My worst cases and how I solved them

Y. Gouëffic, MD, PhD
Department of vascular surgery, University hospital of Nantes, France
Disclosure
Speaker name: Yann Gouëffic

☒ I have the following potential conflicts of interest to report:

☒ Receipt of grants/research support
  Details: Abbott; Bard; Medtronic; Terumo; WL Gore

☒ Receipt of honoraria and travel support
  Details: Abbott; Bard; Boston Sc; Cook; Medtronic; Perouse; Spectranetics; Terumo

☒ Employment in industry
  Details: /

☒ Shareholder in a healthcare company
  Details: /

☒ Owner of a healthcare company
  Details: /

☒ I do not have any potential conflicts of interest to report
Jean de La Fontaine
French fabulist and poets of the 17th century (1621-1695)

“Be kind whene'er you can,” should be your creed,
There's none so small but you his aid may need.
This striking truth two fables now shall prove;
Matter enough is here your faith to move.
A blundering rat burst through the earth,
And fell into the lion's paws.
The animal of royal birth
Scorned with such blood to stain his claws:
He spared his life, the kindness was repaid;
Who'd think the lion could e'er require his aid?
However, 'twas the lion's lot,
Leaving the forest, in a net to fall,
Nor could his rage and roaring break the thrall.
The rat ran to his aid, and speedily
Gnawed through a mesh and set him free.
Patience and length of time will still
Much more than force and rage fulfil.
Male, 69 years-old: acute right limb ischemia without motor deficit

- Cardiovascular risk factors: Hypertension, hypercholesterolemia
- Peripheral arterial disease:
  - Right limb: femoropopliteal stenting for IC
  - Left limb: femoropopliteal bypass above the knee
- No arrhythmia, no valvular disease
- Patient stopped APT few days ago
- Duplex scan of right limb: femoropopliteal stent thrombosis
**Thrombolysis** (Urokinase)

*Intraoperative angiogram*

- Duplex scan guided left femoral puncture
  - 5 Fr and 10cm sheath
  - Cross over approach
- UF catheter and radifocus® stiff guidewire (0.035)
- Thrombolysis catheter
@ 24h: stiff guidewire traumatism and bleeding from a branch of the tibio-fibular trunk
Selective embolism

- Cross over approach
- Glidecath® 4fr Angle 120cm
- ProGreat® 2.7F-130cm

Microvention® coils (x2)
Final angiogram

- After 3 days of thrombolysis
- Arterial closure device (Femoseal®)
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Male, 79 years-old: CLI of the right lower limb

Patient medical history
- Dislipidemia, HTA, active smoking, diabetes
- Peripheral arterial disease
- Coronaropathy

➤ **Duplex scan**: long femoropopliteal artery thrombosis
- Local anesthesia et conscious sedation
- Duplex scan guided left femoral puncture
- 6 Fr and 45cm Destination® sheath
- Cross over approach
- UF catheter and glidewire advantage® stiff guidewire (0.035)
Femoropopliteal recanalization

- Loop
- Support catheter (balloon catheter)
- P1-P2 re-entry
Vessel preparation

Metacross® OTW balloon catheter (0.035 – 135cm)
Diameter: 1-mm inferior to the luminal size / 2-mn inflation
Control angiogram (1 incidence)
Arterial crush with «force and rage»
Final angiogram

Arterial closure device (Femoseal®)
Take home *lessons*

« There's none so small but you his aid may need. »

Embolism devices could be also required for lower limbs procedures

« Patience and length of time will still
Much more than force and rage fulfil.»

Vessel prep should be performed and controlled to improve devices efficacy

Read more La Fontaine fables !!