

CTOs

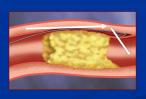
- Percutaneous treatment of peripheral arterial Occlusion has evolved greatly:
- 1. Improvement in Techniques, Wires, Catheters, Balloons and stents Lower Profile System. Atherectomy Devices
- 2. Devices to Cross the Occlusion and Re-enter the True Lumen

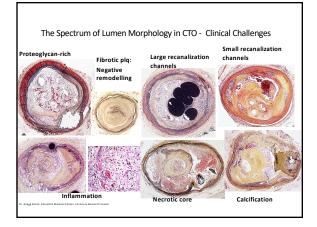
How Often Devices Needed? Based on Three Things

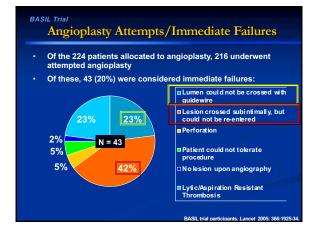
- 1. Endovascular Experience/Skills
- Beginner, Intermediate, or Advance: Advance level < 10 %</p>
- 2. Techniques Used
 3. Complexity of the CTO Lesion

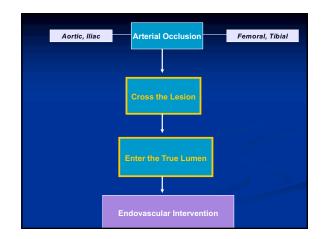
Subintimal Angioplasty/CTO

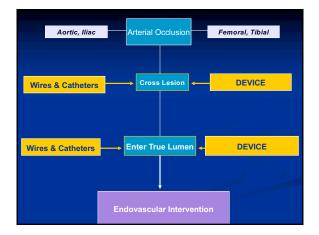
- Permits creation of Dissection plane + Reentry without reducing future bypass options
- Create a New Nondiseased channel underneath the diseased lumen area

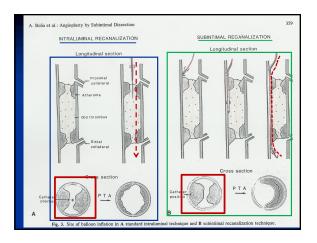




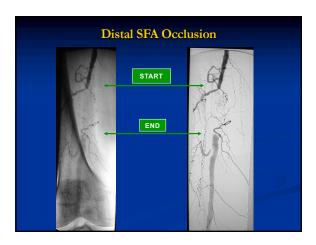












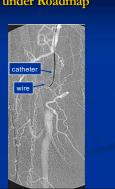
Advance Catheter & Wire under Roadmap

- Advance a 120 cm angle 4 Fr. Tempo Aqua over a .035 angle Glide wire 280 cm toward "Start" point
 Angle catheter Angle wire
- Force the wire into the Occlusion "Prox Cap"

For Long occlusion form a loop by passing wire back and forth.

Advance Catheter & Wire under Roadmap

 Advance the Wire and Catheter and into the occlusion (FORCE IT!)



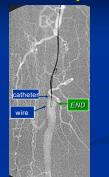
Advance Catheter & Wire under Roadmap

- Advance the Wire followed by the Catheter until the "End" point is reached
- At this point "End" point and distal native vessel should be visualized on the Roadmap



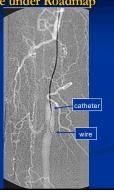
Advance Catheter & Wire under Roadmap

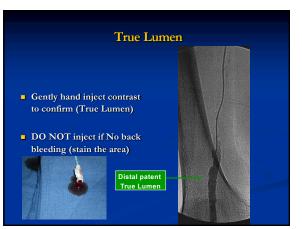
 Pass the loop 0.5-1.0 cm into the patent distal native vessel followed by the catheter



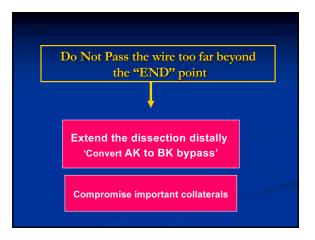
Advance Catheter & Wire under Roadmap

- by this point the wire and catheter has entered the True Lumen (feel the resistance). Wire easily pass distally
- Pull out the wire and back bleeding from catheter (+) for true lumen access











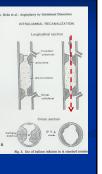
 Rotate and Change the angle of the Tempo Aqua (braided) at the "End" point and advance the wire

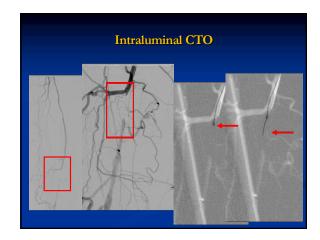


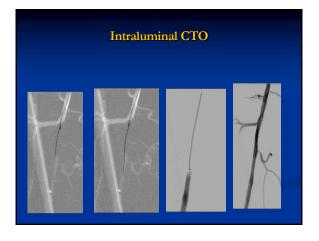


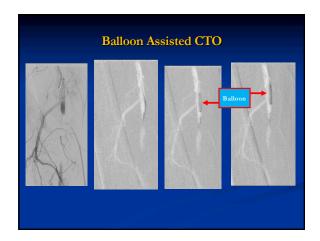
Intraluminal CTO

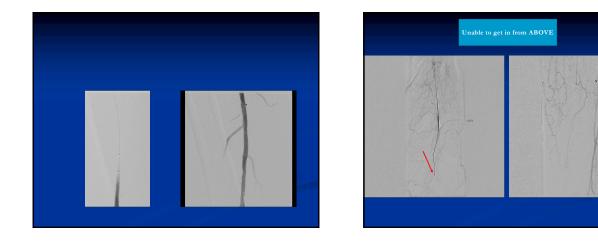
- Straight tip Wire and Catheter
- 4F catheter and .018 Hydrophilic wire















Crossing and Re-Entry Devices

- Have increased the success of CTO and having a successful outcome
- Decreased need for retrograde approach esp popliteal
- Decreased need for Bypass Surgery
- Decreased stenting of "NO STENT" zone
- Decreased length of stented segment
- Decreased amount of Radiation and Contrast

AVOID SURGERY!



- Successful CTO can be accomplished using meticulous techniques, and attention to details
- Either wire&catheter technique and/or Crossing--- Re-entry Device

