Conformability like no other.
Design matters.

PRECISE PRO RX® Nitinol Stent System
and ANGIOGUARD® RX Emboli Capture Guidewire System
The Cordis Carotid Artery Stent System

The Cordis Carotid Artery Stent System offers a unique design ideally suited to the challenges of Carotid Artery Stenting.*

Cordis PRECISE PRO RX® Stent
A unique design for enhanced contourability, increased longitudinal stability and uniform scaffolding.
- 36 struts / 6 alternating bridges
- 1 mm flare at stent end
- Offset peak-to-valley design

Cordis ANGIOGUARD® RX Guidewire System
The short landing zone and small pore size work in unique combination with the PRECISE PRO RX® Stent to offer greater control and ease of use.

Learn what sets the Cordis Carotid Systems apart from the rest.
Contact Customer Services at 800.327.7714.

For information on indications, contraindications, warnings, precautions, and adverse events, see Essential Prescribing Information in back pocket.

* The safety and effectiveness of the ANGIOGUARD® RX Guidewire System has not been established for patients with known tortuousity precluding the use of catheter-based techniques.
Carotid Artery Stenting

A procedure like no other requires a solution like no other.

The art of stenting complex carotid vessels requires a skill like no other. It also requires products specifically designed for this tortuous region. Rigid stents may cause kinking and unnatural wall apposition, potentially posing an increased risk of complications.

Choose the stent that conforms to the supra-aortic anatomy and preserves the angulation between the Common Carotid Artery (CCA), the Internal Carotid Artery (ICA).

The Cordis PRECISE PRO RX® Stent, with its multi-segmented, auto-tapering design, offers the best combination of conformability and wall apposition.

Cordis CAS... a sound choice

The Challenge of CAS
- Complex carotid anatomy
- Abrupt changes in vessel diameter
- Severe angulations
- Arch type degree variances
- Bifurcation challenges

Why Cordis CAS?
- Ideal for challenging arterial landscapes
- Durable outcomes
- Improved autotapering
- Easier centering

1 Safety and effectiveness have not been established for patients with known tortuosity precluding the use of catheter-based techniques.

A better way to manage **tortuous anatomy.**

**PRECISE PRO RX® Stent**

**Simplicity of use, precision placement, and proven outcomes.**

With its unique peak-to-valley design and segmented micromesh geometry, the PRECISE PRO RX® Stent provides simplicity of use, autotapering and excellent flexibility through tortuous anatomical challenges.³*

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-segment design</td>
<td>Auto-tapering</td>
</tr>
<tr>
<td>Micromesh geometry</td>
<td>Enhanced wall apposition</td>
</tr>
<tr>
<td>Peak-to-Valley design</td>
<td>Conformability</td>
</tr>
</tbody>
</table>

Unique **autotapering design** enhances conformability in bifurcation

Autotapering design follows the vessel wall for enhanced conformability and wall apposition in the bifurcation, preserving complex angulations, and maintaining original wall anatomy.²


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THE DESIGN DIFFERENCE

Unique design reduces fish scaling and kinking in the bend, preserving the complex angulation between the CCA and ICA.

Micromesh technology

2mm segment

peak-to-valley design

ANGIOGUARD® RX Guidewire System

Offering one of the shortest landing zones.

When used in combination with the PRECISE PRO RX® Stent, the ANGIOGUARD® RX Guidewire System from Cordis provides control, ease of insertion, and precise placement.

- Self-centering design makes placement easy
- 100 micron pore size captures more emboli, while maintaining continuous blood flow
- Excellent crossability (3.2F to 3.9F)

PRECISE PRO RX® Stent offers:

Simplicity of use
- Autotapering provides precision guidance and remarkable placement accuracy
- Excellent flexibility
- Rapid exchange technology permits a single operator procedure

Micro-mesh multi-segmented design
- The lowest profile system on the market, with a lower sheath fit
- Each 2mm segment acts as its own stent to contour against the original wall anatomy
- Peak-to-valley micromesh design reduces recoil and kinking in the bends.
- Maintains best-in-class wall apposition with gentle, consistent outward force on the vessel wall

Landing Zone Comparison

15.4mm landing zone
Cordis CAS System

Time after time, Cordis delivers proven results in Carotid Artery Stenting.

An extensive body of clinical evidence is yet another advantage of the Cordis CAS system. From the first and only randomized high-risk trial (SAPPHIRE) to data being generated today, Cordis continues to deliver improved outcomes.

<table>
<thead>
<tr>
<th>30 Day Outcomes</th>
<th>SAPPHIRE</th>
<th>CASES-PMS</th>
<th>SAPPHIRE WW (21,008 Patients)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Ipsilateral Stroke</td>
<td>0.6%</td>
<td>1.2%</td>
<td>1.2%</td>
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<tr>
<td>Minor Ipsilateral Stroke</td>
<td>2.4%</td>
<td>1.9%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Death and Stroke</td>
<td>4.2%</td>
<td>4.5%</td>
<td>4.1%</td>
</tr>
</tbody>
</table>

SAPPHIRE twice published in NEJM  •  SAPPHIRE WW published in CCI (Catheterization and Cardiovascular Interventions) Journal  •  Data presented at Vascular Interventional Advances (VIVA), Las Vegas, NV, Aug. 2015

The Cordis PRECISE PRO RX® Stent and ANGIOGUARD® RX Guidewire System deliver durable, consistent outcomes out to 3 years.

**No statistical differences for CAS vs. CEA at 3 years.**

CAS is a durable procedure out to 3 years, with similar long-term risk of stroke* as CEA (8.0% vs. 6.7%, LR p=0.799) respectively.

Current CMS reimbursement is limited to symptomatic patients at high risk of surgery with > 70% stenosis of the carotid artery.

Carotid Artery Stenting, through the CORDIS CASES® Carotid Artery Stenting Education System, continues to demonstrate similar outcomes from smaller trials among very experienced physicians to larger registries with physicians who have varying levels of experience.

Three levels of training.

Similar quality outcomes among varying levels of expertise.
### Cordis PRECISE PRO RX® Nitinol Stent System

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DIAMETER X LENGTH (mm)</th>
<th>RECOMMENDED VESSEL SIZE (mm)</th>
<th>SHEATH (F)/GUIDE COMPATIBILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC0520RXC</td>
<td>5 x 20</td>
<td>3-4</td>
<td>5/7</td>
</tr>
<tr>
<td>PC0530RXC</td>
<td>5 x 30</td>
<td>3-4</td>
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</tr>
<tr>
<td>PC0540RXC</td>
<td>5 x 40</td>
<td>3-4</td>
<td>5/7</td>
</tr>
<tr>
<td>PC0620RXC</td>
<td>6 x 20</td>
<td>4-5</td>
<td>5/7</td>
</tr>
<tr>
<td>PC0630RXC</td>
<td>6 x 30</td>
<td>4-5</td>
<td>5/7</td>
</tr>
<tr>
<td>PC0640RXC</td>
<td>6 x 40</td>
<td>4-5</td>
<td>5/7</td>
</tr>
<tr>
<td>PC0720RXC</td>
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<td>5/7</td>
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<td>PC0740RXC</td>
<td>7 x 40</td>
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<td>5/7</td>
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<tr>
<td>PC0820RXC</td>
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<td>5/7</td>
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<tr>
<td>PC0920RXC</td>
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<td>6/8</td>
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<td>PC0940RXC</td>
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<td>7-8</td>
<td>6/8</td>
</tr>
<tr>
<td>PC1020RXC</td>
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<td>6/8</td>
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<td>PC1030RXC</td>
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</tr>
<tr>
<td>PC1040RXC</td>
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<td>8-9</td>
<td>6/8</td>
</tr>
</tbody>
</table>

5F and 6F crossing profile. 135cm catheter working length. 0.014" guidewire acceptance. 3F proximal shaft.

### Cordis ANGIOGUARD® RX Emboli Capture Guidewire System

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT CODE</th>
<th>GUIDEWIRE DIAMETER (in)</th>
<th>SYSTEM LENGTH (cm)</th>
<th>FILTER BASKET DIAMETER (mm)</th>
<th>RECOMMENDED DIAMETER FOR PLACEMENT (mm)</th>
<th>CROSSING PROFILE (F)</th>
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<tbody>
<tr>
<td>Medium Support</td>
<td>Extra Support</td>
<td>0.014</td>
<td>180</td>
<td>4</td>
<td>3 to &lt; 3.5</td>
<td>3.2</td>
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<tr>
<td>401814RMC</td>
<td>501814RMC</td>
<td>0.014</td>
<td>180</td>
<td>5</td>
<td>3.5 to &lt; 4.5</td>
<td>3.3</td>
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<tr>
<td>601814RMC</td>
<td>701814RMC</td>
<td>0.014</td>
<td>180</td>
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<td>4.5 to &lt; 5.5</td>
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<td>901814RMC</td>
<td>0.014</td>
<td>180</td>
<td>7</td>
<td>5.5 to &lt; 6.5</td>
<td>3.7</td>
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<tr>
<td>403014MC</td>
<td>503014MC</td>
<td>0.014</td>
<td>300</td>
<td>4</td>
<td>3 to &lt; 3.5</td>
<td>3.2</td>
</tr>
<tr>
<td>603014MC</td>
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<td>4.5 to &lt; 5.5</td>
<td>3.7</td>
</tr>
</tbody>
</table>

Eight Nitinol struts. Available in medium and extra support. 100 micron basket pore size.
The Cordis PRECISE PRO RX® Nitinol Stent System is used in conjunction with the ANGIOGUARD® RX Emboli Capture Guidewire System for the treatment of patients at high risk for adverse events from carotid endarterectomy when carotid endarterectomy is contra-indicated and meet the criteria outlined below:

- Patients with severe symptomatic monotic and/or 50% stenosis of the common or internal carotid artery by ultrasound or angiogram OR patients without neurologically significant and ≥20% stenosis of the common or internal carotid artery by ultrasound or angiogram.
- Patients must have a vessel diameter of 4.0 mm to the target lesion. The vessel size should be within the range of 3.5 mm and 7.7 mm to allow for placement of the ANGIOGUARD® RX Emboli Capture Guidewire System.

CONTRAINdications

Use of the Cordis PRECISE PRO RX® Nitinol Stent System contraindicated in the following patients:

- Patients in whom antithrombotic and/or anticoagulation therapy is contraindicated.
- Patients in whom the guide catheter is unable to be placed.
- Patients with uncorrected bleeding disorders.
- Patients with known allergies to nitinol.
- Lesions in the orifice of the common carotid artery.

WARRIORS

- Patients with evidence of intraluminal thrombus thought to increase the risk of plaque fragmentation and distal embolization.
- Patients whose lesion(s) may require more than two stents.
- Patients with total occlusion of the target vessel.
- Patients with lesions of the orifice of the common carotid.
- Patients with highly calcified lesions resistant to PTA.
- Concurrent treatment of bilateral lesions.

Lesion Characteristics

- Patients with evidence of intraluminal thrombus thought to increase the risk of plaque fragmentation and distal embolization.
- Patients whose lesion(s) may require more than two stents.
- Patients with total occlusion of the target vessel.
- Patients with lesions of the orifice of the common carotid.
- Patients with highly calcified lesions resistant to PTA.
- Concurrent treatment of bilateral lesions.

Patient Selection

- Safety and effectiveness of the Cordis PRECISE PRO RX® Nitinol Stent System have not yet been established in patients with the characteristics noted below.

Lesion Characteristics

- Patients with evidence of intraluminal thrombus thought to increase the risk of plaque fragmentation and distal embolization.
- Patients whose lesion(s) may require more than two stents.
- Patients with total occlusion of the target vessel.
- Patients with lesions of the orifice of the common carotid.
- Patients with highly calcified lesions resistant to PTA.
- Concurrent treatment of bilateral lesions.

Patient Characteristics

- Patients at low-to-moderate risk for adverse events from carotid endarterectomy.
- Patients experiencing acute ischemic neurologic stroke or who experienced a stroke within 48 hours.
- Patients with an intracranial lesion(s) (e.g., aneurysm, arteriovenous malformation) in the territories of the target carotid artery.
- Patients with coagulopathy.
- Patients with poor renal function, who, in the physician’s opinion, may be at high risk for a reaction to contrast media.
- Patients with perforated vessels evidenced by extravasation of contrast media.
- Patients with aneurysmal dilation immediately proximal or distal to the lesion.
- Pregnant patients or patients under the age of 18.

Access Characteristics

- Patients with known peripheral vascular, supra-ortic or internal carotid artery tortuosity that would preclude the use of catheter-based techniques.
- Patients in whom femoral or brachial access is not possible.
- Risk of data embolization may be higher if the Cordis PRECISE PRO RX® Nitinol Stent System device cannot be used in conjunction with the ANGIOGUARD® RX Emboli Capture Guidewire System during the stent delivery procedure.

Device Use Warnings

- Use of smaller than indicated accessory device can lead to introduction of air into the device as the stent delivery system is advanced.
- Do not use a guidewire with the sheath introducer/guiding catheter.
- Ensure that the catheter system is flushing system prior to the step noted in “Introduction of Stent Delivery System”. Failure to do so could result in air entering the sheath introducer/guiding catheter.
- Ensure that there is a tight seal between the PRECISE PRO RX® catheter and the valve for the sheath introducer/guiding catheter during aspiration. Failure to do so could result in air entering the accessory device.
- The black detent pattern on the gray temperature exposure indicator found on the pouch must be clearly visible. Do not use if entire circle is completely black as the preprogrammed stent diameter may have been compromised.
- Do not use the device if there is administration on the sheath barrier (e.g., broken seal, torn or breached barrier) or lesion.
- This device is intended for one-time use only. Do not re-use and/or re-process. Structure/ integrity/functionality may be impaired through misuse or cleaning.
- Do not use the Cordis PRECISE PRO RX® Nitinol Stent System after the “Use By” date specified on the package.
- Do not use the device if the pouch is opened or damaged.
- Store in a cool, dark, dry place.

Stent Placement Precautions

- Venous access should be available during stent deployment in order to manage bradycardia and/or hypotension either by pharmacological intervention or placement of a temporary pacemaker, if needed.
- When catheters are in the body, they should be manipulated only under fluoroscopy. Radioopaque equipment that provides high quality images is needed.
- The delivery system is not designed for use of power injection. Use of power injection may adversely affect device performance.
- If resistance is felt during delivery system introduction, the system should be withdrawn and another system used.
- Prior to stent deployment, remove all leakage from the catheter delivery system.
- When treating multiple lesions, the deployment should be initially delayed by the proximal lesion. Stenting in this order obviates the need to cross the proximal stent in placement of the distal stent, reducing the chance for dislodging stents that have alread been deployed.
- Other systems other than the PRECISE PRO RX® Nitinol Stent System should be used if overlap of sequential stents is necessary, but the amount of overlap should be kept to a minimum (approximately 5mm). In no instance should more than two stents be deployed.

Stent Placement Precautions

- Fractures of this stent may occur. Fractures may also occur with the use of multiple overlapping stents. In the PRECISE® Stent, they have been reported more often in clinical use for which the safety and effectiveness have not been shown. In the PRECISE PRO RX® Nitinol Stent, the safety and effectiveness of the PRECISE PRO RX® Nitinol Stent System are well characterized. Care should also be taken when deploying the stent as excessive force could, in rare instances, lead to stent deformation and/or fracture.

Post Stent Placement Precautions

- Remove stent deployment unit with adjacent devices must be performed with caution.
- In the event of thrombosis of the expanded stent, thrombolytics and PTA should be attempted.

MRI Safety and Compatibility

- The Cordis PRECISE® Stent was evaluated through bench testing and has been shown to be MR safe at field strengths of 1.5 Tesla or less, with a maximum gradient amplitude of 2 T/m, maximum gradient magnetic fields of 30 mT or less, a temporal magnetic field gradient (dB/dt) of 3 T/m or less, and a maximum bolus body averaged specific absorption rate (SAR) of 1.33 W/kg for 10-120 mm of MRI imaging.
- Imaging sequences should be appropriately selected based on the highest magnetic field gradient present in the area of interest.
- MRI compatibility in regions of interest is in the same area and possibly reduced by moving the PRECISE® Stent. The PRECISE PRO RX® Stent has not been evaluated to determine if it is MR compatible with field strengths greater than 1.5 Tesla.