HOW TO AVOID & TREAT PITFALLS IN FEMPOP ENDOVASCULAR TTT

dissections
difficult lumen re-entry
and knowing when to stent

E. DUCASSE
MD PHD FEBVS – CHU DE BORDEAUX

DISCLOSURE

I certify, Pr E Ducasse, that I do not have disclosure for this presentation

HOW TO REENTER THE LUMEN

1/ Antegrade approach

DO NOT PANIC

2/ Retrograde approach

CLINICAL CASE : ♂ 58 YEARS OLD

• Active Smoking, DM, Obese
• COPD
• CKD-EPI : CI 36 mL/min
• Alcoholic cirrhosis
• CAD with myocardopathy
• 2008 : CLI right limb over occlusion of right SFA
  ➔ Medical therapy
    • Severe claudication of right limb
      • Strainess : 70m right calf pain
      • No popliteal or distal pulses
    • ABI : 0.25 right / 0.83 left

Dedicated material
• 16-G needle or 21-G micropuncture kit
• Antispasm Cocktail
• Wires
• 0.018'' guidewires / 0.014'' guidewires
• Wire excalation strategy (stiffer wire)
• Support catheters or OTW balloon catheters

Sheathless +++
➔ Guidewire and catheter inserted directly through the skin
➔ Procedure resumed by antegrade way

SAFARI
ANTEGRADE APPROACH FIRST

- Glide Terumo guidewire 0.035" x 180 cm
- Trailblazer 0.035"
- Stiff Terumo guidewire 0.035" x 180 cm
- Trailblazer 0.035"
- Seeker 0.035"

RETROGRADE PUNCTURE OF THE POPLITEAL ARTERY IN A SUPINE POSITION

- 16-Gauge Needle x 83 mm

PROCEDURE RESUMED BY ANTEGRADE WAY

GUIDEWIRE PUSHED THROUGH THE POPLITEAL ARTERY

- Prolonged inflation over retrograde puncture site for hemostasis
ANGIOGRAM

- In a « less metal left behind era »
  Remember when to stent:
  - Flow limiting dissection
  - Important recoil
  - Residual stenosis >30%

- Long Stenting from distal to proximal part of the dissection:
  - SmartFlex® (Cordis) 6 x 150mm
  - SmartFlex® (Cordis) 6 x 100mm
  - Tigris® (Gore) 7 x 60mm
  - Post-dilation by 5 x 100mm balloon

FINAL ANGIOGRAM

TAKE HOME MESSAGE

- Endovascular treatment almost always successful in the acute phase
- Experience is definitely required to cross long CTOs
- Antegrade-Retrograde techniques improve success rates
- Stenting is almost always necessary in recanalized long CTOs
- Or at least in part

"PATIENCE AND PERSEVERANCE HAVE A MAGICAL EFFECT BEFORE WHICH DIFFICULTIES DISAPPEAR AND OBSTACLES VANISH."

John Quincy Adams

THANK YOU FOR YOUR ATTENTION