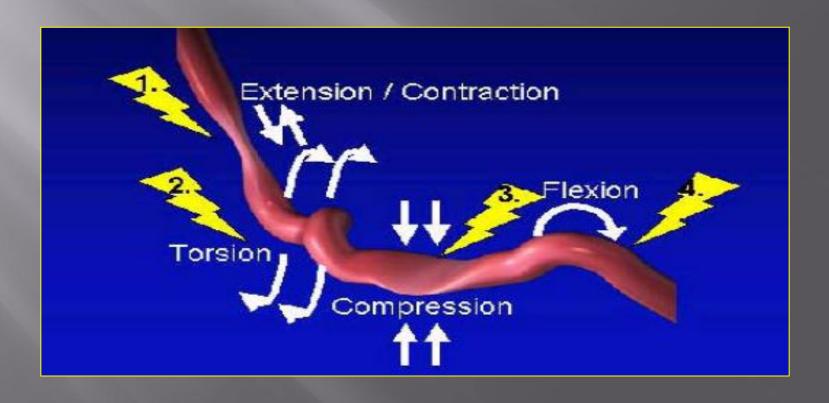
ILIOFEM JUNCTION EXTERNAL ILIAC BIFURCATION

TECHNICAL CONSIDERATIONS

JM CARDON HPF NIMES

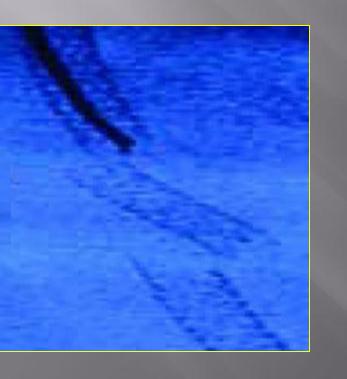
ILIOFEM JUNCTION

Hip join level





Risk is stent fracture







Iliofem junction

 Balloon expandable stent are forbiden as they can crush or break

Self expandable stent are mandatory

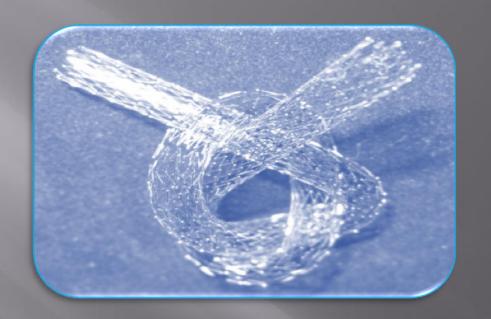
Fatigue test

Finger test

radial force

Memory shape: nitinol

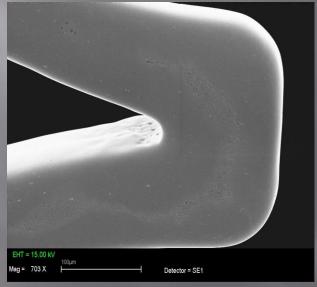
electropolishing

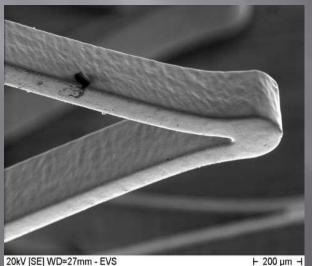




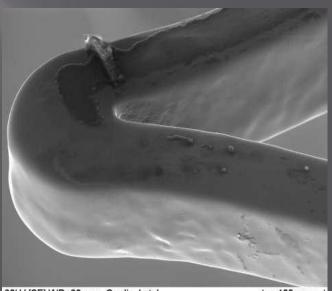












20kV [SE] WD=22mm - Cordis J et J

We do primary stenting

- We always oversize the nitinol stent from 10 to 20% to have best radial force and memory
- But We cover only the disease part of the artery to avoid neointima proliferation on undease artery streched by an oversized stent
- The ballon is inflated only inside the stent

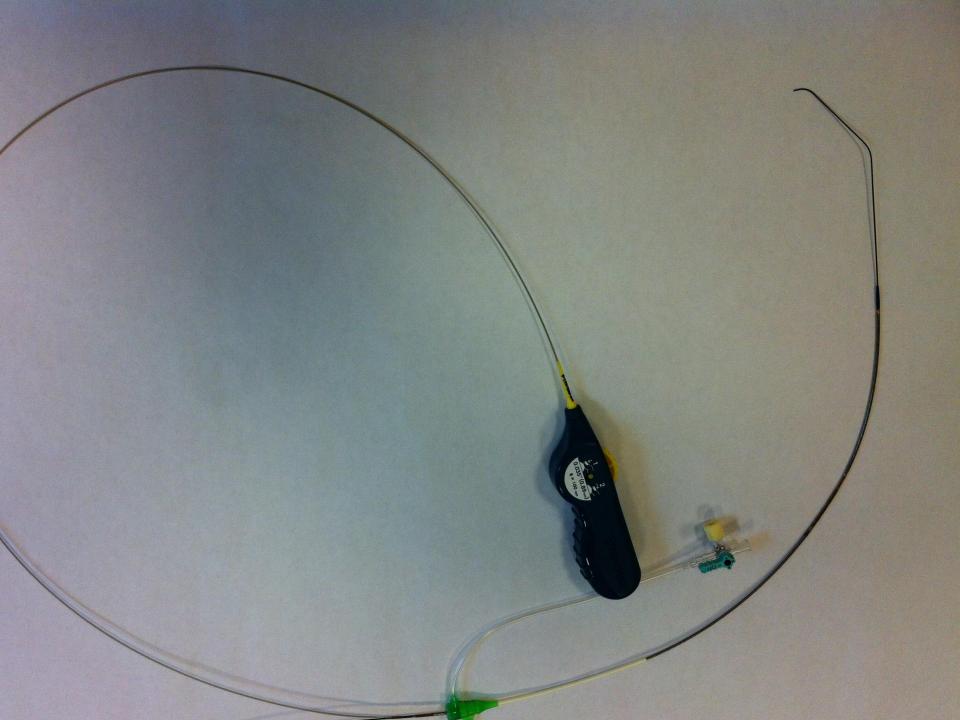
We use the controlateral route

Give the room to work

- Common femoral under the lesion is often ill:
 not the best side to puncture
- compression close to the stent not ideal
- Starclose on controlateral side

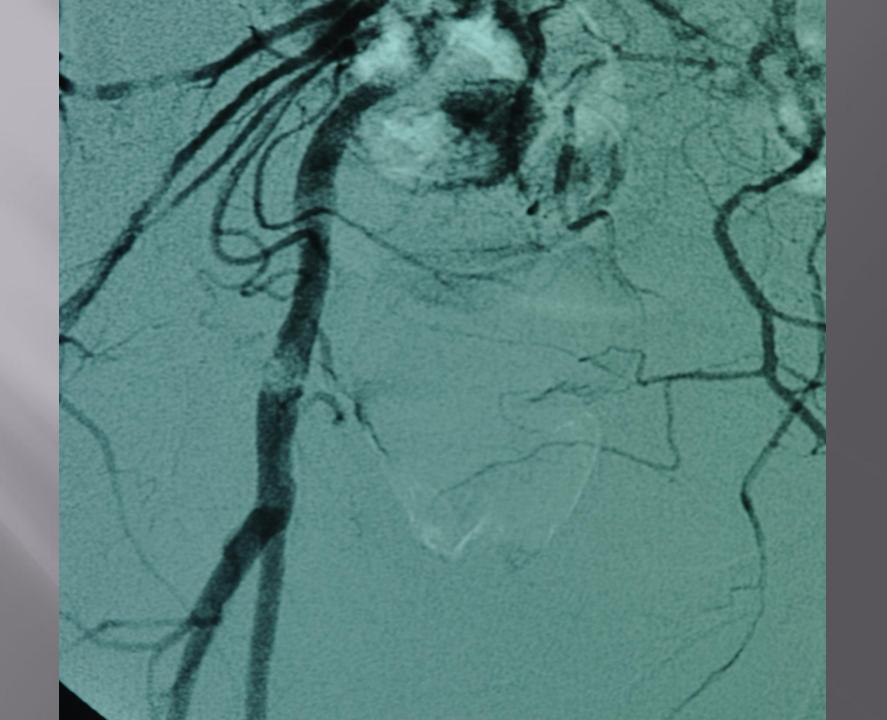
The terumo misago

- Stent answer all the requirement(nitinol,fatigue test,finger test ,radial force,electropolishing)
- Delivery platform allows a very easy use and precise placement with tractability, push, and comformability
- Rapid exchange system makes the procedure easy and safe(impossible to loose the guirewire while retracting the delivery system)

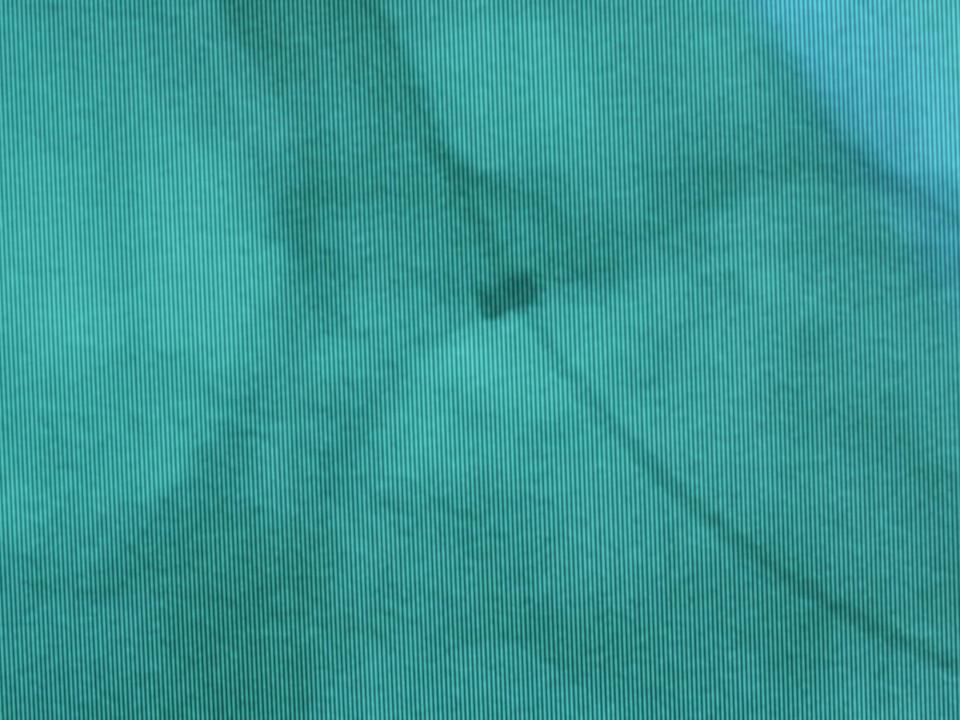


material

- Hydrophilic guide wire 0,35 terumo angled tip
- Contra 2 catheter to pass to the controlateral side, pushed as far as possible in distal artery
- Terumo destination sheath to catheterize controlateral iliac close to the lesion
- Cross the lesion under road map if not done before
- deploy the stent
- Ballon
- withdraw

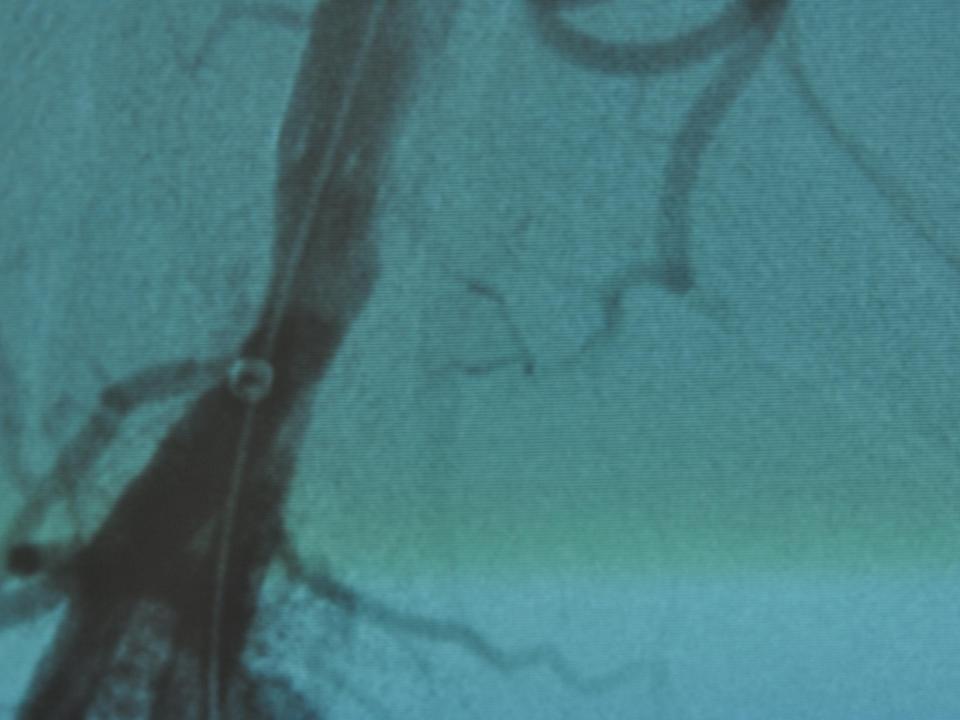






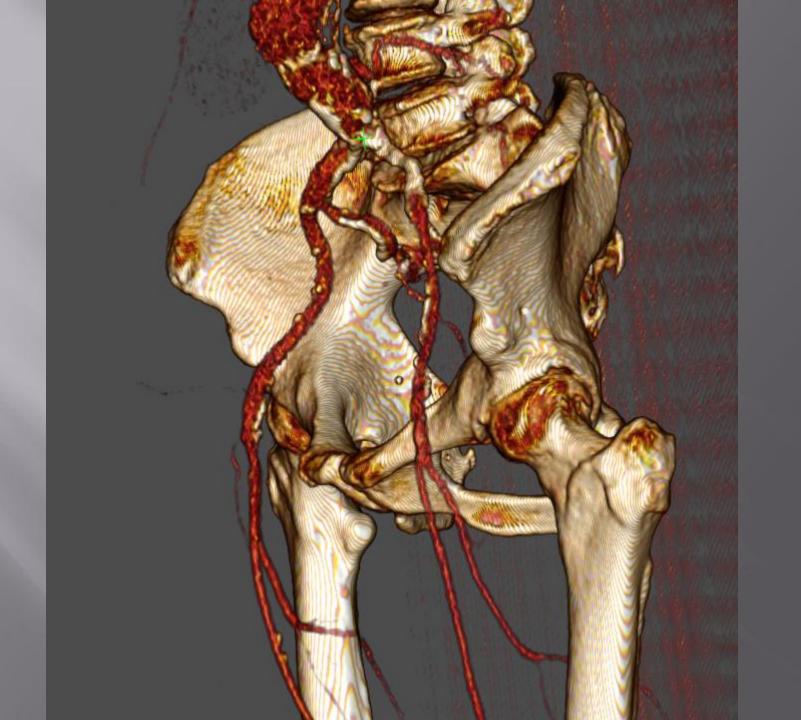




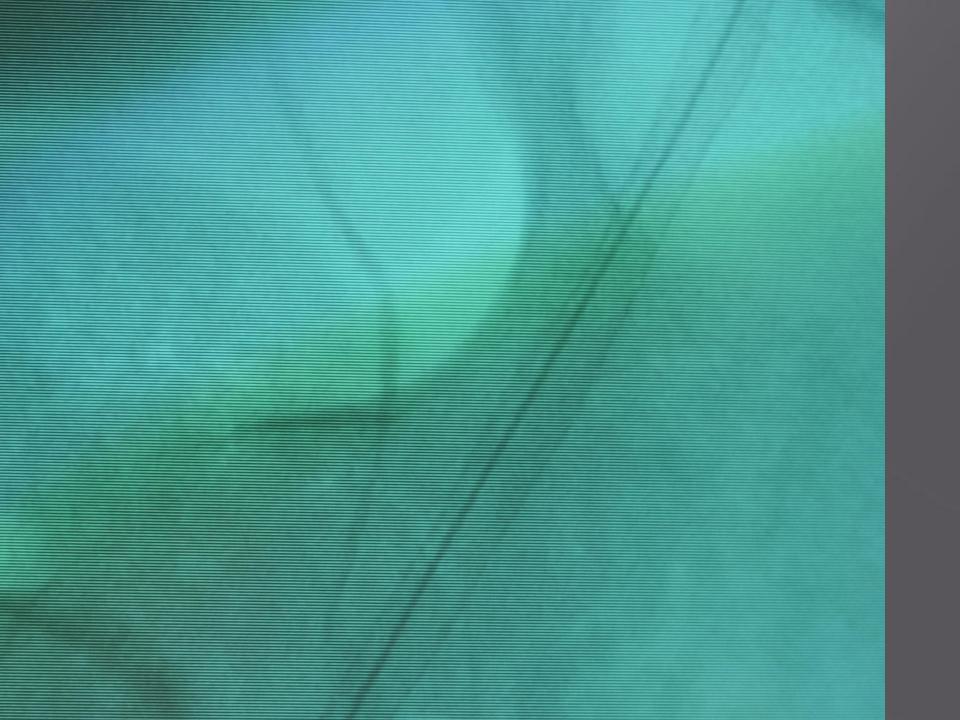


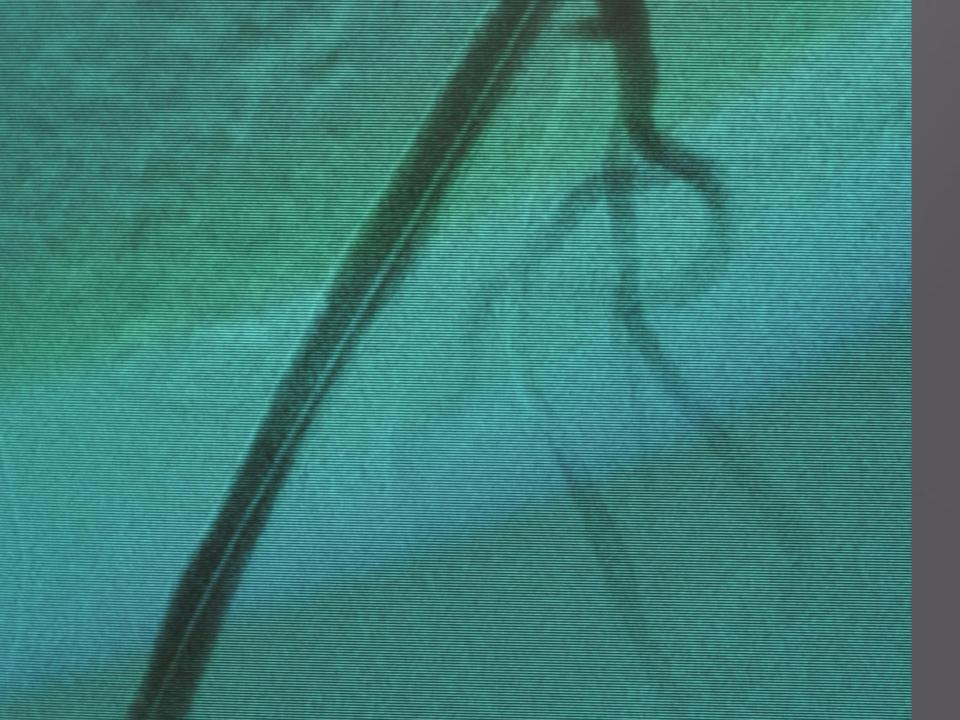
External iliac

- Anatomy of external iliac is a curve: no rigid balloon expandable stent only self expandable stent
- Sames rules as before
 primery stenting
 oversizing of stent
 cover the lesion only
 exact sizing when balloning to avoid rupture
- homolateral route prefered







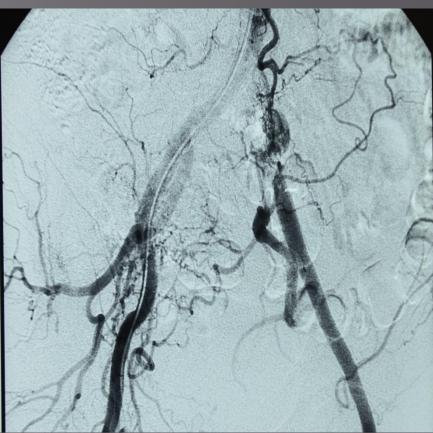


Iliac bifurcation

 Common iliac dividing into external and internal iliac arteries

 Our aim is to protect both external and internal as we give to hypogastric artery the same function as profunda at the common femoral level

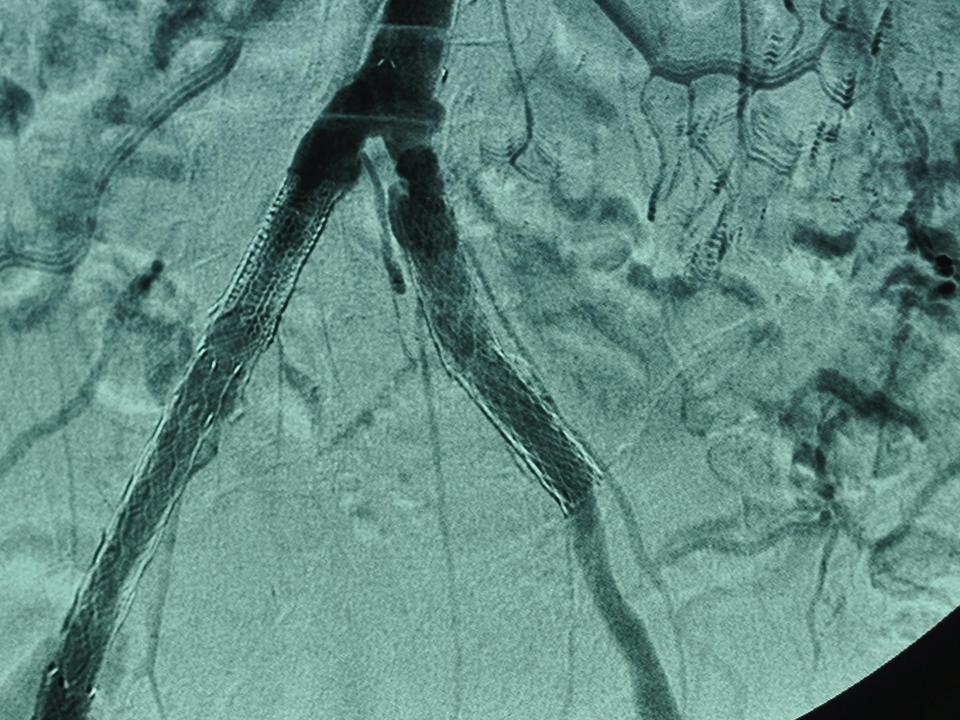


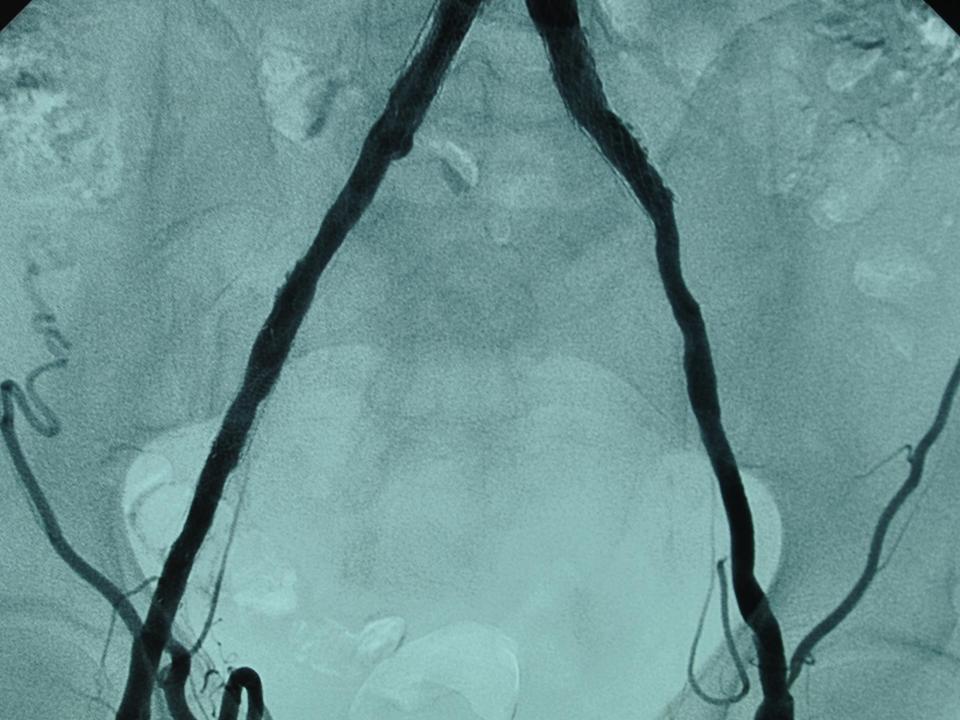


Loosing the hypogastric artery means

 Usuly transform a mild calf claudication in a severe butcock claudication

 In case of secondary thrombosis of extenal iliac no collateral pathway :risk of acute ischemia or critical ischemia





Both femoral approach

■ Homolateral side to treat the common and\or external lesion:

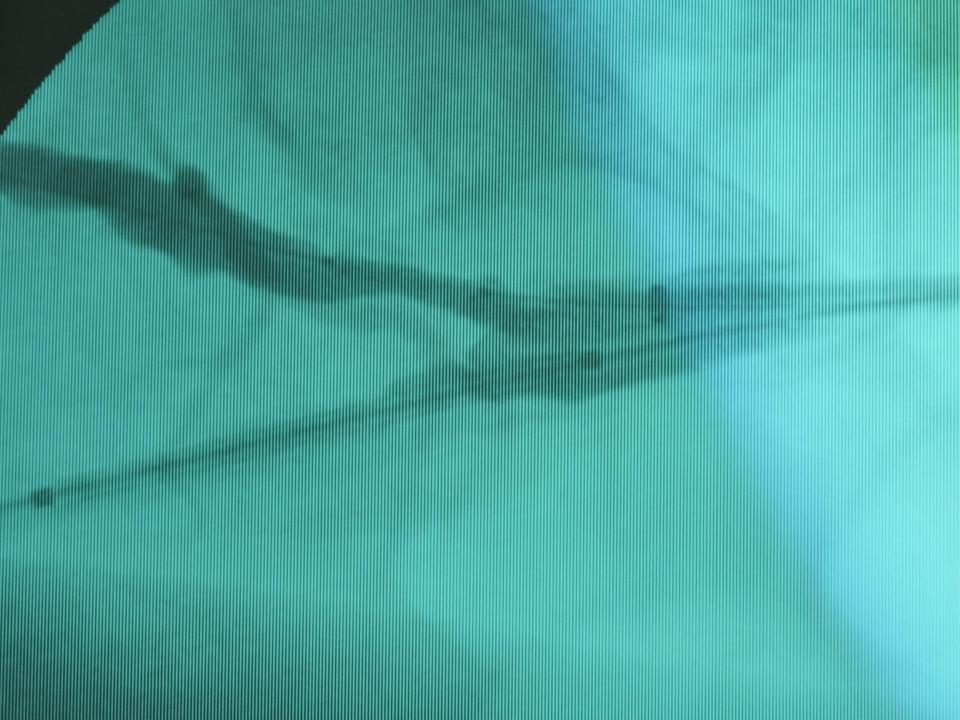
6fr sheath 21 cm long 0,35 terumo guidewire to cross lesions

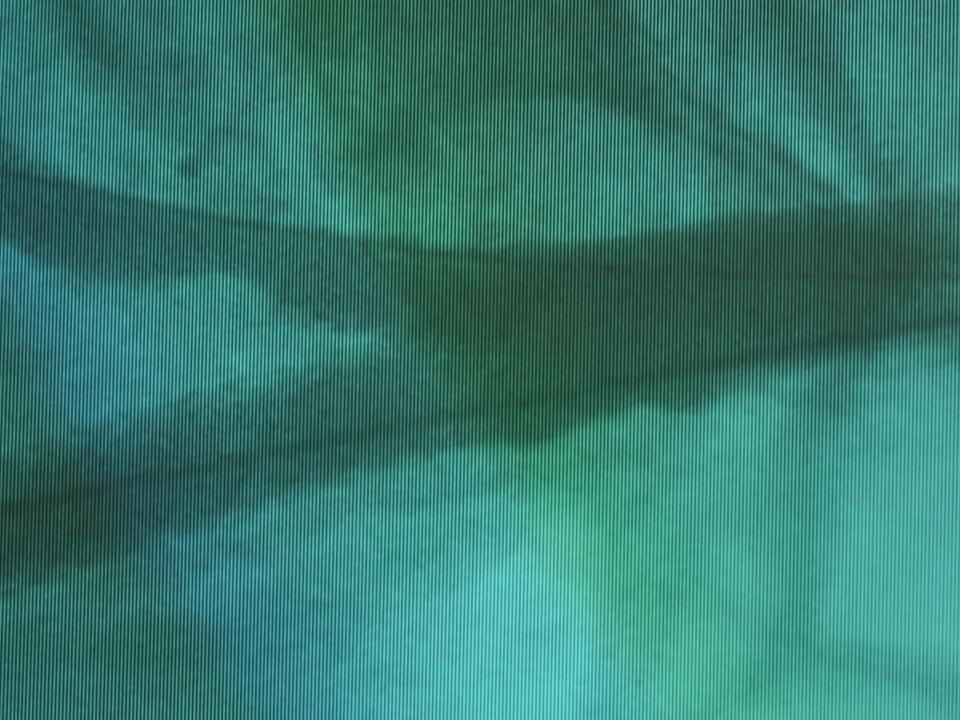
Controlateral side to treat (protect)hypogastric
 5 fr sheath 45 cm long
 0,35 to catherize hypogastric, exchanged for
 0,14

Kissing stent

- By homolateral route:
- B E S on common, SES on external without covering the hypogastric ostium using 0,35 compatible stent
- By controlateral route:
 BES rapid exchange ,0,14 compatible stent







Conclusion

- Choice of stent is dictated by location of lesions
- Choice of route is dictated by the easier is the better

 Knowledge of anatomy and physiology is mandatory to have efficacy treating iliac lesions