


Management of the Ruptured Abdominal Aortic Aneurysm: 10-year experience at a tertiary centre in the North of England



The Leeds Teaching Hospitals 
NHS Trust


National Institute for
Health Research

*Waduud MA, Wood B, Shaw D, Watson D, Bailey MA, Scott DJA.
*email: m.a.waduud@leeds.ac.uk.

Disclosure: The authors report no conflicts of interest.

Study Aim & Design

Presentation aim:

- Describe the post-operative mortality patterns observed following EVAR and OSR for ruptured AAA in our tertiary vascular centre in the UK.

Study design:

- Observational cohort study.
- Retrospective analysis of a prospective database.
- Primary end-point: Mortality.



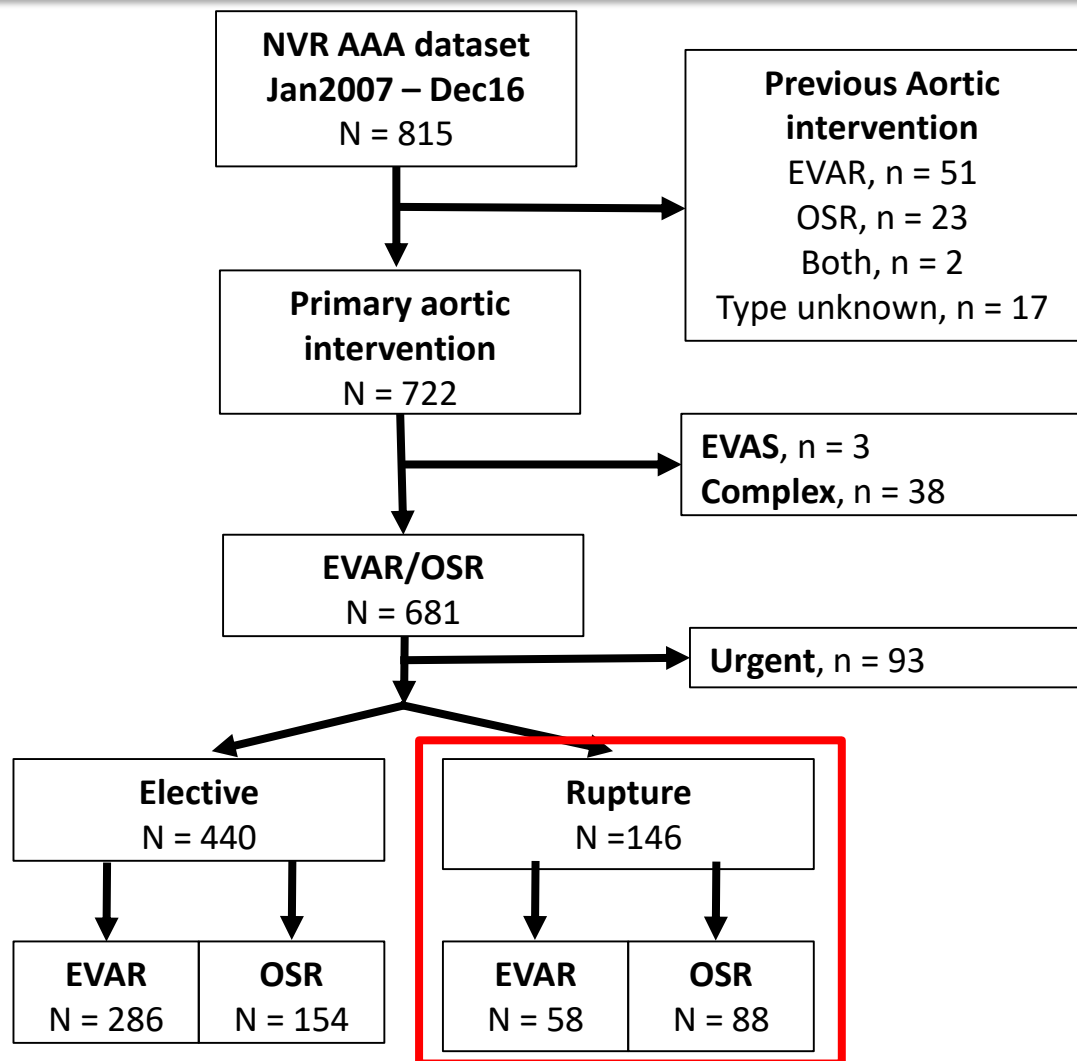
Inclusion of Data

Inclusion Criteria

- Known intervention performed between Jan 2007- Dec 2016 at the Leeds Vascular Institute.
- An AAA.
- Patients above 18years.

Exclusion criteria

- Prior aortic intervention.
- Complex procedures.
- Urgent interventions.



Results – Baseline demographics

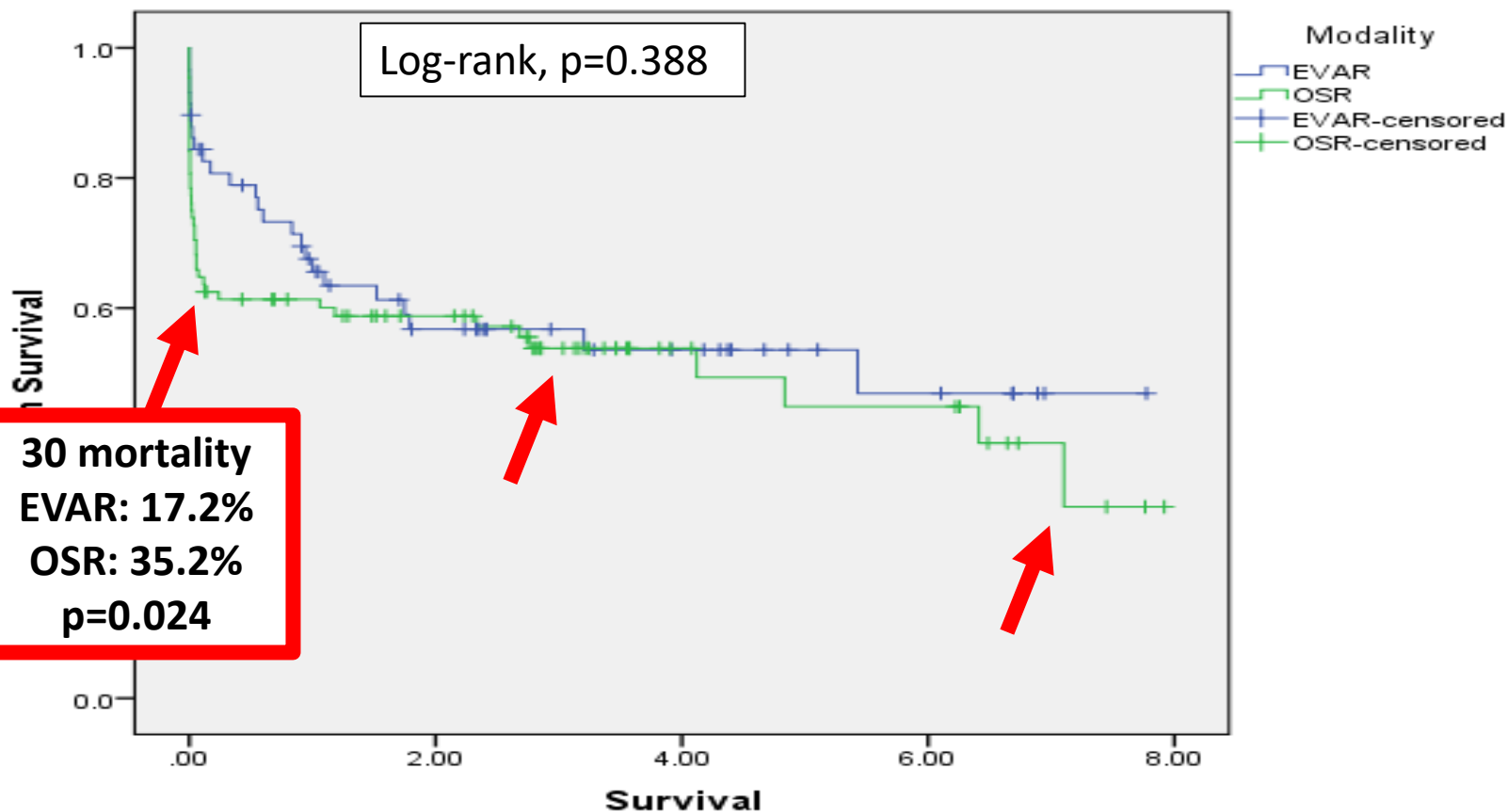
Characteristic	Ruptured EVAR (N = 58)	Ruptured OSR (N = 88)	P-value
Male (n, %)	48 (82.8%)	72 (81.8%)	0.884
Age [years] (mean, 95% CI)	76.5 (73.8 - 79.3)	76.8 (75.4 – 78.3)	0.856
Pre-Intervention AAA size [mm] (mean, 95% CI)	79.3 (74.4 - 84.1)	76.4 (73.3 – 79.4)	0.313
Hardman Index[#] (Score 1-5)	1 (0 - 3)	1 (0 - 3)	0.395
No. of co-morbidities[*] (median, range)	2 (1 - 6)	2 (1 - 5)	0.386
Smoking status			
• Current (n, %)	17 (29.3%)	18 (20.5%)	0.239
• Ex-smokers (n, %)	17 (29.3%)	27 (30.7%)	0.859
Pre-operative CT scan (n, %)	54 (93.1%)	59 (67.0%)	0.000
EVAR Turndown (n, %)		69 (78.4%)	

#the consciousness status was not routinely evident on retrospective review of case notes.

**these were restricted to diabetes, hypertension, chronic lung disease, ischaemic heart disease, chronic heart failure, chronic renal failure, stroke.*

\$ imaging was unavailable on our systems for 4 patients.

Results – rAAA survival analysis



30 mortality
EVAR: 17.2%
OSR: 35.2%
 $p=0.024$

EVAR*	0/58	23/24	24/15	25/7	25/0
OSR*	0/88	36/40	39/13	41/10	43/0

*cumulative events/remaining cases

Conclusion

- Immediate post-operative outcomes following OSR are significantly poorer compared to patients eligible for EVAR.
- Majority of patients were ineligible for EVAR due to anatomical restrictions, a potential prognostic marker.

