

## NO DISCLOSURES

## POPLITEAL ARTERY ANEURYSM (PAA) REPAIR

## ONGOING DEBATE: ENDO VS OPEN: WHICH IS BEST?

- More comparative studies in past 10 yrs + meta-analyses, VQI, national registries .... but NO RCT!
- ENDO less early complications and LOS
- ENDO primary patency 1 yr 70 % and less than OPEN repair (> 85 %)
- ENDO secondary tx 3 yrs 20-25% and more than OPEN (10-15 %
- ENDO secondary patency 3 yrs 80 % and similar to OPEN (90 %)
- Multiple confounding factors symptomatic (urgent, ALI, occluded, ruptured), selection criteria, surveillance / follow-up

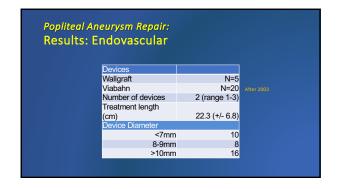
Popliteal Aneurysm Repair:

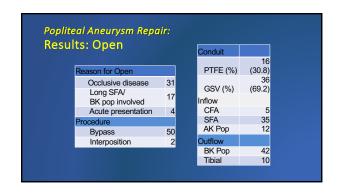
Personal experience - Wooster et al Ann Vasc Surg 2015

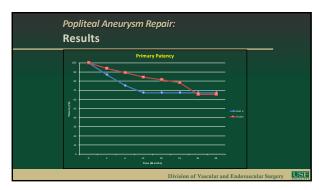
## EARLY ENDO SELECTION CRITERIA

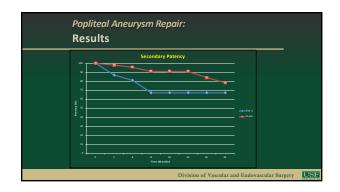
- Non-urgent presentation
- Higher medical risk patient
- Minimal PAD (ABI > 0.9 and minimum 1 large tibial runoff)
- Less tortuosity SFA pop segment
- Avoid distal pop PAA involvement

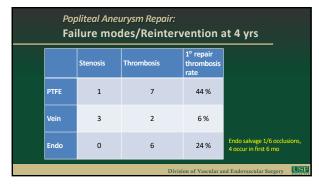
	pliteal Aneurysm Repair: ersonal experience - wooster et al Ann Vasc Surg 2015			
over 13 yrs	Wooster et al Alli	1 Vasc Julg 2013		
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	Endo	Open		
Age (range)	82 +/- 9.5 (66-98)	69.9 +/- 6.8 (51-74)		
Sex	25/25 Male	50/52 Male		
LOS: Days	2 +/- 2.3	12 +/- 27		
(Range)	(1-10)	(1-135)		
Follow Up:	37.9 +/- 36.3	38.5 +/- 31		
Months (Range)	(1-90)	(1-117)		
Limb Loss	1	2		
Complications	2	9 (6)		
Re-interventions	9 (48%)	27 (54%)		
Concurrent AAA	19 (76%)	36 (70%)		
KM 4 yr survival	74 %	68 %		











POPLITEAL ARTERY ANEURYSMS: OPTIMAL REPAIR TECHNIQUE?

REVISED ENDO SELECTION CRITERIA

Highest medical risk patients
Non-urgent presentations

No GSV available
Preop CTA treatment planning – 10 % device oversizing
Focal PAAs in prox pop location
Distal pop diameter > 6 mm
Minimal PAD (ABI > 0.9, minimal SFA disease, minimum 2 tibials runoff)
Minimal tortuosity SFA - pop segment
Indefinite Plavix or DOAC or coumadin
Surveillance duplex q 6 mo