

2018 MID-ATLANTIC
CONFERENCE

8th ANNUAL CURRENT CONCEPTS IN
VASCULAR THERAPIES

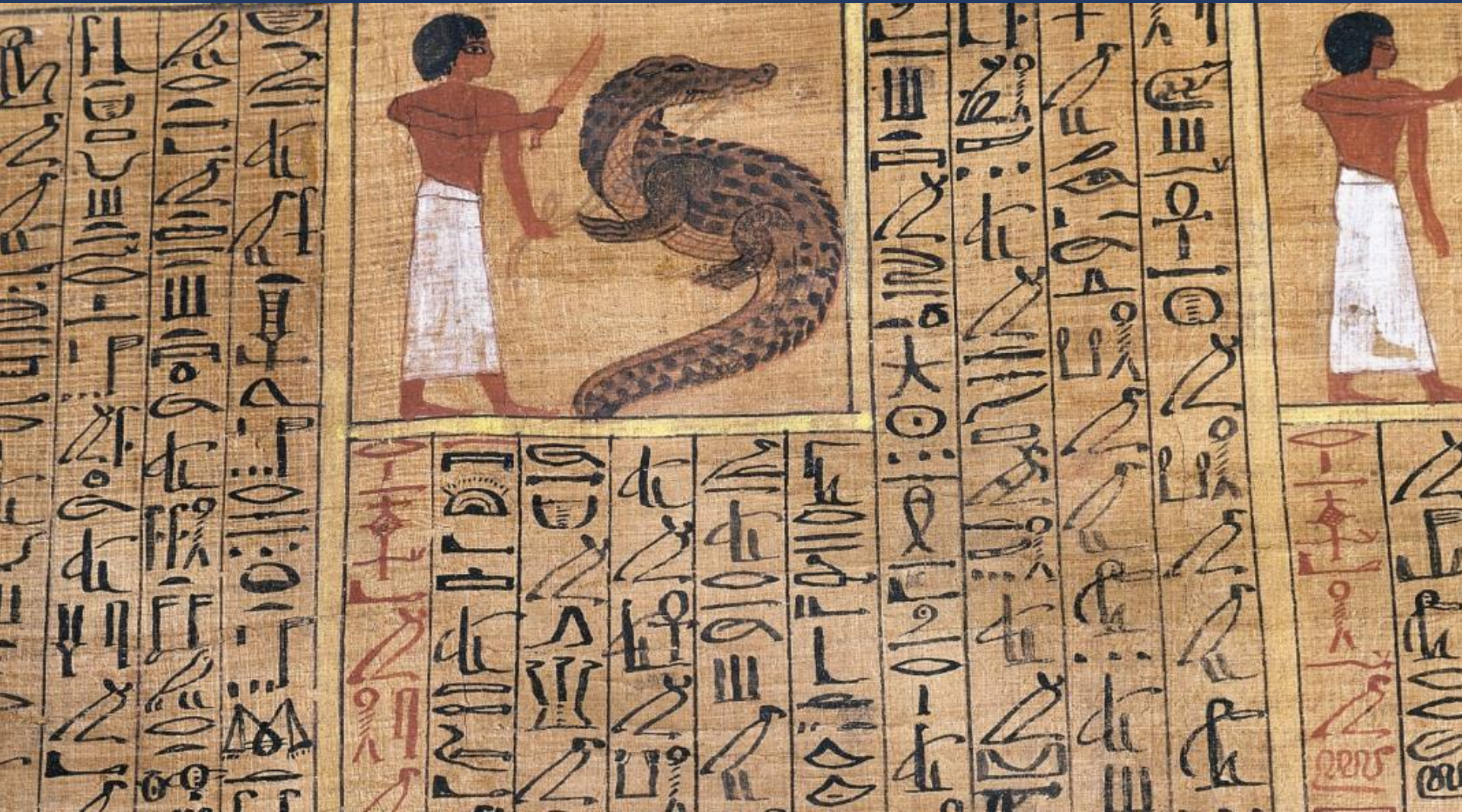
2018



Gordon K. Stokes, MD
April 28, 2018

**Open Surgery Will Always
Have a Role in Complex Aortic Repair**

Ebers Papyrus, 2000 BC



Antyllus

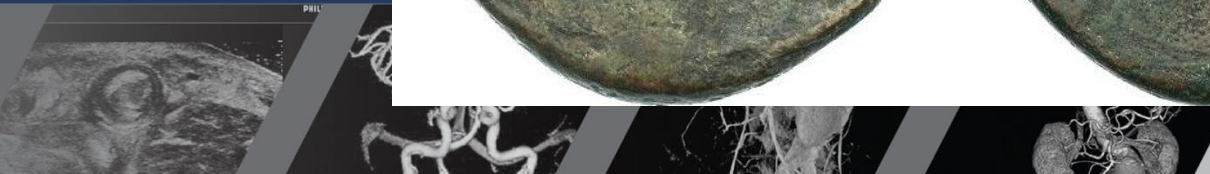
The True Father of Vascular Surgery

Antyllus method

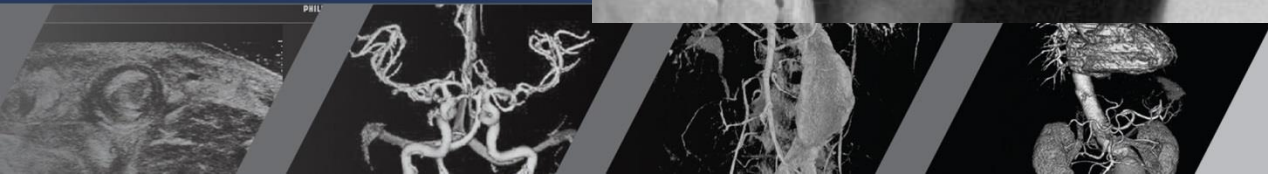
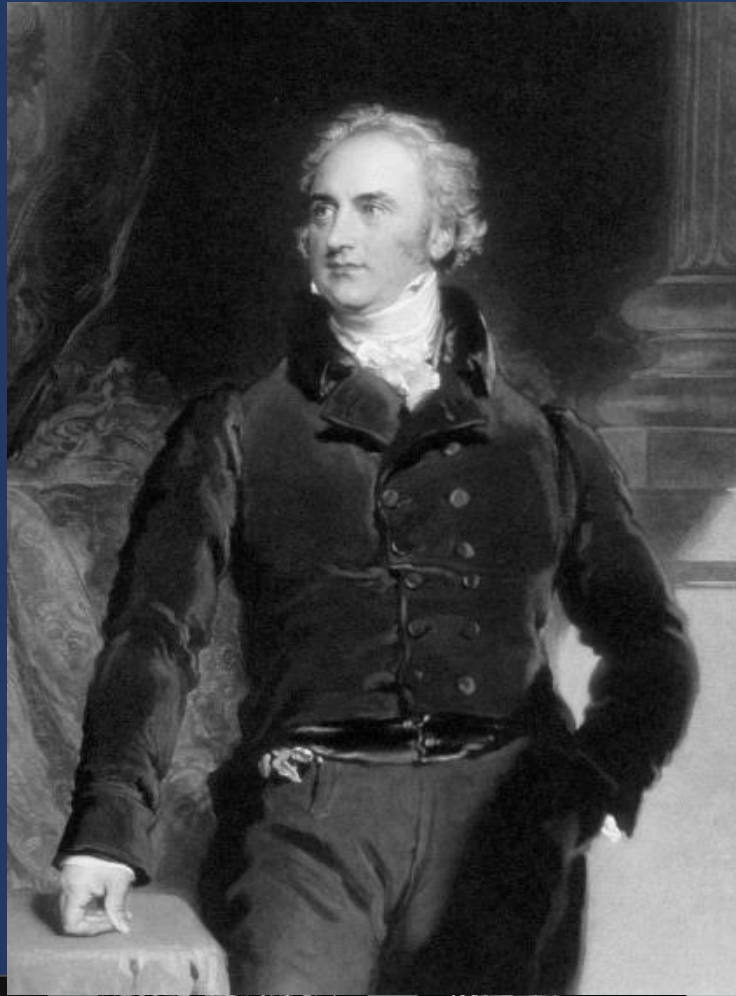
proximal and distal ligation

central incision of aneurysm

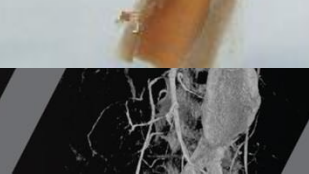
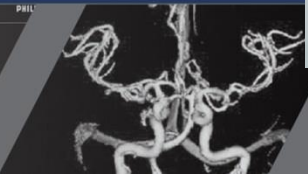
Thrombus evacuation



Sir Astley Cooper 1817

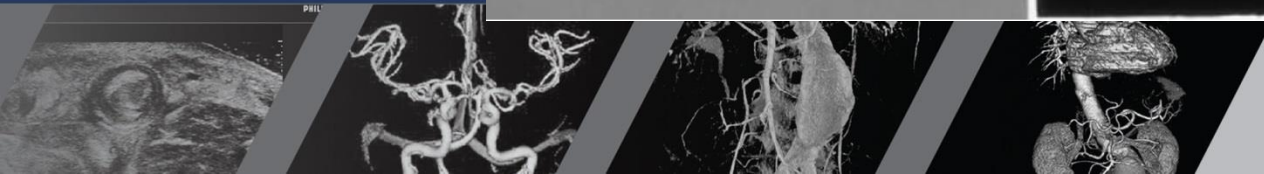
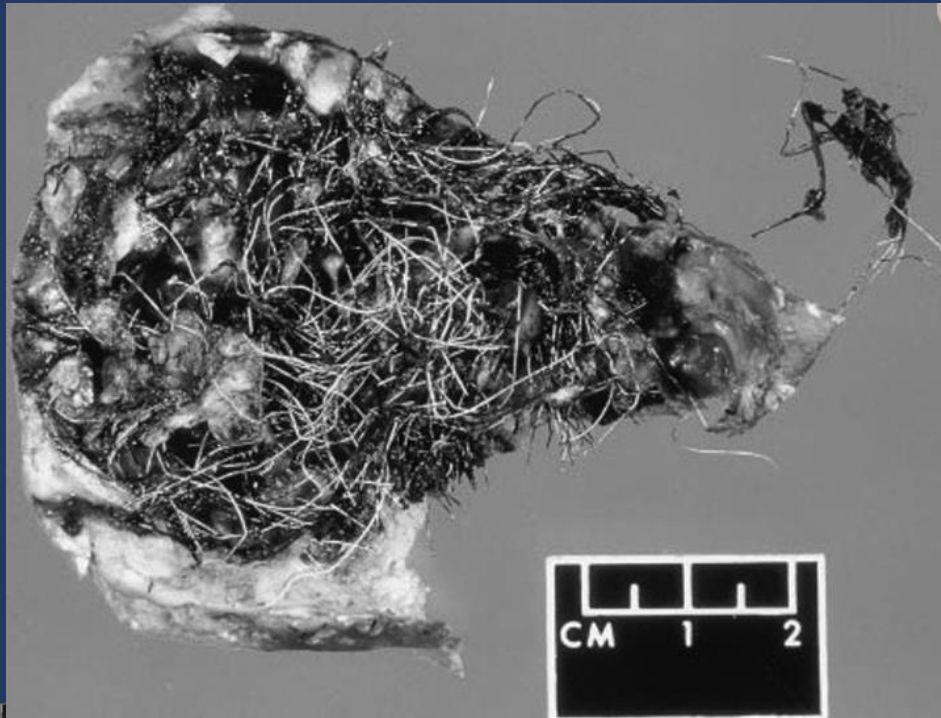


Sir Astley Cooper 1817



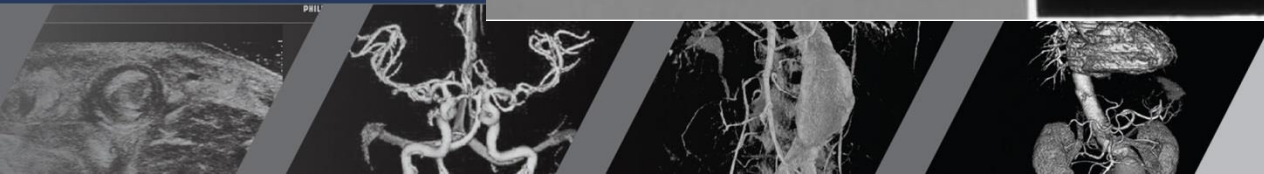
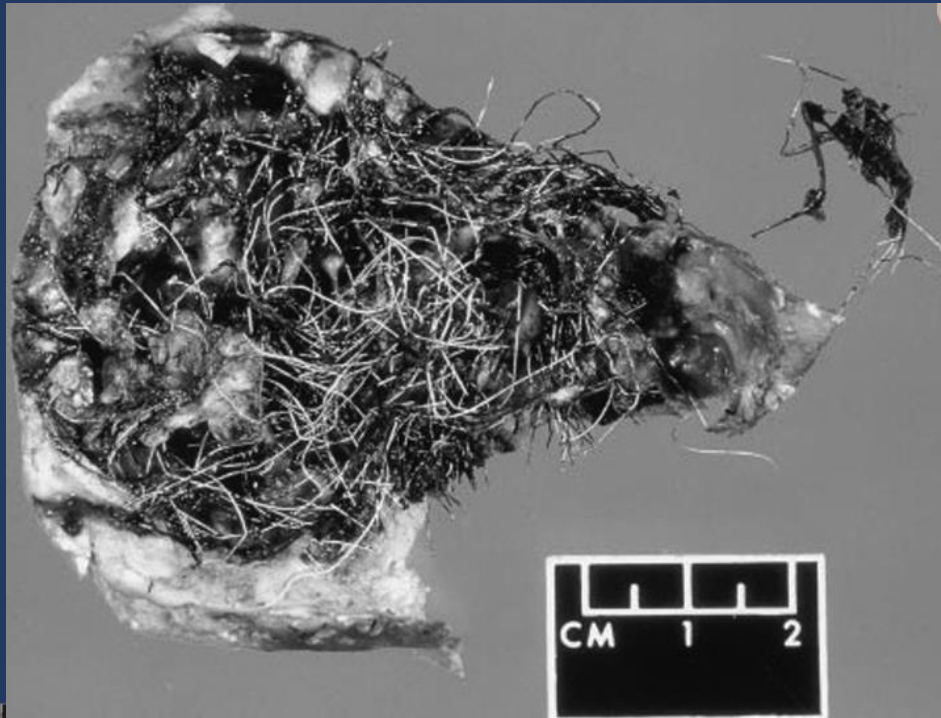
Aneurysm Treatment Fails

Moore 1864 at Middlesex Hospital wired an aneurysm with 26 yards of coils

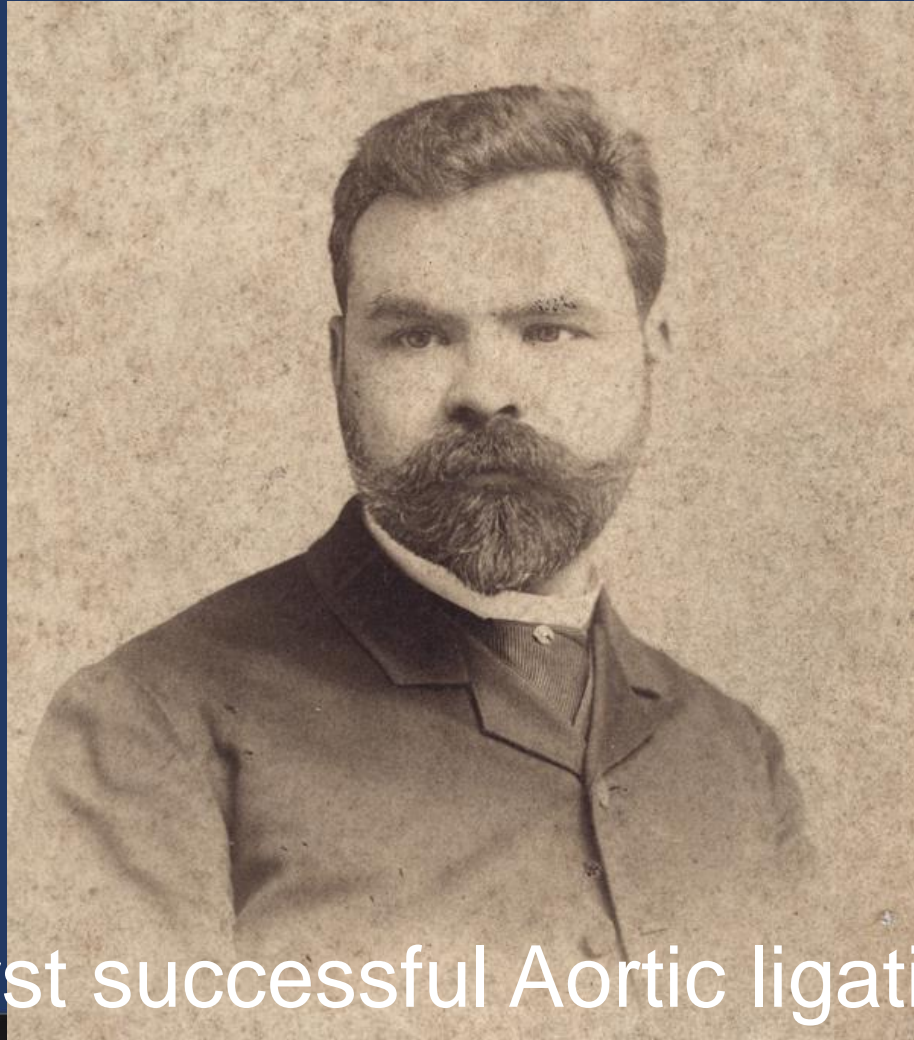


Aneurysm Treatment Fails

Carrodi 1879 in Pavia attached the wires to a battery to induce thrombosis



Rudolph Matas 1923

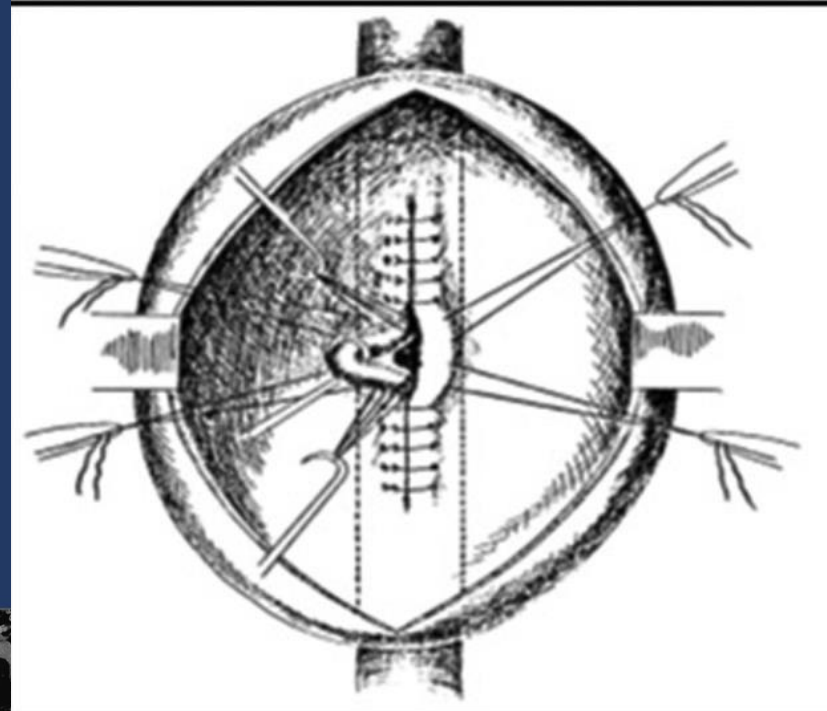


First successful Aortic ligation

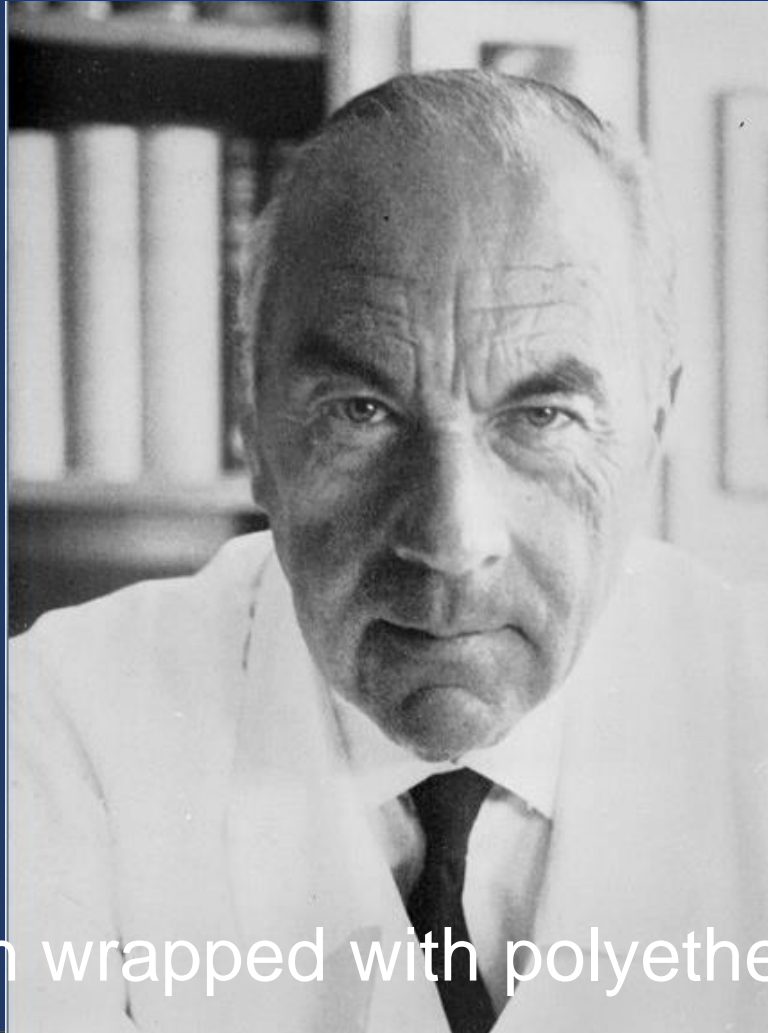


Endoaneurysmorrhaphy

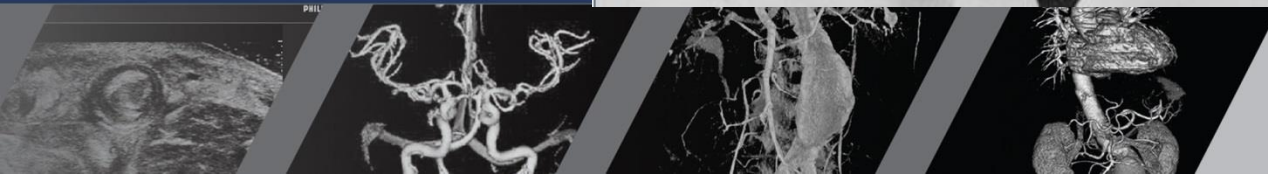
Obliterative
Restorative
Reconstructive

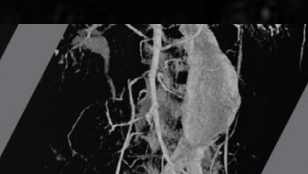
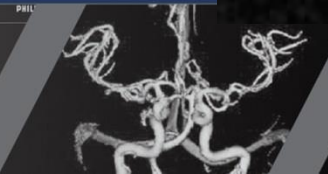
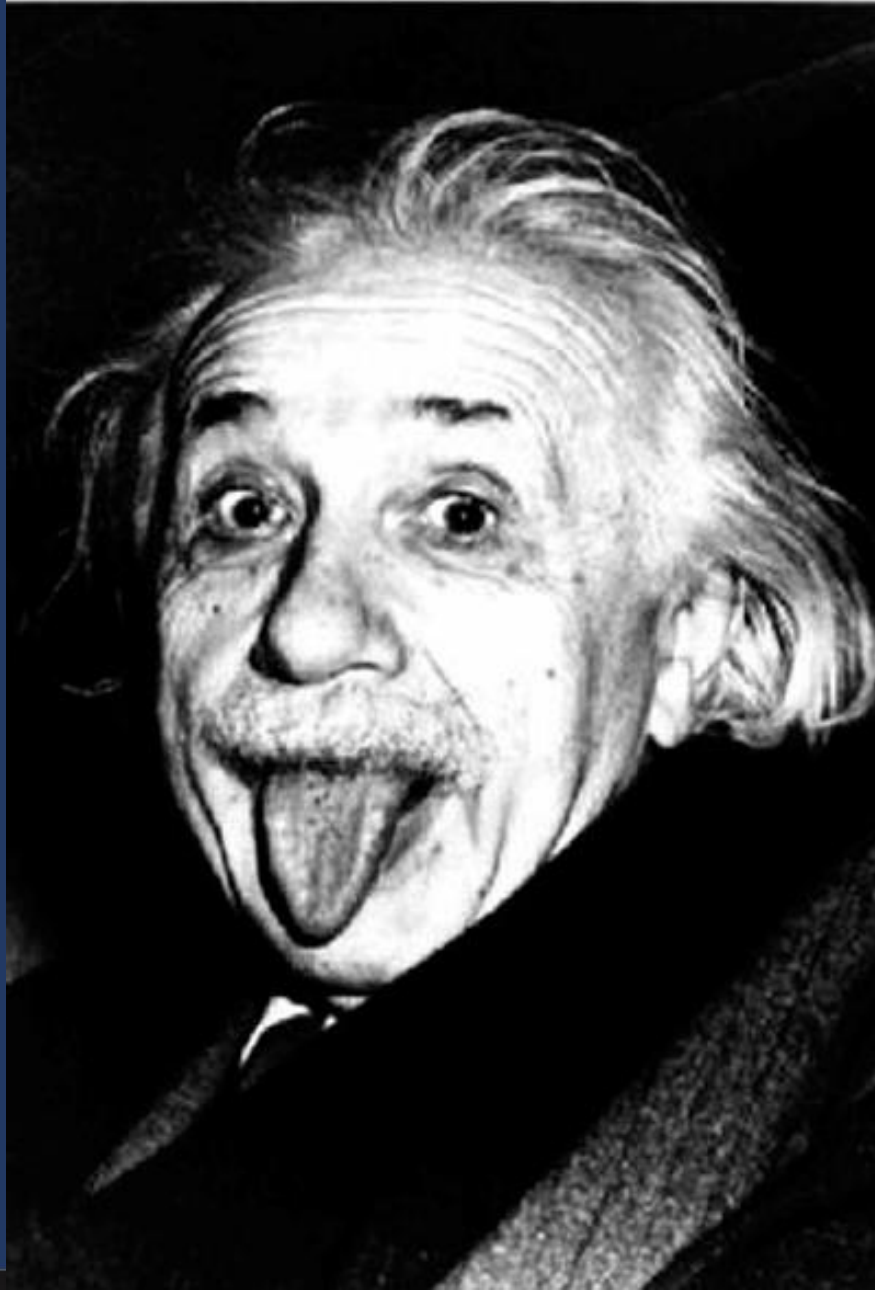


Rudolph Nissen, M.D. 1948



Aortic Aneurysm wrapped with polyethylene cellophane, 1948





Charles Dubost 1951



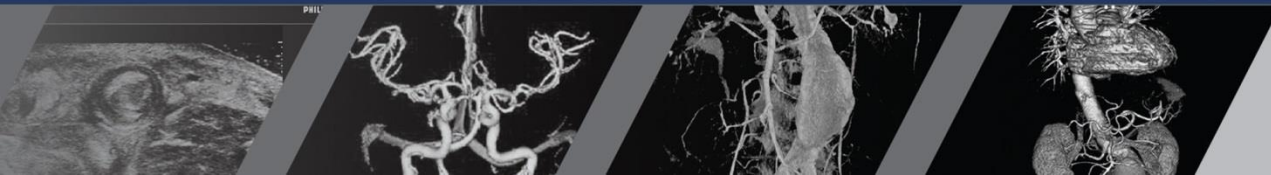
First successful homograft
replacement of Aortic Aneurysm



Southern Surgical Association Meeting 1952

Blakemore in New York

rubber band wrapped polythene film
insertion of wire then
100 volts of electric current



Southern Surgical Association Meeting 1952

Blakemore in New York

rubber band wrapped polythene film
insertion of wire then

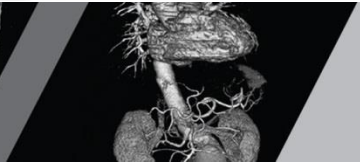
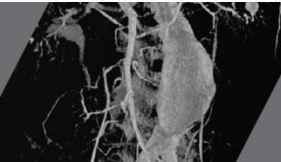
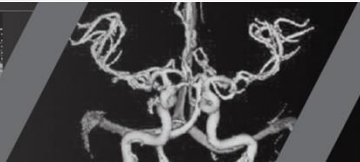
100 volts of electric current

DeBakey

Two successful Homograft cases



Michael DeBakey, M.D.



Oscar Creech, Jr., M.D.



Juan Parody 1990

Homans Lecture 2015 Juan Parodi

2015 VASCULAR
ANNUAL MEETING
CHICAGO

SOCIETY for
VASCULAR SURGERY



September 7, 1990

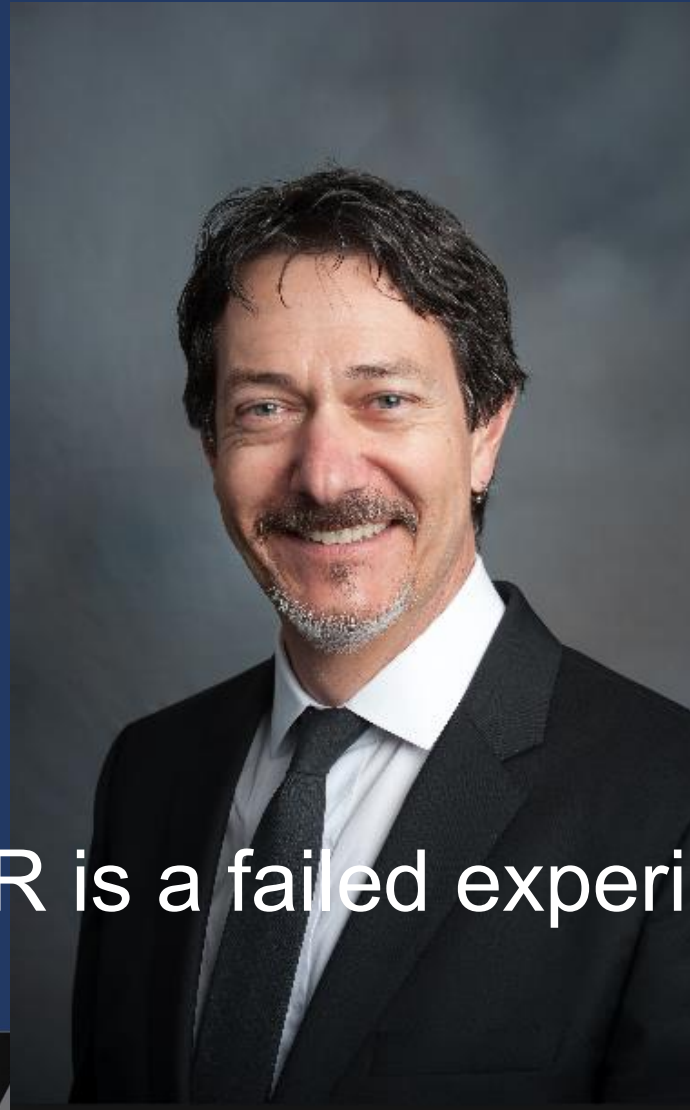
- In 2015 we celebrate the 25th anniversary of the first successful endoluminal treatment of an Abdominal Aortic Aneurysm in the world.



Jean Panneton, M.D.



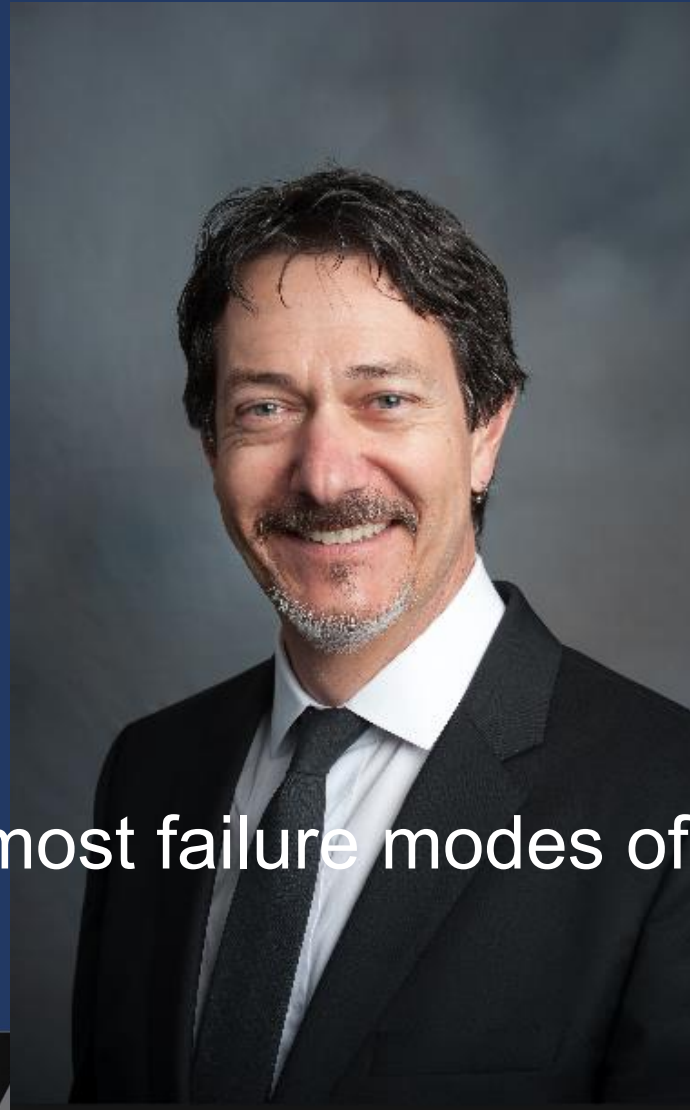
Jean Panneton, M.D.



“EVAR is a failed experiment”



Jean Panneton, M.D.



“EVAR has the most failure modes of all procedures.”



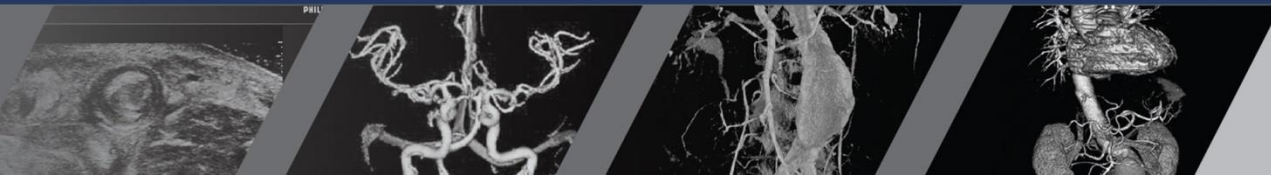
Modes of EVAR Failure

- Endoleak
- Endotension with no demonstrable leak
- Sac growth
- Migration
- Neck dilatation

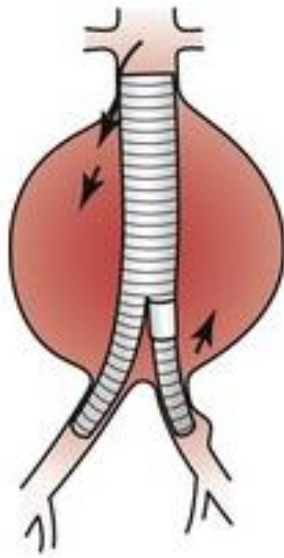


Modes of EVAR Failure, continued

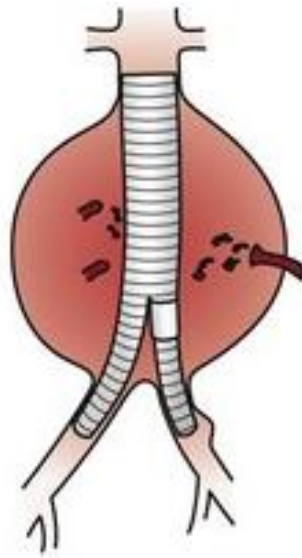
- Graft limb Occlusion
- Infection
- Stent Fracture
- Renal Artery Occlusion
- Pelvic Ischemia



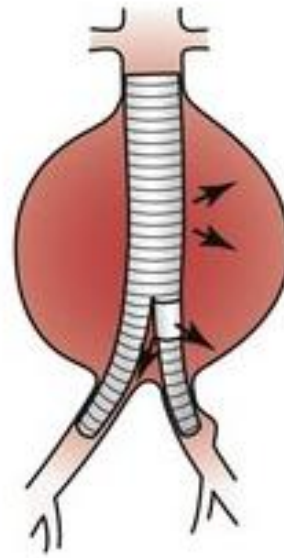
Endoleaks



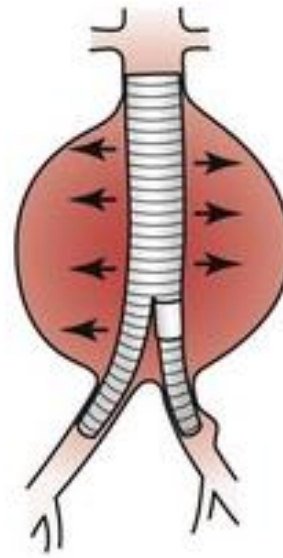
Type I



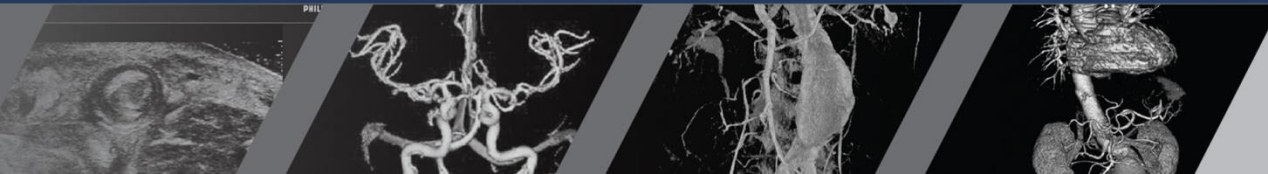
Type II



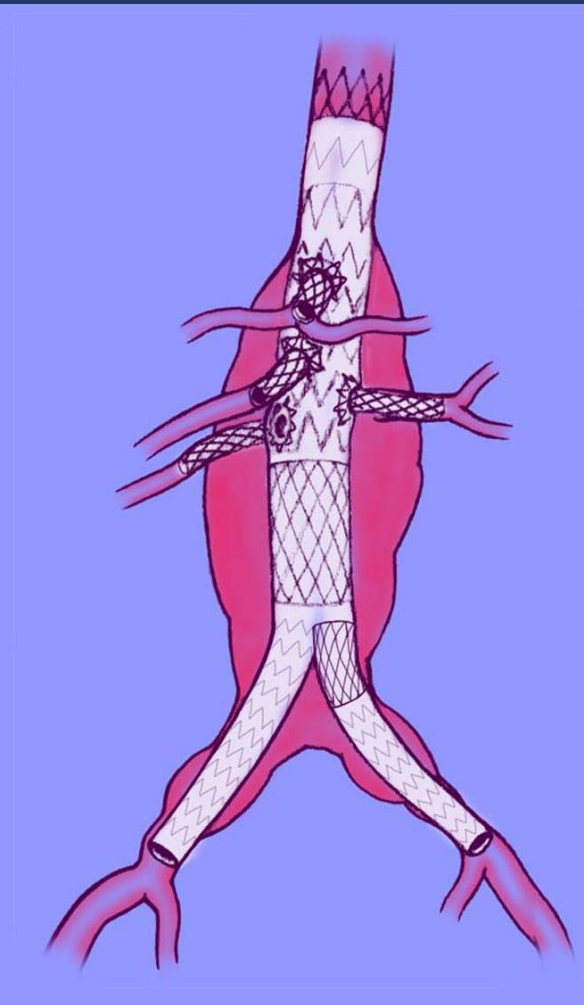
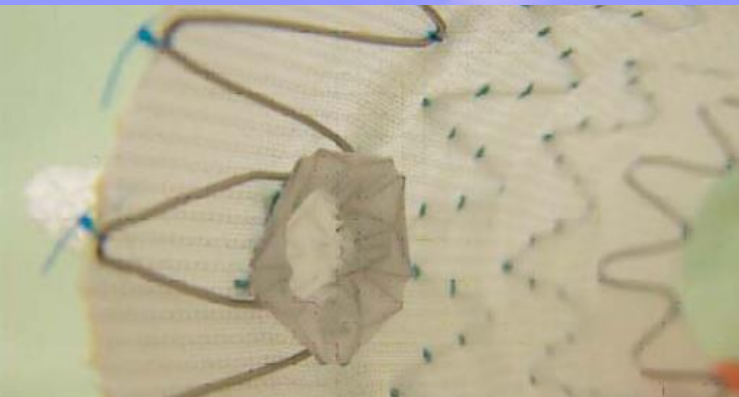
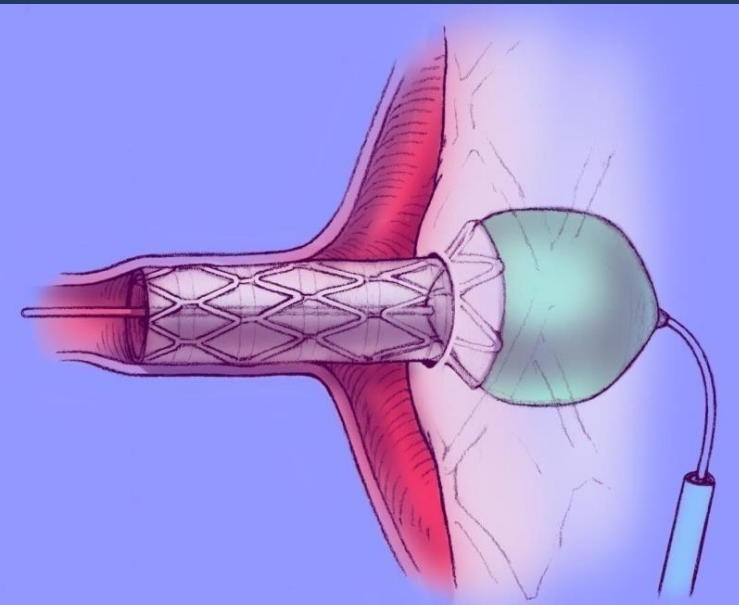
Type III



Type IV



Multiple sites for Endoleaks



Open repair versus fenestrated endovascular aneurysm repair of juxtarenal aneurysms

Rohini Rao, BSc, Tristan R. A. Lane, MRCS, Ian J. Franklin, FRCS(Gen Surg), and Alun H. Davies, DM, FRCS, *London, United Kingdom*



Open repair versus fenestrated endovascular aneurysm repair of juxtarenal aneurysms

Rohini Rao, BSc, Tristan R. A. Lane, MRCS, Ian J. Franklin, FRCS(Gen Surg), and Alun H. Davies, DM, FRCS, *London, United Kingdom*

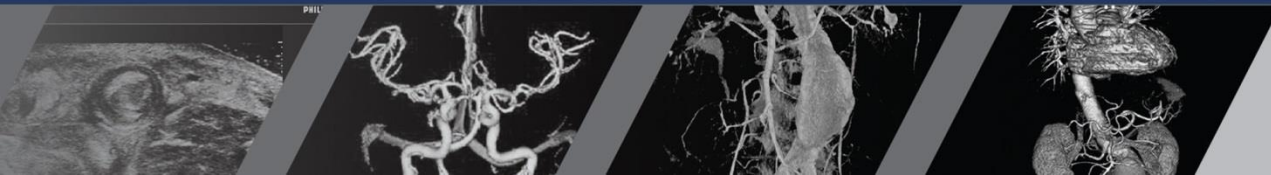
Conclusions

FEVAR

Higher rate of progression to renal impairment

Greater rate of secondary interventions

Lower long term survival



Conclusion

Open repair is the gold standard management for juxtarenal aneurysms.



Rao et. al., JVS 2015

Long-Term Outcomes of Abdominal Aortic Aneurysm in the Medicare Population

Marc L. Schermerhorn, M.D., Dominique B. Buck, M.D., A. James O'Malley, Ph.D., Thomas Curran, M.D., John C. McCallum, M.D., Jeremy Darling, B.A., and Bruce E. Landon, M.D., M.B.A.

Table 3. Eight-Year Outcomes after Endovascular and Open Repair of Abdominal Aortic Aneurysm.

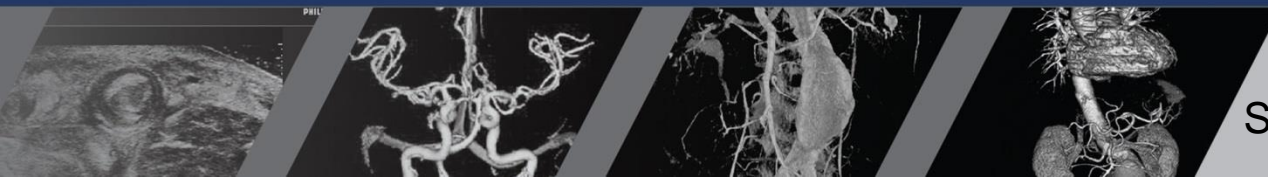
Outcome	Endovascular Repair (N=39,966)	Open Repair (N=39,966)	P Value
	<i>no. of patients (%)*</i>		
Death	14,548 (54.9)	14,681 (54.7)	0.76
Rupture of aneurysm	962 (5.4)	353 (1.4)	<0.001
Any aneurysm-related intervention	4,165 (18.8)	754 (3.7)	<0.001
Major reintervention	392 (2.3)	186 (0.8)	<0.001
Minor reintervention	3,924 (17.5)	597 (3.1)	<0.001
Minor reintervention for embolization	1,857 (8.0)	161 (1.0)	<0.001
Hospitalization for abdominal aortic aneurysm without reintervention	233 (1.2)	55 (0.3)	<0.001
Reintervention for complications related to laparotomy	1,695 (8.2)	4,427 (17.7)	<0.001
Repair of a hernia of the abdominal wall	610 (2.7)	3,070 (11.2)	<0.001
Lysis of adhesions without bowel resection	238 (1.4)	654 (3.1)	<0.001
Bowel resection	1,035 (5.2)	1,199 (6.0)	0.008
Admission for bowel obstruction without surgery	3,510 (17.3)	4,805 (22.2)	<0.001
Aneurysm-related intervention or intervention for complications related to laparotomy	5,614 (25.1)	5,034 (20.6)	<0.001
Hospitalization related to aneurysm or for complications related to laparotomy, without intervention	3,710 (17.9)	4,846 (22.0)	<0.001
Reintervention or hospitalization without intervention for rupture, aneurysm, or complications related to laparotomy	6,279 (27.8)	5,355 (21.8)	<0.001

* Percentages are 8-year Kaplan–Meier estimates.

Long-Term Outcomes of Abdominal Aortic Aneurysm in the Medicare Population

Marc L. Schermerhorn, M.D., Dominique B. Buck, M.D., A. James O'Malley, Ph.D., Thomas Curran, M.D., John C. McCallum, M.D., Jeremy Darling, B.A., and Bruce E. Landon, M.D., M.B.A.

	Endovascular	Open	
Rupture of aneurysm	962 (5.4)	353 (1.4)	<0.001
Any aneurysm-related intervention	4,165 (18.8)	754 (3.7)	<0.001
Major reintervention	392 (2.3)	186 (0.8)	<0.001
Minor reintervention	3,924 (17.5)	597 (3.1)	<0.001
Minor reintervention for embolization	1,857 (8.0)	161 (1.0)	<0.001



What is Success?

Definition of SUCCESS

- 1 *obsolete* : **OUTCOME, RESULT**
- 2 a : degree or measure of **succeeding**
b : favorable or desired outcome; *also* : the attainment of wealth, favor, or **eminence**
- 3 : one that **succeeds**



Definition of Success

Spiritual teacher Deepak Chopra believes success is a matter of constant growth.

The physician and author says it's a matter of continual growth.

"Success in life could be defined as the continued expansion of happiness and the progressive realization of worthy goals," Chopra writes in "[The Seven Spiritual Laws of Success](#)."

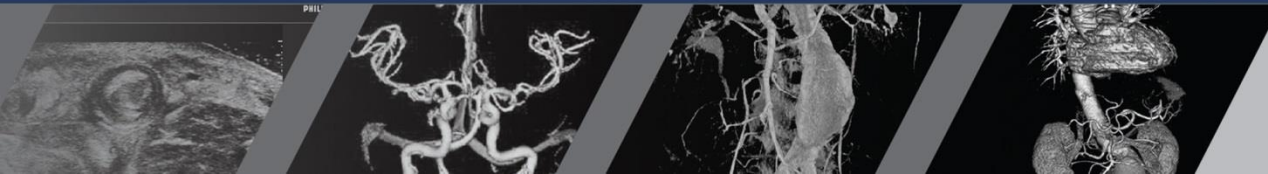


Amy Sussman /AP Images for Seventh Generation



What is Success?

- Safe
- Effective
- Durable



Success

- Safe
- Effective
- Durable



“The good physician treats the disease: the great physician treats the patient who has the disease.”

Sir William Osler

