i-MEET

NEXT GENERATION

Multidisciplinary European Endovascular Therapy

Popliteal Artery Stenting- A retrospective Audit

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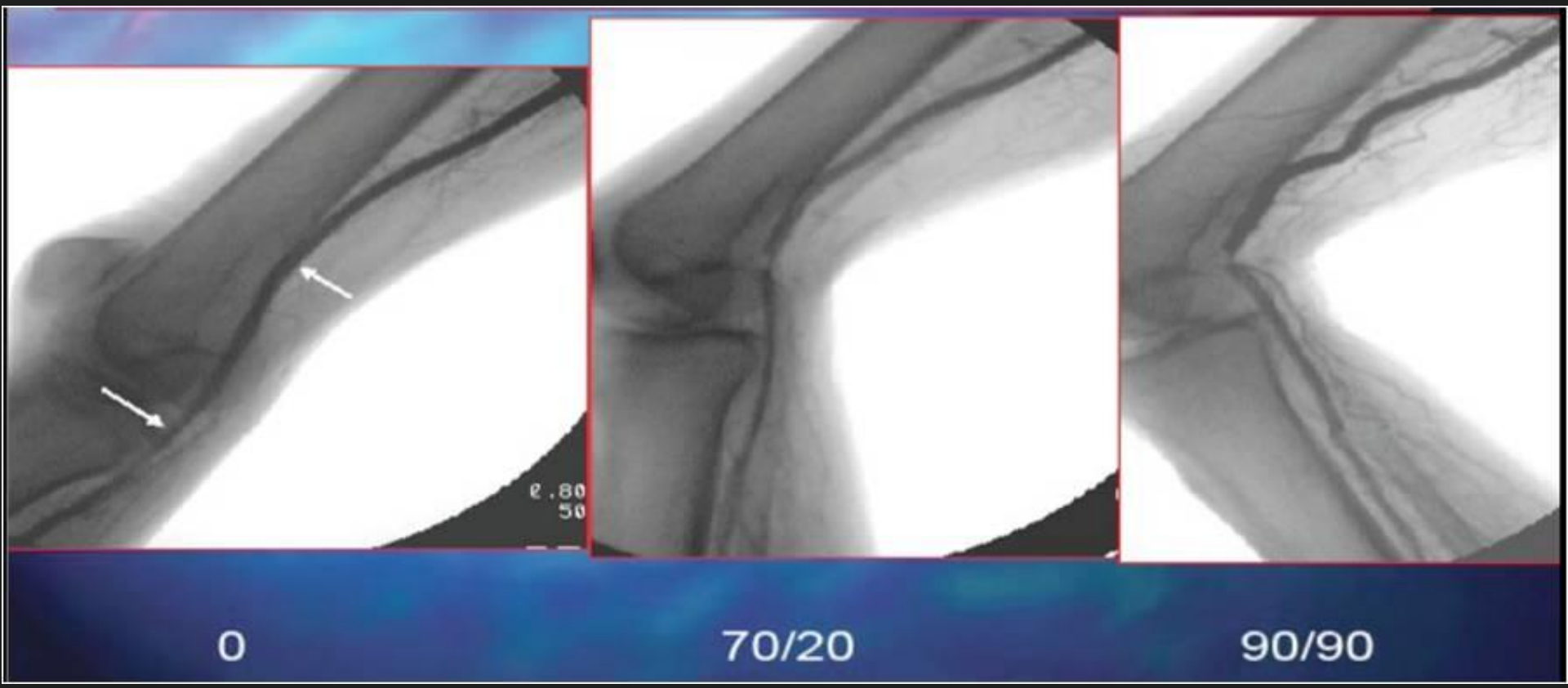
Disclosure of Interest

Speaker name: Simon George Powell

I do not have any potential conflict of interest

Popliteal Artery Kinking



Reported patency from Literature

- Patency of stents used for occlusive disease 67.4% at 12 months - free from major restenosis (>50%) (Rustan et al, 2013)

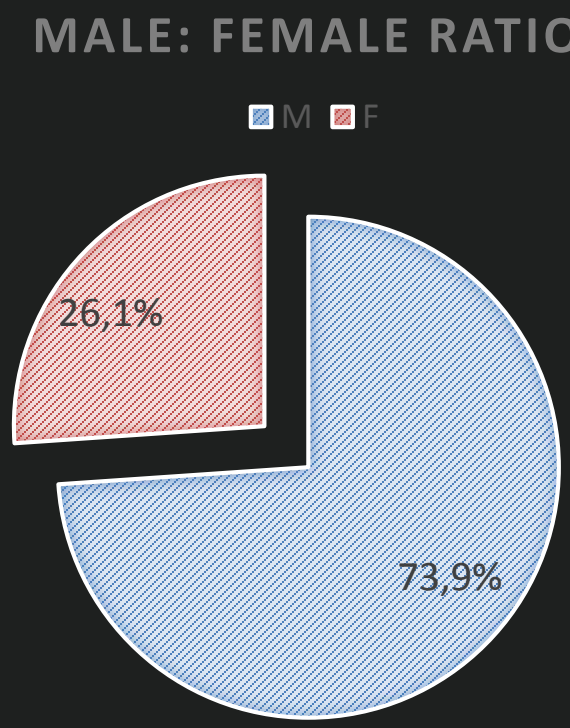
- Patency of stents used for aneurysmal disease 85.3% at 12 months –free from occlusion (Patel et al,2015)

Audit Aims

- Compare Patency rates of popliteal artery stents at Countess of Chester Hospital with Published data
- Retrospective audit over a 4 year period
  - January 2013-December 2016
- Implement appropriate changes to improve outcomes of popliteal stenting

Demographics

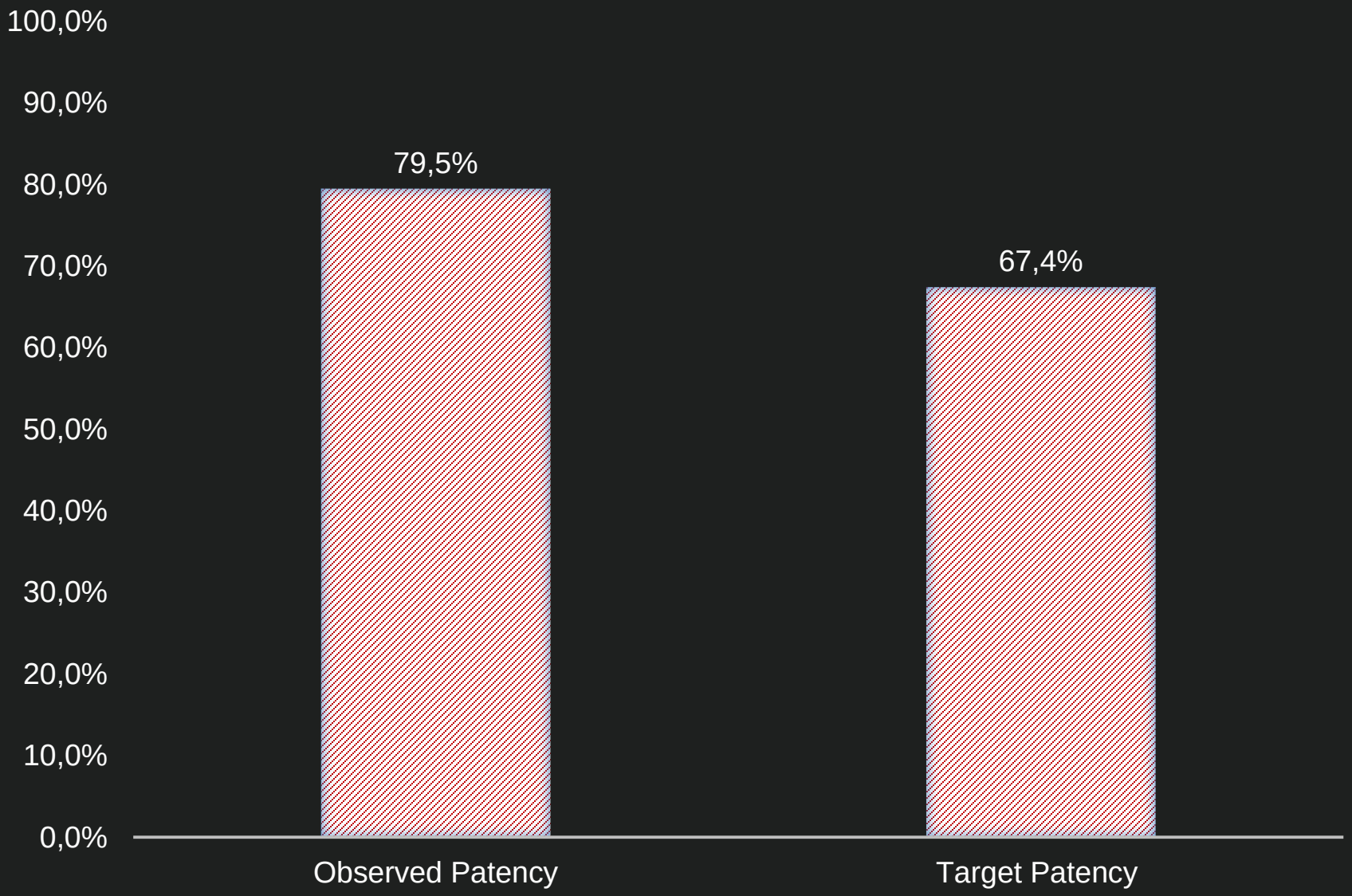
- 46 patients identified
- 34/46 Male – 73.9%
  - Average age 68.85
- 12/46 Female – 26.1%
  - Average age 75.77
- Laterality
  - Left 21/46 – 54.3%
  - Right 25/46 – 45.7%



Patency- Occlusive Disease

- Complete Occlusion
  - 12 months 5/39=12.8%
- Restenosis (>50%)
  - 12 Months 8/39 20.5%

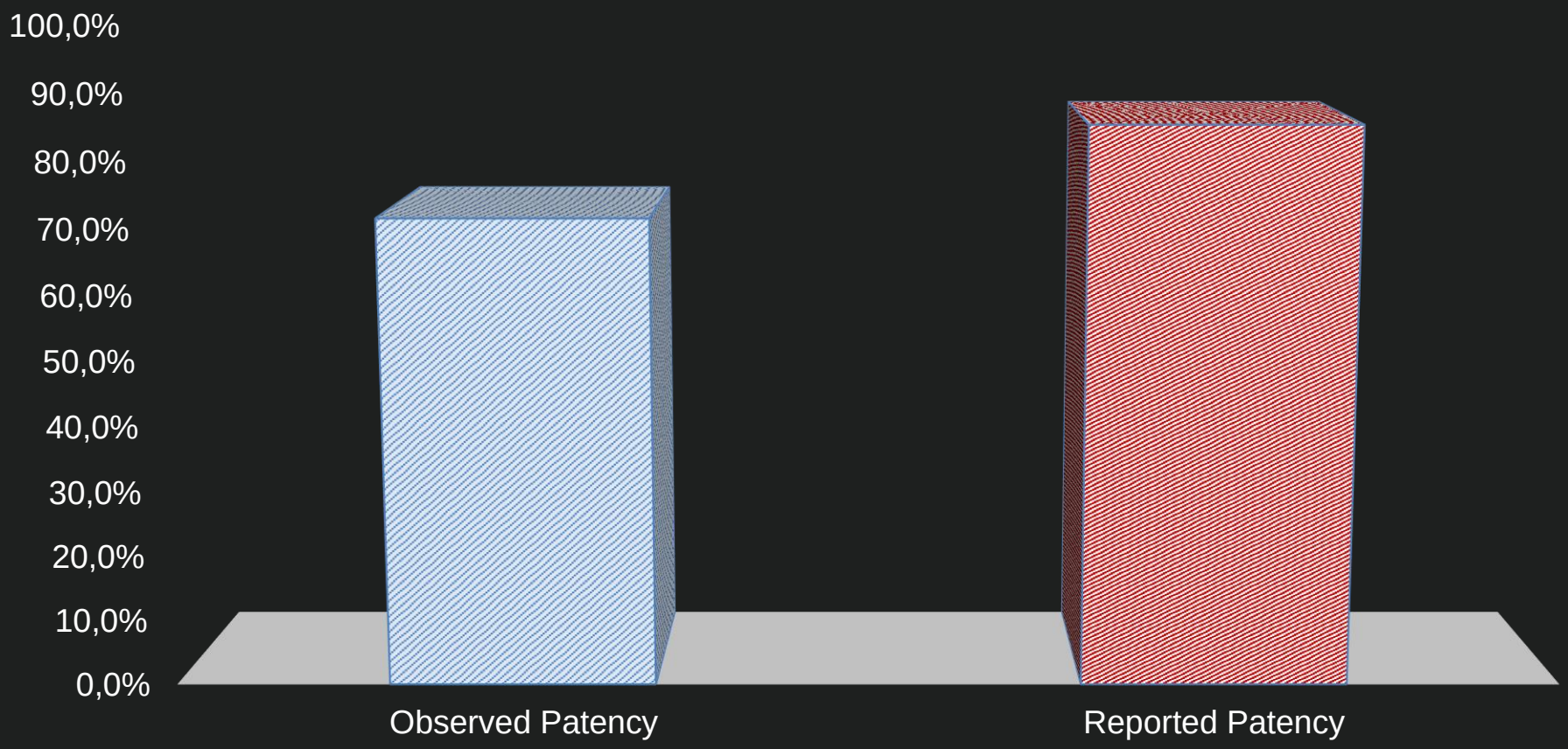
1 YEAR PATENCY RATE- OCCLUSIVE DISEASE



Patency- Aneurysmal Disease

- Complete Occlusion
  - 12 months 2/7=28.6%
- Restenosis (>50%)
  - 12 Months 2/7 28.6%

1 YEAR PATENCY RATE- ANEURYSMAL DISEASE



Reintervention

- 12/46 (26.1%) reintervention
  - 6/12 open reconstructive surgery (Fem-popliteal/ Fem-distal bypass)
  - 3/12 major amputation (BKA/AKA)
  - 2/12 Thrombolysis
  - 1/12 Fem-popliteal => BKA

Conclusion

- High rates of restenosis/occlusion associated with popliteal stenting
- Better outcomes compared with published data for occlusive disease
- Poorer outcomes compared with published data for aneurysmal disease
- Stenting associated with a high reintervention rate