Efficacy and cost effectiveness of EVAR vs Open repair for AAA

Argument in favor of open repair

TV Mulaudzi

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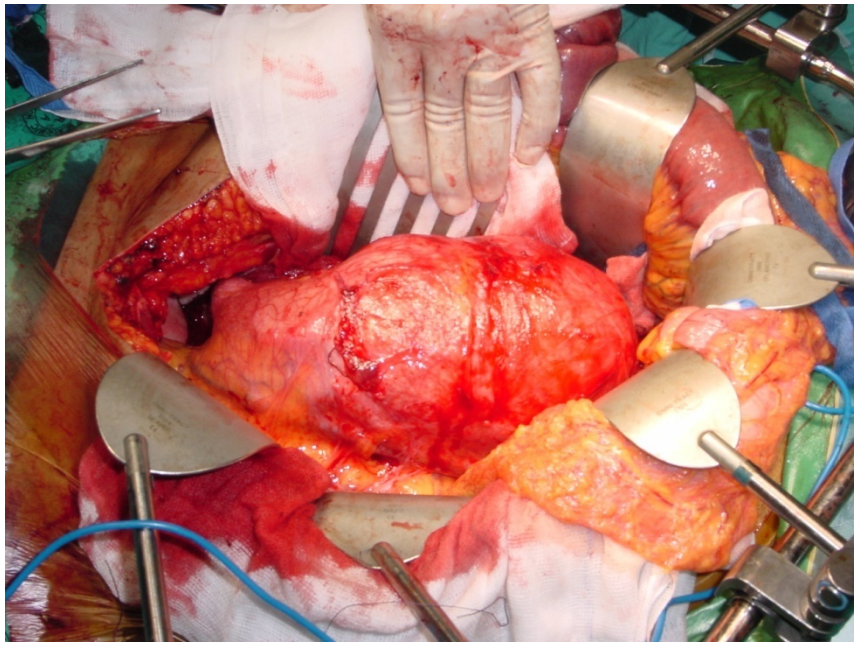

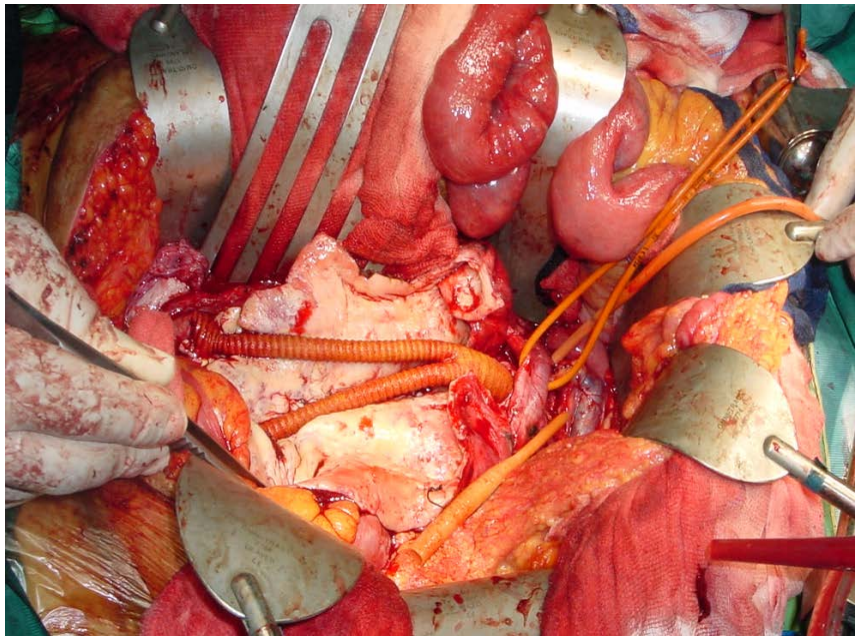

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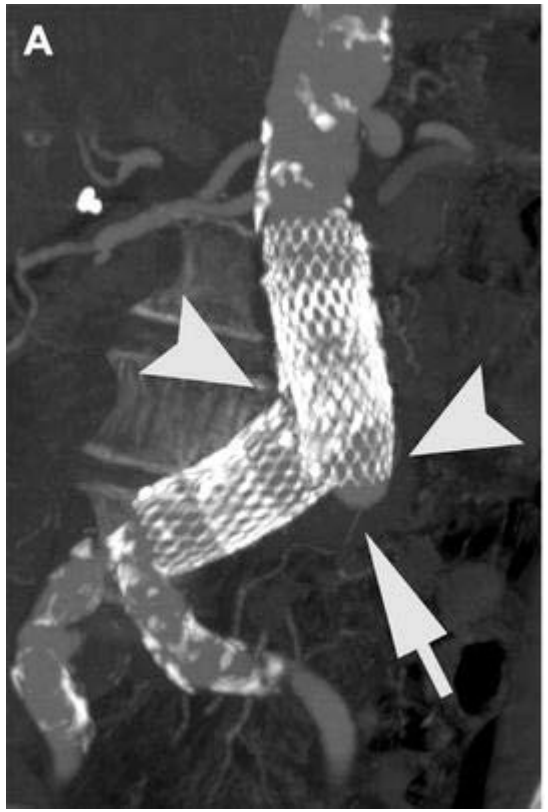
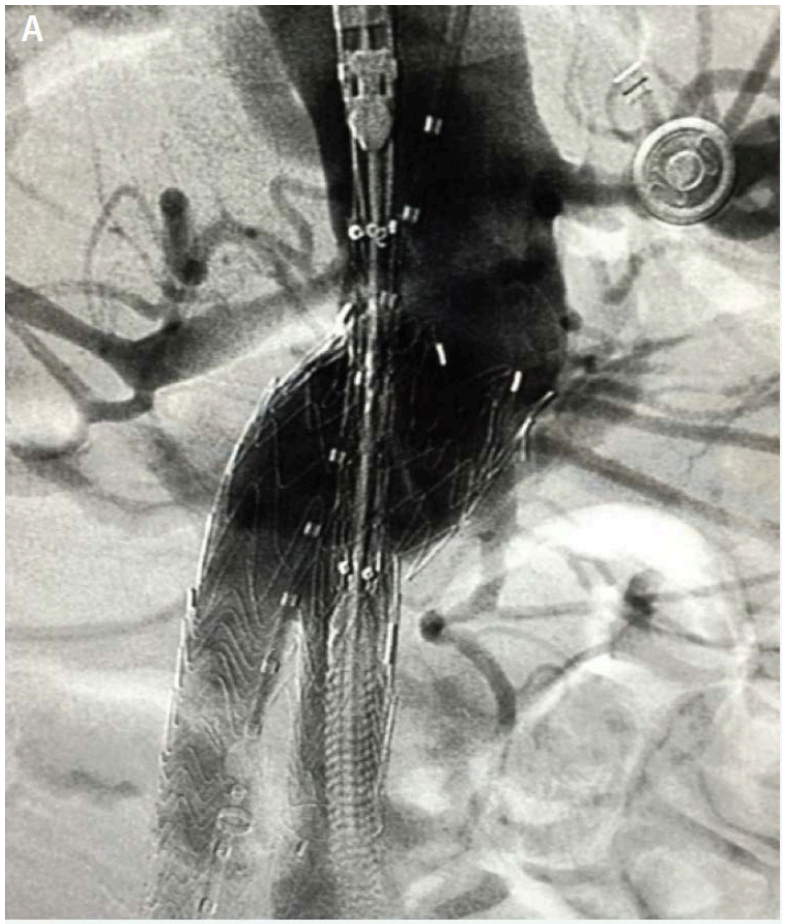
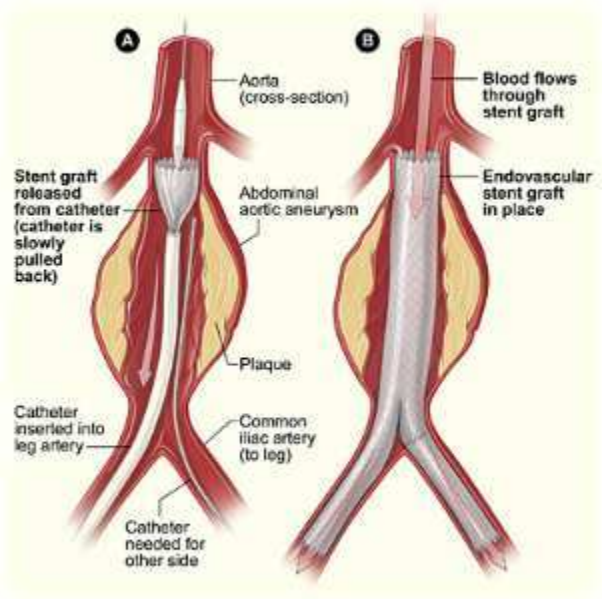




EVAR

- Indications
  - > 70 years
  - Not fit for OR
- Indications expanded
  - Anatomical fit



EVAR

- 30 day M & M

- Early advantage lost 2 – 3 yrs
  - Re-intervention
  - Higher mortality at 8 years

EVAR 1

- 30 day mortality
  - EVAR vs OR: 1.7% vs 4.7% (P=0.009)

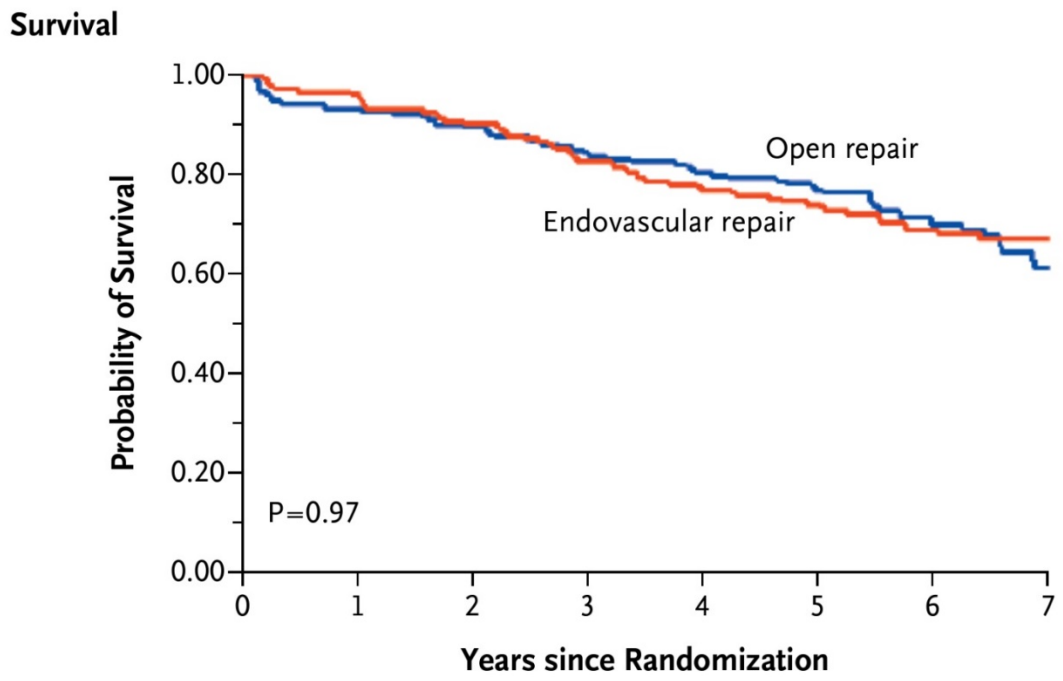
- EVAR
  - Re-intervention (p=0.02)
  - Risk of rupture

EVAR 1

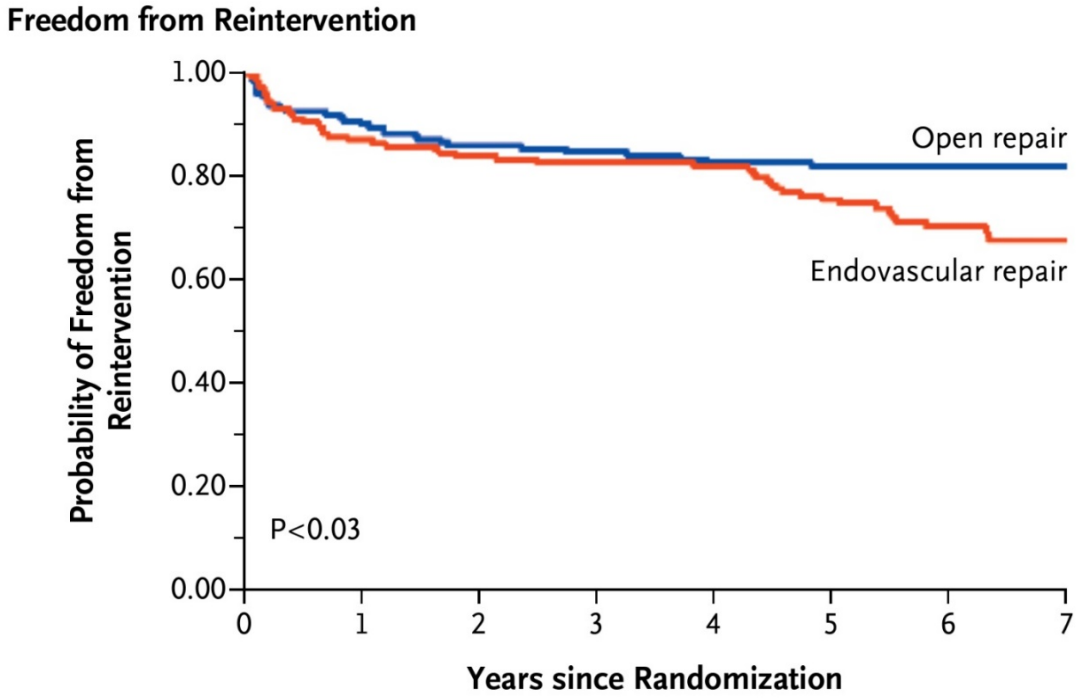
15 yrs

- Open repair
  - Lower total mortality (p=0.048)
  - Aneurysm related mortality (p=0.0064)

DREAM TRIAL



No. at Risk								
Open repair	178	166	159	150	143	137	88	36
Endovascular repair	173	166	156	143	133	128	83	39



No. at Risk								
Open repair	178	152	139	128	118	111	73	29
Endovascular repair	173	147	134	123	115	102	66	31

OVER TRIAL

2 YRS

Outcomes	EVAR	Open repair	P value
Mean life years	1.78	1.74	0.29
Mean QALY's	1.462	1.461	0.78
Mean graft cost	$14.052	$1363	<0.001
Mean hospital admission costs	$37068	$42970	0.04
Total health care costs			0.35

COST

- EVAR 1
  - EVAR VS OR ($23153 vs $18586)
- DREAM TRIAL
  - EVAR s OR (€18,179 vs €13,886)

EVAR

- Indications
  - > 70 years
  - Not fit for OR

- Indications expanded
  - All anatomical fit
    - Not cost effective
    - Poor QOL