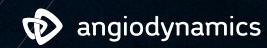




2024 Coding and
Reimbursement Guidelines
for The AlphaVac Multipurpose Mechanical
Aspiration (MMA) System
EFFECTIVE APRIL 1, 2024





MULTIPURPOSE MECHANICAL ASPIRATION

AngioDynamics' AlphaVac Multipurpose Mechanical Aspiration (MMA) F22²⁰ and F22¹⁸⁰ System Indications for Use:

- the non-surgical removal of thrombi or emboli from the vasculature.
- aspiration of contrast media and other fluids from the vasculature.

The Cannula is intended for use in the venous system.

AlphaVac MMA F1885 System Indications for Use:

- the non-surgical removal of thrombi or emboli from the vasculature
- aspiration of contrast media and other fluids from the vasculature

The Cannula is intended for use in the venous system and for the treatment of pulmonary embolism.

The Handle is indicated as a vacuum source for the AlphaVac Multipurpose Mechanical Aspiration System.

The information in the following pages is general reimbursement information only and is intended to assist you to comply with complex and changing reimbursement policies. It is not legal advice, nor is it advice about how to code, complete, or submit any particular claim for payment. It is not intended to increase or maximize reimbursement by any third-party payor. This information has been gathered from third-party sources and was correct at the time of publication. It is subject to change without notice. It is the provider's responsibility to exercise independent clinical judgment to determine appropriate coding and charges that accurately reflect all the patient's conditions and services provided. These conditions and services must be recorded in the patient's medical records. All devices should be used consistently with FDA approvals or clearances. The information provided here is intended for informational purposes only and represents no statement, promise or guarantee by AngioDynamics concerning levels of reimbursement, payment, or charges. Payors may have different coding and reimbursement requirements. Providers should contact the payor to confirm current requirements and policies when needed. All decisions related to reimbursement, including amounts to bill, are exclusively that of the provider. The following tables provide only examples of hospital MS-DRGs and payment levels. They are not an all-inclusive list of MS-DRGs and payment levels that may apply to procedures using the AlphaVac System.

CPT® Codes for Physician Payment (January 2024 – December 2024)

Current Procedural Terminology (CPT®) Codes are used to document the procedures or medical services healthcare professionals provide. The listed CPT® codes in the table below are examples that may apply to percutaneous peripheral vascular interventions. Coding for the physician procedures varies widely, and must accurately reflect the services provided, especially if a combination of procedures is needed to treat a patient's specific needs.

| CPT® | CPT® Description ¹ | Physician Fee Schedule ² | | | | |
|-------------------|---|-------------------------------------|-----------|----------|----------|--|
| Code ¹ | CF1@ Description | Non-Facility | | Facility | | |
| | | RVUs | Fee | RVUs | Fee | |
| 37187 | Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance | 49.67 | \$1,653.3 | 11.45 | \$381.14 | |
| 37188 | Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance, repeat treatment on subsequent day during course of thrombolytic therapy | 42.55 | \$1,416.3 | 8.19 | \$272.62 | |

(NOTE: Do not report 37187 or 37188 in conjunction with 76000, 96375).

HCPCS Codes

Healthcare Common Procedure Coding System (HCPCS) codes were developed to help categorize, document, and track the use of products, supplies, and services. While HCPCS codes do not generally result in additional payment, it is important for providers to use HCPCS codes as CMS uses the data collected from the codes and associated charges to help determine future payment rates. The HCPCS codes listed below may be used for AlphaVac System supplies used during percutaneous peripheral vascular interventions.

| Example of HCPCS Code ³ | | | | |
|------------------------------------|------------------------------------|--|--|--|
| HCPCS code | Code Description | AlphaVac Product/Item Number | | |
| | | AlphaVac System with F22 ²⁰ Cannula/H787253000 | | |
| C1757 | Catheter, thrombectomy/embolectomy | AlphaVac System with F22 ¹⁸⁰ Cannula/H787253010 | | |
| | | AlphaVac System with F1885 Cannula/H787253020 | | |

Codes for Physician and Outpatient Procedures for the Treatment of Pulmonary Embolism* (April 1, 2024 – Dec 31, 2024)

| Medicare 2024 National Average Payment (Not Geographically Adjusted) | | | | | | | |
|--|--|-------------------------------------|------------|-----------------------|----------|------------------------------------|--------------|
| Service Provided | | Physician Fee Schedule ² | | | | Hospital OPPS Payment ³ | |
| CPT ® | CPT [®] Description (Procedure | Non-Facility | | Non-Facility Facility | | APC | Payment |
| Code ¹ | Codes) ^{1,13} | RVU | Payment | RVU | Payment | (Status Indicator) | rayment |
| 37184 | Primary percutaneous transluminal mechanical thrombectomy, noncoronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); initial vessel | 50.25 | \$1,672.7 | 12.55 | \$417.76 | 5194 (J1) ⁵ | \$16,707.31 |
| +37185 | Primary percutaneous transluminal mechanical thrombectomy, noncoronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); second and all subsequent vessel(s) within the same vascular family (List separately in addition to code for primary mechanical thrombectomy procedure) | 13.95 | \$464.36 | 4.74 | \$157.78 | N/A | Packaged (N) |
| +37186 | Secondary percutaneous transluminal thrombectomy (eg, nonprimary mechanical, snare basket, suction technique), noncoronary, nonintracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injections, provided in conjunction with another percutaneous intervention other than primary mechanical thrombectomy (List separately in addition to code for primary procedure) | 34.83 | \$1,159.40 | 7.1 | \$236.34 | N/A | Packaged (N) |

^{*}The AlphaVac MMA F1885 System is intended for use in the venous system and for the treatment of pulmonary embolism.

ICD-10-PCS Hospital Procedure Code(s)

Hospitals should ensure their coding is based on the most recent and up-to-date ICD-10-PCS codes. There are several sections of the ICD-10-PCS system which may be available to describe procedures associated with the AlphaVac System. The listed ICD-10-PCS procedure codes are examples of codes that may apply to venous extirpation procedures. Each ICD-10-PCS may be grouped under a Medicare Severity-Diagnosis Related Group (MS-DRGs). If significant additional procedures are performed during the same inpatient admission, other MS-DRGs may apply.

| ICD-10-PCS4 | ICD-10-PCS Descriptor ⁴ | MS-DRG Numbers5 | MS-DRG Category Descriptor5 |
|-------------|--|--------------------|---|
| 06C03ZZ | Extirpation of Matter from Inferior Vena Cava, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| | | 163, 164, 165 | MAJOR CHEST PROCEDURES |
| 02CV3ZZ | Extirpation of Matter from Superior Vena | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| 020 \$ 322 | Cava, Percutaneous Approach | 907, 908, 909 | OTHER O.R. PROCEDURES FOR INJURIES |
| | | 957, 958, 959 | OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA |
| 02CJ3ZZ | Extirpation of Matter from Tricuspid Valve, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| 02C63ZZ | Extirpation of Matter from Right Atrium, Percutaneous Approach | 228, 229 | OTHER CARDIOTHORACIC PROCEDURES |
| 02CK3ZZ | Extirpation of Matter from Right Ventricle, Percutaneous Approach | 228, 229 | OTHER CARDIOTHORACIC PROCEDURES |
| 06C93ZZ | Extirpation of Matter from Right Renal Vein, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| | | 673, 674, 675 | OTHER KIDNEY & URINARY TRACT PROCEDURE |
| 06CB3ZZ | Extirpation of Matter from Left Renal Vein, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| | | 673, 674, 675 | OTHER KIDNEY & URINARY TRACT PROCEDURE |
| 06CC3ZZ | Extirpation of Matter from Right Common Iliac Vein, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| 06CD3ZZ | Extirpation of Matter from Left Common Iliac Vein, Percutaneous Approach | 270, 271, 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES |
| 02CP3ZZ | Extirpation of Matter from Pulmonary Trunk, Percutaneous Approach | 163, 164, 165 | DISEASES AND DISORDERS OF THE RESPIRATORY SYSTEM |
| | | 270, 271, 272 | DISEASES AND DISORDERS OF THE CIRCULATORY SYSTEM |
| 02CQ3ZZ | Extirpation of Matter from Right Pulmonary Artery, Percutaneous Approach | 163, 164, 165 | DISEASES AND DISORDERS OF THE RESPIRATORY SYSTEM |
| | | 270, 271, 272 | DISEASES AND DISORDERS OF THE CIRCULATORY SYSTEM |
| 0200277 | Extirpation of Matter from Left Pulmonary | 163, 164, 165 | DISEASES AND DISORDERS OF THE |
| 02CR3ZZ | Artery, Percutaneous Approach | 270, 271, 272 | RESPIRATORY SYSTEM |

Medicare Severity Diagnoses Related Groups (October 2023 – September 2024)

The following MS-DRGs may apply to percutaneous peripheral vascular interventions for Medicare patients depending on the ICD-10-PCS code used. ICD-10-PCS codes can group into different MS-DRGs depending upon all procedures performed and the patient's diagnoses. This chart presents examples of MS-DRGs and associated payment amounts for Medicare patients in 2024 (effective October 1, 2023). Payment amounts are based on a National Operating and Capital amount for $2024 = \$7,001.60^7$.

| Examples | Examples of Diagnosis Related Group (DRG) Codes & Base Rates | | | |
|-------------------------------|--|---------------------|----------------------|--|
| MS-DRG Number ⁵ | MS-DRG Descriptor ⁵ | Weight ⁶ | Payment ⁶ | |
| 163 | MAJOR CHEST PROCEDURES WITH MCC | 4.7136 | \$33,002.74 | |
| 164 | MAJOR CHEST PROCEDURES WITH CC | 2.5504 | \$17,856.88 | |
| 165 | MAJOR CHEST PROCEDURES WITHOUT CC/MCC | 1.8764 | \$13,137.80 | |
| 228 | OTHER CARDIOTHORACIC PROCEDURES W MCC | 5.0387 | \$32,278.96 | |
| 229 | OTHER CARDIOTHORACIC PROCEDURES W/O MCC | 3.1796 | \$22,262.29 | |
| 270 | OTHER MAJOR CARDIOVASCULAR PROCEDURES WITH MCC | 5.0569 | \$35,406.39 | |
| 271 | OTHER MAJOR CARDIOVASCULAR PROCEDURES WITH CC | 3.4562 | \$24,198.93 | |
| 272 | OTHER MAJOR CARDIOVASCULAR PROCEDURES WITHOUT CC/MCC | 2.4395 | \$17,080.40 | |
| 673 | OTHER KIDNEY & URINARY TRACT PROCEDURES W MCC | 3.6980 | \$25,891.92 | |
| 674 | OTHER KIDNEY & URINARY TRACT PROCEDURES W CC | 2.3822 | \$16,679.21 | |
| 675 | OTHER KIDNEY & URINARY TRACT PROCEDURES W/O CC/MCC | 1.5865 | \$11,108.04 | |
| 907 | OTHER O.R. PROCEDURES FOR INJURIES WITH MCC | 3.7195 | \$26,042.45 | |
| 908 | OTHER O.R. PROCEDURES FOR INJURIES WITH CC | 2.0041 | \$14,031.91 | |
| 909 | OTHER O.R. PROCEDURES FOR INJURIES WITHOUT CC/MCC | 1.3563 | \$9,496.27 | |
| 957 | OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W MCC | 7.2325 | \$50,639.07 | |
| 958 | OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W CC | 4.0448 | \$28,320.07 | |
| 959 | OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC | 2.5324 | \$17,730.85 | |

ICD-10-CM Diagnosis Code(s)

Diagnosis codes should accurately reflect the patient's medical condition, should be reported in the patient's medical records, and should be consistent with payor requirements.

| General Classes of ICD-10-CM Diagnosis Codes ⁷ | |
|---|--------------------------------------|
| I82. | Other venous embolism and thrombosis |

| Examples o | of ICD-10-CM Diagnosis Code(s) ⁷ |
|------------|---|
| Code | Code Description |
| I82.220 | Acute embolism and thrombosis of inferior vena cava |
| I82.210 | Acute embolism and thrombosis of superior vena cava |
| I82.290 | Acute embolism and thrombosis of other thoracic veins |
| I82.441 | Acute embolism and thrombosis of right tibial vein |
| I82.442 | Acute embolism and thrombosis of left tibial vein |
| I82.443 | Acute embolism and thrombosis of tibial vein, bilateral |
| I82.449 | Acute embolism and thrombosis of unspecified tibial vein |
| I82.491 | Acute embolism and thrombosis of other specified deep vein of right lower extremity |
| I82.492 | Acute embolism and thrombosis of other specified deep vein of left lower extremity |
| I82.493 | Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral |
| I82.499 | Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity |
| I82.4Z1 | Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity |
| I82.4Z2 | Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity |
| I82.4Z3 | Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral |
| I82.4Z9 | Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity |
| I82.890 | Acute embolism and thrombosis of other specified veins |
| I82.90 | Acute embolism and thrombosis of unspecified vein |

| I26. Pulmonary embolism | General Classes of ICD-10-CM Diagnosis Codes ⁷ | |
|---------------------------------------|---|--------------------|
| · · · · · · · · · · · · · · · · · · · | I26. | Pulmonary embolism |

| Examples | Examples of ICD-10-CM Diagnosis Code(s) ⁷ | | |
|----------|--|--|--|
| Code | Code Description | | |
| I26.0 | Pulmonary embolism with acute cor pulmonale | | |
| I26.01 | Septic pulmonary embolism with acute cor pulmonale | | |
| I26.02 | Saddle embolus of pulmonary artery with actue cor pulmonale | | |
| I26.09 | Other pulmonary embolism with acute cor pulmonale | | |
| I26.9 | Pulmonary embolism without acute cor pulmonale | | |
| I26.90 | Septic pulmonary embolism without acute cor pulmonale | | |
| I26.92 | Saddle embolus of pulmonary artery without acute cor pulmonale | | |
| I26.93 | Single subsegmental pulmonary embolism without acute cor pulmonale | | |
| I26.94 | Multiple subsegmental pulmonary embolism without acute cor pulmonale | | |
| I26.99 | Other pulmonary embolism without acute cor pulmonale | | |

References

- CPT © 2023 Professional. American Medical Association (AMA). All rights reserved. CPT® is a registered trademark of the AMA. No fee schedules, basic units, relative values or related listings are included in CPT® including for Category 3 codes. Inclusion of a CPT® code does not represent AMA endorsement or imply any coverage or reimbursement policy. Reimbursement information here is from the Centers for Medicare and Medicaid Services (CMS), see sources below. Applicable FARS/DFARS restrictions apply to Government Use.
- Physician fee schedule rates were calculated using Conversion Factor (32.7375) multiplied by Total Facility & Non-Facility RVUs. CMS, CMS 1784-F: Medicare and Medicaid Programs; CY2024 Payment Policies under the Physician Fee Schedule and Other Changes to Part B Payment and Coverage Policies; Medicare Shared Savings Program Requirements; Medicare Advantage; Medicare and Medicaid Provider and Supplier Enrollment Policies; and Basic Health Program https://public-inspection.federalregister.gov/2023-24184.pdf. Published November 16, 2023. Effective January 1, 2024. Accessed December 4, 2023.
- AAPC. 2022 HCPCS Level II Expert: Service Supply Codes for Caregivers and Suppliers. American Academy of Professional Coders; 2021.
- 4. CMS, 2023 ICD-10 Procedure Coding System (ICD-10-PCS). https://www.cms.gov/medicare/coding-billing/icd-10-pcs. Accessed September 14, 2023
- 5. AAPC Codify, Cross-Reference "ICD-10-PCS MS-DRG" Accessed August 23, 2021.
- 6. CMS, [CMS-1785-F] 2024 Medicare Hospital Inpatient Prospective Payment System (IPPS) Final Rule; Federal Register. https://www.cms.gov/medicare/payment/prospective-payment-systems/acute-inpatient-pps/fy-2024-ipps-final-rule-home-page. Accessed September 14, 2023. Payment is calculated based on the national adjusted standardized amount \$7,001.60. Actual Medicare payment rates will vary from adjustments by Wage Index and Geographic Adjustment Factor depending on geographic locality. Also note that any applicable coinsurance, deductible, and other amounts that are patient obligations are included in the payment amount shown.
- Centers for Disease Control and Prevention (CDC), National Center for Health Statistics (NCHS). 2022 release
 of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM).
 https://www.cdc.gov/nchs/icd/icd-10-cm.htm. Updated June 29, 2023. Accessed September 14, 2023.

Frequently Asked Questions

- Q. Is the AlphaVac Multipurpose Mechanical Aspiration (MMA) System FDA cleared?
- **A.** Yes, FDA clearance was granted on June 4, 2021 for the AlphaVac Multipurpose Mechanical Aspiration (MMA) System F22²⁰ and F22¹⁸⁰. The AlphaVac Multipurpose Mechanical Aspiration (MMA) System F18⁸⁵ was cleared by FDA on April 4, 2022. The AlphaVac Multipurpose Mechanical Aspiration (MMA) System F18⁸⁵ was expanded to include the treatment of pulmonary embolism on April 1, 2024.

AlphaVac F22²⁰ and F22¹⁸⁰: https://www.accessdata.fda.gov/cdrh_docs/pdf21/K211081.pdf AlphaVac F18⁸⁵: https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm?ID=K240397

- Q. What is the AlphaVac System's intended use?
- A. AlphaVac F22²⁰ and F22¹⁸⁰ Multipurpose Mechanical Aspiration (MMA) System is indicated for the non-surgical removal of:
 - thrombi or emboli from the vasculature
 - aspiration of contrast media and other fluids from the vasculature.

The Cannula is intended for use in the venous system.

The Handle is indicated as a vacuum source for the AlphaVac Multipurpose Mechanical Aspiration System.

AlphaVac MMA F1885 System is indicated for the non-surgical removal of:

- thrombi or emboli from the vasculature
- aspiration of contrast media and other fluids from the vasculature

The Cannula is intended for use in the venous system and for the treatment of pulmonary embolism.

The Handle is indicated as a vacuum source for the AlphaVac Multipurpose Mechanical Aspiration System.

- Q. What is the procedure code when the AlphaVac System is used for the removal of thrombus from the venous system?
- A. There are specific CPT® codes available for physicians to bill for percutaneous venous transluminal mechanical thrombectomy (37187 37188).

For inpatient facility coding, there are ICD-10 PCS codes available to describe the percutaneous extirpation of matter, based on location.

- Q. How should hospitals code when the AlphaVac System is used?
- **A.** Coding for use of the AlphaVac System will depend on how it is used, described in the documentation, and consistent with payor requirements.
- Q. What if I need additional assistance? Who should I contact?
- **A.** If you have questions or require additional resources, email the Reimbursement Support team at reimbursement@angiodynamics.com.

Risk Information

AlphaVac MMA $F22^{20}$ and $F22^{180}$ System Indications for Use:

The Cannula is indicated for:

- the non-surgical removal of thrombi or emboli from the vasculature
- aspiration of contrast media and other fluids from the vasculature.

The Cannula is intended for use in the venous system.

The Handle is indicated as a vacuum source for the AlphaVac Multipurpose Mechanical Aspiration System. Contraindications: Contraindications: The following contraindications are applicable: -The device is contraindicated in the removal of chronic firmly adherent intravascular material (e.g., atherosclerotic plaque, chronic pulmonary embolism). -The device is contraindicated for use in the right heart during active cardiopulmonary resuscitation. -The device is contraindicated for blood storage and infusion back into the patient.

AlphaVac MMA ${\rm F}18^{85}$ System Indications for Use:

The Cannula is indicated for:

- the non-surgical removal of thrombi or emboli from the vasculature
- aspiration of contrast media and other fluids from the vasculature

The Cannula is intended for use in the venous system and for the treatment of pulmonary embolism.

The Handle is indicated as a vacuum source for the AlphaVac Multipurpose Mechanical Aspiration System.

Contraindications: The following contraindications are applicable: -The device is contraindicated in the removal of chronic firmly adherent intravascular material. -The device is contraindicated for use in the right heart or pulmonary arteries during active cardiopulmonary resuscitation. -The device is contraindicated for blood storage and infusion back into the patient.

Refer to Directions for Use and/or User Manual provided with the product for complete Instructions, Warnings, Precautions, Possible Adverse Effects and Contraindications prior to use of the product.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician.

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