



## HOSPITAL REIMBURSEMENT GUIDELINES

The SENTINEL Cerebral Protection System (CPS) is a percutaneously delivered embolic protection device, designed to protect the brain from injury caused by embolic debris dislodged while performing TAVR (transcatheter aortic valve replacement) procedures.

This guide has been developed as a resource for individuals seeking a better understanding of hospital reimbursement for services rendered to patients who receive SENTINEL CPS in conjunction with a transcatheter aortic valve replacement (TAVR). We strongly suggest that you consult your payer organizations with regard to local coverage, coding and reimbursement policies.

The Centers for Medicare & Medicaid Services (CMS) has approved the SENTINEL CPS for a new technology add-on payment (NTAP) as part of the FY 2019 Inpatient Prospective Payment System (IPPS) final rule. The NTAP payment will become effective for discharges on or after October 1, 2018. Hospitals must use the existing SENTINEL CPS ICD-10-PCS code below (X2A5312) when SENTINEL CPS is used in TAVR procedures in order to be eligible for the NTAP payment.

There is not a new CPT-code for the use of SENTINEL CPS. HCPCS code C1884 (Embolization Protective System) may be used when appropriate.

	HCPCS CODE
C1884	Embolization Protective System

To comply with Medicare and third-party payer requirements, all hospital claim forms must indicate the International Classification of Diseases, 10th Revision (ICD-10) codes that identify diagnoses, symptoms, conditions, problems, complaints, or other reason(s) for the encounter/visit. Partial list of common diagnoses for patients who may require a TAVR include:

	ICD-10-CM DIAGNOSIS CODES		
135.0	Nonrheumatic aortic (valve) stenosis		
106.0	Rheumatic aortic stenosis		

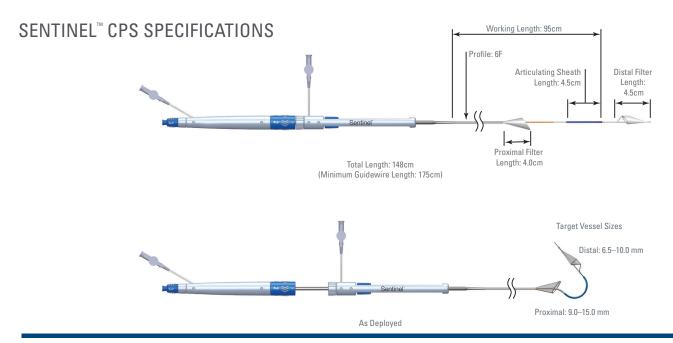
ICD-10 codes that may be used to describe TAVR and the use of SENTINEL CPS procedures:

	ICD-10-PCS PROCEDURE CODES
X2A5312	Cerebral Embolic Filtration, Dual Filter in Innominate Artery and Left Common Carotid Artery, Percutaneous Approach, New Technology Group 2
02RF38H	Replacement of Aortic Valve with Zooplastic Tissue, Transapical, Percutaneous Approach
02RF38Z	Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Approach
02RF3KH	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Transapical, Percutaneous Approach
02RF3KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Approach

Below are typical MS-DRGs assuming TAVR with the SENTINEL CPS are the only procedures. If the patient receives additional procedures the DRG assignment may be different.

MS-DRG	MS-DRG Description*
266	Endovascular Cardiac Valve Replacement w MCC
267	Endovascular Cardiac Valve Replacement w/o MCC

<sup>\*</sup>MCC = Major complication or co-morbidity



## INDICATIONS FOR USE

The SENTINEL Cerebral Protection System is indicated for use as an embolic protection device to capture and remove thrombus/debris while performing transcatheter aortic valve replacement procedures. The diameters of the arteries at the site of filter placement should be between 9-15 mm for the brachiocephalic and 6.5-10 mm in the left common carotid.

## ORDERING INFORMATION

REF (Model) Numbe Ordering	er for	Proximal Filter Size (mm)	Target Proximal Vessel Size (mm)	Distal Filter Size (mm)	Target Distal Vessel Size (mm)
CMS15-10C-US	5	15	9–15	10	6.5–10

HCPCS code C1884 (Embolization protective system) may be used when appropriate.

ICD-10-PCS Procedure code X2A5312 (Cerebral Embolic Filtration, Dual Filter in Innominate Artery and Left Common Carotid Artery, Percutaneous Approach, New Technology Group 2) may be used to describe TAVR and the use of SENTINEL Cerebral Protection System procedures.

## Important Information

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It is always the provider's responsibility to determine medical necessity, the proper site for delivery of any services and to submit appropriate codes, charges, and modifiers for services that are rendered. Boston Scientific recommends that you consult with your pavers, reimbursement specialists and/or legal counsel regarding coding, coverage and reimbursement matters. Boston Scientific does not promote the use of its products outside their FDA-approved label

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Payer policies will vary and should be verified prior to treatment for limitations on diagnosis, coding or site of service requirements. The coding options listed within this guide are commonly used codes and are not intended to be an all-inclusive list. We recommend consulting your relevant manuals for appropriate coding options

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SENTINEL Cerebral Protection System (CPS)

INDICATIONS FOR USE: The Sentinel Cerebral Protection System is indicated for use as an embolic protection device to capture and remove thrombus/debris while performing transcatheter aortic valve replacement procedures. The diameters of the arteries at the site of filter placement should be between 9 – 15 mm for the brachiocephalic and 6.5 – 10 mm in the left common carotid. CONTRAINDICATIONS • Do not use in patients for whom anticoagulant and antiplatelet therapy is contraindicated. • Do not use in patients with a known hypersensitivity to nickel-titanium. • Do not use in vessels with excessive tortuosity. • Do not use in patients with uncorrected bleeding disorders. • Do not use in patients with compromised blood flow to the right upper extremity. • Do not use in patients who have arterial stemosis >70% in either the left common carotid artery or the brachicoephalic artery, • Do not use in patients who have a treat alsteady whose brachicoephalic or left carotid artery reveals significant stemosis, ectasia, dissection, or aneurysm at the aortic ostium or within 3cm of the aortic ostium. WARNINGS • Carefully read all instructions and labeling Instruction and use in patients wind have afterial stenious? 370% in either fine felt continue activity and the patients afterior segment of the patients. Which segment is the patient in the patient is the patient is patient. And the patient is the patient is patient in the patient is patient in the patient of the patient is patient. And the patient is patient in patient in the patient is patient. And the patient is patient in the patient is patient. And the patient is patient in the patient is patient. And the patient is patient in the patient is patient. And the patient is patient in the patient is patient. And the patient is patient in the patient is patient. And the patient is patient is patient. And the patient is patient in the patient is patient. And the patient is patient is pa

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insufficiency • Stroke • Vessel injury (e.g., dissection, rupture, perforátion, pseudoaneurysm) Adverse events experienced during clinical section of the Instructions For Use (IFU). Rx Only, CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician on, pseudoaneurysm) Adverse events experienced during clinical studies are presented in the Clinical Study Overview



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