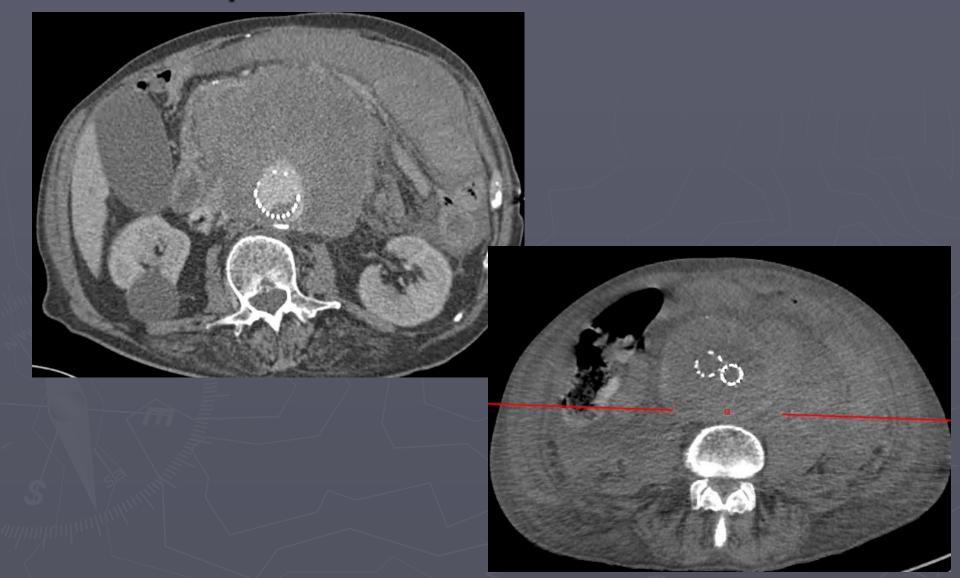
June 23rd – BREXIT?



Late rupture after EVAR

John Brennan Liverpool, UK

Late rupture = clear failure of EVAR



Clear failure of treatment

- failure of concept?
- failure of application?
- failure of technology?
- failure of monitoring?
- can it be eradicated?

Late rupture – what do we know?

- Meta-analysis Antoniou, JEVT 2015
- ▶ 17000 EVARs, 152 late ruptures
- ▶ incidence 0.9%
- mean time to rupture 37months
- 66% due to graft related endoleak
- not device specific
- nagging Achilles heel

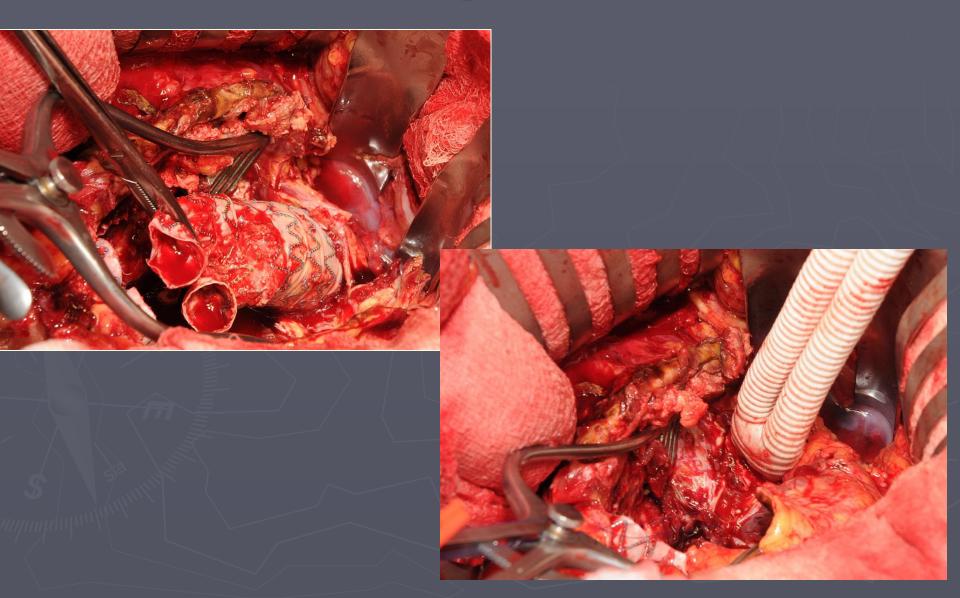
Causes

Cause	N	%
Type I endoleak	106	50
Ia	55	26
Ib	28	13
I - unspecified	23	11
Type III endoleak	33	16
Type IV endoleak	1	0.5
Combination of endoleaks	8	4
Unspecified endoleak	5	2
Expansion without endoleak	3	1
Type II endoleak	17	8
Migration	12	6
Other/unspecified	25	12

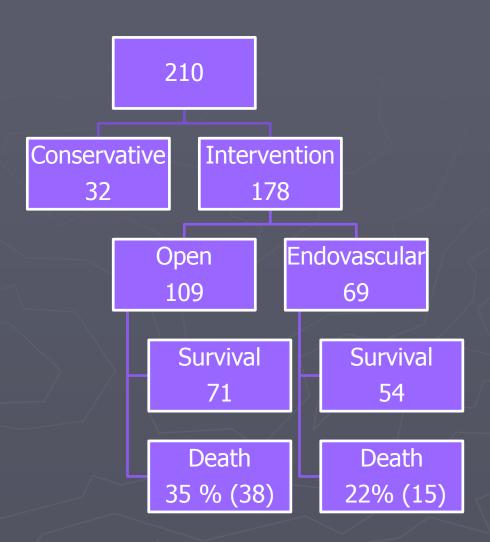
Late rupture - prevention

- caution in hostile anatomy
- avoid off-label use
- low threshold to extend proximal seal zone caudally
- accurate deployment imaging
- robust surveillance tailored?
- timely intervention ?Type II

Management



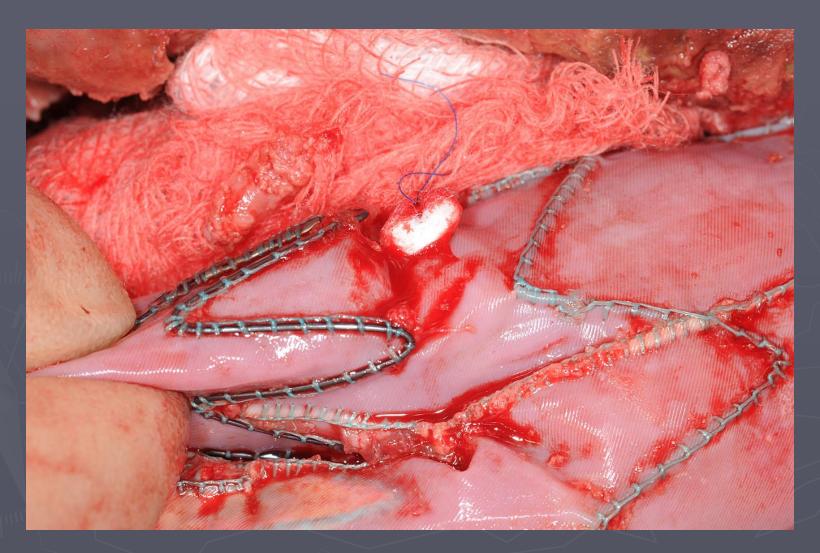
Management



Clear failure of treatment

- failure of concept?
- failure of application
- failure of technology?
- failure of monitoring?
- can it be eradicated?

Failure of concept?



Conceptual flaws

- inferior fixation no sutures
- bridging endoluminal space
- feeding vessels not managed
- device fatigue aortic pulsations
- disease progression
- why does it work at all?!!?

Areas to think about

- better primary fixation staples
- managing the endoluminal space bags, polymer
- tackling lumbars & IMA embolisation, polymer
- potential impact of EVAS
- is the incentive big enough?
- will practice change?

Thank you

