Catheters, Guidewires, Glidewires and more:
How I get around the bends.

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Catheter Shapes

- Renal Artery Stenosis

**Shaft Cross Section**
3 layered nylon elastomer w/SUS mesh

- Hard inner layer
- Medium middle layer
- Soft outer layer

Max. GW 0.036"

5Fr: 1.10mm
6Fr: 1.20mm

Stainless steel mesh

Max Press: 1000psi
Task of Guide Wires

- 1. Guide catheter into vessels
- 2. Select vessel branches to guide catheters
- 3. Exchange catheters
- 4. Back up support for catheter
- 5. Recanalize vessel occlusion

Tip Shape

- Straight: Linearity rather than selectivity
- J-type: Prevent aberrant selection of side branches
- Angled: Selective
Microcatheters
Creating the Correct Catheter Formation
Steam Shaped Microcatheters
Which Path to take in the Arteries: Arm or Groin
Turn Back Technique
Pelvic Varices
Venogram with Guiding Catheter for a Varicocoel
Hepatic Angiogram with Angiographic Catheter and Microcatheter
Right Gastric Artery with Coils in the Gastrduodenal Artery
Hepatic Artery Aneurysms – access from the arm – Coil Embolisation
Oclusion of the Coeliac Artery Supply from the SMA – Catheter in SMA and Microcatheter in the branches
Filters
Types of Filters.

- **PERMANENT:**

- **OPTIONAL:**

- **Retrievable** – No outside anchor and filter to be removed at a later date or to convert to a permanent filter.

- **Temporary** – Outside anchor and must be removed as a result of their design constraints.
Permanent IVC Filter

Over-the-Wire
Greenfield Vena Cava Filter

St. Vincent's Sydney
Optional / Retrievable Filter

1. Optease / CORDIS

21 days
Retrievable Filter COOK / Celect

360 days
Retrievable Filter BARD

260 days
THANK YOU