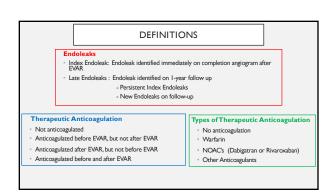
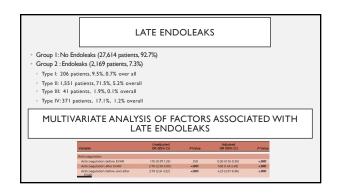


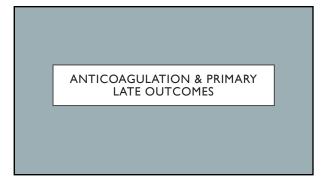
Successful EVAR Secure fixation at Proximal and Distal landing zones Thrombosis in the aortic sac Type II Endoleaks Persistent flow in the sac Can lead to increase in sac diameter Long-term Anticoagulation Potentially prevents thrombosis of outflow lumbar arteries/IMA With aging population, more and more patients are expected to be on anticoagulation

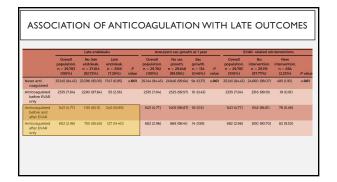
	PUBLISHED DATA								
Primary author	Fairman et al ³⁵	Biebel et al ⁹	Johnson et al ¹⁰	Lai et al ¹²	Wild et al ¹¹	Bobadilla et al ^b	Abularrage et al ⁵	De Rango et al ⁶	Seike et al ⁷
Year Published	2002	2005	2013	2015	2014	2010	2010	2014	2017
Journal	J Vasc Surg	J Endovasc Ther	J Vasc Surg	J Vasc Surg	Ann Vasc Surg	J Vasc Surg	J Vasc Surg	Eur J Vase Endovasc Surg	Interact Cardiovaso Thor Surg
Study Description	Single center, retros pective	Single center, retros pective	Single center, retros pective	42 VA medical centers, retros pective	Single center, retros pective	Single center, retros pective	Single center, retros pective	Single center, retros pective	Single center, retros pective
Total EVAR	232	182	363	439	407	127	595	1409	209
Persistent endoleaks	1896	1296	1296	30.50%	12.50%	30%	23%	1896	29%
Anticoagulation	1596	1296	1996	9.6%	1196	1996	1296	7.396	16%
Follow-up	Mean 18 months	Mean 16 months	Median 29 months	Mean 74 months	Median 18 months	Mean 25 months	Median 35 months	1 and 60 months	Mean 37 months
Conclusions	No significant increase in type II endoleaks in anti coagulated patients	No significant increase in endoleaks in anti coagulated patients	Significant increase in endoleaks in anti coagulated patients	Significant increase in type II endoleaks in anti coagulated patients	Significant increase in endoleaks in anti coagulated patients	Significant increase in type II endoleaks in anti coagulated patients			

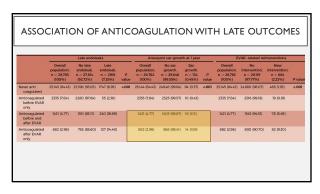
METHODOLOGY Dataset: Society for Vascular Surgery Vascular Quality Initiative (SVS-VQI) EVAR Module Time Period: 2013 – 2019 Original Sample Size: 46,551 Patients Patients with complete information about endoleaks at completion angiogram and at long-term outcomes: 29,783 Patients

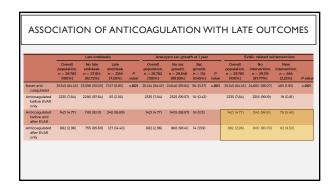




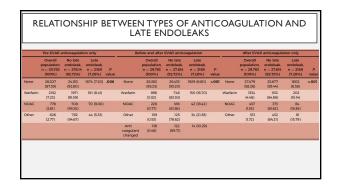


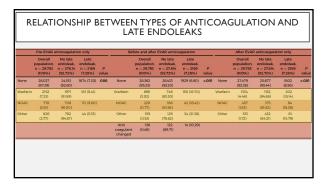


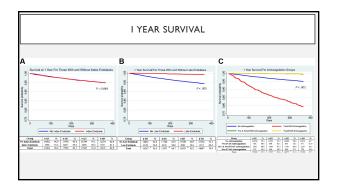


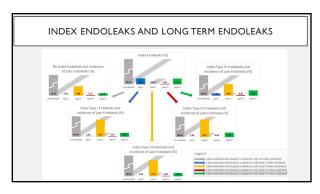


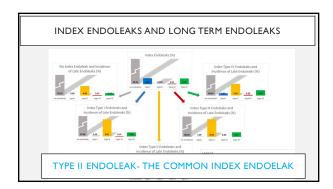
TYPE OF ANTICOAGULATION

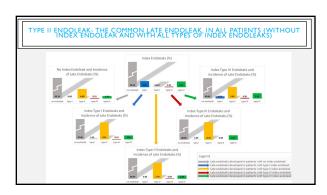




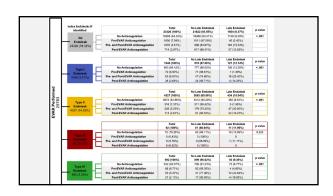


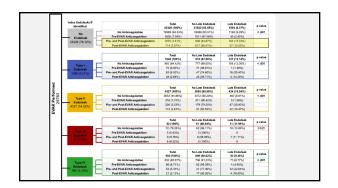


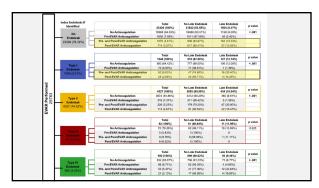


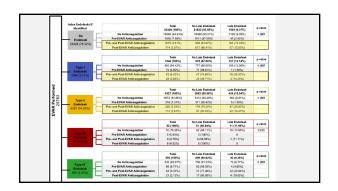


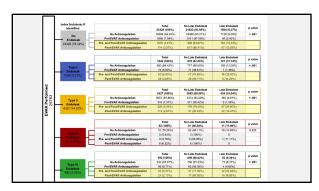
ASSOCIATION OF ANTICOAGULATION WITH TYPE OF INDEX ENDOLEAK AND LATE ENDOLEAK











SUMMARY

- Therapeutic anticoagulation post EVAR
- Two-fold increase in incidence of all late endoleaks
 Regardless of the choice of anticoagulant (Coumadin or NOACs)
- When anticoagulation is stopped post EVAR
- Reduced incidence of late endoleaks Increased all cause mortality
- Type of late Endoleak
- Correlates with index endoleak (at completion angiogram at EVAR)
 Type II is the most common type of endoleak
- In all patients without index endoleak
- In patients with all different types of index endoleaks

The fate of endoleaks after endovascular aneurysm repair and the impact of oral anticoagulation on their persistence

