

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



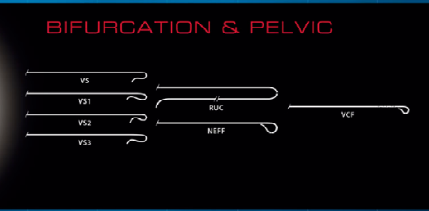
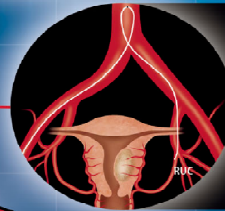
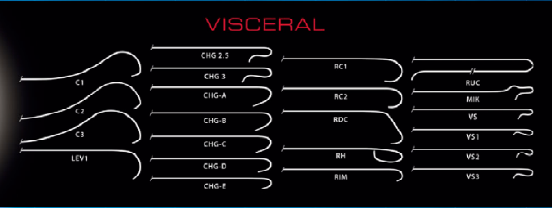
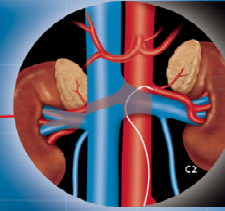
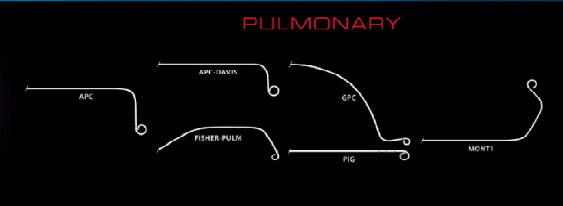
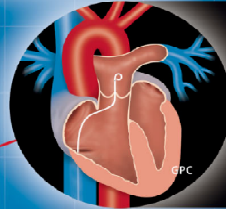
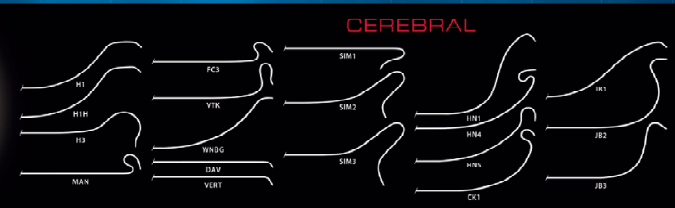
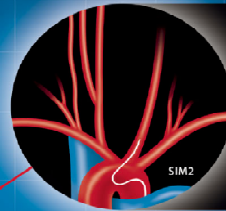
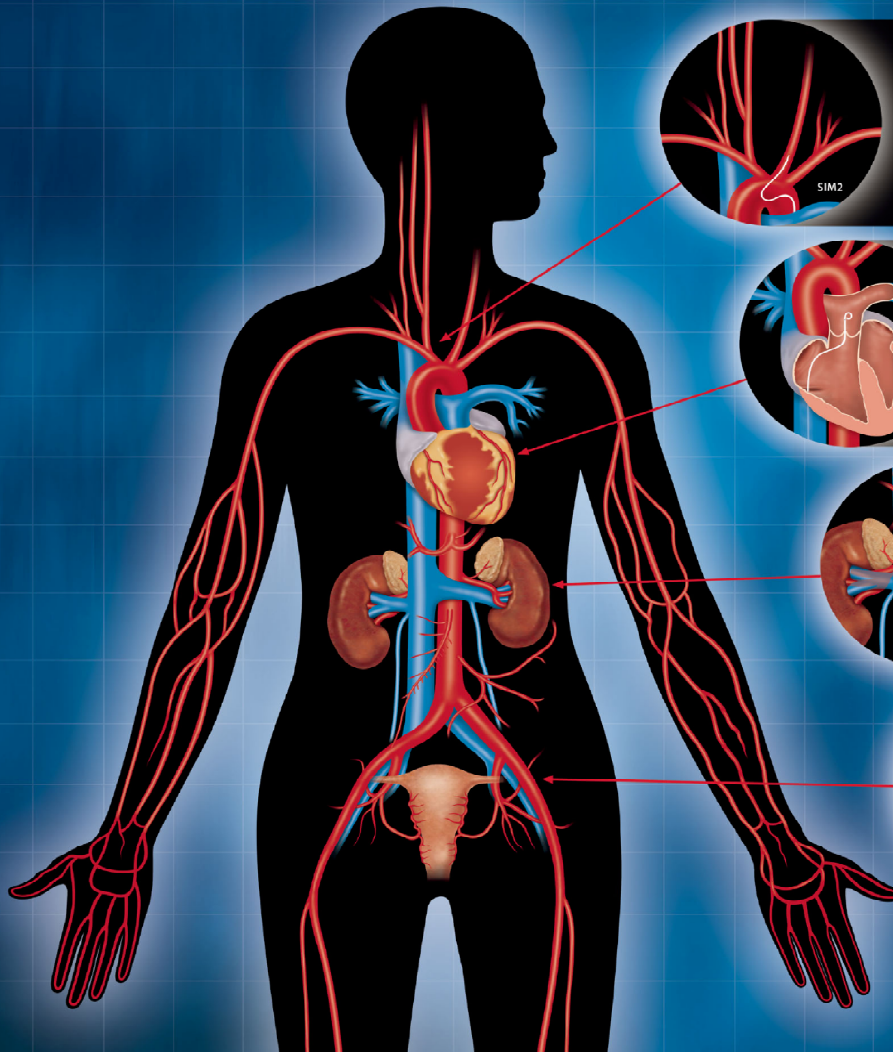
A/Prof Lourens Bester  
Head of Interventional Radiology  
St Vincent's Hospital  
University of New South Wales  
Sydney



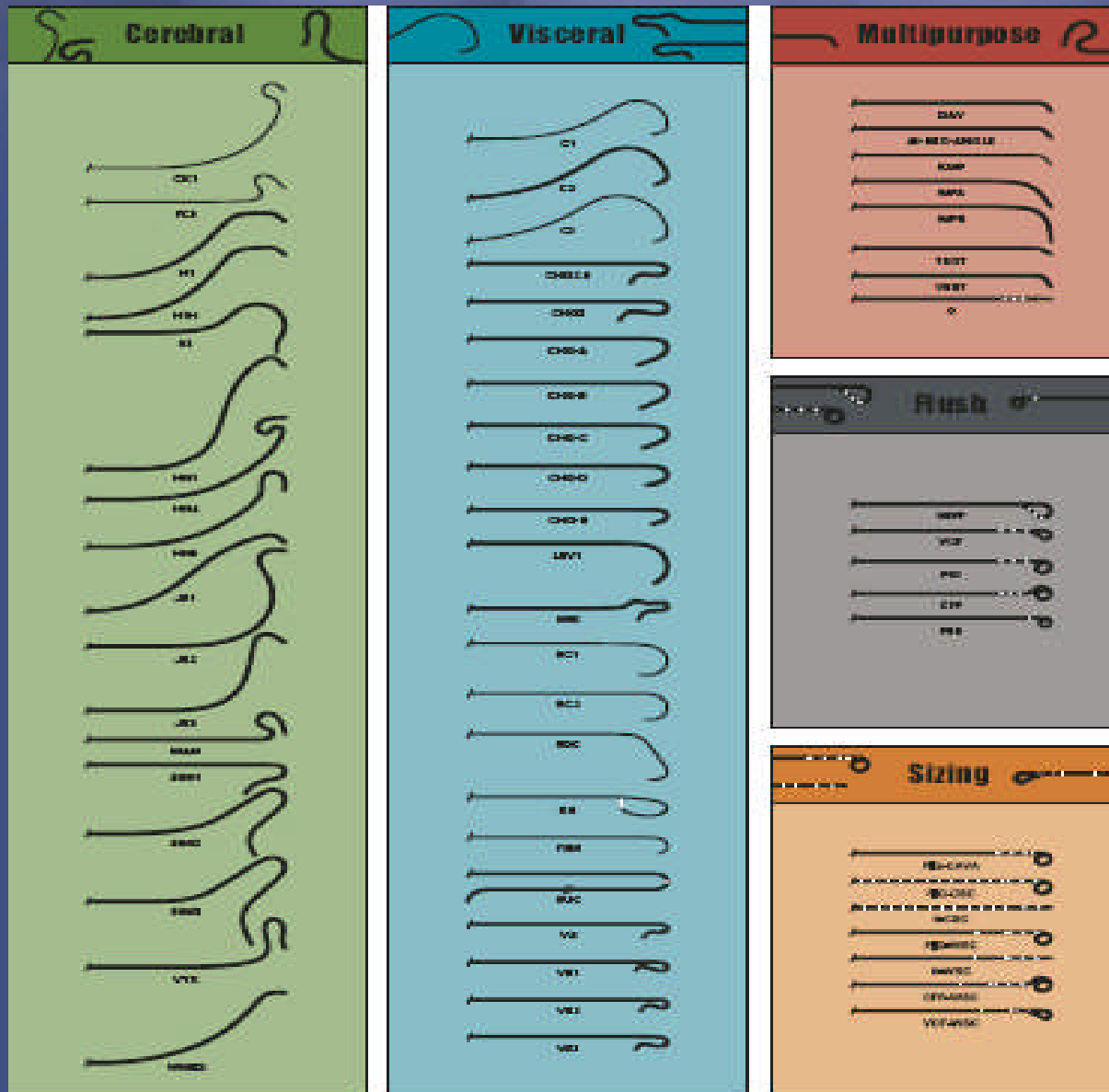
UNIVERSITY OF NEW SOUTH WALES

# Catheters

## CATHETERS FOR DIAGNOSIS & INTERVENTION

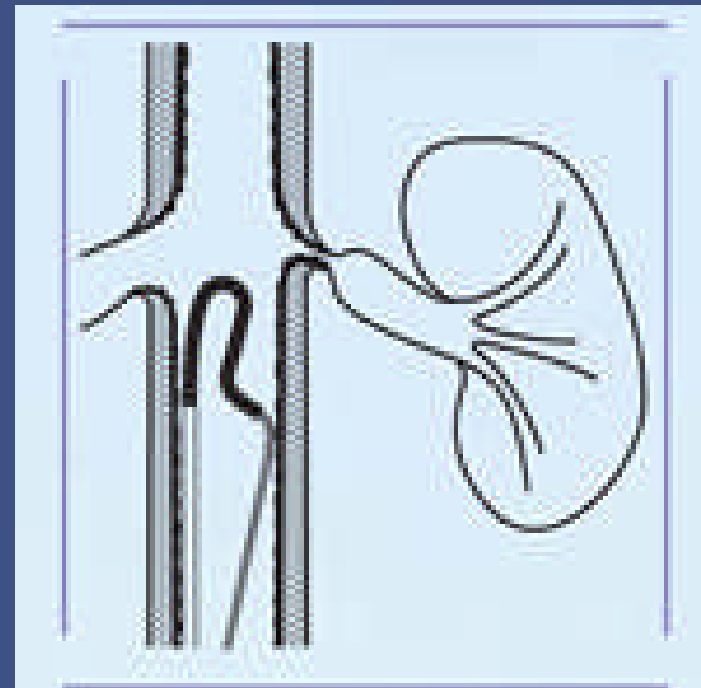
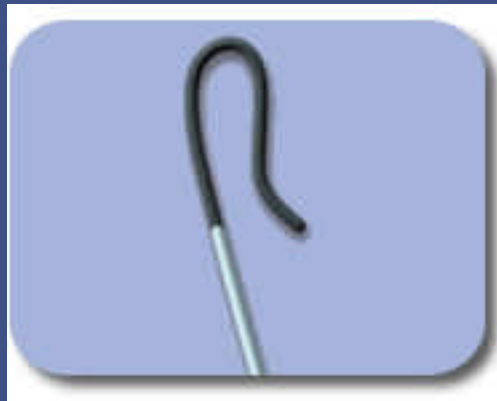


# Catheters Shapes



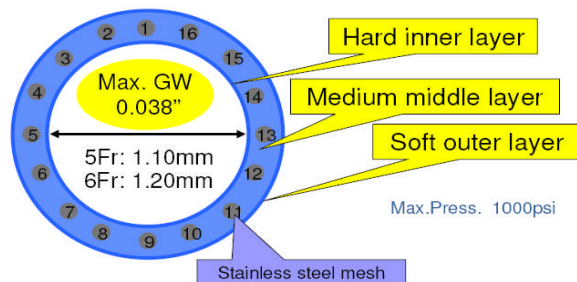
# Catheter Shapes

- Renal Artery Stenosis



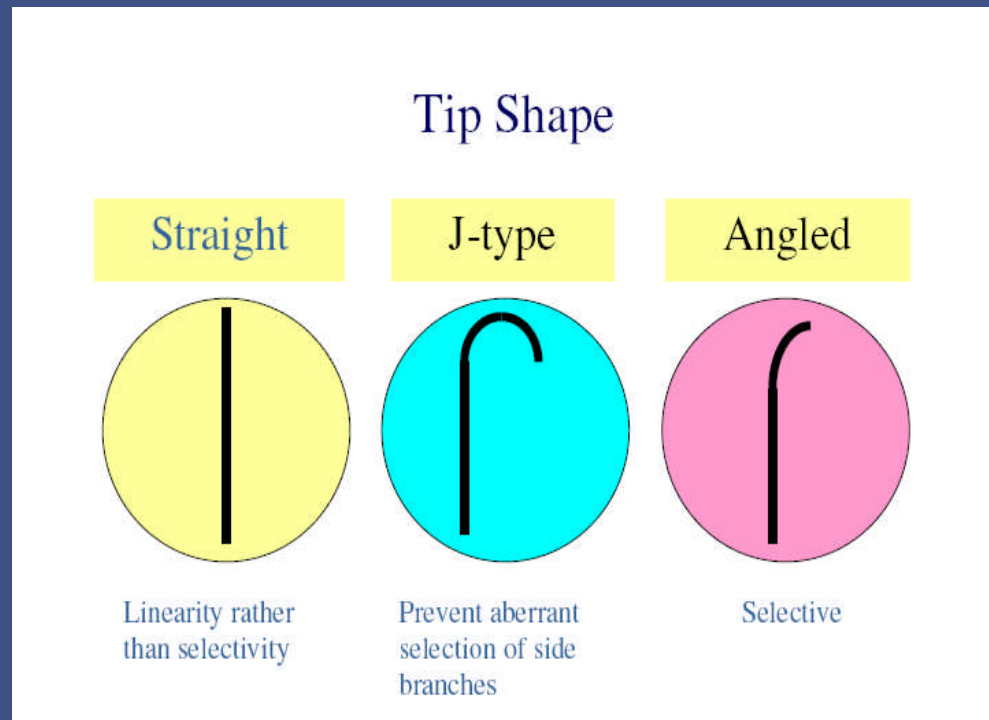
## Shaft Cross Section

3 layered nylon elastomer w/SUS mesh

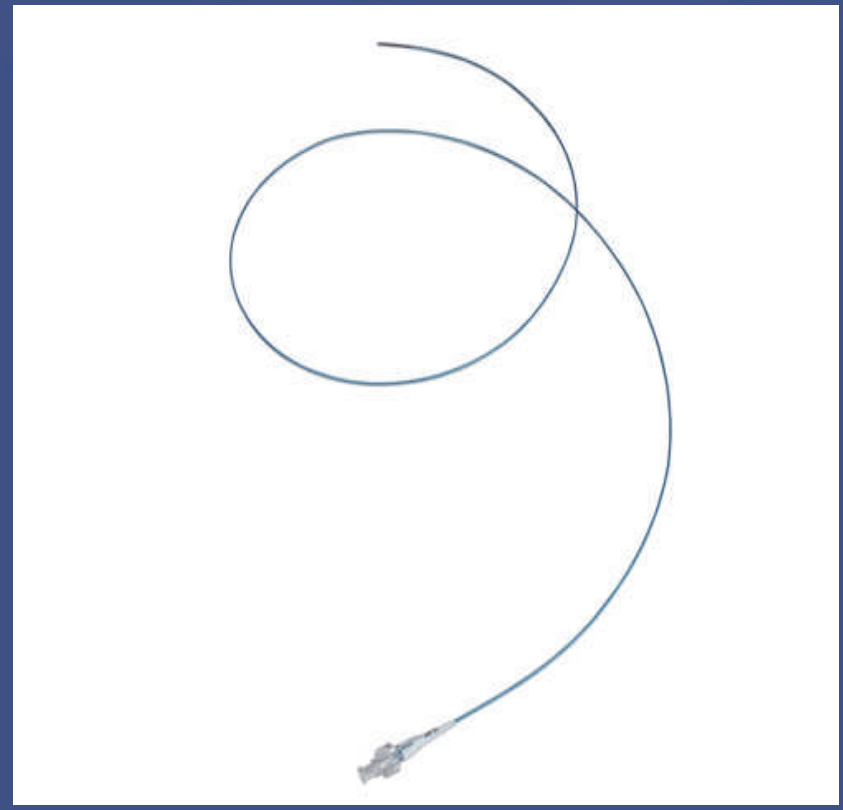


# Task of Guide Wires

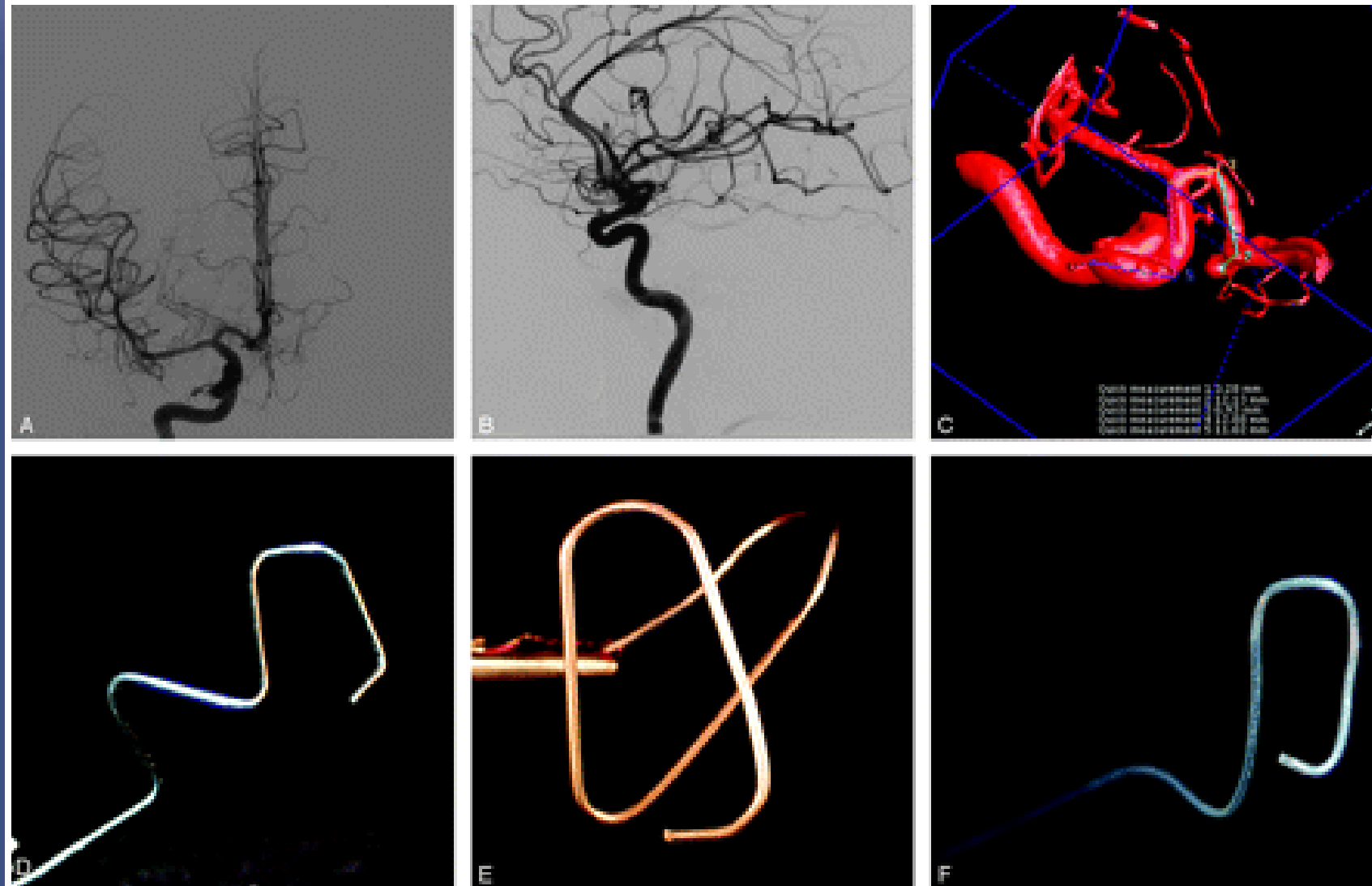
- 1. Guide catheter into vessels
- 2. Select vessel branches to guide catheters
- 3. Exchange catheters
- 4. Back up support for catheter
- 5. Recanalize vessel occlusion



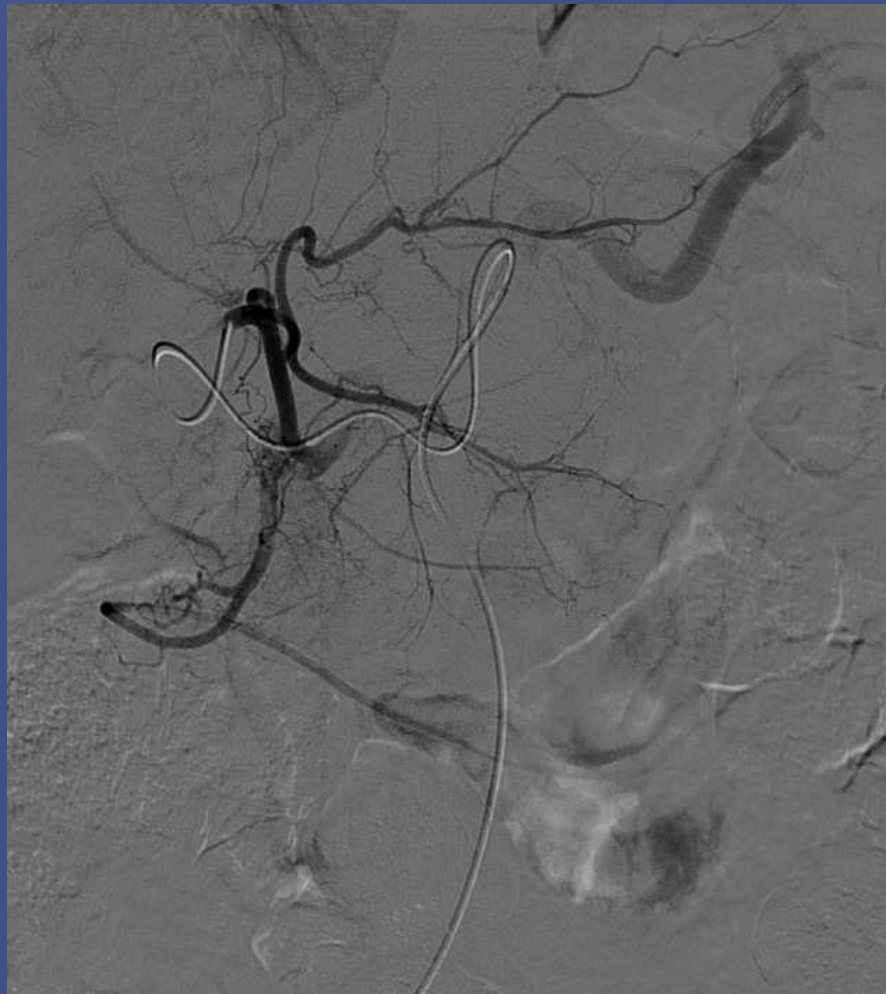
# Microcatheters



# Creating the Correct Catheter Formation

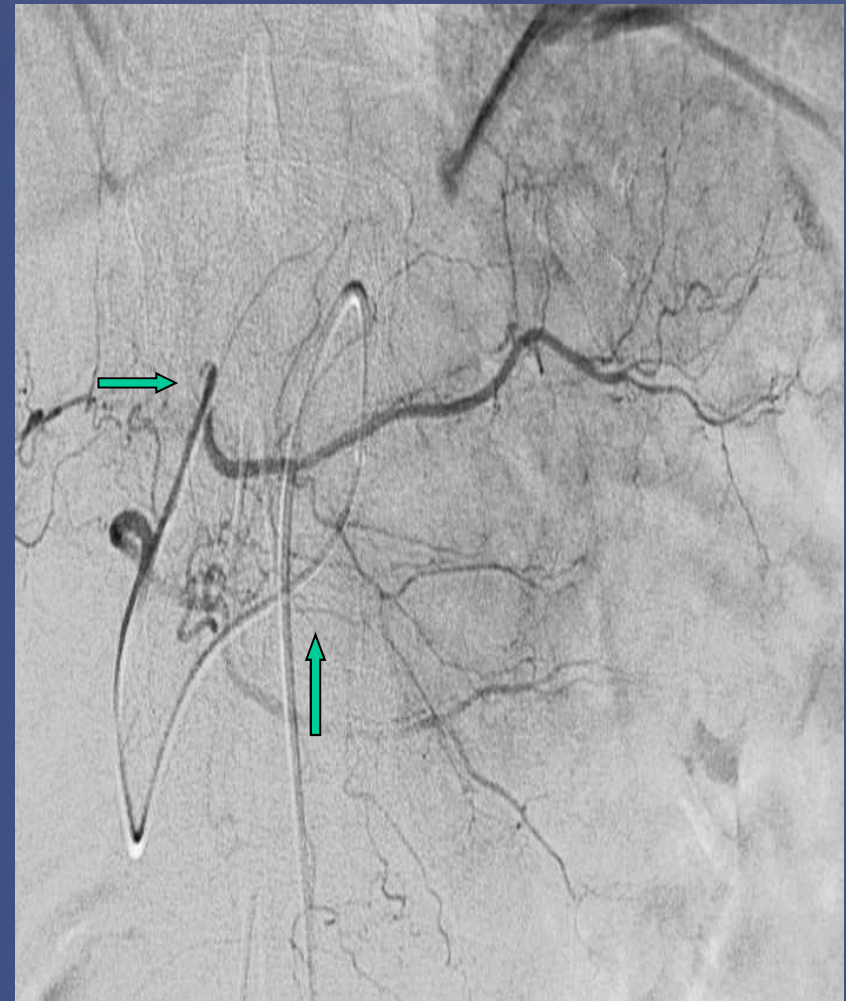
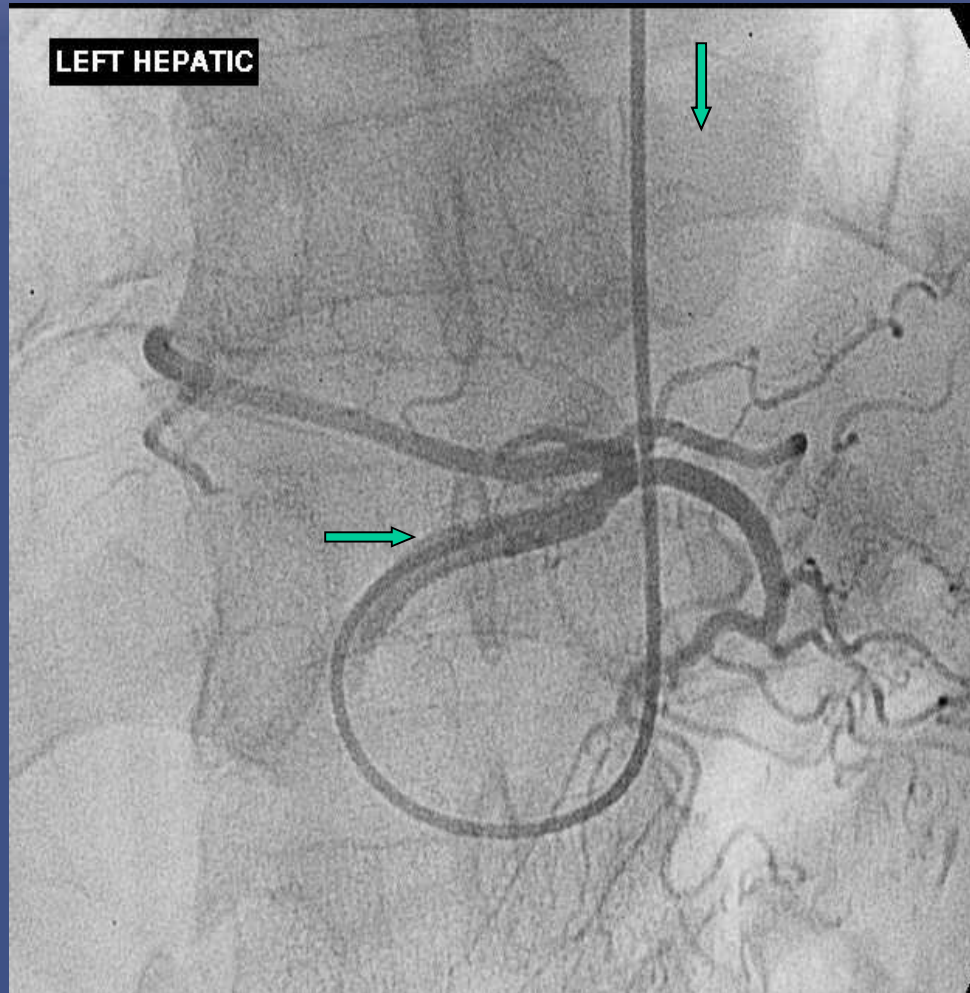


# Steam Shaped Microcatheters





# Which Path to take in the Arteries Arm or Groin



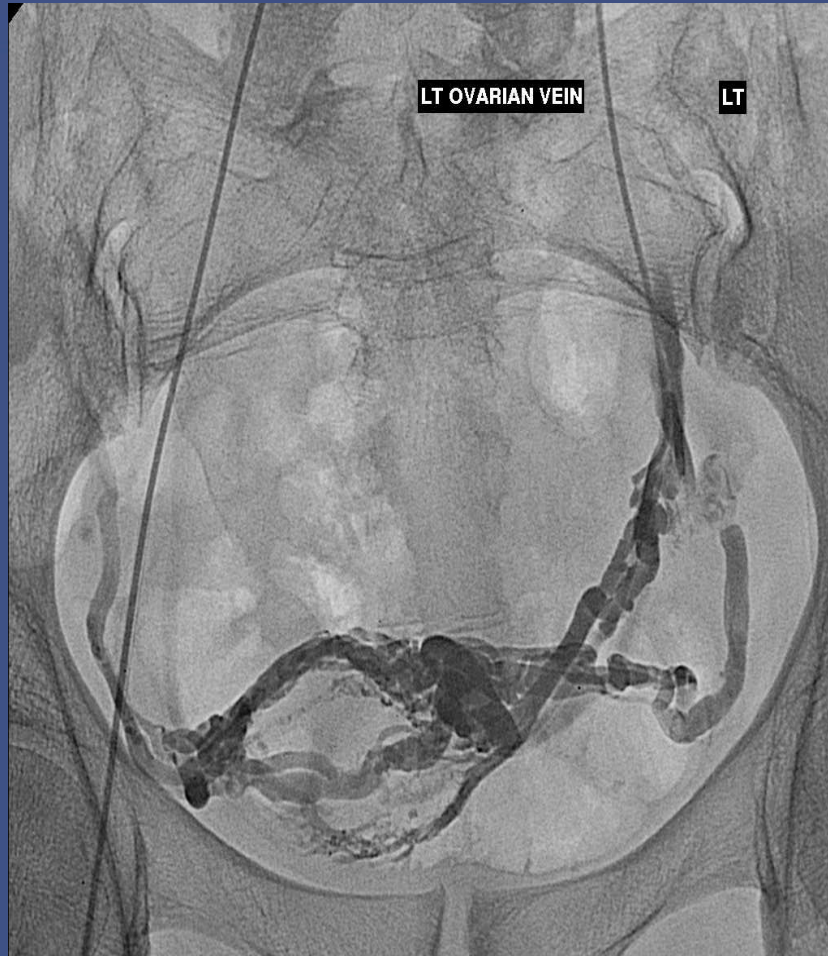
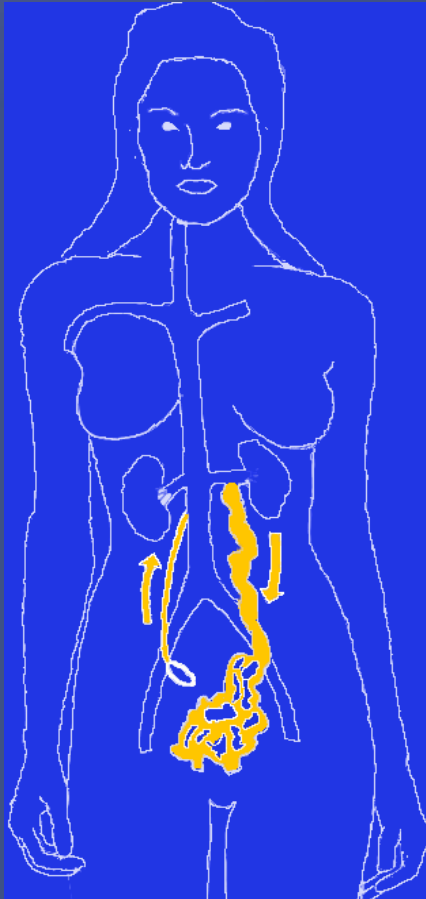
# Turn Back Technique



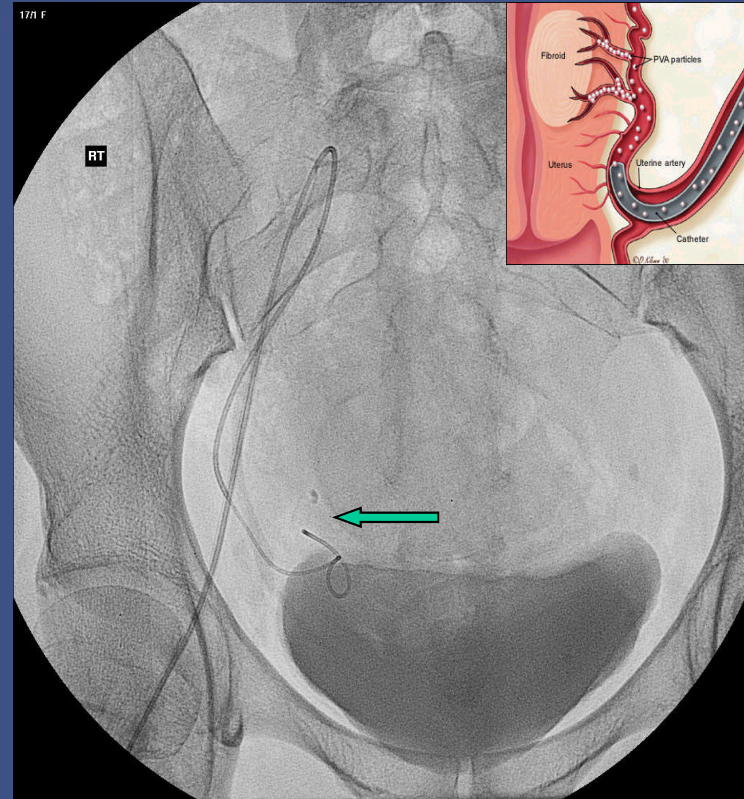
Fig. 1



# Pelvic Varices



# Uterine Fibroid Embolisation



# Venogram with Guiding Catheter for a Varicocoele



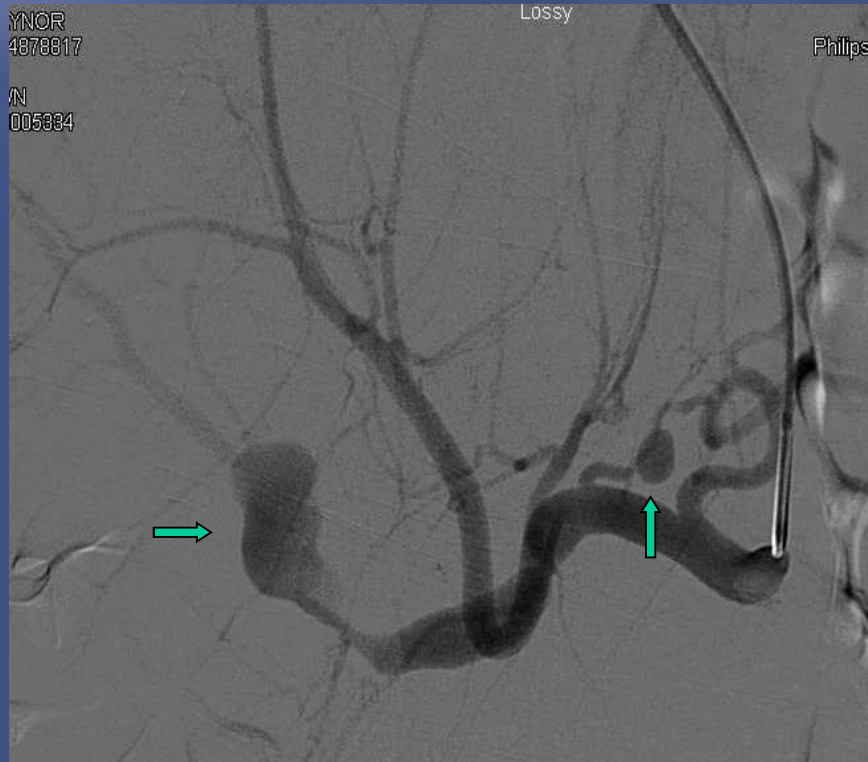
# Hepatic Angiogram with Angiographic Catheter and Microcatheter



# Right Gastric Artery with Coils in the Gastrduodenal Artery



# Hepatic Artery Aneurysms – access from the arm – Coil Embolisation



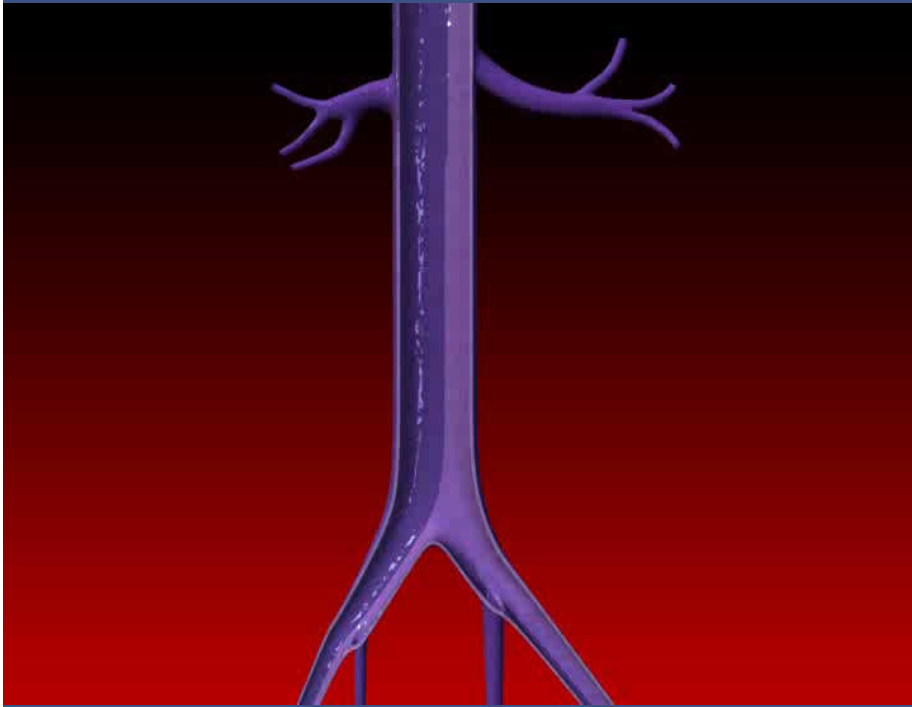




Occlusion of the Coeliac Artery Supply from the SMA – Catheter in SMA and Microcatheter in the branches



# Filters



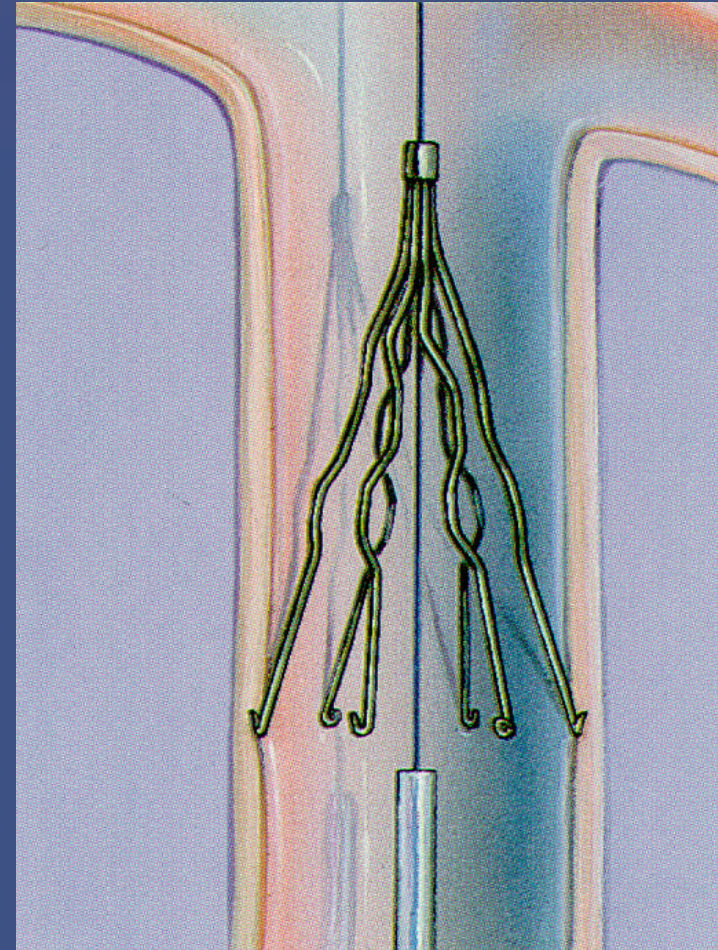
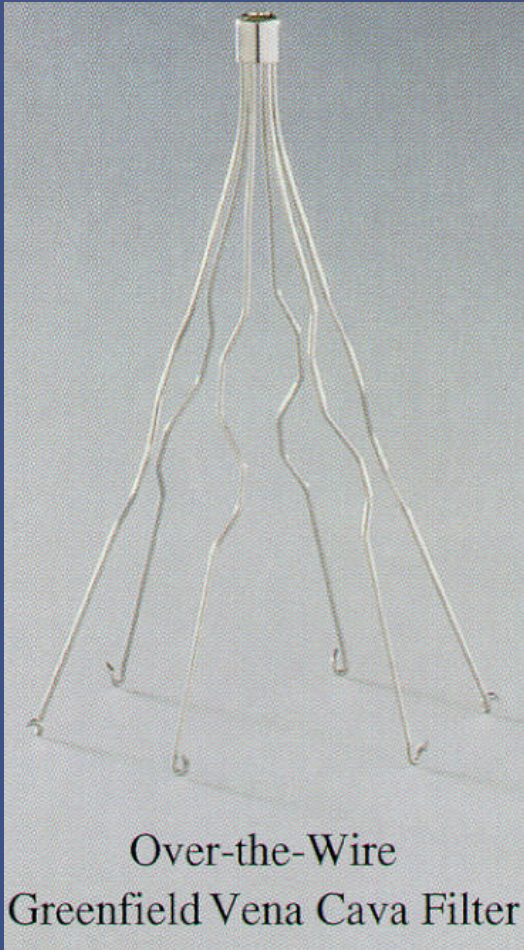
## Types of Filters.

***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

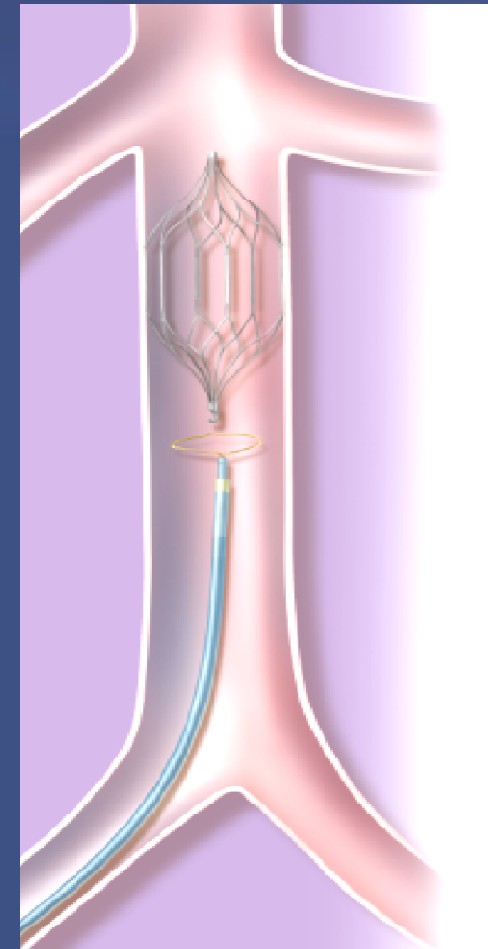
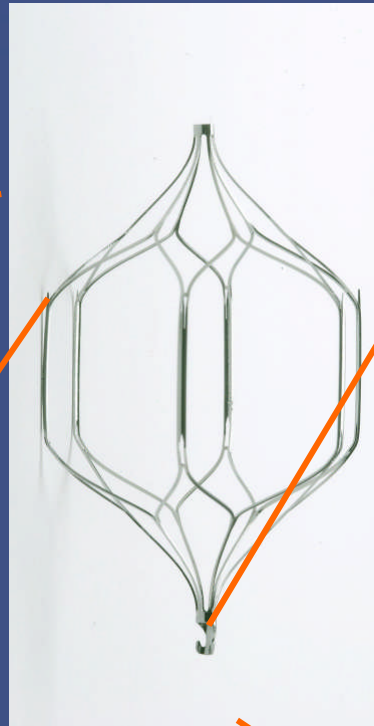


# Optional / Retrievable Filter

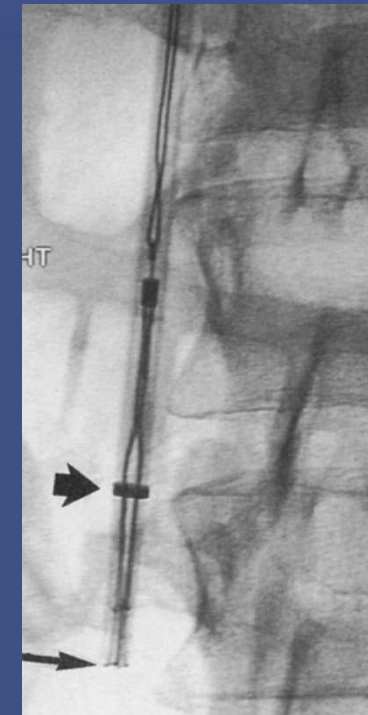
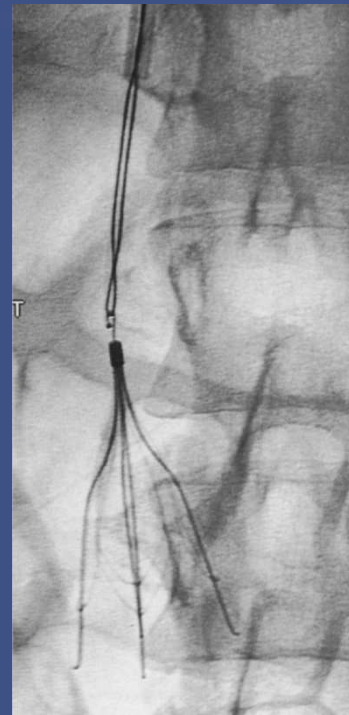
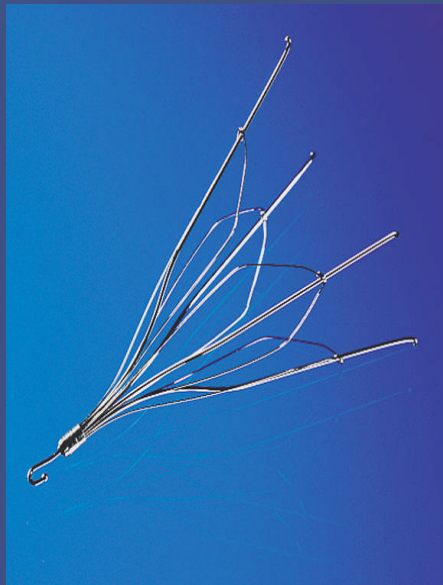
# 1. Optease / CORDIS



21 days

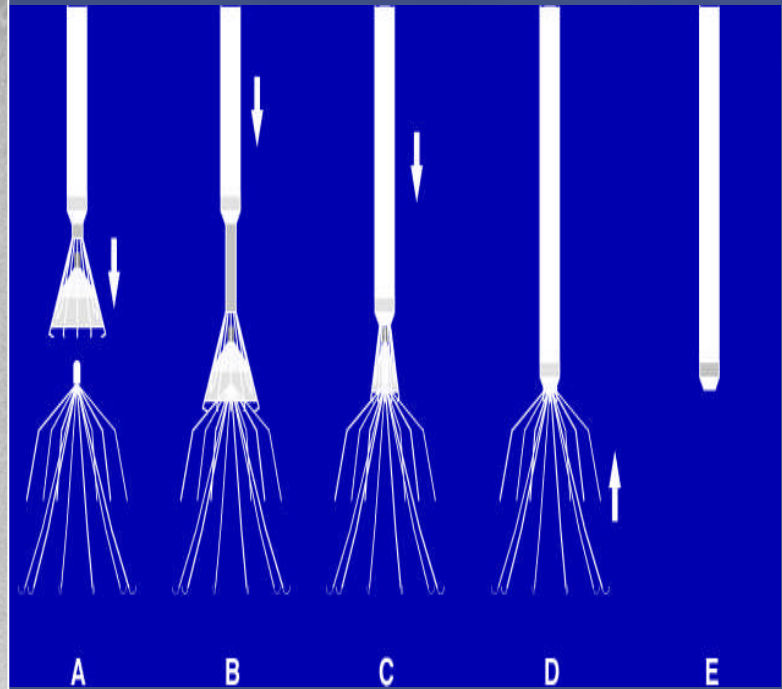
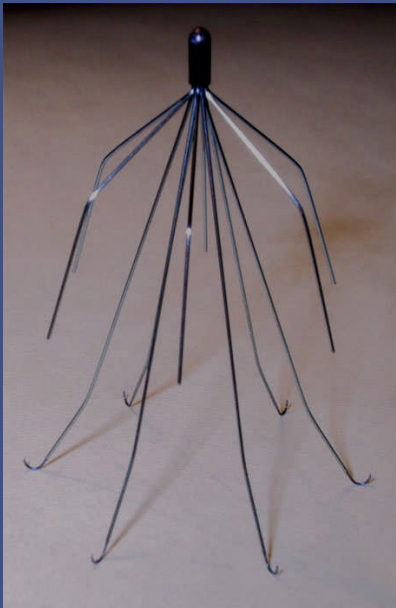


# Retrievable Filter COOK / Celect



360 days

# Retrievable Filter BARD



260 days

THANK YOU