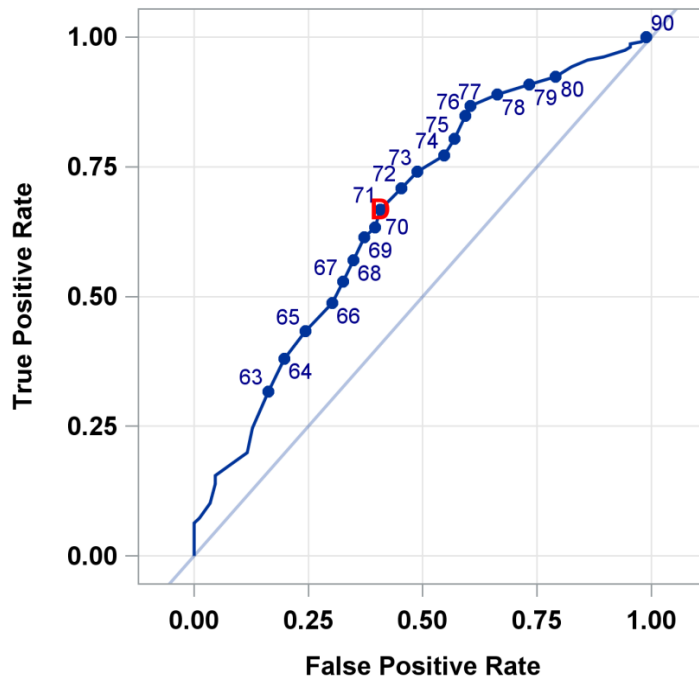


Effects of Abdominal Aortic Aneurysm Size on Mid- and Long-term Mortality After Endovascular Aneurysm Repair

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Supplemental Figure 1. Receiver operating characteristics analysis discriminating between death and survival at 10 years as a function of age.



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Supplementary Table 1. Causes of Deaths by Years of Follow-up.

	3 Years (n=72)	5 Years (n=105: 72+33)	10 Years (n=134: 72+33+29)
Cancer	9	18 (9+9)	23 (9+9+5)
Cardiac	8	14 (8+6)	15 (8+6+1)
Pulmonary	0	2 (0+2)	6 (0+2+4)
Renal	1	2 (1+1)	3 (1+1+1)
Other	8	17 (12+2)	21 (12+2+4)
Unknown	46	63 (46+13)	73 (46+13+14)

^aThe counts are cumulative. The numbers in parentheses are new deaths in each time period (3–5 years and 5–10 years).

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Supplemental Table 2. Baseline Patient and Clinical Characteristics Stratified by Abdominal Aortic Aneurysm Size ≥ 5.5 or < 5.5 cm.^a

Characteristics	All (n=325)	AAA ≥ 5.5 cm (n=160)	AAA < 5.5 cm (n=165)	p ^b
Age, y	69.7 \pm 8.5	71.1 \pm 9.0	68.3 \pm 7.8	0.004
Men	323 (99.4)	159 (99.4)	164 (99.4)	0.983
Active smoker	168 (51.7)	84 (52.5)	84 (50.9)	0.775
CAD	153 (47.1)	72 (45.0)	81 (49.1)	0.461
COPD	95 (29.2)	41 (25.6)	54 (32.7)	0.160
DM	70 (21.5)	35 (21.9)	35 (21.2)	0.885
Hypertension	264 (81.2)	127 (79.4)	137 (83.0)	0.400
Symptomatic	17 (3.1)	5 (3.1)	12 (7.3)	0.094
Creatinine, mg/dL	1.2 \pm 0.7	1.3 \pm 0.9	1.1 \pm 0.4	0.443

Abbreviations: AAA, abdominal aortic aneurysm; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; DM, diabetes mellitus.

^aContinuous data are presented as the mean \pm standard deviation; categorical data are given as the number (percentage).

^bThe 2-sided Wilcoxon rank sum test was used to test AAA size group differences for continuous variables and the Cochran-Mantel-Haenszel test for binary variables.

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Supplemental Table 3. Unadjusted and Adjusted Hazard Ratios for 3-, 5-, and 10-Year Mortality After Endovascular Aneurysm Repair in Patients With Abdominal Aortic Aneurysm ≥ 5.5 vs < 5.5 cm.

	3-Year Mortality			5-Year Mortality			10-Year Mortality		
	HR	95% CI	p	HR	95% CI	p	HR	95% CI	p
Unadjusted									
AAA size ≥ 5.5 cm	1.58	0.99 to 2.54	0.056	1.46	0.99 to 2.15	0.055	1.29	0.92 to 1.81	0.141
Adjusted									
AAA size ≥ 5.5 cm	1.53	0.93 to 2.51	0.093	1.29	0.86 to 1.94	0.220	1.18	0.83 to 1.68	0.358
Age > 70 years	2.80	1.56 to 5.02	< 0.001	2.25	1.42 to 3.57	< 0.001	2.09	1.40 to 3.11	< 0.001
Current smoker	1.31	0.78 to 2.21	0.301	1.13	0.73 to 1.77	0.582	1.04	0.70 to 1.54	0.864
CAD	1.22	0.74 to 2.02	0.605	1.04	0.69 to 1.57	0.864	1.05	0.74 to 1.51	0.777
COPD	1.40	0.84 to 2.31	0.195	1.29	0.84 to 1.98	0.249	1.44	0.99 to 2.10	0.056
DM	0.87	0.48 to 1.60	0.195	1.00	0.62 to 1.62	0.997	1.18	0.79 to 1.77	0.428
Hypertension	0.77	0.44 to 1.34	0.356	0.85	0.53 to 1.39	0.521	0.94	0.60 to 1.47	0.774
Symptomatic	2.53	1.14 to 5.59	0.022	2.02	0.90 to 4.52	0.087	1.56	0.69 to 2.54	0.283
Creatinine, mg/dL	1.01	0.73 to 1.41	0.949	1.25	1.04 to 1.50	0.018	1.23	1.01 to 1.48	0.039

Abbreviations: AAA, abdominal aortic aneurysm; CAD, coronary artery disease; CI, confidence interval; COPD, chronic obstructive pulmonary disease; DM, diabetes mellitus; HR, hazard ratio.

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Supplemental Table 4. Baseline Patient and Clinical Characteristics Stratified by Abdominal Aortic Aneurysm Size ≥ 6.0 or >6.0 cm.^a

Characteristics	All (n=325)	AAA ≥ 6.0 cm (n=95)	AAA <6.0 cm (n=230)	p ^b
Age, y	69.7 \pm 8.5	71.3 \pm 9.2	68.9 \pm 8.2	0.047
Men	323 (99.4)	94 (98.9)	229 (99.6)	0.518
Active smoker	168 (51.7)	54 (56.8)	114 (49.6)	0.233
CAD	153 (47.1)	37 (39.0)	116 (49.1)	0.060
COPD	95 (29.2)	25 (26.3)	70 (30.4)	0.458
DM	70 (21.5)	17 (17.9)	53 (23.0)	0.305
Hypertension	264 (81.2)	75 (78.9)	189 (82.2)	0.499
Symptomatic	17 (3.1)	5 (5.3)	12 (5.2)	0.987
Creatinine, mg/dL	1.2 \pm 0.7	1.3 \pm 1.0	1.2 \pm 0.5	0.329

Abbreviations: AAA, abdominal aortic aneurysm; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; DM, diabetes mellitus.

^aContinuous data are presented as the mean \pm standard deviation; categorical data are given as the number (percentage).

^bThe 2-sided Wilcoxon rank sum test was used to test AAA size group differences for continuous variables and the Cochran-Mantel-Haenszel test for binary variables.

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Supplemental Table 5. Adjusted Hazard Ratios for 3-Year, 5-Year, and 10-Year Mortality After EVAR Between AAA Size ≥ 6.0 cm and < 6.0 cm.

	3-Year Mortality			5-Year Mortality			10-Year Mortality		
	HR	95% CI	p	HR	95% CI	p	HR	95% CI	p
AAA size ≥ 6.0 cm	1.69	0.99 to 2.68	0.042	1.39	0.90 to 2.14	0.139	1.33	0.91 to 1.94	0.149
Age > 70 years	2.77	1.54 to 4.99	< 0.001	2.26	1.42 to 3.59	< 0.001	2.07	1.39 to 3.09	< 0.001
Current smoker	1.28	0.76 to 2.15	0.836	1.13	0.72 to 1.76	0.600	1.02	0.69 to 1.52	0.907
CAD	1.25	0.76 to 2.07	0.383	1.06	0.70 to 1.60	0.789	1.08	0.75 to 1.56	0.669
COPD	1.38	0.84 to 2.28	0.202	1.29	0.84 to 1.97	0.247	1.44	0.99 to 2.09	0.054
DM	0.90	0.49 to 1.65	0.732	0.89	0.53 to 1.51	0.960	1.19	0.79 to 1.79	0.400
Hypertension	0.77	0.44 to 1.36	0.806	0.90	0.54 to 1.49	0.547	0.94	0.60 to 1.48	0.780
Symptomatic	2.29	1.02 to 5.13	0.045	1.69	0.71 to 4.06	0.127	1.49	0.65 to 3.40	0.345
Creatinine, mg/dL	0.99	0.72 to 1.37	0.977	1.25	1.04 to 1.50	0.015	1.22	1.02 to 1.47	0.023

Abbreviations: AAA, abdominal aortic aneurysm; CAD, coronary artery disease; CI, confidence interval; COPD, chronic obstructive pulmonary disease; DM, diabetes mellitus; HR, hazard ratio.