Late endoleak management – case discussions

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Late endoleak

- Type 1 and 3
  - Immediate treatment

- Type 2
  - Wait-and-see
  - Catheter-based embolization
  - Direct puncture
Choice of treatment modality

• Ease of access
  – Direct from A-B
  – From A-B through C-D…

• Availability hardware
  – Cone-beam CT
  – Navigational tools
  – Catheters, wires,…
Case # 1

@12 months
lumbar type 2 endoleak
What to do?

- Wait-and-see
- Catheter-based embolization
- Direct puncture
Persistent endoleak

NOT ALL ENDOLEAKS ARE HARMFUL

@6 months

@12 months
Case # 2
What to do?

• Wait-and-see
• Catheter-based embolization
• Direct puncture
Case # 2
Case # 2

straightforward anatomy
Case #2

straightforward anatomy
catheter-based approach
Case # 2
Case # 2
Case # 3
What to do?

- Wait-and-see
- Catheter-based embolization
- Direct puncture
Case # 3
Glue-translumbar (CT fluoroscopy)
Glue-translumbar (CT fluoroscopy)
Case # 4

persistent type 2 endoleak after emergency type I repair
What to do?

- Wait-and-see
- Catheter-based embolization
- Direct puncture
Case # 4

Planning
Case # 4

Entry view (bull’s eye)
Case # 4

Rotating to ‘needle view’
Case # 4

Needle view with merging fluoroscopy/CBCT
Case # 4
Case # 5

pre-operative embolisation of IMA and lumbar arteries 07/2005 (“St. Elsewhere”)
persistent type 2 endoleak (a. sacralis media)
growing aneurysm 2007 55 mm 2011 68 mm
What to do?

• Wait-and-see
• Catheter-based embolization
• Direct puncture
Case # 5
Case # 5
Case # 5
Case # 5
Case # 5