Arterial Embolization: Lantern Microcatheter and RUBY and POD Coils
Advantages and Limitations

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Disclosures
- Advisory Board: Terumo Interventional Systems, Embolx
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What is RUBY?
- Mechanical detachment
- Fully reseatable
- Standard and soft
- More material - use less coils!

GDA - Vessel Sacrifice
Complete Occlusion 1 week FU angiogram
45 y/o male post partial nephrectomy with hematuria

20mm x 60 cm & 16mm x 50cm RUBY – 2 coils!

Complex Subclavian Aneurysm – 3 60cm RUBY coils

Pulmonary AVM – previous coil failure

AAA pre-EVAR with accessory L renal artery

2 RUBY Coils – Complete Occlusion
What is POD?

- Peripheral Occlusion Device
- Properties of soft coils with anchoring support
- Vessels 3.25mm to 8mm
- High Flow Microcatheter

Anchor Segment

Packing Segment

4 mm Coil

POD 4

Splenic Artery

Stand coil won't anchor

POD 8 used

POD - Tips

- Place microcatheter deeper than with Ruby
  - Should form closer to microcatheter tip
- Size 1:1 - No need to oversize!

63 y/o male with HCC, mapping for Y90 radioembolization

Stand coil won't anchor

POD 8 used

63 y/o male with HCC, mapping for Y90 radioembolization
8 mm x 60 cm POD - What happens when you oversize!

POD Followed by 6mm x 30 cm Ruby - Better Packing

50 y/o male w/ recurrent duodenal bleeding POD 4 mm x 30

75 y/o woman with HCC pre Y90 - POD 4mm x 30

POD Packing Coil
- Shapeless
- 15, 30, 45, 60 cm length
- No diameter
- Will confirm to vessel
- Long soft coil
- Vessel Sacrifice

LANTERN Microcatheter - What is the problem??
- Low Profile Microcatheters (.021) have limited lumen space
- High Flow Microcatheters (.027) not designed to deliver coils
- Larger microcatheters are not as trackable
LANTERN Microcatheter
- Sweet Spot (.025)
  - High-flo, trackable and coil delivery
- 3cm Radiopaque tip
- Coil wound construction with 8 transition zones

POD Deployment - 5mm x 30 cm in LANTERN

In Summary
- Coil technology allows for faster more complete embolization
- Less coils needed
- BEST OF BOTH WORLDS: MORE COIL, SOFTER and MORE PUSHABLE!
- Finally a microcatheter/coil combination that works....