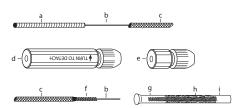


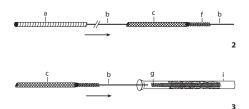
MReye® Flipper® Detachable Embolization Coil and Delivery System

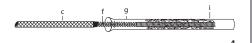
Instructions for Use

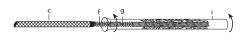




- a) Handle of Straightening Mandril
- b) Straightening Mandril
- c) Coil Delivery Wire
- d) Pin Vise
- e) Adapter for protection during shipment/storage only
- f) Thread of Delivery Wire
- g) Thread of Coil
- h) Detachable Embolization Coil
- i) Coil Loading Cartridge

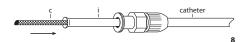


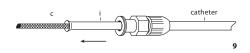


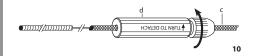


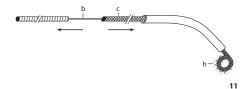


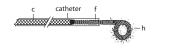


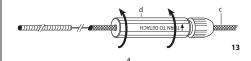












MREYE® FLIPPER® DETACHABLE EMBOLIZATION COIL AND DELIVERY SYSTEM

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

DEVICE DESCRIPTION

MReye Flipper Detachable Embolization Coils are made of Inconel® with synthetic fibers. The delivery system consists of a PTFE-coated stainless steel delivery wire, a straightening mandril and a pin vise handle for detachment. The MReye Flipper Detachable Embolization Coil is designed to be delivered under fluoroscopy to the target vessel.

INTENDED USE/INDICATIONS FOR USE

MReye Flipper Detachable Embolization Coils are intended for arterial and venous embolization in the peripheral vasculature.

CONTRAINDICATIONS

None known

WARNINGS

- · Do not remove the coil from the cartridge.
- Do not rotate the delivery wire counter-clockwise during insertion; rotation might detach the coil inadvertently.
- After the detachable coil delivery system with the coil has been introduced into the catheter, it is important that the coil does not exit the catheter tip until the mandril has been pulled back. Otherwise, the catheter may be dislodqed from its desired position within the target vessel.
- Not recommended for use with polyurethane or polyvinylchloride catheters. Coil may become lodged in lumen.

PRECAUTIONS

- This product is intended for use by physicians trained and experienced in diagnostic and interventional techniques. Standard techniques for placement of vascular access sheaths, angiographic catheters and wire quides should be employed.
- · Manipulation of products requires fluoroscopic control.
- Perform an angiogram prior to embolization.
- The angiographic catheter must be flushed with saline prior to introduction of the detachable coil.
- It is important to follow the loading procedure carefully in order to avoid complications during attachment and detachment of the coil.

- Ensure that the straightening mandril is at the tip of the coil during advancement through the catheter; if not, the coil may start coiling up inside the catheter, which may complicate detachment.
- If, at any time during the procedure (advancement or detachment), resistance is felt, do not attempt to use force to overcome the problem; remove and replace the whole system if necessary.

PRODUCT RECOMMENDATIONS

In order to obtain stability during coil introduction, a 5 French or larger, non-tapered (NT) end hole multipurpose catheter without sideports is recommended. The catheter must have a minimum I.D. lumen of .041 inches or larger.

MRI INFORMATION



Nonclinical testing has demonstrated that single and multiple MReye Flipper Detachable Embolization Coils are **MR Conditional** according to ASTM F2503. A patient with this device may be safely scanned after placement under the following conditions.

- · Static magnetic field of 3.0 Tesla or 1.5 Tesla only
- Maximum magnetic field spatial gradient of 1600 Gauss/cm (16 T/m) or less
- Maximum MR system reported, whole-body-averaged specific absorption rate (SAR) of ≤ 2.0 W/kg (Normal Operating Mode)

MRI-Related Heating

Under the scan conditions provided above, the MReye Flipper Detachable Embolization Coil is not expected to result in a temperature rise of more than 3.1 °C after 15 minutes of continuous scanning.

Image Artifact

The image artifact extends approximately 12 mm from the MReye Flipper Detachable Embolization Coil as found during nonclinical testing when imaged with a gradient echo pulse sequence and a 3.0 Tesla MRI system.

For US Patients Only

Cook recommends that the patient register the MR conditions disclosed in this IFU with the MedicAlert Foundation. The MedicAlert Foundation can be contacted in the following manners:

Mail: MedicAlert Foundation International

2323 Colorado Avenue

Turlock, CA 95382 Phone: 888-633-4298 (toll free)

209-668-3333 from outside the US

Fax: 209-669-2450

Web: www.medicalert.org

INSTRUCTIONS FOR USE

Loading Procedure

- Remove adapter (e), which is used for protection during shipment/storage. (Fig. 1) Carefully remove the coil delivery wire from the spiral holder to avoid kinking the straightening mandril.
- Advance the handle of the straightening mandril (a) until it meets the coil delivery wire (c). (Fig. 2)
- Introduce the straightening mandril (b) into the flared end of the coilloading cartridge (i) and into the center of the thread part of the coil (g). (Fig. 3)
- 4. Advance the coil-loading cartridge (i) until the threads of coil (g) and delivery wire (f) meet. (Fig. 4)
- 5. Turn the coil-loading cartridge (i) clockwise to join the thread of the coil (g) with the thread of the delivery wire (f). Continue the clockwise rotation of the coil-loading cartridge (i) to engage the thread of the coil (g) until they are almost completely joined. (Fig. 5)
- 6. To prepare the device and check the detachment mechanism, turn the coil-loading cartridge (i) counter-clockwise to leave a gap of 1 mm between the thread of the delivery wire (f) and the coil (h). (Fig. 6)
- 7. To keep the detachable embolization coil (h) straight, advance the straightening mandril (b) in small increments until it reaches the tip of the coil. (Fig. 7) Stop once resistance is met.

Coil Deployment

NOTE: Before performing the following steps, ensure that the loading procedure described above has been successfully completed.

- 1. Perform an angiogram to confirm vessel anatomy.
- Introduce the coil-loading cartridge (i) into the hub of the catheter. Make sure the straightening mandril remains at the tip of the coil. Advance the coil delivery system through the coil-loading cartridge into the catheter. Care should be taken not to kink the coil delivery wire upon advancement. (Fig. 8)

WARNING: Do not rotate the coil delivery wire (c) counterclockwise during insertion through the catheter, as inadvertent detachment of the embolization coil within the catheter may occur.

- 3. Withdraw the cartridge (i) over the delivery wire (c). (Fig. 9)
- Place the pin vise (d) on the proximal portion of the coil delivery wire (c) and lock the pin vise in place. Under fluoroscopic control, advance the coil delivery wire in order to place the coil at the tip of the catheter. (Fig. 10)
- 5. With the catheter in place, maintain position of the straightening mandril (b) at the tip of the coil. Subsequently withdraw the straightening mandril (b) and correspondingly advance the delivery wire (c) to form 1 or 2 loops into the vessel. (Fig. 11) Continue deploying the coil until the entire length of coil exits the distal end of the catheter.

WARNING: Do not expose the screw threads beyond the distal tip of the catheter. This prevents kinking of this portion of the device. Kinking will make detachment from the delivery wire difficult. (Fig. 12)

6. If the detachable embolization coil (h) position is unsatisfactory, pull the coil back into the catheter. Due to clot formation on the coil fibers, prolonged exposure to the blood system may make coil retrieval difficult. It is recommended to exchange to a new embolization coil before continuing with the procedure.

WARNING: If difficulties occur when detaching the embolization coil, or if resistance is felt when withdrawing the delivery wire, stop and evaluate the position of the coil, delivery wire and catheter tip. If the problem persists, remove the catheter and the delivery wire with the coil simultaneously and replace the whole system.

- 7. With the desired coil position obtained, keep the catheter in place and gently turn the pin vise (d) counter-clockwise to detach the delivery wire (c) from the coil. (Fig. 13)
- Gentle traction on the delivery wire will determine whether detachment has occurred. Using fluoroscopy to confirm that the coil has been detached, remove the delivery system.
- Remove the delivery wire. If the proximal screw-thread of the coil has not exited the tip of the catheter, it should be pushed out using a floppytipped wire guide. Do not use the screw-thread of the delivery wire, as entanglement may occur. Insert further embolization coils as required.
- 10. The delivery wire may be used for multiple coil placements within a single procedure. Inspect the delivery wire prior to re-use to ensure that it has not been damaged during its initial use.

HOW SUPPLIED

Supplied sterilized by ethylene oxide gas in peel-open packages. Intended for one-time use. Sterile if package is unopened and undamaged. Do not use the product if there is doubt as to whether the product is sterile. Store in a dark, dry, cool place. Avoid extended exposure to light. Upon removal from package, inspect the product to ensure no damage has occurred.

REFERENCES

These instructions for use are based on experience from physicians and (or) their published literature. Refer to your local Cook sales representative for information on available literature.





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MANUFACTURER
WILLIAM COOK EUROPE ApS
Sandet 6, DK-4632
Bjaeverskov, DENMARK

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