More control, less stress, throughout the GI tract.

Evolution®
CONTROLLED-RELEASE STENT

COOK® MEDICAL
The Evolution Family

Evolution gives you the ability to deliver stents with more control and less stress. Now, no matter where you are stenting in the GI tract, you can focus even more on patient outcomes.
<table>
<thead>
<tr>
<th>Colonic</th>
<th>Esophageal</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Uncovered" /></td>
<td><img src="image2" alt="Fully Covered" /></td>
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<tr>
<td><img src="image3" alt="Partially Covered" /></td>
<td><img src="image4" alt="Partially Covered" /></td>
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</table>
Evolutionary Stent

The stent, the most important aspect of the procedure, is meant to provide relief specific to the patient’s disease state. That’s the guiding concept behind all of our Evolution stents.

Evolution stents are woven with a single nitinol* wire, which is designed to provide uniform radial force, optimal flexibility and conformability.

Every Evolution stent has both proximal and distal flanges which help reduce migration.

<table>
<thead>
<tr>
<th>Esophageal</th>
<th>Colonic</th>
<th>Duodenal</th>
<th>Biliary</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Esophageal Stent" /></td>
<td><img src="image" alt="Colonic Stent" /></td>
<td><img src="image" alt="Duodenal Stent" /></td>
<td><img src="image" alt="Biliary Stent" /></td>
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</tbody>
</table>

Silicone coating helps minimize the risk of tissue ingrowth and food impaction.

18 crowns on the Evolution duodenal and 20 crowns on the Evolution Colonic are designed to deliver an even distribution of radial force to reduce pain and the risk of perforation.

With its small-cell configuration, the uncovered weave design potentially improves patency.

*Evolution Biliary has a nitinol wire with a platinum core.
The Kink-Resistant Flexor Technology delivers the flexibility to navigate tortuous anatomy along with the pushability to traverse tight strictures.

Flexor’s coiled-spring reinforcement beyond the proximal end of the stent minimizes the potential for catheter kinking.

The Kink-Resistant Flexor Technology delivers the flexibility to navigate tortuous anatomy along with the pushability to traverse tight strictures.

Evolutionary Precision

Precision is gaining access to your stenting position and then maintaining that position throughout the deployment process, even in complex and challenging anatomy.

Radiopaque markers on the inner catheter assist in estimation of stent foreshortening and precise stent placement.

Image courtesy of Dr. Inder Mainie, Belfast City Hospital, Northern Ireland.

Radiopaque markers indicate precise stent location during introduction and deployment.

Image courtesy of Prof. Marco Bruno, Erasmus Medical Centre, Rotterdam, The Netherlands.
Evolutionary Control

An intuitive, controlled-release system with the ability to recapture gives you and your assistant the confidence needed to remain in sync throughout the deployment process.

The Controlled-release mechanism minimizes potential stent jumping allowing for precise stent placement.

“Excellent controlled release and good pushability.”
Dr. Martin James
Queen’s Medical Centre
Nottingham, United Kingdom.

*80% for Evolution Biliary and 50% for Evolution Colonic, Duodenal and Esophageal
Evolution® Biliary

Even when in a completely retroflexed position you are able to effectively deploy a stent designed for prolonged patency.

- Evolution stents are woven with a single nitinol wire, with platinum core, which is designed to provide uniform radial force, optimal flexibility and conformability.

- Every Evolution stent has both proximal and distal flanges which help reduce migration.

- Flexor’s coiled-spring reinforcement beyond the proximal end of the stent minimizes the potential for catheter kinking.

- The Kink-Resistant Flexor Technology delivers the flexibility to navigate tortuous anatomy along with the pushability to traverse tight strictures.

Radiopaque markers before deployment begins

Image courtesy of Prof. Marco Bruno, Erasmus Medical Centre, Rotterdam, The Netherlands.

Endoscopic yellow marker

Image courtesy of Prof. Horst Neuhaus, Evangelisches Krankenhaus, Düsseldorf, Germany.

Double stenting immediately after placement

Image courtesy of Prof. Guido Costamagna, Policlinico Universitario Agostino Gemelli, Rome, Italy.
## Evolution Biliary

This device is used in palliation of malignant neoplasms in the biliary tree. Supplied sterile and is disposable - for single use only.

<table>
<thead>
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</tr>
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**Warning:** The safety and effectiveness of this device for use in the vascular system have not been established.

⚠️ **MR Conditional**

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**Evolution** Biliary Stent System – Uncovered

**CAUTION:** U.S. Federal Law restricts this device to sale by or on the order of a physician (or properly licensed pharmacist).

**INTENDED USE:** This device is used in palliation of malignant neoplasms in the biliary tree.

**CONTRAINDICATIONS:** Those specific to ERCP and any procedure to be performed in conjunction with stent placement. Additional contraindications include, but are not limited to: inability to pass the wire guide or stent through the obstructed area, biliary duct strictures of benign etiology, biliary obstruction by non-ERCP etiologies, patients with severe coagulopathy, concurrent bile duct stones, very small intrahepatic ducts and any use other than those specifically outlined under Intended Use.

**WARNING:** This stent is not intended to be removed and is considered a permanent implant. Attempts to remove the stent after placement may cause damage to the surrounding mucosa. Stent cannot be repositioned after the deployment threshold has been passed. Corresponding marks on outer catheter and delivery handle indicate when threshold has been passed. This device is not intended to be deployed through the wall of a previously placed or existing metal stent. Doing so could result in difficulty or inability to remove introducer. The safety and effectiveness of this device for use in the vascular system has not been established. The stent contains nickel, which may cause an allergic reaction in individuals with nickel sensitivity.

**PRECAUTIONS:** Refer to the package label for the minimum channel size required for this device. A complete diagnostic evaluation should be performed prior to placement to measure the stricture length and determine the proper stent length. The stent length chosen should allow for additional length on either side of the stricture. Note: In the event a single stent will not adequately cover the stricture, a second stent of the same diameter should be placed providing adequate overlapping (minimum 1 cm) of the initially placed stent to ensure a bridging of the stricture between the stents. If wire guide or stent cannot advance through obstructed area, do not attempt to place stent. Stent should be placed using fluoroscopic and endoscopic monitoring. The stent should only be placed with the Cook delivery system, which is provided with each stent. This stent is intended for palliative treatment only. Alternate methods of therapy should be investigated prior to placement. After stent placement, additional methods of treatment such as chemotherapy and irradiation may increase the risk of stent migration due to tumor shrinkage, stent erosion, and/or mucosal bleeding. Long-term patency with this stent has not been established. Periodic evaluation of the stent is advised. Assessment must be made to determine the necessity of sphincterotomy or balloon dilatation prior to stent placement. In the event sphincterotomy or balloon dilatation is required, all appropriate cautions, warnings, and contraindications must be observed.

**POTENTIAL COMPLICATIONS:** Potential complications associated with ERCP include, but are not limited to: pancreatitis, cholangitis, cholecystitis, cholecystostomy, aspiration, perforation, hemorrhage, infection, sepsis, allergic reaction to contrast or medication, hypotension, respiratory depression or arrest, cardiac arrhythmias or arrest. Additional complications that can occur in conjunction with biliary stent placement include, but are not limited to: trauma to the biliary tract or duodenum, perforation, obstruction of the pancreatic duct, stent migration, stent occlusion, ingrowth due to tumor or excessive hyperplastic tissue, tumor overgrowth, stent displacement, pain, fever, nausea, vomiting, inflammation, recurrent obstructive jaundice, bile duct stricture, death (other than due to normal disease progression).

See instructions for use for full product information.

AB_P-U0016_REV1
Evolution® Duodenal

Maneuver through the duodenum’s difficult angulations and deploy a stent that conforms to the anatomy’s particular curve, even in the complex third or fourth portions of the duodenum.

- Evolution stents are woven with a single nitinol wire, which is designed to provide uniform radial force, optimal flexibility and conformability
- Every Evolution stent has both proximal and distal flanges which help reduce migration
- Flexor’s coiled-spring reinforcement beyond the proximal end of the stent minimizes the potential for catheter kinking
- The Kink-Resistant Flexor Technology delivers the flexibility to navigate tortuous anatomy along with the pushability to traverse tight strictures
- 18 crowns deliver an even distribution of radial force to avoid the concentration of pressure at any one point of contact in an effort to reduce pain and the risk of perforation

Stent position immediately after deployment

Image courtesy of Dr. Douglas A. Howell, Maine Medical Center, Portland, Maine, USA.

Endoscopic yellow marker

Image courtesy of Dr. Mario Traina, IsMeTT, Palermo, Italy.

Stent position 2 weeks after deployment

Image courtesy of Dr. Douglas A. Howell, Maine Medical Center, Portland, Maine, USA.
**Evolution Duodenal**

This device is used for palliative treatment of duodenal or gastric outlet obstruction and duodenal strictures caused by malignant neoplasms. Supplied sterile and is disposable - for single use only.

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Reference Part Number</th>
<th>Stent Body Diameter mm</th>
<th>Stent Flange Diameter mm</th>
<th>Stent Length cm</th>
<th>Delivery System Diameter Fr</th>
<th>Delivery System Length cm</th>
<th>Wire Guide Diameter inch</th>
<th>Minimum Accessory Channel mm</th>
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</thead>
<tbody>
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<td>EVO-22-27-6-D</td>
<td>22</td>
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<td>G48026</td>
<td>EVO-22-27-9-D</td>
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<td>G48027</td>
<td>EVO-22-27-12-D</td>
<td>22</td>
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<td>12</td>
<td>10</td>
<td>230</td>
<td>.035</td>
<td>3.7</td>
</tr>
</tbody>
</table>

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⚠️ MR Conditional
Evolution® Colonic

Whether you do colonic stenting regularly or rarely, for palliation or as a bridge to surgery, Evolution stents are designed to give your patient relief and can be delivered confidently even in the most complex and tortuous environments.

- Evolution stents are woven with a single nitinol wire, which is designed to provide uniform radial force, optimal flexibility and conformability.
- Every Evolution stent has both proximal and distal flanges which help reduce migration.
- Flexor’s coiled-spring reinforcement beyond the proximal end of the stent minimizes the potential for catheter kinking.
- The Kink-Resistant Flexor Technology delivers the flexibility to navigate tortuous anatomy along with the pushability to traverse tight strictures.
- 20 crowns deliver an even distribution of radial force to avoid the concentration of pressure at any one point of contact in an effort to reduce pain and the risk of perforation.

Image courtesy of Dr. Julio Faria, McGill University, Jewish General Hospital, Montreal, Quebec, Canada.

Image courtesy of Dr. Mario Traina, IsMeTT, Palermo, Italy.

Image courtesy of Dr. Alessandro Repici, Instituto Clinico Humanitas, Rozzano (Milano), Italy.

Partially deployed stent

Endoscopic yellow marker

Stent position immediately after deployment
This device is used for palliative treatment of colonic obstruction or colonic strictures caused by malignant neoplasms, and to relieve large bowel obstruction prior to colectomy in patients with malignant strictures. Supplied sterile and is disposable - for single use only.

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Reference Part Number</th>
<th>Stent Body Diameter mm</th>
<th>Stent Flange Diameter mm</th>
<th>Stent Length cm</th>
<th>Delivery System Diameter cm</th>
<th>Delivery System Length cm</th>
<th>Wire Guide Diameter Fr</th>
<th>Minimum Accessory Channel mm</th>
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<td>EVO-25-30-8-C</td>
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**MR Conditional**

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**Evolution™ Colonic Stent System – Uncovered**

**CAUTION:** U.S. Federal law restricts this device to sale by or on the order of a physician (or a properly licensed practitioner).

**INTENDED USE:** This device is used for palliative treatment of colonic obstruction or colonic strictures caused by malignant neoplasms, and to relieve large bowel obstruction prior to colectomy in patients with malignant strictures.

**CONTRAINDICATIONS:** Those specific to GI endoscopy and any procedure to be performed in conjunction with stent placement. Additional contraindications include, but are not limited to: enterocolitis, suspected or impending perforation, intra-abdominal abscess/perforation, inability to pass wire guide or stent through obstructed area, patients for whom endoscopic procedures are contraindicated, significant coagulopathy, benign disease.

**WARNINGS:** The stent is not intended to be removed or repositioned after stent placement and is considered a permanent implant. Attempts to remove or reposition stent after placement may cause damage to surrounding tissue or mucosa. Stent cannot be retrieved after the deployment threshold has been passed. Corresponding marks on outer catheter and delivery handle indicate when threshold has been passed. This stent contains nickel, which may cause an allergic reaction in individuals with nickel sensitivity. To minimize pain and tenesmus, the stent end nearest to the anal canal/lumen should be placed 2 cm above the anal canal/fur cm from the anus. The device should be used with caution and only after careful consideration in patients with: - Patients with radiation colitis or proctitis. - Patients with elevated bleeding times, coagulopathies.

**PRECAUTIONS:** Refer to product package label for the minimum channel size required for this device. A complete diagnostic evaluation must be performed prior to use to determine proper stent size. - Furne guide or stent cannot advance through obstructed area, do not attempt to place stent. - Stent should be placed endoscopically with fluoroscopic monitoring. - The stent should only be placed with the Cook delivery system, which is provided with each stent. - This device is intended for palliative treatment only. - After stent placement, alternative methods of treatment such as chemotherapy and radiation should not be administered as this may increase risk of stent migration due to tumor shrinkage, stent erosion, and/or mucosal bleeding. - Long-term efficacy of this device has not been established. Periodic evaluation is advised.

**POTENTIAL complications:** Those associated with GI endoscopy include, but are not limited to: perforation, hemorrhage, fever, infection, allergic reaction to medication, hypotension, respiratory depression or arrest, cardiac arrhythmia or arrest. Additional complications include, but are not limited to: intestinal perforation, pain, inadequate stent expansion, stent misplacement and/or migration, tumor ingrowth or overgrowth, stent occlusion, ulceration, pressure necrosis, erosion of the luminal mucosa, sepsis, foreign body sensation, bowel impaction, diarrhea, constipation, peritonitis, symptoms of tenesmus or urgency/continence, death (other than due to normal disease progression). See instructions for use for full product information. **AB_EU00512_REV0**
Evolution® Esophageal

With the right balance of radial force to open the stricture yet minimize pain and discomfort post placement, this stent is also durable enough to withstand the corrosive environment of the esophagus.

- Evolution stents are woven with a single nitinol wire, which is designed to provide uniform radial force, optimal flexibility and conformability
- Every Evolution stent has both proximal and distal flanges which help reduce migration
- Silicone coating helps minimize the risk of tissue ingrowth and food impaction

Image courtesy of Dr. Marc Giovannini, Paoli-Calmettes Institute, Marseilles, France.

Partially deployed stent  Lasso loop  Stent position immediately after deployment

Image courtesy of Dr. Mojtaba Olyaee, University of Kansas Medical Center, Kansas City, Kansas, USA.

Image courtesy of Dr. Marc Giovannini, Paoli-Calmettes Institute, Marseilles, France.
**Evolution Esophageal**

This device is used to maintain patency of malignant esophageal strictures and/or to seal tracheoesophageal fistulas. Supplied sterile and is disposable - for single use only.

<table>
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<th>Order Number</th>
<th>Reference Part Number</th>
<th>Stent Body Diameter mm</th>
<th>Stent Flange Diameter mm</th>
<th>Stent Length cm</th>
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**Partially Covered**

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⚠ **MR Conditional**

**Evolution™ Esophageal Stent System – Partially Covered / Fully Covered**

**CAUTION:** U.S. Federal law restricts this device to sale by or on the order of a physician (or a properly licensed practitioner).

**INTENDED USE:** This device is used to maintain patency of malignant esophageal strictures and/or to seal tracheoesophageal fistulas.

**CONTRAINDICATIONS:** Those specific to upper GI endoscopy and any procedure to be performed in conjunction with stent placement. Additional contraindications include, but are not limited to: total esophageal obstruction, strictures that cannot be dilated a minimum size or outlined in the precautions section, placement requiring positioning of stent within 2 cm of the oropharynx, surgical resection candidates, bariatric surgery and gastric prolapse in the esophageal area, patients with a perforated esophagus, placement in actively bleeding tumors, benign disease. Relative contraindications include, but are not limited to: uncooperative patient, esophageal stricture, tracheal compression, recent myocardial infarction, cervical arthritis with fixed cervical spine, large tumor mass occupying the mediastinum, nonobstructive tumor, gastric outlet obstruction, metastatic esophageal mucosa, acute or acute angled stenosis.

**WARNINGS:** The stent is not intended to be removed and is considered a permanent implant. Attempts to remove stent after placement may cause damage to esophageal mucosa. Stent cannot be retrieved after the deployment threshold has been passed. Corresponding marks on outer catheter and delivery handle indicate when threshold has been passed.

**PRECAUTIONS:** A complete diagnostic evaluation must be performed prior to use to determine proper stent size. Stent should be placed using fluoroscopic monitoring. Stent should only be placed with the Cook delivery system, which is provided with each stent. - Note: Prior to advancing system, area to be stented should be dilated to: - For (18mm x 23mm) stent – a minimum 9 mm and a maximum of 11 mm. If area is dilated greater than 11 mm, stent may migrate. - For (20mm x 23mm) stent – a minimum of 10 mm and a maximum of 14 mm. If area is dilated greater than 14 mm, stent may migrate. - This device is intended for palliation treatment only. Alternate methods of therapy should be investigated prior to placement. - After stent placement, alternative methods of treatment such as chemotherapy and radiation should not be administered as this may increase risk of stent migration due to tumor shrinkage, stent erosion, and/or mucosal bleeding. - Long-term patency of this device has not been established. Periodic evaluation is advised. - After stent placement, patients should be instructed to chew food well and/or eat soft or pureed food. This device shortens upon deployment. With proximal strictures near the upper esophageal sphincter, deployment should be performed under fluoroscopic visualization as this may enhance placement accuracy.

**POTENTIAL COMPLICATIONS:** These associated with upper GI endoscopy include, but are not limited to: perforation, hemorrhage, aspiration, reflux, fever, infection, allergic reaction to medication, hypertension, respiratory depression or arrest, cardiac arrhythmia or arrest. Additional complications include, but are not limited to: stent malposition and/or migration; tumor ingrowth or overgrowth; esophageal ulceration and erosion; nausea, chest or retrosternal pain, foreign body sensation; feed bolus impaction; guidewire sensitivity to metal components; fistula involving trachea, bronchi, or plural space; intestinal obstruction secondary to migration; mediastinitis or perichondrial airway compression; tracheal obstruction.

See instructions for use for full product information.
Clinical Studies


van Heel, N. C. M, (20120 “Comparison of 2 expandable stents for malignant esophageal disease: a randomized controlled trial” GASTROINTESTINAL ENDOSCOPY 76(1) pp. 52-58


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We are always seeking to provide stimulating and productive educational opportunities for clinicians to enhance their knowledge of new technologies and learn about exciting new procedural techniques. Cook Medical’s Vista programs encourage physician and industry collaboration to improve patient care by sharing best practices. Vista programs foster collaboration among the best and the brightest gastroenterologists in the world who all share one common goal: Improving patient care.

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