



**i-MEET**  
**NEXT GENERATION**  
Multidisciplinary European Endovascular Therapy

# Acute Limb Ischemia

Don't be afraid about vascular emergencies anymore

Lieven Maene

# Disclosure of Interest

## Disclosure

Speaker name:

.....

I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Shareholder in a healthcare company
- Owner of a healthcare company
- Other(s)
- I do not have any potential conflict of interest

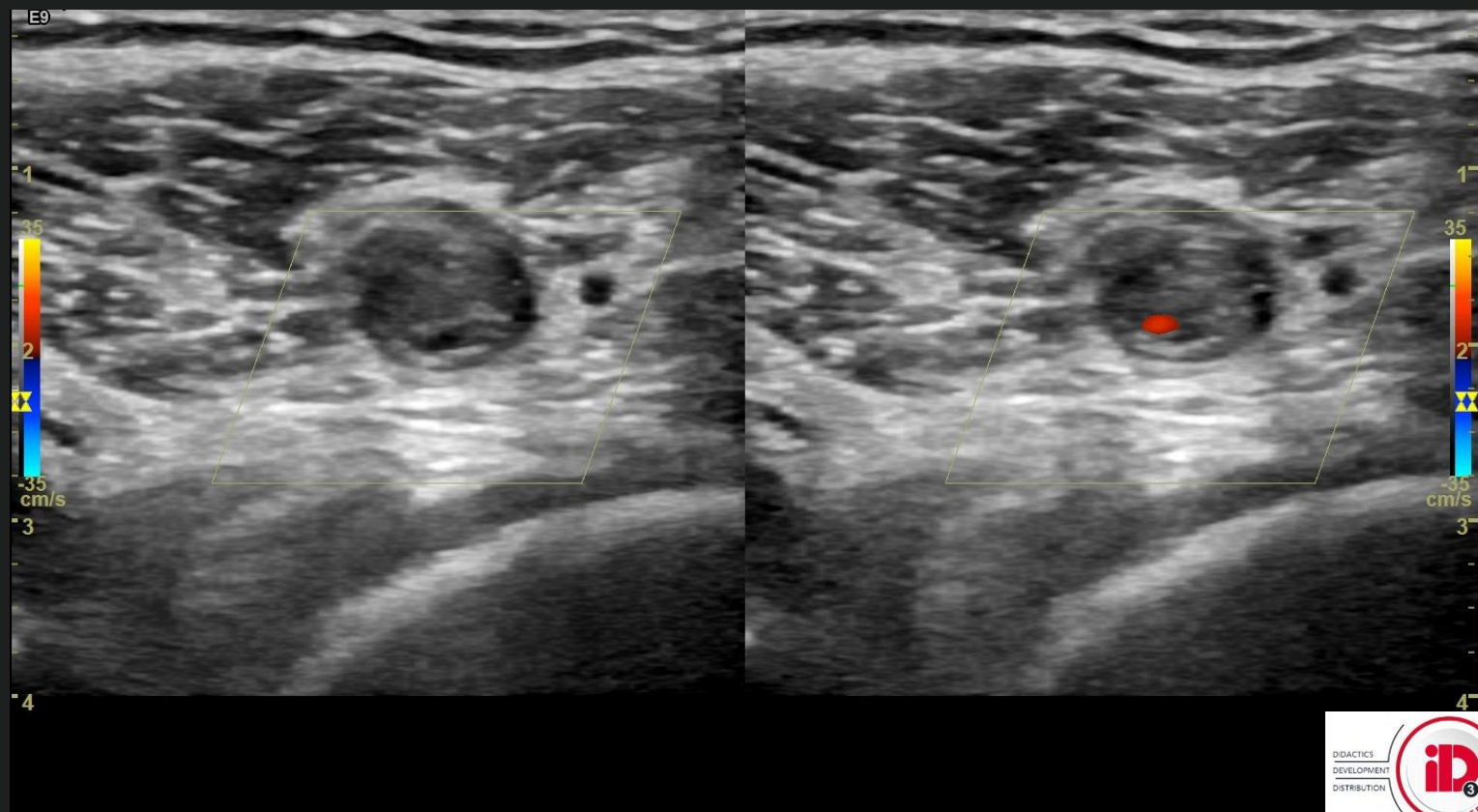
# A Tuesday 6:00 AM...

- Mr V. – 72y
- History :
  - AHT, Hyperlipidemie
  - Prostate
  - AMI – PCI
- Urgent consult in ICU : « Patient post brain surgery has a cold leg... »



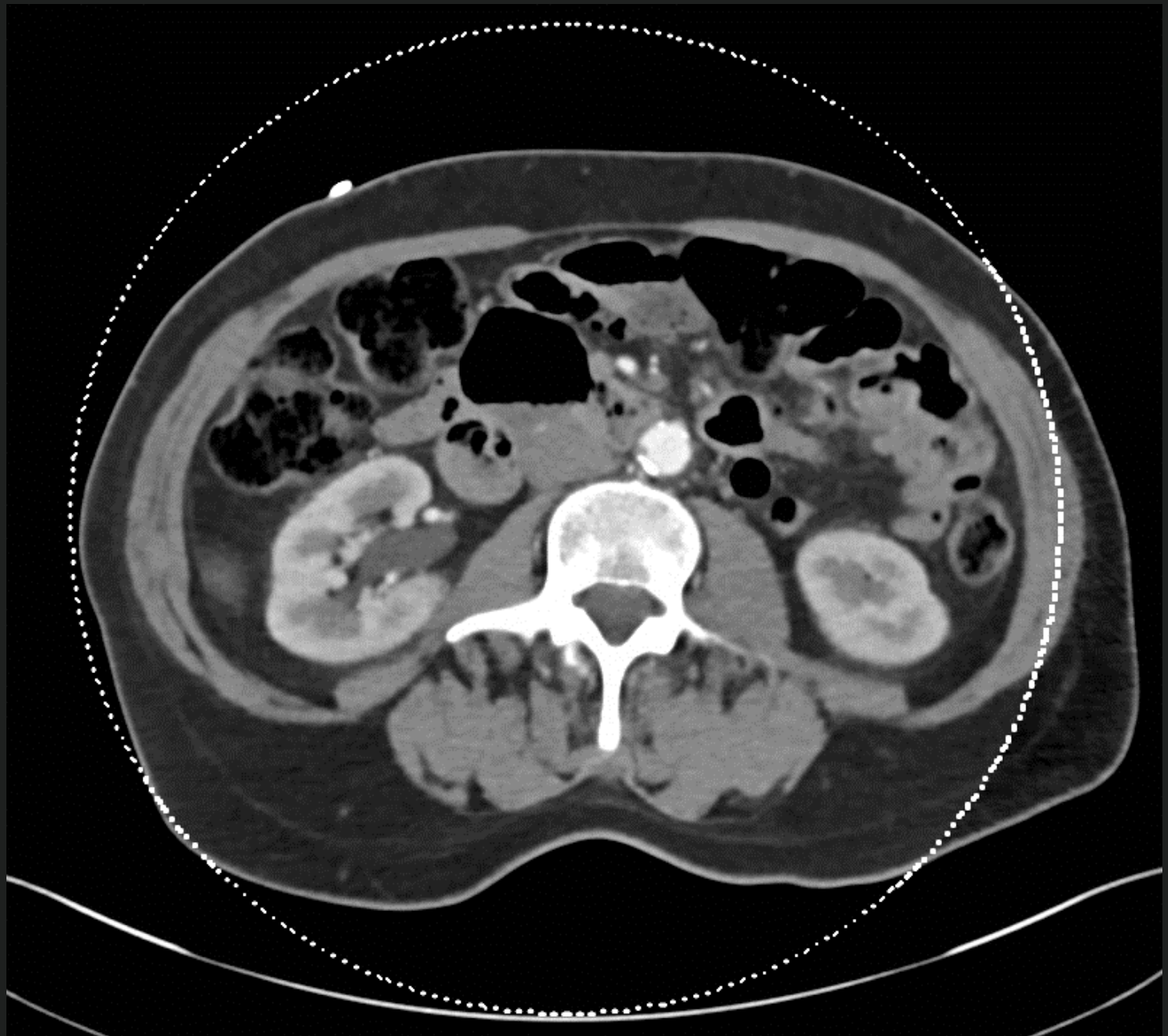
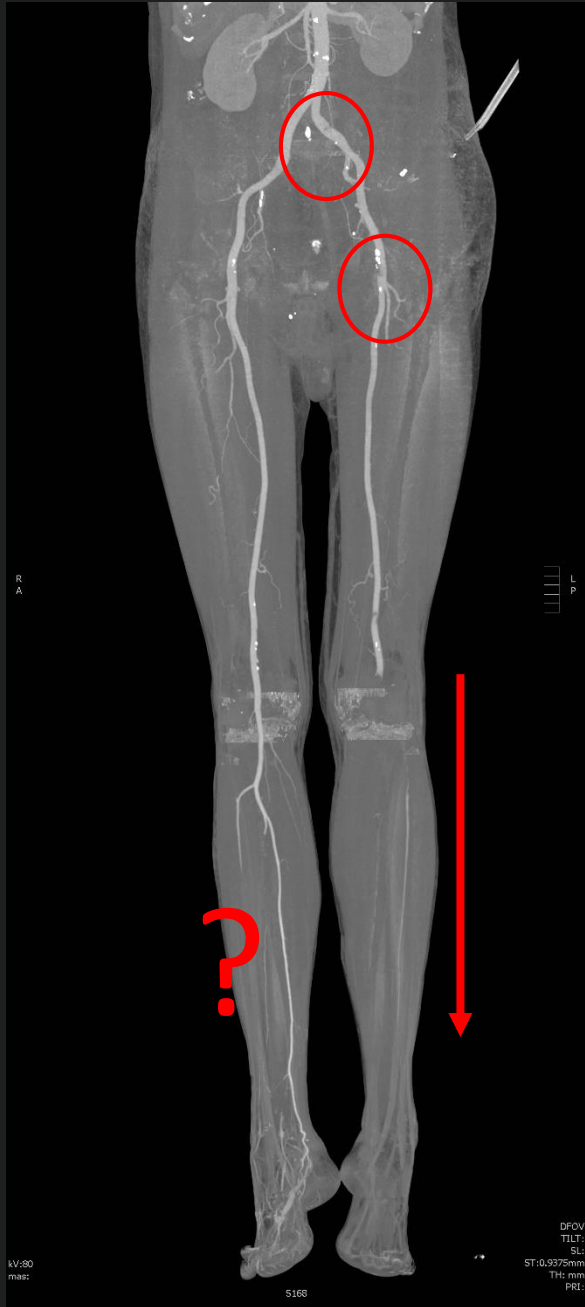
# ... the next morning

- Extremely painful left leg, cold ... Paralysis...
- Bedside ultrasound :





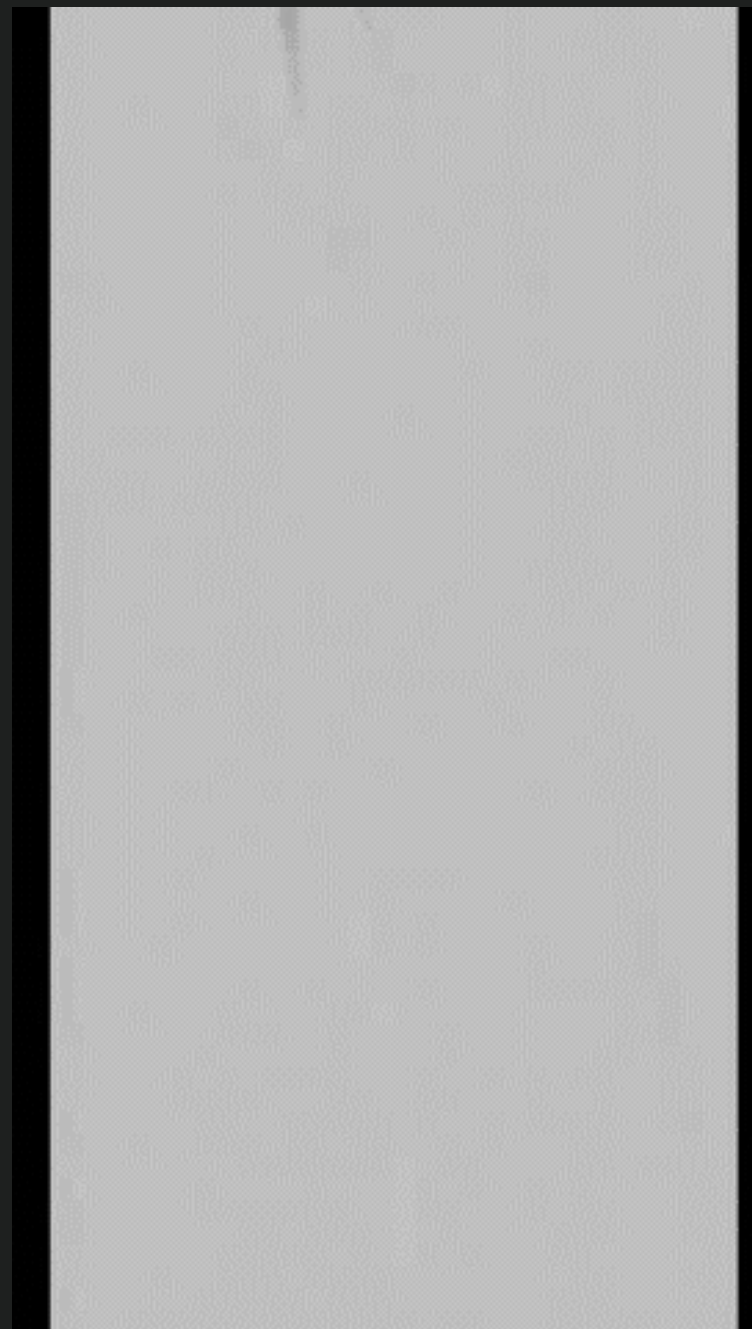




# Strategy

## 1. Surgical thrombectomy:

- Common Iliac artery
- Common femoral artery
- Popliteal Artery





# Strategy

## 1. Surgical thrombectomy:

- Common Iliac artery
- Popliteal Artery

## 2. Endovascular :

- Thrombus aspiration
- Jet-I
- PTA fragmentation
- ...

## 3. Fasciotomy

Medication ?

# Strategy when the ultimate is not enough...

- Discuss with the neurosurgeon – oncologist
- Catheter directed thrombolysis BTK :
  - Meticulous closure of the groin incision
  - Antegrade 4Fr SFA sheath
  - 4 Fr Unifuse thrombolysis cath in ant tib artery
  - Cont 12 h until palpable pulse on dorsal pedal artery
  - 24 h Heparine IV



Mr V went home walking...



# Mr DM

- History :
  - Prostatectomy
  - Radiotherapy for recurrent prostate CA
- Urgent admission ER : Acute backpain and paralysis of both legs

No femoral pulses, acute profound ischemia of both legs





# Strategy ?

- Severe ischemia of both legs (motor and sensory loss)
  - Patient in bad condition
  - Aorto iliac thrombosis
  - CFA thrombosis
  - Femoro-popliteal ??
  - Spinal cord ischemia ?
- Open surgical approach ?
  - Endovascular repair ?



# Strategy

1. Restore inflow
2. Prevent distal embolisation
3. Spinal cord ischemia?
4. Restore outflow

Combined Open Surgical and  
Endovascular repair

# Strategy

## 1. Restore inflow

- Bilateral groin cutdown
- Local thrombectomy CFA,...
- Distal outflow protection by CFA clamping
- Recanalization of both iliac arteries and aorta
- Over the wire thrombectomy (Fogarty cath)



# Strategy

## 1. Check outflow



# Strategy

2. Prevent distal embolization
3. aortic relining
  - CFA clamping during graft deployment
  - Stentgraft Ovation Endologix



# Strategy

## 4. Spinal cord ischemia

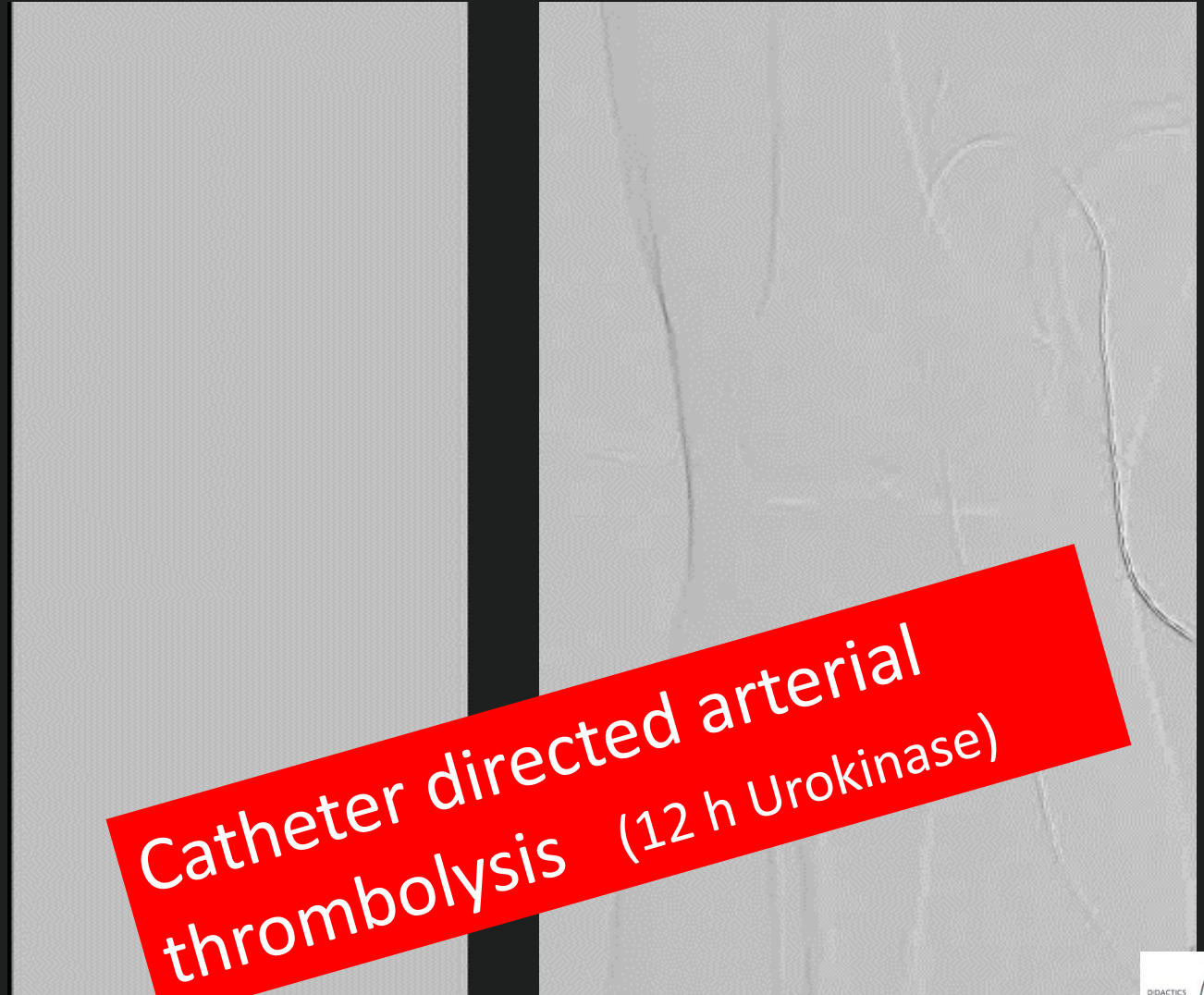
- CSF Drainage
- Blood pressure management
- Hypogastric artery thrombectomy



# Strategy

## 5. Restore outflow

- SFA – POP :  
surgical thrombectomy
- BTK :  
Thrombus aspiration  
...



Catheter directed arterial  
thrombolysis (12 h Urokinase)





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