# BD Caterpillar<sup>™</sup> Arterial Embolization Device

## ③ BD | Caterpillar<sup>™</sup> Micro Arterial Embolization Device

## INSTRUCTIONS FOR USE

Caution: Federal (U.S.A.) Law restricts this device to sale by or on the order of a physician.

### A. Device Description

#### 1. Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Device Systems

The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are selfexpanding arterial occlusion plugs. The devices consist of the following components and are intended to be a permanent implant (**Figure 1**): cobalt-chrome stem, nickeltitanium fibers, platinum-iridium radiopaque marker bands, and a polyurethane and polyethylene occlusion membrane. These devices are intended for arterial vessel embolization in the peripheral vasculature.

The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Device Systems are packaged as a single unit with the implant, loader, dispenser hoop, detachable delivery wire, and torque tool (**Figure 2**). The Caterpillar<sup>™</sup> Micro delivery wire is coated with a hydrophilic coating while the Caterpillar<sup>™</sup> delivery wire has a PTFE hydrophobic coating. The system is provided sterile and non-pyrogenic, and is intended for single use only.

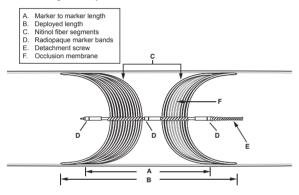


Figure 1: Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Device components

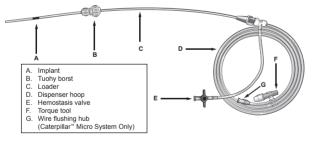


Figure 2: Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Delivery System

#### 2. Implant Sizing and Lengths

The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are intended for a specific arterial diameter range. The intended artery diameter range and required delivery catheter size (inner diameter (ID)) for deployment are provided in **Table 1**.

#### Table 1. Product Characteristics

Product Name	Product Reference	Target Artery Diameter (mm)	Delivery Catheter Compatibility: Inner Diameter (in/mm)	Marker to Marker Length (mm) <sup>1</sup>	Maximum Deployed Length (mm) <sup>2</sup>	Delivery Wire Length (cm)
Caterpillar <sup>™</sup> Micro	027	1.5-4	0.027/0.686	7	16	170
Caterpillar™	038	3-6	0.038/0.965	17	26	155
Caterpillar	056	5-7	0.056/1.422	18	37	155

 The Marker to Marker Length is the distance between the most distal radiopaque marker band to the most proximal radiopaque marker band (Figure 1, A).

2. The Maximum Deployed Length is the length from the distal fiber tips to the proximal fiber tips in the minimum target artery diameter (Figure 1, B).

## **B. Indications for Use**

The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are indicated for arterial embolization in the peripheral vasculature. The devices are contraindicated for use in vessels subject to cyclic bending, such as locomotive joints or muscle beds.

#### C. Warnings

- Results of preclinical testing suggest that implant locations which expose the device to cyclic bending such as locomotive joints or muscle beds may increase the likelihood of device fracture or migration.
- The safety and effectiveness of the use of the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices in veins, in the heart, in coronary vessels, and in the neurovasculature has not been established.
- The Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are only intended for use in the artery diameters listed in Table 1. Use in artery diameters other than those specified could result in poor occlusion and/or device migration.
- The Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Devices should be advanced and/or manipulated under fluoroscopic guidance. If the device cannot be adequately visualized under fluoroscopy, remove and discard the device and use an alternative device.
- The Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are supplied sterile and non-pyrogenic. The device is sterilized using ethylene oxide (EtO) and is intended for single use only. Do not resterilize and/or reuse this device.
- Visually inspect the packaging to verify that the sterile barrier is intact. Do not use if the sterile barrier is opened or damaged.
- After use, this product may be a potential biohazard. Handle and dispose
  of in accordance with acceptable medical practices and applicable local,
  state and federal laws and regulations.
- Do not use this device in patients with a known hypersensitivity to the materials listed below as they may suffer an allergic reaction to this implant. Prior to implantation, patients should be counseled on the materials contained in the device, as well as for allergy/hypersensitivity to these materials.
  - Cobalt
  - Chromium
  - Nickel
  - Titanium
  - Platinum
  - Iridium
  - Polyurethane
  - Polyethylene
- The safety and effectiveness of this device has not been evaluated in children or pregnant women.

#### **D. Precautions**

- Check that the device has not been damaged prior to use. Do not use if any
  damage is visible or if any part of the implant is outside of the loader. If loader or
  wire kinks or becomes damaged during preparation, do not use the device.
- The device should only be used by physicians who are trained in endovascular
  procedures and are familiar with the complications, side effects and hazards of
  peripheral vascular interventions. The physician should determine appropriate
  patient compatibility with the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial
  Embolization Devices prior to use. In particular, the physician should determine
  that the product dimensions are appropriate for the implant area.
- Physicians should exercise clinical judgment in situations that involve use of anticoagulants or antiplatelet drugs before, during and/or after use of the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices as their use may slow the rate of occlusion.
- Exercise care in handling the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices to reduce the potential of accidental damage.
- Do not advance the implant outside of the loader prior to insertion into the delivery catheter.
- Only use sterile saline to flush the device. Do not use a power injection syringe to inject contrast solution through the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices.
- Verify that the delivery catheter that is used is compatible with the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices prior to use (Section J).
- If excessive resistance beyond what would be expected is encountered at any point during advancement of the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices through the delivery catheter, stop and remove the device and delivery catheter as one unit/together.
- Do not advance or retract the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices from the loader without attaching the loader via the tuohy borst to the delivery catheter hub.
- Do not twist or rotate the delivery wire during advancement, because the implant may detach prematurely.

- The Caterpillar<sup>™</sup> Arterial Embolization Device can only be re-positioned when the Detachment Zone is still in the delivery catheter (Figure 3). If the Detachment Zone is deployed, but re-positioning is required, retrieve and discard the device. A replacement device must then be used.
- Caterpillar<sup>™</sup> Micro Arterial Embolization Device cannot be repositioned once the distal segment is deployed. If the distal segment is deployed, but repositioning is required, retrieve and discard the device. A replacement device must then be used.
- Following deployment, use caution to prevent deformation of the membrane or implant position, including with the use of adjunctive therapies.

#### **E. Potential Adverse Events**

Potential patient/device adverse effects which can occur singularly or collectively and may include, but are not limited to, the following:

- Air embolism
- Allergic reaction/toxic effects
- Complications requiring surgical reintervention such as device or component retrieval
- Death
- Embolism
- Fracture and/or detachment of components
- Fever
- Foreign material embolic event
- Hemolysis
- Hemorrhage
- · Implant malposition/misalignment
- · Migration of the implant
- Nausea and vomiting
- · Occlusion of unintended vessel
- Pain
- Recanalization
- Residual flow
- · Sepsis, infection, and/or inflammation
- Stroke
- Tissue ischemia and infarction
- Vascular access site complication
- Vasospasm
- · Vessel trauma including perforation, rupture, or extravasation

## F. MRI Safety Information

Non-clinical testing demonstrated that the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are MR Conditional. A patient with this implant can be scanned safely immediately after placement under the following conditions:

- · Static magnetic field of 3-Tesla or 1.5-Tesla.
- Spatial gradient magnetic field of 3,400-Gauss/cm or less.
- Maximum MR system reported whole-body-averaged specific absorption rate (SAR) of 2-W/kg (normal operating mode).

Under the scan conditions defined above, the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are expected to produce a maximum temperature rise of less than 3°C after 15 minutes of continuous scanning.

In non-clinical testing, the image artifact caused by the device extends approximately 16.45 mm from the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices when imaged with a gradient echo pulse sequence and a 3 Tesla MRI system.

#### **G.How Supplied**

The Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Devices are supplied sterile (by ethylene oxide gas) and intended for single use only.

#### H. Contents

Contents of one (1) Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Device package:

- One (1) Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Device system
- One (1) Patient Implant Card

#### I. Storage

Store in a cool, dry place. Keep away from sunlight. Rotate inventory so that the device and other dated products are used prior to the "Use By" date. Do not use if packaging is damaged or opened.

### J. Materials Required For Use With The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Device System

Delivery of the device requires the use of a compatible delivery catheter according to **Table 2**. The Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices have been tested for compatibility with the following delivery catheters:

Table 2: Comp	atible Cathete	ers	
Product Name	Product Reference	Delivery Catheter Compatibility: Minimum Inner Diameter (in/mm)	Compatible Catheters (Outer Diameter)
			Terumo Progreat <sup>™</sup> (2.8F/3.0F)
			Boston Scientific Renegade <sup>™</sup> Hi-Flo (2.8F/3.0F)
			Boston Scientific Direxion <sup>™</sup> Hi-Flo (2.8F/3.0F)
Caterpillar <sup>™</sup> Micro	027	0.027/0.686	Merit EmboCath <sup>™</sup> Plus (2.9F/3.0F)
Caterpillar Wilcio	021	0.02770.000	Stryker Excelsior <sup>™</sup> (2.7F/2.9F)
			Codman Prowler <sup>™</sup> (2.6F/3.0F)
			Medtronic Marksman <sup>™</sup> (2.8F/3.2F)
			Medtronic Rebar <sup>™</sup> (2.8F)
			Cook Cantata <sup>™</sup> (2.9F)
			Boston Scientific Imager <sup>™</sup> II (5F)
	038	0.038/0.965	Cook Beacon <sup>™</sup> Tip (5F)
O a fa an ill a sil			Cordis Tempo <sup>™</sup> (4F or 5F)
Caterpillar™		0.056/1.422	Cordis Vista Brite Tip <sup>™</sup> (5F)
	056		Merit Concierge <sup>™</sup> (5F)
			Codman Envoy <sup>™</sup> (5F)

Caution: Physicians should exercise their clinical judgment in selection and use of catheters and tip shapes. Using imaging, track the implant through the catheter and catheter tip to the target delivery site. If at any point the Caterpillar<sup>™</sup> or Caterpillar<sup>™</sup> Micro Arterial Embolization Devices does not track, remove the device and catheter simultaneously from the body. Refer to the instructions for use for each product listed. Manufacturers may make changes to their catheters without notice which may impact their suitability for use with the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization systems.

- The use of other delivery catheters may result in an inability to deliver, deploy, or recapture the device.
- Note: The delivery catheter length must be less than or equal to 140 cm (155 cm for Caterpillar<sup>™</sup> Micro Arterial Embolization Device).

Note: Catheter availability may vary by region

 A syringe (5cc/ml or l0cc/ml) with sterile saline should be used for flushing of the Caterpillar<sup>™</sup> and Caterpillar<sup>™</sup> Micro Arterial Embolization Devices prior to use.

## **K. Directions For Use**

Steps	Caterpillar <sup>™</sup> Micro	Caterpillar™
1	Following target artery identification and evaluati Caterpillar" Micro Arterial Embolization Devices treatment site.	
2	Per Table 1, ensure that the occlusion site is long the device (fiber tip to fiber tip) to prevent non-tar	enough to accommodate the deployed length of rget embolization.
3	Per Section J, select an appropriate delivery cath manufacturer's instructions for use.	neter and prepare the catheter according to the
	Prepare the device for use:	
	Inspect the packaging and verify that it is unoper and Caterpillar <sup>™</sup> Micro Arterial Embolization Devi	
4	Caution: Do not use if any damage is visible or i	f any part of the implant is outside of the loader.
	Caution: If loader or wire kinks or becomes dam	aged during preparation, do not use the device.
	Carefully open the sterile pouch and inspect the if damage is evident.	components for damage. Do not use the device
	Using a 5cc/ml or 10cc/ml syringe of sterile saline, activate the hydrophilic delivery wire by flushing the dispenser hoop.	Using a 5cc/ml or 10cc/ml syringe of sterile
5	Using a 5cc/ml or 10cc/ml syringe of sterile	saline, flush the device until saline emerges from the distal tip of the loader.
	saline, flush the device until saline emerges from the distal tip of the loader.	Caution: Ensure the hemostasis valve is
	Caution: Ensure the hemostasis valve is closed after flushing the loader.	closed after flushing the loader.
6	Attach the tuohy borst to the hub of the delivery of	catheter.

The metal band for the Caterpillar" Arterial Embolization Device Note: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery catheter. Once the loader is removed, continue to use the delivery wire to advance the device into the catheter under fluoroscopic guidance until the distal radiopaque marker is at the distal ip of the catheter (Figure 3, C). To deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter to deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter to deploy the device, hold the delivery wire catheter to deploy the entire Caterpillar" Micro Arterial Embolization Device.  Caution: Caterpillar" Micro Arterial Embolization device cannot be recaptured for reposition is unsatisfactory after deployment beyond the medial marker may mean that repositioning is no longer possible.  Caution: Caterpillar" Micro Arterial Embolization device cannot be recaptured for reposition is unsatisfactory after deployment beyond the medial marker may mean that repositioning Zone the device can be recaptured for repositioning.  Stabilize the delivery catheter on the delivery catheter until the Positioning Zone is recaptured within the catheter.  Caution: Caterpillar" or Caterpillar" Micro Arterial Confirm the Caterpillar" or Caterpillar" Micro Arterial Confirm the Caterpillar" or Caterpillar" Micro Arterial Embolization Device a usuatisfactory, after deployment 20ne (Figure 3, B) by the Detachment Zone (Figure 3, B), by the Detachment Zone (Figure 3, B) by the delivery wire and microcatheter and advance the guiding catheter over bot the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding schetter.  Denome and wind the delivery wire and delivery catheter and advance the guiding catheter over bot the microcatheter and the implant. Dr: b. Retract the implant and microcatheter into the guiding schetter.  Denome and catheter		Caterpillar <sup>™</sup> Micro	Caterpillar™
2         Caution: Do not advance or retract the Caterpillar" Micro Arterial delivery catheter hub.         Do not twist or rotate the delivery wire during advancement because the device may detach premaburely:           Advance the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices using the delivery wire until the indicator band on the delivery wire is aligned with the end of the bader. At this poin stop advancement and remove the loader.           g         - The while band for Caterpillar" Micro Arterial Embolization Device - The metal band for the Caterpillar" Arterial Embolization Device - The metal band for the Caterpillar" Arterial Embolization Device - The metal band for the Caterpillar" Micro Arterial and indicator for device position within the delivery catheter.           g         Once the loader is removed, continue to use the delivery wire to advance the device into the catheter (Figure 3, C).           10         Ensure the distal tip of the catheter is at the distal end of the target occlusion site.           11         Stationary and slowy retract the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the device.           12         Caution: Caterpillar" Micro Arterial Embolization Device and the recaptured for repositioning within the microcatheter in the the positioning Zone the device constitue.           12         Caution: Caterpillar" or Caterpillar" Micro Arterial Embolization device and the caterpillar" Micro Arterial Embolization Device position is satisfactory after deployment of the Positioning Zone the device constitue is associated to reposition is recaptured with the catheter.           12         Caution: If the position			
a elivery catheter hub.       Do not builts or totale the delivery wire during advancement because the device may detach prematurely.         Advance the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices         a - The white band for the Caterpillar" Micro Arterial Embolization Device         b - The white band for the Caterpillar" Micro Arterial Embolization Device         b - The white band for the Caterpillar" Micro Arterial Embolization Device         b - The white band for the Caterpillar" Micro Arterial Embolization Device         c - The white band for the Caterpillar" Micro Arterial Embolization Device         c - The white band for the Caterpillar" Micro Arterial Embolization Device         a - Once the loader is removed, continue to use the delivery wire to advance the device into the catheter under fluorescopic guidance until the distal redicpaque marker is at the distal tip of the catheter (Figure 3, C).         10       Ensure the distal tip of the catheter is at the distal end of the target occlusion site.         11       To deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter to deploy the embolization Device.         11       To deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter.         12       C aution: Caterpillar" Micro Arterial       The deploy membra the deploy temp of the device position is unsatisfactory after deployment of the device position is unsatisfactory after deployment of the device position is asstisfactory after deployment of the device posithe is asstisfactory after deployment of the d	_	Caution: Do not advance or retract the Caterpi	llar <sup>™</sup> and Caterpillar <sup>™</sup> Micro Arterial
Do not built or rotate the delivery wire during advancement because the device may detach prematurely.         Advance the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices using the delivery wire is aligned with the end of the loader. At this point stop advancement and nervows the loader.         Image: the caterpillar" Micro Arterial Embolization Device         Net: The indicator band on the delivery wire is aligned with the end of the loader. At this point is a the distal of the catheter in the loader may be safely removed. It is not an indicator for device position within the delivery catheter.         Image: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery catheter.         Image: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery catheter (Figure 3, C).         Image: The device hold the delivery wire stationary and slowly retract the delivery catheter in deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter in deploy the Device.         Image: The device hold blowly retract the delivery catheter in deploy the Device in a satisfactory after deployment to the ropatitioning Cone the device and the catheter Caterpillar" Micro Arterial Embolization Device in a satisfactory after deployment of the Positioning Zone in accordance with steps 10 and 11.         Image: The device position is antisfactory after deployment of the catheter.         Image: The device position is antisfactory after deployment of the device position is antisfactory after deployment of the device position is anatisfactory after deployment of the device. </td <td>7</td> <td></td> <td>ttaching the loader via the tuohy borst to the</td>	7		ttaching the loader via the tuohy borst to the
<ul> <li>wire until the indicator band on the delivery wire is aligned with the end of the loader. At this point stop advancement and remove the loader.</li> <li>The white band for the Caterpillar" Attenia Embolization Device</li> <li>Note: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery catheter.</li> <li>Once the loader is removed, confluxe to use the delivery wire to advance the device into the catheter (Figure 3, C).</li> <li>Ensure the distal tip of the catheter is at the distal radiopaque marker is at the distal lip of the catheter (Figure 3, C).</li> <li>To deploy the device, hold the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the device.</li> <li>To deploy the device, hold the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the device.</li> <li>Caution: Caterpillar" Micro Arterial Embolization Device.</li> <li>If the device position is unsatisfactory after repositioning is no indeper possible.</li> <li>If the device position is unsatisfactory after device can be recaptured for repositioning is no indeper possible.</li> <li>If the device position is assistactory after deployment is deployed.</li> <li>Stabilize the delivery wire and advance the device and the resolutioning Zone the device position is satisfactory after deployment is deployed.</li> <li>Stabilize the delivery wire and microcatheter on the device position is assistactory after deployment is deployed.</li> <li>Stabilize the delivery wire and microcatheter into the grading catheter.</li> <li>Confirm the Caterpillar" or Caterpillar" Micro Arterial Embolization Device position is satisfactory after deployment of the Positioning Zone (deployment of the device position is unastificatory offer deployment of the Posi</li></ul>			ancement because the device may detach
- The metal band for the Caterpillar" Arterial Embolization Device Note: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery catheter.      Once the loader is removed, continue to use the delivery wite to advance the device into the     catheter (Figure 3, C).      To deploy the device, hold the delivery wite     stationary and slowly retract the delivery wite     sationary and slowly retract the delivery     catheter to deploy the device, hold the delivery wite     sationary and slowly retract the delivery     catheter to deploy the metric Caterpillar" Micro     Arterial Embolization Device.      Caution: Caterpillar " Micro Arterial     Embolization device cannot be receptured for     repositioning within the microcatheter on the     device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning Zone     the device position is satisfactory after     deployment of the Positioning     the device position     is uns		wire until the indicator band on the delivery wire is	
Note: The indicator band only indicates that the loader may be safely removed. It is not an indicator for device position within the delivery wire to advance the device into the catheter under flororscopic guidance until the distal radiopaque marker is at the distal ip of the catheter (Figure 3, C).           10         Ensure the distal tip of the catheter is at the distal end of the target occlusion sile.           11         To deploy the device, hold the delivery wire stationary and slowly retract the delivery wire stationary and slowly retract the delivery catheter to deploy the Positioning Zone (Figure 3, A).           11         To deploy the device, hold the delivery wire stationary and slowly retract the delivery wire stationary and slowly retract the delivery wire (Figure 3, A).           12         Caution: Caterpillar Micro Arterial           13         Caution: Caterpillar Micro Arterial           14         Enviolization device cannot be receptured for repositioning within the microcatheter one the indicatory after deployment of the Positioning Zone, the device y catheter unit the Positioning Zone the deployment of the Positioning Zone, the device y catheter and redeploy the device statisticatory after deployment of the Positioning Zone, deploy the device can be recaptured for reposition within the microcatheter and the microcatheter and the device position is satisfactory, after deployment of the Positioning Zone, deploy the device position is satisfactory, and redeploy the caterpillar Arterial Embolization Device in accordance with steps 10 and 11.           12         Caution: If the position of the Caterpillar Micro Arterial Embolization Device position is unsatisfactory after deployment of the Device position is unsatisfactory, a	8	- The white band for Caterpillar <sup>™</sup> Micro Arterial Er	nbolization Device
Indicator for device position within the delivery catheter.         9       Catheter under fluoroscopic guidance until the distal radiopaque marker is at the distal lip of the catheter (Figure 3, C).         10       Ensure the distal tip of the catheter is at the distal end of the target occlusion site.         11       To deploy the device, hold the delivery wire catheter to deploy the device, hold the delivery wire catheter to deploy the entire Caterpillar" Micro Arterial Embolization Device.       To deploy the device, hold the delivery wire catheter to deploy the Positioning Zone (Figure 3, A).         11       Stationary and slowly retract the delivery wire catheter on deploy the position provide the medial marker may mean that repositioning is no longer possible.         12       Caution: Caterpillar" Micro Arterial Embolization device cannot be receptured for repositioning within the microcatheter once the delivery wire stationary and slowly retraction device is accurate with steps to and 1.         12       Caution: Caterpillar" for Caterpillar" Micro Arterial Embolization and redeploy the Caterpillar" Arterial Embolization provement to the device position is astisfactory after deployment of the Positioning Zone the Caterpillar" or Caterpillar" Micro Arterial Embolization and redeploy the Caterpillar and microcatheter once the device position and redeploy the Caterpillar" Micro Arterial Embolization Device position is satisfactory after deployment of the device position is satisfactory after deployment of the Caterpillar" Micro Arterial Embolization Device is unsatisfactory of the device position is unsatisfactory and adving the delivery wire and microcatheter into the unsatisfactory of the delivery withen delivery catheter and the implant.		- The metal band for the Caterpillar <sup>™</sup> Arterial Embe	blization Device
9         catheter under fluoroscopic guidance until the distal radiopaque marker is at the distal tip of the catheter (Figure 3, C).           10         Ensure the distal tip of the catheter is at the distal end of the target occlusion site.           11         To deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter to deploy the entire Caterpillar" Micro Arterial Embolization Device.         To deploy the device, hold the delivery catheter to deploy the entire Caterpillar" Micro Arterial Embolization Device.           12         Caution: Caterpillar" Micro Arterial Embolization device cannot be recaptured for repositioning Zone the device are breactive and the meridian marker may mean that repositioning Zone the device are positioning within the microcatheter once the device are position is unsatisfactory after deployment of the Positioning Zone the device are than one repositioning within the microcatheter once the device position is satisfactory after deployment of the Positioning Zone (figure 3, B) by thoiling the delivery wire stationary and slowly retracting the device position is satisfactory. Gene the device position is satisfactory, complete step 14.           13         Confirm the Caterpillar" or Caterpillar" Micro Arterial Embolization Device in accordance with steps 10 and 11.           14         Micro Arterial Embolization Device are assistactory, complete step 14.           14         Caution: the Caterpillar" Micro Arterial Embolization Device position is unsatisfactory after deployment of the device position is unsatisfactory after deployment of the Destinoning Zone (Figure 3, B), perform the following:           13         Stabilize the delivery wire and microcatheter		Note: The indicator band only indicates that the le indicator for device position within the delivery ca	oader may be safely removed. It is not an theter.
Image: constraint of the	9	catheter under fluoroscopic guidance until the dis	
To deploy the device, hold the delivery wire stationary and slowly retract the delivery catheter to deploy the entire Caterpillar* Micro Arterial Embolization Device.       Stationary and slowly retract the delivery catheter to deploy the entire Caterpillar* Micro Arterial Embolization Device.         11       Caution: Caterpillar* Micro Arterial Embolization device cannot be recaptured for repositioning is no longer possible.         12       Caution: Caterpillar* Micro Arterial Embolization device cannot be recaptured for repositioning within the microcatheter once the device on be recaptured within the catheter.         12       Caution: Caterpillar* Micro Arterial Embolization device cannot be recaptured for repositioning and the evolution of the Positioning Zone (hepoyment of the Dolication Device is unsatisfactory after deployment of the device, perform the following: <ul> <li>a. Stabilize the delivery wire and microcatheter into the guiding catheter.</li> <li>detach the Caterpillar* and microcatheter into the guiding catheter.</li> <li>A. Retract the implant and microcatheter form the body. Discard</li></ul>	10	Ensure the distal tip of the catheter is at the dista	I end of the target occlusion site.
2         Caution: Caterpillar <sup>®</sup> Micro Arterial Embolization device cannot be recaptured for repositioning within the microcatheter once the distal segment is deployed.         Stabilize the delivery wire and advance the delivery catheter until the <b>Positioning 2on</b> is recaptured within the caterpillar <sup>®</sup> Micro Arterial Micro Arterial Embolization Device in accordance with steps 10 and 11.           12         Confirm the Caterpillar <sup>®</sup> or Caterpillar <sup>®</sup> Micro Arterial Embolization device cannot be recaptured for repositioning within the microcatheter once the distal segment is deployed.         Note: The safety of performing more than one re-positioning step has not been evaluated.           13         If the position is satisfactory, filter deployment of the <b>Positioning 2on</b> econtine the Caterpillar <sup>®</sup> or Caterpillar <sup>®</sup> Micro Arterial Embolization Device position is unsatisfactory, complete step 14.           13         Confirm the Caterpillar <sup>®</sup> or Caterpillar <sup>®</sup> Micro Arterial Embolization Device position is unsatisfactory, and the Caterpillar <sup>®</sup> Micro Arterial Embolization Device position is unsatisfactory after deployment of the device, perform the following:         Caution: If the Caterpillar <sup>®</sup> device position is unsatisfactory after deployment of the device.           14         Or: b. Retract the implant and microcatheter and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the edvice and catheters from the body. Discard the removed device.         Caution: If the Caterpillar <sup>®</sup> Micro Arterial Embolization Devices, twist the delivery catheter and devices, wist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool is provided.           14         Detach the Caterp	11	stationary and slowly retract the delivery catheter to deploy the entire Caterpillar <sup>™</sup> Micro	stationary and slowly retract the delivery catheter to deploy the <b>Positioning Zone</b> (Figure 3, A). <b>Caution:</b> Deployment beyond the medial marker may mean that repositioning is no
12       Caution: Caterpillar" Micro Arterial Embolization device cannot be recaptured for repositioning within the microcatheter once the distal segment is deployed.       a. Stabilize the delivery wire and advance the delivery catefy of performing more than one re-positioning step has not been evaluated.         12       Caution: Caterpillar" Micro Arterial Embolization device cannot be recaptured for repositioning within the microcatheter once the distal segment is deployed.       Note: The safety of performing more than one re-positioning step has not been evaluated.         13       If the device position is satisfactory after deployment of the Positioning Zone, deploy the Detachment Zone (Figure 3, B) by holding the delivery wire statisfactory after deployment of the Caterpillar" Micro Arterial Embolization Device position is unsatisfactory. Complete step 14.         13       Confirm the Caterpillar" or Caterpillar" Micro Arterial Embolization Device position is unsatisfactory. complete step 14.         14       Caution: If the position of the Caterpillar" Micro Arterial Embolization Device is unsatisfactory after deployment of the device, perform the following: a. Stabilize the delivery wire and microcatheter into the guiding catheter.         14       Or: backinet cathe implant and microcatheter into the guiding catheter.         14       Device the device and catheters from the body. Discard the removed device.         15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is prox			If the device position is unsatisfactory after
12       Caution: Caterpillar <sup>**</sup> Micro Arterial Embolization device cannot be recaptured for distal segment is deployed.       Note: The safety of performing more than one re-positioning within the microcatheter once the distal segment is deployed.         12       Confirm the Caterpillar <sup>**</sup> Micro Arterial Embolization device cannot be recaptured for distal segment is deployed.       Note: The safety of performing more than one re-positioning attributed.         13       If the device position is astisfactory, after deployment of the Positioning 20m, deploy the Datachment Zone (Figure 3B) by holding the delivery vatheter.         13       If the position is satisfactory, after deployment of the Position is satisfactory.         13       Micro Arterial Embolization Device position is satisfactory is unsatisfactory after deployment of the device perform the following:         14       Caution: If the position is satisfactory after deployment of the device position is unsatisfactory after deployment of the device patient and advance the guiding catheter over both the microcatheter and the implant.         14       Or:         14       Stabilize the delivery wire and catheters from the body. Discard the removed device.         15       The trapue tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         15       Retract the delivery wire into the catheter.       If on the delivery wire from the patient and complete the procedure following standard technique is provided.         15       The torque tool should be attached to any portion o			device can be recaptured for repositioning:
12       Embolization device cannot be recaptured for distal segment is deployed.       re-positioning within the microcatheter once the distal segment is deployed.       It desired, reposition and redeploy the Caterpillar'' Atterial Embolization Device and catheters and the position is satisfactory after deployment of the Positioning zone, deploy the Detachment zone (Figure 3,B) by the Detachment zone (Figure 3,B) by retracting the delivery vice statisfactory. Gomplet the position is satisfactory, and the device position is satisfactory.         13       If the position of the Caterpillar'' Micro Arterial Embolization Device is unsatisfactory, complete step 14.         14       Caution: If the position of the Caterpillar'' Micro Arterial Embolization Device is unsatisfactory, and microcatheter and the indivance the guiding catheter over both the microcatheter and microcatheter into the guiding catheter.         14       Or:         14       Or:         15       The torque tool should be attached to any portion of the removed device.         15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         16       Retract the delivery wire into the catheter.         17       Remove the delivery wire into the catheter.			delivery catheter until the Positioning Zone
<ul> <li>repositioning within the microcatheter once the distal segment is deployed.</li> <li>If desired, reposition and redeploy the Caterpillar' Arterial Embolization Device in accordance with steps 10 and 11.</li> <li>If the device position is satisfactory after deployment of the Positioning 2one, deploy the Detachment Zone (Figure 3B) by holding the delivery wire stationary and slowly retracting the delivery catheter.</li> <li>Confirm the Caterpillar'' or Caterpillar'' Micro Arterial Embolization Device position is satisfactory, complete step 14.</li> <li>Caution: If the position of the Caterpillar'' Micro Arterial Embolization Device position is satisfactory, complete step 14.</li> <li>Caution: If the position of the Caterpillar'' Micro Arterial Embolization Device position is unsatisfactory after deployment of the device, perform the following:</li> <li>a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both the delivery catheter and advance the guiding catheter over both the delivery catheter and advance the guiding catheter form the body. Discard the removed device.</li> <li>De Retract the implant and microcatheter into the guiding catheter form the body. Discard the removed device.</li> <li>To detach the Caterpillar'' and Caterpillar'' Micro Arterial Embolization Devices, twist the delivery wire that is proximal to the indicator band.</li> <li>Caution: Do not advance the delivery wire after detaching it from the device.</li> <li>Retract the delivery wire into the catheter.</li> <li>The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.</li> <li>Caution: Do not advance the delivery wire after detaching it from the device as this may alter th position of the device.</li> <li>Retract the delivery wire into the catheter.</li> <li>Remove the delivery wire from the patient and complete the procedure following standard technique the procedure</li></ul>			Note: The safety of performing more than one
accordance with steps 10 and 11.         If the device position is satisfactory after deployment of the Positioning Zone, deploy the Detachment Zone (Figure 3,B) by the Detachment Zone (Figure 3,B) by retracting the delivery wire stationary and slowly retracting the delivery wire statisfactory after deployment of the device position is satisfactory follow steps 15-17 to complete the procedure. If the device position is unsatisfactory after deployment of the device, perform the following:         a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both the microcatheter and the implant. Or:       Caution: If the Caterpillar" device position is unsatisfactory after deployment of the delivery catheter and the implant. Or:         b. Retract the implant and microcatheter into the guiding catheter.       Or:       b. Retract the implant and caterpillar" Micro Arterial Embolization Devices, twist the delivery catheter and the implant. Or:         c. Retract the implant and caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         cattories.       Cattories.         16       Retract the delivery wire into the catheter.         17       Remove the delivery wire into the catheter.	12	repositioning within the microcatheter once the	<ul> <li>b. If desired, reposition and redeploy the Caterpillar<sup>™</sup> Arterial Embolization Device in</li> </ul>
deployment of the Positioning Zone, deploy the Detachment Zone (Figure 3.B) by holding the delivery wire stationary and slowly retracting the delivery wire stationary and slowly retracting the delivery catheter. Confirm the Caterpillar" or Caterpillar" Micro Arterial Embolization Device position is statisfactory, if the position is satisfactory, follow steps 15-17 to complete the procedure. If the device position is unsatisfactory, and the Caterpillar" Micro Arterial Embolization Device to sumplete the procedure. If the device position is unsatisfactory after deployment of the device, perform the following: a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool is provided. The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band. Caution: Do not advance the delivery wire after detaching it from the device as this may alter th position of the device. 16 Retract the delivery wire into the catheter. 17 Remove the delivery wire from the patient and complete the procedure following standard techniquer A. Positioning zone			
13       If the position is satisfactory, follow steps 15-17 to complete the procedure. If the device position is unsatisfactory, complete step 14.         Caution: If the position of the Caterpillar"       Micro Arterial Embolization Device is unsatisfactory after deployment of the device, perform the following:         a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both the microcatheter and the implant.       Caution: If the Caterpillar" device position is unsatisfactory after deployment of the Detachment Zone (Figure 3, B), perform the following:         14       Or:       b. Retract the implant and microcatheter into the guiding catheter over both the delivery catheter and advance the guiding stathet.         14       Or:       b. Retract the implant and microcatheter into the guiding stathet.         14       Or:       b. Retract the implant and microcatheter into the guiding stathet.         15       Then remove the device and catheters from the body. Discard the removed device.       To detach the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire thet is proximal to the indicator band.         15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         16       Retract the delivery wire into the catheter.         17       Remove the delivery wire from the patient and complete the procedure following standard technique         16       Retract the delivery wire from the patient and complete the procedure following standard			deployment of the <b>Positioning Zone</b> , deploy the <b>Detachment Zone</b> (Figure 3,B) by holding the delivery wire stationary and slowly
<ul> <li>Micro Arterial Embolization Device is unsatisfactory after deployment of the betachment 200m (Figure 3, B), perform the following:         <ul> <li>a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both the microcatheter and the implant.</li> <li>A. Stabilize the delivery wire and microcatheter into the guiding catheter over both the guiding catheter.</li> <li>b. Retract the implant and microcatheter into the guiding catheter.</li> <li>Then remove the device and catheters from the body. Discard the removed device.</li> </ul> </li> <li>To detach the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire the implant. To facilitate detachment, a torque tool is provided.</li> <li>The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.</li> <li>Caution: Do not advance the delivery wire after detaching it from the device as this may alter the position of the device.</li> <li>Retract the delivery wire into the catheter.</li> <li>Remove the delivery wire from the patient and complete the procedure following standard technique A. Positioning zone</li> </ul>	13	If the position is satisfactory, follow steps 15-17 to	
a. Stabilize the delivery wire and microcatheter and advance the guiding catheter over both microcatheter and the implant.     Or:         b. Retract the implant and microcatheter into the guiding catheter.         Then remove the device and catheters from the body. Discard the removed device.         To detach the Caterpillar <sup>®</sup> and Caterpillar <sup>®</sup> Micro Arterial Embolization Devices, twist the delivery wire the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool is provided.         The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         Caution: On ont advance the delivery wire after detaching it from the device as this may alter th position of the device.         A. Positioning zone         A. Positioning zone         A. Positioning zone         A. Stabilize the delivery wire from the patient and complete the procedure following standard technique         A. Positioning zone		Micro Arterial Embolization Device is	is unsatisfactory after deployment of the
a. Stabulation of the delivery wire into the catheter     and advance the guiding sheath     and advance the guiding sheath     over both the delivery catheter and the     implant.     Or:         b. Retract the implant and microcatheter into         the guiding catheter.         Then remove the device and catheters from the         body. Discard the removed device.         To detach the Caterpillar <sup>™</sup> and Caterpillar <sup>™</sup> Micro Arterial Embolization Devices, twist the delivery         wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool         sprovided.         To not advance the delivery wire after detaching it from the device as this may alter th         position of the device.         A. Positioning zone			
14       implant.         Or:       b. Retract the implant and microcatheter into the guiding catheter.       Or:         Then remove the device and catheters from the body. Discard the removed device.       December 2000 and the memory of the termoved device.         To detach the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         Caution: Do not advance the delivery wire after detaching it from the device as this may alter th position of the device.         16       Retract the delivery wire into the catheter.         17       Remove the delivery wire from the patient and complete the procedure following standard technique         A. Positioning zone       A. Positioning zone			<ol> <li>Stabilize the delivery wire and delivery</li> </ol>
b. Retract the implant and microcatheter into the guiding catheter.     Then remove the device and catheters from the body. Discard the removed device.     To detach the Caterpillar <sup>™</sup> and Caterpillar <sup>™</sup> Micro Arterial Embolation Devices, twist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool is provided.     To hor torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.     Caution: Do not advance the delivery wire after detaching it from the device as this may alter th position of the device.     Retract the delivery wire into the catheter.     Remove the delivery wire into the catheter.     A. Positioning zone		and advance the guiding catheter over both	catheter and advance the guiding sheath
the guiding catheter.     Then remove the device and catheters from the     body. Discard the removed device.     To detach the Caterpillar <sup>™</sup> and Caterpillar <sup>™</sup> Micro Arterial Embolization Devices, twist the delivery     wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool     is provided.     The torque tool should be attached to any portion of the remaining exposed delivery wire that is     proximal to the indicator band.     Caution: Do not advance the delivery wire after detaching it from the device as this may alter th     position of the delivery wire into the catheter.     Remove the delivery wire from the patient and complete the procedure following standard techniqu     A. Positioning zone	14	and advance the guiding catheter over both the microcatheter and the implant.	catheter and advance the guiding sheath over both the delivery catheter and the
body. Discard the removed device.         Internetwore the device and catheters from the body. Discard the removed device.           To detach the Caterpillar" and Caterpillar" Micro Arterial Embolization Devices, twist the delivery wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool is provided.           15         The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.           Caution: Do not advance the delivery wire after detaching it from the device as this may alter the position of the device.           16         Retract the delivery wire into the catheter.           17         Remove the delivery wire from the patient and complete the procedure following standard technique           A.         Positioning zone	14	and advance the guiding catheter over both the microcatheter and the implant. Or:	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or:
wire counterclockwise until it separates from the implant. To facilitate detachment, a torque tool     is provided.     The torque tool should be attached to any portion of the remaining exposed delivery wire that is     proximal to the indicator band.     Caution: Do not advance the delivery wire after detaching it from the device as this may alter th     position of the device.     Retract the delivery wire into the catheter.     Remove the delivery wire from the patient and complete the procedure following standard techniqu     A. Positioning zone	14	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter.	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter
15       The torque tool should be attached to any portion of the remaining exposed delivery wire that is proximal to the indicator band.         Caution: Do not advance the delivery wire after detaching it from the device as this may alter the position of the device.         16       Retract the delivery wire into the catheter.         17       Remove the delivery wire from the patient and complete the procedure following standard technique         A.       Positioning zone	14	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the
proximal to the indicator band. Caution: Do not advance the delivery wire after detaching it from the device as this may alter th position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and complete the procedure following standard techniqu A. Positioning zone	14	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the i	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery
position of the device.  Retract the delivery wire into the catheter.  Remove the delivery wire from the patient and complete the procedure following standard techniqu  A. Positioning zone		and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the i is provided.	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool
Remove the delivery wire from the patient and complete the procedure following standard techniqu     A. Positioning zone		and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the i is provided. The forque tool should be attached to any portion proximal to the indicator band.	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool of the remaining exposed delivery wire that is
A. Positioning zone		and advance the quiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the i is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool of the remaining exposed delivery wire that is
	15	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device.	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool of the remaining exposed delivery wire that is
C. Radiopaque marker bands	15	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the i is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device.	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the
	15 16 17 A.   B.	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and com Positioning zone Detachment zone	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the
	15 16 17 A.   B.	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and com Positioning zone Detachment zone	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the
	15 16 17 A.   B.	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and com Positioning zone Detachment zone	catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the
	15 16 17 A.    B.	and advance the guiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and com Positioning zone Detachment zone	achteter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the pipele the procedure following standard technique
	15 16 17 A.    B.	and advance the quiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and con Positioning zone Detachment zone Radiopaque marker bands	Catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the pipele the procedure following standard technique
	15 16 17 A.   B.	and advance the quiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and con Positioning zone Detachment zone Radiopaque marker bands	Catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the pipele the procedure following standard technique
	15 16 17 A.   B.	and advance the quiding catheter over both the microcatheter and the implant. Or: b. Retract the implant and microcatheter into the guiding catheter. Then remove the device and catheters from the body. Discard the removed device. To detach the Caterpillar" and Caterpillar" Micro wire counterclockwise until it separates from the is provided. The torque tool should be attached to any portion proximal to the indicator band. Caution: Do not advance the delivery wire after position of the device. Retract the delivery wire into the catheter. Remove the delivery wire from the patient and con Positioning zone Detachment zone Radiopaque marker bands	Catheter and advance the guiding sheath over both the delivery catheter and the implant. Or: b. Retract the implant and delivery catheter into the guiding sheath. Then remove the device and catheters from the body. Discard the removed device. Arterial Embolization Devices, twist the delivery mplant. To facilitate detachment, a torque tool or of the remaining exposed delivery wire that is detaching it from the device as this may alter the pipele the procedure following standard technique

## L. Disposal Instructions

After use, the delivery system is a potential biohazard. Handle and dispose of it in accordance with accepted medical practice and applicable local, state and federal laws and regulations.

### **M.Patient Implant Information Card**

A Patient Implant Information Card is provided with this device. The Patient Data, Implant Data, and Hospital Data should be carefully recorded on the card and given to the patient.

Apply one of the peel-off stickers found on the product label on the pouch to the indicated area on the Patient Implant Information Card. This peel-off sticker contains important information about the patient's embolic implant. The patient should carry this card with them and provide to any medical personnel caring for the patient in the future.

### N. Warranty

ClearStream Technologies Ltd warrants to the first purchaser of this product that this product will be free from defects in materials and workmanship for a period of one year from the date of first purchase and liability under this limited product warranty will be limited to repair or replacement of the defective product, in ClearStream's sole discretion or refunding your net price paid. Wear and tear from normal use or defects resulting from misuse of this product are not covered by this limited warranty.

TO THE EXTENT ALLOWABLE BY APPLICABLE LAW, THIS LIMITED PRODUCT WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL CLEARSTREAM BE LIABLE TO YOU FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM YOUR HANDLING OR USE OF THIS PRODUCT.

Some states/countries do not allow an exclusion of implied warranties, incidental or consequential damages. You may be entitled to additional remedies under the laws of your state/country.

An issue or revision date and a revision number for these instructions are included for the user's information on the last page of this booklet. In the event 36 months have elapsed between this date and product use, the user should contact ClearStream Technologies Ltd to see if additional product information is available.



Use-By Date



Contents: (1)



Manufacturer



Catalogue Number



Do Not Resterilize



Single Use



Non-Pyrogenic



Keep Dry



Keep Away From Sunlight

STERILEE0 Sterilized Using Ethylene Oxide



MR Conditional



Do Not Use if the Product Sterile Barrier System or its Packaging is Compromised



Not Made With Natural Rubber Latex



Copyright © 2020 BD. All rights reserved.



BD, the BD logo, Bard, and Caterpillar are trademarks of Becton, Dickinson and Company or its affiliates. All other trademarks are the property of their respective owners.

Distributed by: Bard Peripheral Vascular, Inc. www.bardpv.com/caterpillar-ifu.php TEL: 1-800-321-4254

Manufacturer: ClearStream Technologies Ltd. Moyne Upper Enniscorthy Co. Wexford, Ireland



