Foreign body retrieval: use of snares
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25 February 2012
ASDIN Pre-course

Retained foreign body
• fractured/ruptured balloon
  – significantly exceeding RBP
  – inflating within a sheath
  – forcibly pulling a balloon through a sheath before it is completely deflated
• fractured sheaths
  – repeated cannulation of a sheath
  – inflating a balloon within a sheath
  – pulling sheath behind an occlusive suture
• disrupted wires
  – wires without a safety core (J-wire)
  – forcibly pulling a wire after it is kinked or coiled
• migrated or poorly positioned coils
  – undersized coils
  – pulling back on (diagnostic) delivery catheter before entire coil unravels

Amplatz® Goose-neck snare (ev3)
• single 90° coil
• gold-tungsten loop
• 15-35 mm diameter

EnSnare® (Merit Medical)
• interlaced nitinol loops
  – incorporated platinum strands
• radiopaque marker band
• fluoroscopic visibility
• kink resistant
• torque control
• 15° angled tip
EN Snare® Technical Details

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<th>EN Snare® Catalog Number</th>
<th>Product Description</th>
<th>Snare ID (mm)</th>
<th>Snare Length (cm)</th>
<th>Collapsed Snare Diameter (mm)</th>
<th>Catheter Length (cm)</th>
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Kit Components

- Introducer
- Catheter
- Torquing device
- Snare shaft
- Delivery catheter
- Torquing device

3/1/2012
Procedure

1. Pass wire beyond target object.
   - (May also position behind target object.)
2. Position diagnostic catheter (straight or hockey-stick) close to target object.
3. Feed snare into diagnostic catheter and position beyond target object.
4. Pull back diagnostic catheter.
5. Using a torqueing motion, grab the target.
6. **Push** the diagnostic catheter to close the lasso of the snare and tighten.
7. Pull the snare, dragging the target object with it.

![Ensnare™ snaring a retained fragment of catheter](image)
**Coding**

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**Additional uses for snares**

- Non-functioning right J catheter
- Diagnostic angiogram performed via catheter inserted in R femoral vein
- Snare grabs end of catheter and is pulled down to desired (correct) position
Migrated stent

- endovascular options
  - retrieve stent
  - pull back
  - trap in place with another stent
- mechanisms
  - poorly sized stent
  - insufficient wall contact

Summary

- Do you have a snare kit?
  - What size?
  - Where is it?
- For retrieval of foreign body, easiest with large (9Fr) long (35cm) sheath.
- Push sheath/catheter towards snared object.
- Good luck.