

Embolization Treatments, Surgical 235

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All requests for authorization for the services described by this medical policy will be reviewed per Early and Periodic Screening, Diagnostic and Treatment (EPSDT) guidelines. These services may be authorized under individual consideration for Medicaid members under the age of 21-years if the services are judged to be medically necessary to correct or ameliorate the member’s condition. Department of Medical Assistance Services (DMAS), Supplement B - EPSDT (Early and Periodic Screening, Diagnosis and Treatment) Manual.*.

Description & Definitions:

Genicular Artery Embolization (GAE) is a minimally invasive procedure by reducing the blood flow and inflammation to the areas around the knee. Capsular Plication is an arthroscopic procedure to provide a suture and retensioning the ligaments around the joint for greater stability.

Hemorrhoid Artery Embolization (HAE) is a minimally invasive procedure, performed by an interventional radiologist, to treat hemorrhoids without surgery. HAE uses the femoral or radial artery approach to access and block the arteries blood supply to the hemorrhoids.

Ovarian Vein Embolization is a procedure used to help resolve a painful condition called pelvic congestion syndrome.

Plantar Fasciitis Embolization (PFE) is a minimally invasive procedure which uses a catheter into the blood vessels to inject microparticles to block blood flow to an area and reducing pain.

Varicocele embolization is a procedure used to block blood flow in a painful enlarged vein in a man’s scrotum.

Transarterial Embolization therapies include, Transarterial Chemo Embolization (TACE), Transarterial Embolization (TAE) and Drug-Eluting Beads Transarterial Chemotherapy Embolization (DEB-TACE). These involve the insertion of a catheter directly in the artery and use of agents to inhibit and block the blood flow supplying the tumor. This can be done with or without, chemotherapy, drug-eluting beads or RE microspheres.

Shoulder Adhesive Capsulitis Embolization - targets the underlying inflammatory process through reduction of neo-angiogenesis and nerve stimulation, TAE aims to achieve meaningful pain relief

Criteria:

Embolization is medically necessary for **1 or more** of the following:

- **Genicular Artery Embolization (GAE)** is medically necessary for **1 or more** of the following:

- Knee hemarthrosis following total knee arthroplasty for **ALL** of the following:
 - Failed Conservative Therapy and **1 or more** of the following:
 - Ice
 - Immobilization
 - Compression
 - Saline lavage
 - Corticosteroid instillation
 - Selective COX-2 inhibitors
 - Demonstrated synovial hyper-vascularity on angiography
- Reduce tumor vascularity about the knee preoperatively in preparation for tumor resection about the knee
- Reduce tumor bulk in inoperable cases of tumors around the knee
- **Ovarian Vein Embolization** is considered medically necessary for pelvic congestion syndrome (PCS) with **ALL** of the following:
 - Individual with a definitive diagnostic venography, computerized tomography (CT) scan, or Magnetic resonance imaging (MRI)
 - Individual with failed trial of appropriate pharmacotherapy
- **Varicocele Embolization** (balloon or metallic coil) for the treatment a varicocele in a male with **1 or more** of the following:
 - Individual with recurrence of varicoceles post surgical (ligation)
 - Individual is an adolescent with grade 2 or 3 varicocele related to ipsilateral testicular growth restriction
 - Individual with scrotal pain associated with varicoceles
 - Individual with infertility problems with ALL of the following:
 - Lower sperm concentration
 - Decreased sperm motility
- **Transarterial Embolization Direct Therapies** (TAE, TACE and DEB-TACE) are considered medically necessary for **1 or more** of the following indications:
 - Neuroendocrine tumors for individuals with **1 more of the following**:
 - Neuroendocrine tumors (carcinoid tumors, pancreatic tumors) with hepatic metastases when systemic therapy has failed to control symptoms such as carcinoid syndrome (debilitating flushing, wheezing, and diarrhea)
 - Symptoms from non-carcinoid neuroendocrine tumors with hepatic metastases (hypoglycemia, severe diabetes, Zollinger-Ellison Syndrome)
 - Symptoms due to hepatic tumor bulk (pain)
 - Hepatocellular Carcinoma or Bridge to Liver Transplantation for individuals for **1 more of the following**:
 - As primary treatment for surgically unresectable primary hepatocellular carcinoma (HCC)
 - As a palliative treatment for unresectable hepatocellular carcinoma when there are significant symptoms (e.g., pain) related to tumor bulk
 - As a bridge to liver transplantation
 - Metastatic Disease of the Liver for individuals for **1 more of the following**:
 - Palliative treatment for symptoms from metastatic disease of the liver related to tumor bulk (pain)
 - Treatment for liver-only metastasis from uveal melanoma
- **Embolization for shoulder joint pathology** is considered medically necessary for **1 or more** of the following:
 - Individuals with hemarthrosis
 - Individuals with adhesive capsulitis (frozen shoulder) with **ALL** of the following:
 - Physical exam consistent with adhesive capsulitis
 - Plain X-ray excludes other diagnosis
 - Failure of ≥ 3 months of conservative therapy as evidence by **1 or more** of the following:
 - topical or oral anti-inflammatory medications
 - steroid injection
 - physical therapy/ home exercise program

Genicular Artery Embolization (GAE) is considered **not medically necessary** for any use other than those indicated in clinical criteria, to include but not limited to:

- for the treatment of osteoarthritis-related knee pain

Hemorrhoid Artery Embolization (HAE): Current role remains uncertain, based on review of existing evidence, there are currently no clinical indications for this technology. Therefore, not medically necessary for any clinical indications.

Ovarian Vein Embolization is considered not medically necessary for any use other than those indicated in clinical criteria.

Plantar Fasciitis Embolization (PFE): Current role remains uncertain, based on review of existing evidence, there are currently no clinical indications for this technology. Therefore, not medically necessary for any clinical indications.

Varicocele Embolization is considered not medically necessary for any use other than those indicated in clinical criteria.

Transarterial Embolization Direct Therapies including Transarterial Chemo Embolization (TACE), Transarterial Embolization (TAE) and Drug-Eluting Beads Transarterial Chemotherapy Embolization (DEB-TACE) are considered **not medically necessary** for the following contraindications:

- Ascites
- Aspartate aminotransferase >100 unit/L
- Cardiac or renal insufficiency
- For individuals with any of the following conditions:
 - Biliary obstruction
 - Breast cancer
 - Cervical cancer
 - Colon cancer
 - Down staging therapy to reduce tumor burden for liver cancer
 - Encephalopathy
 - Liver metastases from other non-neuroendocrine primaries (e.g., colon cancer, melanoma, or unknown primaries)
 - Palliative treatment of either primary or secondary malignant disease of the liver that is not associated with a specific liver-related symptom
 - Portal vein thrombosis
 - Rhabdomyosarcoma
 - Unknown primary tumors
- Lactate dehydrogenase >425 unit/L
- Leiomyosarcoma
- Recent variceal bleed
- Serum bilirubin >3 mg/dL
- Significant thrombocytopenia
- Tumor burden involving >50 percent of the liver

There is insufficient scientific evidence to support the medical necessity of Transarterial Embolization Direct Therapies - Transarterial Chemo Embolization (TACE), Transarterial Embolization (TAE) and Drug-Eluting Beads Transarterial Chemotherapy Embolization (DEB-TACE) for uses other than those listed in the clinical indications for procedure section.

Embolization for shoulder joint pathology is considered not medically necessary for any use other than those indicated in clinical criteria.

Document History:

Revised Dates:

- 2026: Feb – Implementation date of June 1, 2026. Add criteria for Shoulder Embolization.
- 2026: Jan – Merge Medical 139

Reviewed Dates:

Coding:

Medically necessary with criteria:

Coding	Description
37241	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; venous, other than hemorrhage (eg, congenital or acquired venous malformations, venous and capillary hemangiomas, varices, varicoceles)
37242	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; arterial, other than hemorrhage or tumor (eg, congenital or acquired arterial malformations, arteriovenous malformations, arteriovenous fistulas, aneurysms)
37244	Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; for arterial or venous hemorrhage or lymphatic extravasation
75894	Transcatheter therapy, embolization, any method, radiological supervision and interpretation

Considered Not Medically Necessary:

Coding	Description
28899	unlisted procedure, foot or toes

The preceding codes for treatments and procedures applicable to this policy are included above for informational purposes only. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy.

Policy Approach and Special Notes: *

- Coverage
 - See the appropriate benefit document for specific coverage determination. Member specific benefits take precedence over medical policy.
- Application to products
 - Policy is applicable to Sentara Health Plan Virginia Medicaid products.
- Authorization requirements
 - Pre-certification by the Plan is required.
- Special Notes:
 - Medicaid
 - This medical policy express Sentara Health Plan's determination of medically necessity of services, and they are based upon a review of currently available clinical information. These policies are used when no specific guidelines for coverage are provided by the Department of Medical Assistance Services of Virginia (DMAS). Medical Policies may be superseded by state Medicaid Plan guidelines. Medical policies are not a substitute for clinical judgment or for any prior authorization requirements of the health plan. These policies are not an explanation of benefits.
 - Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving and these medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.

- The Early and Periodic Screening, Diagnostic and Treatment (EPSDT) covers services, products, or procedures for children, if those items are determined to be medically necessary to “correct or ameliorate” (make better) a defect, physical or mental illness, or condition (health problem) identified through routine medical screening or examination, regardless of whether coverage for the same service or support is an optional or limited service under the state plan. Children enrolled in the FAMIS Program are not eligible for all EPSDT treatment services. All requests for authorization for the services described by this medical policy will be reviewed per EPSDT guidelines. These services may be authorized under individual consideration for Medicaid members under the age of 21-years if the services are judged to be medically necessary to correct or ameliorate the member’s condition. [EPSDT Supplement B \(updated 5.19.22\) Final.pdf](#)
- Service authorization requests must be accompanied by sufficient clinical records to support the request. Clinical records must be signed and dated by the requesting provider within 60 days of the date of service requested.

References:

References used include but are not limited to the following: Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; UpToDate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

(2025, Jan 25). Retrieved Feb 03, 2026, from MCG 29th Edition:
<https://careweb.careguidelines.com/ed29/index.html>

(2026). Retrieved Feb 03, 2026, from Hayes - a symplr company:
<https://evidence.hayesinc.com/search?q=%2527B%2522text%2522:%2522adhesive%2520capsulitis%2522,%2522title%2522:null,%2522termsource%2522:%2522pubmedchecker%2522,%2522page%2522:%2527B%2522page%2522:0,%2522size%2522:50%2527D,%2522type%2522:%2522all%2522,%2522so>

(2026). Retrieved Feb 03, 2026, from Centers for Medicare and Medicaid Services:
<https://www.cms.gov/medicare-coverage-database/search-results.aspx?keyword=Shoulder&keywordType=starts&areald=s53&docType=NCA,CAL,NCD,MEDCAC,TA,MCD,6,3,5,1,F,P&contractOption=all&smartSearch=N&sortBy=relevance>

(2026). Retrieved Feb 04, 2026, from Virginia Department of Medical Assistance Services:
<https://vamedicaid.dmas.virginia.gov/manuals/provider-manuals-library#gsc.tab=0&gsc.q=Embolization&gsc.sort=>

(2026). Retrieved Feb 04, 2026, from Google - Specialty Guideline Search:
[https://www.google.com/search?q=adhesive+capsulitis+embolization+\(ACE\)+clinical+guidelines&sca_esv=3184b47af171a3f6&rlz=1C1GCEJ_enUS1093US1093&sxsrf=ANbL-n43RKgyMiVoGzQwbWuHgWjTo-ghdA:1770218825706&ei=SWWDaY3kKv7m5NoPnJOyYA&start=10&sa=N&sstk=Af77f_c9IBhT](https://www.google.com/search?q=adhesive+capsulitis+embolization+(ACE)+clinical+guidelines&sca_esv=3184b47af171a3f6&rlz=1C1GCEJ_enUS1093US1093&sxsrf=ANbL-n43RKgyMiVoGzQwbWuHgWjTo-ghdA:1770218825706&ei=SWWDaY3kKv7m5NoPnJOyYA&start=10&sa=N&sstk=Af77f_c9IBhT)

21 CFR Part 878 Subpart E. (2026). Retrieved Feb 04, 2026, from Code of Federal Regulations:
<https://www.ecfr.gov/current/title-21/part-878/subpart-E>

Improving Standards for Embolization of Adhesive Capsulitis. (2025, Nov 04). Retrieved Feb 04, 2026, from Cardiovascular and Interventional Radiological Society of Europe:
https://www.researchgate.net/publication/399133410_Improving_Standards_for_Embolization_of_Adhesive_Capsulitis

Karns, J., Musa, A., Kayali, F., & Harb, A. (2024). ADHESIVE CAPSULITIS EMBOLIZATION: A TECHNIQUE FOR THE FUTURE. Retrieved Feb 04, 2026, from Spartan Medical Research Journal:
<https://smrj.scholasticahq.com/article/123115-adhesive-capsulitis-embolization-a-technique-for-the-future>

NCD: Therapeutic Embolization (20.28). (1978, Dec 15). Retrieved Feb 03, 2026, from Centers for Medicare and Medicaid Services: <https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?ncdid=52&ncdver=1&keyword=embolization&keywordType=starts&areald=s53&docType=NCA,CAL,NCD,MEDCAC,TA,MCD,6,3,5,1,F,P&contractOption=all&sortBy=relevance&bc=1>

Peripheral Vascular Intervention. (2026, Apr 01). Retrieved Feb 03, 2026, from Cigna Healthcare:
https://www.evicore.com/sites/default/files/clinical-guidelines/2025-12/Cigna_PVI%20Guidelines_V1.0.2026_Eff04.01.2026_pub12.19.2025.pdf

Transarterial Embolization for Adhesive Capsulitis of the Shoulder: Midterm Outcomes on Function and Pain Relief. (2024, Apr). Retrieved Feb 04, 2026, from Journal of Vascular and Interventional Radiology:
[https://www.jvir.org/article/S1051-0443\(24\)00003-4/abstract](https://www.jvir.org/article/S1051-0443(24)00003-4/abstract)

Vascular Embolization and Occlusion Procedures 2024-11-01. (2025, Apr 21). Retrieved Feb 03, 2026, from Carelon Medical Benefits Management: <https://guidelines.carelonmedicalbenefitsmanagement.com/vascular-embolization-occlusion-2024-11-01/>

Keywords:

Endometrial Ablation, SHP Surgical 15, uterine bleeding, Menorrhagia, Hormonal therapy, Dilation and curettage, D&C, Pap smear, gynecologic examination, cervical disease, endometrial resection, electrosurgical ablation, thermoablation, hydrothermal endometrial ablation (HTEA), Thermal balloon endometrial ablation (TBEA), Microwave Endometrial Ablation (MEA), cryoablation, electrosurgical ablation, laser