01/22	Coding update. Added AmnioFix as it was inadvertently deleted in error.
01/01/23	Coding update. Added new HCPC codes Q4236, Q4262, Q4263, & Q4264.
04/01/23	Coding update. Removed Derm-maxx name from product table. Added new HCPC codes Q4265,
	Q4266, Q4267, Q4268, Q4269, Q4270, Q4271. Added product names NeoStim DL, NeoStim TL,
	NeoStim membrane, SurGraft FT, SurGraft XT, Complete FT, and Complete SL.
05/01/23	Annual Review, approved April 10, 2023. Policy updated with literature review through January 20,
	2023; no references added. Policy statements unchanged. Changed the wording from "patient" to
	"individual" throughout the policy for standardization. Removed Surgenex from product table.
07/01/23	Coding update. Added new HCPCS codes Q4272, Q4273, Q4274, Q4275, Q4276, Q4277, Q4278,
	Q4280, Q4281, Q4282, Q4283, Q4284.
10/01/23	Coding update. Added new HCPCS codes Q4285 and Q4286.
01/01/24	Coding update. Added new HCPCS codes Q4279 and Q4287-Q4304.
04/01/24	Coding Update. Added new HCPCS codes Q4305-Q4310 and termed HCPCS code Q4244.
05/22/24	Coding Update. Added new HCPCS codes Q4311, Q4312, Q4313, Q4314, Q4315, Q4316, Q4317,
	Q4318, Q4319, Q4320, Q4321, Q4322, Q4323, Q4324, Q4325, Q4326, Q4327, Q4328, Q4329,
	Q4330, Q4331, Q4332, Q4333,



Date	Comments
06/01/24	Annual Review, approved May 23, 2024. Policy updated with literature review through January 3, 2024; reference added. Policy statements unchanged. HCPCS code Q4228 termed 10/01/2021.
07/01/24	Coding update. Termed HCPCS codes Q4210 and Q4277.

Disclaimer: This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. The Company adopts policies after careful review of published peer-reviewed scientific literature, national guidelines and local standards of practice. Since medical technology is constantly changing, the Company reserves the right to review and update policies as appropriate. Member contracts differ in their benefits. Always consult the member benefit booklet or contact a member service representative to determine coverage for a specific medical service or supply. CPT codes, descriptions and materials are copyrighted by the American Medical Association (AMA). ©2024 Premera All Rights Reserved.

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Language Assistance

ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al 800-817-3056 (TTY: 711). 注意:如果您使用繁體中文,您可以免費獲得語言援助服務。請致電 800-817-3056 (TTY: 711)。 CHÚ Ý: Nếu bạn nói Tiếng Việt, có các dịch vụ hỗ trợ ngôn ngữ miễn phí dành cho bạn. Gọi số 800-817-3056 (TTY: 711). 주의: 한국어를 사용하시는 경우, 언어 지원 서비스를 무료로 이용하실 수 있습니다. 800-817-3056 (TTY: 711) 번으로 전화해 주십시오. ВНИМАНИЕ: Если вы говорите на русском языке, то вам доступны бесплатные услуги перевода. Звоните 800-817-3056 (телетайп: 711). РАЦИАЖА: Кипд падзазаlita ка пд Тадаlод, тадагі капд дитаті пд тра serbisyo ng tulong sa wika nang walang bayad. Титаwад sa 800-817-3056 (ТТҮ: 711). УВАГА! Якщо ви розмовляєте українською мовою, ви можете звернутися до безкоштовної служби мовної підтримки. Телефонуйте за номером 800-817-3056 (телетайп: 711).

<u>ATTENTION</u>: Si vous parlez français, des services d'aide linguistique vous sont proposés gratuitement. Appelez le 800-817-3056 (ATS : 711). <u>UWAGA</u>: Jeżeli mówisz po polsku, możesz skorzystać z bezpłatnej pomocy językowej. Zadzwoń pod numer 800-817-3056 (TTY: 711). <u>ATENÇÃO</u>: Se fala português, encontram-se disponíveis serviços linguísticos, grátis. Ligue para 800-817-3056 (TTY: 711).

<u>ATTENZIONE</u>: In caso la lingua parlata sia l'italiano, sono disponibili servizi di assistenza linguistica gratuiti. Chiamare il numero 800-817-3056 (TTY: 711). <u>توجه:</u> اگر به زبان فارسی گفتگو می کنید، تسهیلات زبانی بصورت رایگان برای شما فراهم می باشد. با (TTY: 711) 3056 (TTY: 711 تصاس بگیرید.