

# Neuro Reimbursement Guide

Mechanical Thrombectomy and Embolization

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# **Physician and Outpatient Coding and Payment**

#### Coverage

Medicare carriers issue local coverage decisions (LCDs) listing coverage criteria for certain procedures. Physicians are urged to review their local carrier coverage policies (http://www.cms.hhs.gov/mcd/search.asp?) and/or contact their local carrier medical directors (http://www.cms.hhs.gov/apps/contacts/).

# **Facility Coding and Payment**

#### **ICD-10-PCS** Procedure Codes (hospital inpatient only)

03CG3Z6	Extirpation of Matter from Intracranial Artery, Bifurcation, Percutaneous Approach
03CG3ZZ	Extirpation of Matter from Intracranial Artery, Percutaneous Approach
03CH3Z6	Extirpation of Matter from Right Common Carotid Artery, Bifurcation, Percutaneous Approach
03CH3ZZ	Extirpation of Matter from Right Common Carotid Artery, Percutaneous Approach
03CJ3Z6	Extirpation of Matter from Left Common Carotid Artery, Bifurcation, Percutaneous Approach
03CJ3ZZ	Extirpation of Matter from Left Common Carotid Artery, Percutaneous Approach
03CK3Z6	Extirpation of Matter from Right Internal Carotid Artery, Bifurcation, Percutaneous Approach
03CK3ZZ	Extirpation of Matter from Right Internal Carotid Artery, Percutaneous Approach
03CL3Z6	Extirpation of Matter from Left Internal Carotid Artery, Bifurcation, Percutaneous Approach
03CL3ZZ	Extirpation of Matter from Left Internal Carotid Artery, Percutaneous Approach
03CM3Z6	Extirpation of Matter from Right External Carotid Artery, Bifurcation, Percutaneous Approach
03CM3ZZ	Extirpation of Matter from Right External Carotid Artery, Percutaneous Approach
03CN3Z6	Extirpation of Matter from Left External Carotid Artery, Bifurcation, Percutaneous Approach
03CN3ZZ	Extirpation of Matter from Left External Carotid Artery, Percutaneous Approach
03CP3Z6	Extirpation of Matter from Right Vertebral Artery, Bifurcation, Percutaneous Approach
03CP3ZZ	Extirpation of Matter from Right Vertebral Artery, Percutaneous Approach
03CQ3Z6	Extirpation of Matter from Left Vertebral Artery, Bifurcation, Percutaneous Approach
03CQ3ZZ	Extirpation of Matter from Left Vertebral Artery, Percutaneous Approach
03HY33Z	Insertion of Infusion Device into Upper Artery, Percutaneous Approach
04HY33Z	Insertion of Infusion Device into Lower Artery, Percutaneous Approach
3E03317	Introduction of Other Thrombolytic into Peripheral Vein, Percutaneous Approach
3E04317	Introduction of Other Thrombolytic into Central Vein, Percutaneous Approach
3E05317	Introduction of Other Thrombolytic into Peripheral Artery, Percutaneous Approach
3E06317	Introduction of Other Thrombolytic into Central Artery, Percutaneous Approach
3E08317	Introduction of Other Thrombolytic into Heart, Percutaneous Approach
B30R0ZZ	Plain Radiography of Intracranial Arteries using High Osmolar Contrast
B30R1ZZ	Plain Radiography of Intracranial Arteries using Low Osmolar Contrast
B30RYZZ	Plain Radiography of Intracranial Arteries using Other Contrast
B30RZZZ	Plain Radiography of Intracranial Arteries
B31R0ZZ	Fluoroscopy of Intracranial Arteries using High Osmolar Contrast
B31R1ZZ	Fluoroscopy of Intracranial Arteries using Low Osmolar Contrast
B31RYZZ	Fluoroscopy of Intracranial Arteries using Other Contrast
B31RZZZ	Fluoroscopy of Intracranial Arteries

## **Facility Coding and Payment**

#### **Mechanical Thrombectomy**

MS-DRG	Description	2020 National DRG Payment
23	Craniotomy with Major Device Implant or Acute CNS PDX with MCC or Chemotherapy Implant or Epilepsy with Neurostimulator	\$35,184
24	Craniotomy with Major Device Implant or Acute Complex CNS PDX w/o MCC	\$25,158
25	Craniotomy and Endovascular Intracranial Procedures with MCC	\$27,526
26	Craniotomy and Endovascular Intracranial Procedures with CC	\$19,078
27	Craniotomy and Endovascular Intracranial Procedures w/o MCC or CC	\$15,012

2020 Inpatient rates in effect from October 1, 2019 – September 30, 2020

#### Charges for the Penumbra System® may be assigned to the following revenue codes:

0270 Medical/surgical supply

0272 Sterile supply

0279 Other supplies/devices

#### **HCPCS**

Product	Suggested HCPCS
Penumbra Reperfusion Catheters	C1887 - Catheter, guiding (may include infusion/perfusion capability)
Penumbra Separators	C1757 - Catheter, thrombectomy/embolectomy
3D™ Revascularization Device	C1757 - Catheter, thrombectomy/embolectomy
Sterile Aspiration Tubing	NONE
Non-Sterile System Supplies	NONE
Delivery Catheters	C1887 - Catheter, guiding (may include infusion/perfusion capability)

HCPCS Codes are not separately reimbursed for hospital inpatient procedures. However, they may be used for tracking or other administration processes.

#### **References & Sources**

 HIPPS (Inpatient) Federal Register / Vol. 84, No. 159 / Friday, August 16, 2019.

 ICD-10-CM 2019 ICD-10-CM Complete Official Codebook. American Medical Association. Copyright ©2019 Optum360, LLC. • ICD-10-PCS 2019 ICD-10-PCS Complete Official Codebook. American Medical Association. Copyright ©2019 Optum360, LLC. • HCPCS HCPCS 2019 Level II Professional Edition. American Medical Association. Copyright ©2019 Optum360, LLC.

<sup>(</sup>M)CC = (major) complications and/or comorbidities. Complete list available at: http://www.cms.hhs.gov/AcuteInpatientPPS Rates reflect FY 2020 National Medicare payment rates for hospitals submitting quality data and meaningful EHR users. Hospitals that do not submit quality data or are not meaningful EHR users may see decreased payment rates.

#### **Intracranial Mechanical Thrombectomy Coding Tips**

Per 2019 AMA CPT® coding guidelines, CPT codes 61645, 61650, and 61651 include selective catheterization, diagnostic angiography, and all subsequent angiography including: associated radiological supervision and interpretation within the treated vascular territory, fluoroscopic guidance, neurologic and hemodynamic monitoring of the patient, and closure of the arteriotomy by manual pressure, an arterial closure device, or suture.

For the purposes of reporting services described by 61645, 61650, and 61651, the intracranial arteries are divided into three vascular territories:

- Right carotid circulation
- Left carotid circulation
- Vertebro-basilar circulation

CPT code 61645 may be reported once for each intracranial vascular territory treated.

CPT code 61650 is reported once for the first intracranial vascular territory treated with intra-arterial prolonged administration of pharmacologic agent(s). If additional intracranial vascular territory(ies) is also treated with intra-arterial prolonged administration of pharmacologic agent(s) during the same session, the treatment of each additional vascular territory(ies) is reported using 61651 (may be reported maximally two times per day).

Do not report CPT codes 61645, 61651, or 61651 in conjunction with CPT codes 36221, 36226, 36228, 37184, or 37186 for the treated vascular territory.

Do not report CPT code 61645 in conjunction with CPT codes 61650 or 61651 for the same vascular distribution.

#### **Physician Payment**

- Based on RBRVS relative weights per CPT code x \$ conversion factor
- · Payments vary based on geographic location

CPT Code	Description	2019 National Medicare Payment <sup>a</sup>
61645	Percutaneous arterial transluminal mechanical thrombectomy and/or infusion for thombolysis, intracranial, any method, including diagnostic angiography, fluoroscopic guidance, catheter placement, and intraprocedural pharmacological thrombolytic injection(s)	\$883.13
61650	Endovascular intracranial prolonged administration of pharmacologic agent(s) other than thrombolysis, arterial, including catheter placement, diagnostic angiography, and imaging guidance; initial vascular territory	\$584.67
61651	Endovascular intracranial prolonged administration of pharmacologic agent(s) other than thrombolysis, arterial, including catheter placement, diagnostic angiography, and imaging guidance; each additional vascular territory (List separately in addition to code for primary procedure)	\$254.85

a. The 2019 physician payment rates are reflective of the Calendar Year 2019 Medicare Physician Fee Schedule (MPFS) Final Rule, which was published in Federal Register, Vol. 83, No. 226, Friday, November 23, 2018. Payments listed are national unadjusted fee schedule rates and are subject to change due to CMS' quarterly fee schedule updates and correction notices. Actual payments to physicians may also vary based on locality.

This list may not be comprehensive or complete. These procedures may be subject to the CMS multiple procedure reduction rule. When applicable, a payment reduction of 50% is applied to all payment amounts except the procedure with the greatest RVUs, which is paid at 100% unless exempt by CPT instructions or payer policy.

#### Modifier 59 - Distinct Procedural Service

- Modifier 59 is used to identify procedures/services, other than Evaluation and Management (E/M) services, normally reported together, but are appropriate under the specific circumstances. These circumstances may be:
  - different session or patient encounter (including different patient encounters on the same day)
  - different procedure or surgery
  - different anatomic sites (such as different organs or in certain instances, different lesions in the same organ)
  - separate incision/excision, separate lesion, or separate injury (or area of injury in extensive injuries) not ordinarily encountered or performed on the same day by the same physician
  - timed services (e.g., codes for which unit of service is a measure of time, such as per hour) provided during the same encounter only when they are performed sequentially
- Modifier 59 should only be used if no other modifier more appropriately describes the relationship of the two procedure codes. For instance, if procedures are performed on different sides of the body, modifiers RT or LT should be used instead of modifier 59.
- Modifier 59 is used inappropriately if the basis for its use is that the narrative description of the two codes is different. Although CPT® code descriptors describe different procedures, footnotes in the 2018 CPT manual instructions may still prohibit certain procedures from being billed together.

#### Examples of appropriate uses of modifier 59 and National Correct Coding Initiative (NCCI) guidelines:

Example	NCCI Guidelines
Failed percutaneous vascular procedure followed by an open procedure by the same physician at the same patient encounter	Only the HCPCS/CPT code for the completed procedure may be reported.
Percutaneous procedure performed on one lesion with a similar open procedure performed on a separate lesion	The HCPCS/CPT code for the percutaneous procedure may be reported with modifier 59 only if the lesions are in distinct and separate, anatomically defined vessels.
Similar open and percutaneous procedures are performed on different lesions in the same anatomically defined vessel	Only the open procedure may be reported.
A diagnostic procedure is performed preceding a therapeutic procedure and the diagnostic procedure is the basis for performing the therapeutic procedure	Modifier 59 may be reported for diagnostic angiography that has not been previously performed and the decision to perform an interventional vascular procedure on the same artery is based on the result of the diagnostic angiography. The 2018 CPT Manual (p448-449) specifies additional criteria under which diagnostic angiography performed at the time of an interventional procedure may be separately reportable with modifier 59.
A diagnostic procedure is performed subsequent to a completed therapeutic procedure	Modifier 59 may be reported for a diagnostic procedure only when the diagnostic procedure is not a common, expected, or necessary follow-up to the therapeutic procedure. For instance, modifier 59 may be reported if, later in the day following a completed therapeutic procedure, a patient develops complications and a diagnostic is performed to rule out infection.

#### **References & Sources**

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 MPFS (Physician) Federal Register / Vol. 83, No. 226 / Friday, November 23, 2018.

 Modifier 59 https://www.cms.gov/Medicare/Coding/NationalCorrectCodInitEd/downloads/modifier59.pdf



# **Facility Coding and Payment**

#### **ICD-10-PCS Procedure Codes (hospital inpatient only)**

03LG3DZ 03LH3DZ 03LJ3DZ 03LK3DZ 03LL3DZ 03LM3DZ 03LM3DZ	Occlusion of Intracranial Artery with Intraluminal Device, Percutaneous Approach Occlusion of Right Common Carotid Artery with Intraluminal Device, Percutaneous Approach Occlusion of Left Common Carotid Artery with Intraluminal Device, Percutaneous Approach Occlusion of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Approach Occlusion of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Approach Occlusion of Right External Carotid Artery with Intraluminal Device, Percutaneous Approach Occlusion of Left External Carotid Artery with Intraluminal Device, Percutaneous Approach
03LP3DZ 03LQ3DZ	Occlusion of Right Vertebral Artery with Intraluminal Device, Percutaneous Approach Occlusion of Left Vertebral Artery with Intraluminal Device, Percutaneous Approach
03LR3DZ	Occlusion of Face Artery with Intraluminal Device, Percutaneous Approach
03LS3DZ	Occlusion of Right Temporal Artery with Intraluminal Device, Percutaneous Approach
03LT3DZ	Occlusion of Left Temporal Artery with Intraluminal Device, Percutaneous Approach
03LG3BZ	Occlusion of Intracranial Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LH3BZ	Occlusion of Right Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LJ3BZ	Occlusion of Left Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LK3BZ	Occlusion of Right Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LL3BZ	Occlusion of Left Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LM3BZ	Occlusion of Right External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LN3BZ	Occlusion of Left External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LP3BZ	Occlusion of Right Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach
03LQ3BZ	Occlusion of Left Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach

#### **References & Sources**

• HIPPS (Inpatient) Federal Register / Vol. 84, No. 159 / Friday, August 16, 2019.

ICD-10-CM
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 ICD-10-PCS
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#### **Neurovascular Coil Embolization**

MS-DRG	Description	2020 National Medicare Payment*
20	Intracranial Vascular Procedures w/ PDX Hemorrhage w/ MCC	\$67,780
21	Intracranial Vascular Procedures w/ PDX Hemorrhage w/ CC	\$51,824
22	Intracranial Vascular Procedures w/ PDX Hemorrhage w/o MCC or CC	\$30,892
25	Craniotomy and Endovascular Intracranial Procedures w/ MCC	\$27,526
26	Craniotomy and Endovascular Intracranial Procedures w/ CC	\$19,078
27	Craniotomy and Endovascular Intracranial Procedures w/o MCC or CC	\$15,012

2020 Inpatient rates in effect from October 1, 2019 - September 30, 2020

#### **Physician Payment**

- Based on RBRVS relative weights per CPT® code × \$ conversion factor
- Payments vary based on geographic location

CPT Code	Mod	Description	2019 National Medicare Payment <sup>a</sup>
61624		Transcatheter permanent occlusion or embolization (e.g., for tumor destruction, to achieve hemostasis, to occlude a vascular malformation), percutaneous, any method; central nervous system (intracranial, spinal cord)	\$1,226.30
61626		Transcatheter permanent occlusion or embolization (e.g., for tumor destruction, to achieve hemostasis, to occlude a vascular malformation), percutaneous, any method; non-central nervous system, head or neck (extracranial, brachiocephalic branch)	\$926.75
75894	-26	Transcatheter therapy, embolization, any method, radiological supervision and interpretation	\$73.89
75898	-26	Angiography through existing catheter for follow-up study for transcatheter therapy, embolization or infusion, other than for thrombolysis	\$93.00

a. The 2019 physician payment rates are reflective of the Calendar Year 2019 Medicare Physician Fee Schedule (MPFS) Final Rule, which was published in Federal Register, Vol. 83, No. 226, Friday, November 23, 2018. Payments listed are national unadjusted fee schedule rates and are subject to change due to CMS' quarterly fee schedule updates and correction notices. Actual payments to physicians may also vary based on locality.

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Federal Register / Vol. 83, No. 226 / Friday, November 23, 2018 MPFS (Physician)

<sup>(</sup>M)CC = (major) complications and/or comorbidities. Complete list available at: http://www.cms.hhs.gov/AcuteInpatientPPS

Rates reflect FY 2020 National Medicare payment rates for hospitals submitting quality data and meaningful EHR users. Hospitals that do not submit quality data or are not meaningful EHR users may see decreased payment rates.

<sup>&</sup>quot;26" is a modifier for the professional component

#### Modifier 59 - Distinct Procedural Service

Modifier 59 is used to identify procedures/services, other than Evaluation and Management (E/M) services, that are not normally reported together, but are appropriate under the specific circumstances.

#### **Modifier 51 - Multiple Procedures**

Modifier 51 is used to identify certain procedures subject, under Medicare, to multiple payment reduction when billed the same day as a different session or patient encounter. The primary and most significant procedure is paid in full while each subsequent procedure is appended with modifier 51 and is subject to a 50% payment reduction.

# Costs for the Penumbra Coil 400™ Embolization System can be categorized into the following revenue codes:

- 0270 Medical/surgical supply
- 0272 Sterile supply
- 0279 Other supplies/devices

There are currently no applicable Medicare HCPCS for neurovascular embolization coils.

#### **References & Sources**

- Modifier 59 https://www.cms.gov/Medicare/Coding/NationalCorrectCodInitEd/downloads/modifier59.pdf
- Modifier 51 Medicare Quarterly Provider Compliance Newsletter. Guidance to Address Billing Errors. Volume 4, Issue 3, Page 14. April 2014. https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/Fast-Facts/Proper-Use-of-Modifier-51.html



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