

Predictors of Venous Thromboembolism in Ventral Hernia Repair

Mazen R. Al-Mansour, MBBS, FACS
Assistant Professor
University of Florida

Disclosures

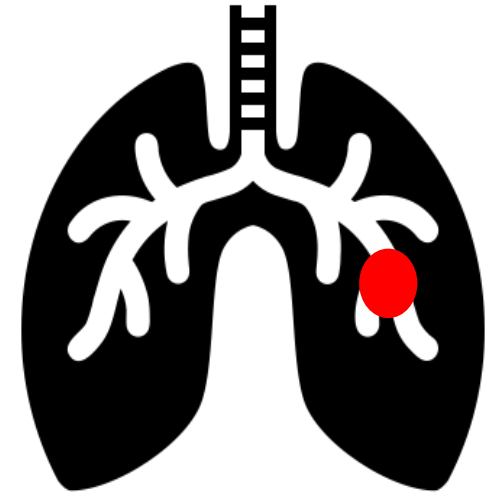
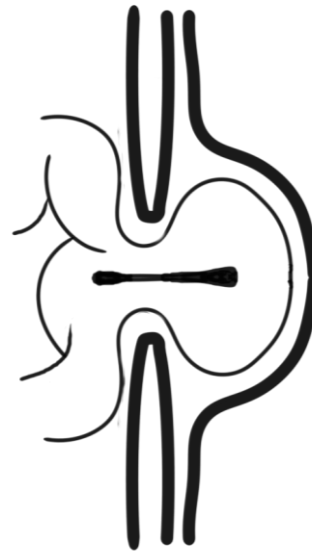
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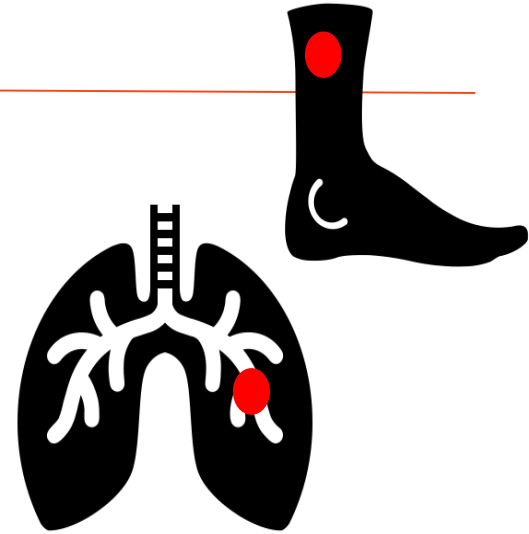
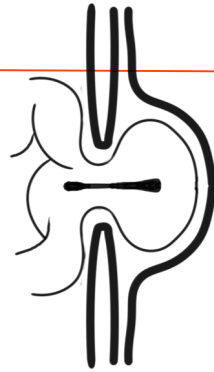
abbvie

Medtronic

Background

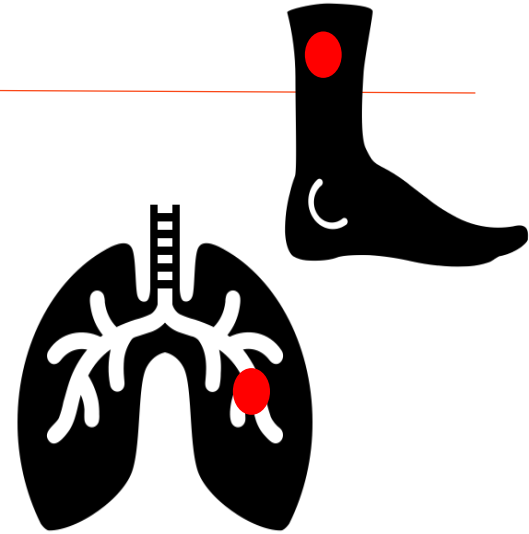
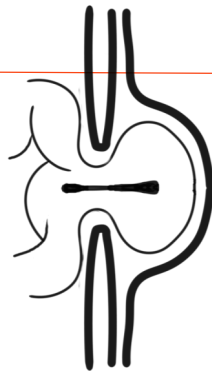


Background



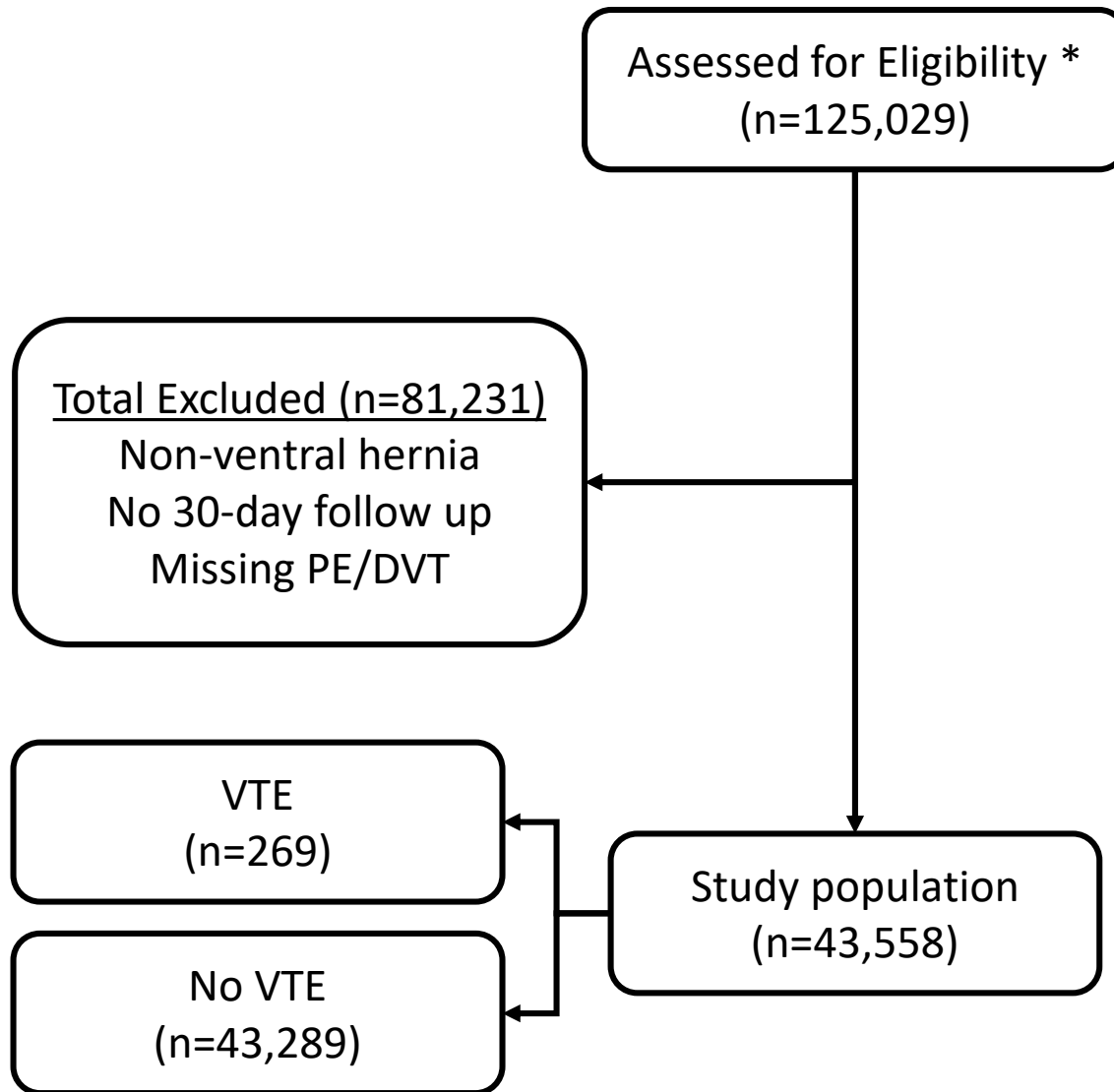
Study	Database	N	VTE rate	VTE Risk Factors
Andriyashkin. 2022	Single center	240	7.9 %	CS, OR time, BMI
Helm. 2019	ACS NSQIP	46095	0.5 %	Age, OR time, bleeding disorders, transfusion
Kraft. 2019	Single surgeon	175	2.3 %	CS, elevated peak inspiratory pressure

Objective



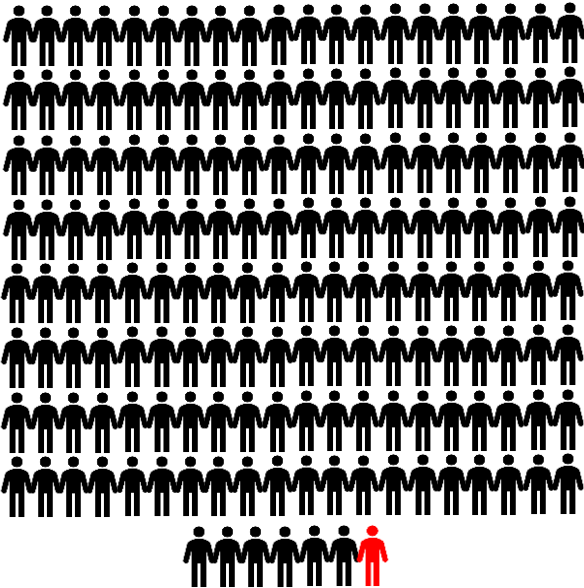
Predictors

Methods

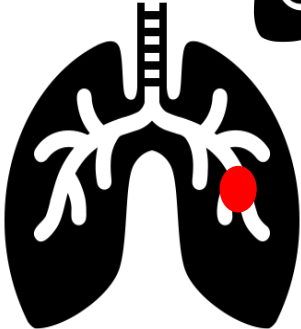


Results

0.6% of VHR developed
VTE within 30-days



39%
deep venous
thrombosis



12%
both DVT & PE

49%

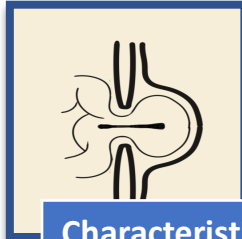
pulmonary embolism



Results



Characteristic	VTE	No VTE
Age	63	57
BMI	34	31
ASA >=3	80%	49%
Academic	87%	65%
COPD	12%	6%
Anticoagulants	14%	6%
HTN	60%	47%
DM	25%	17%



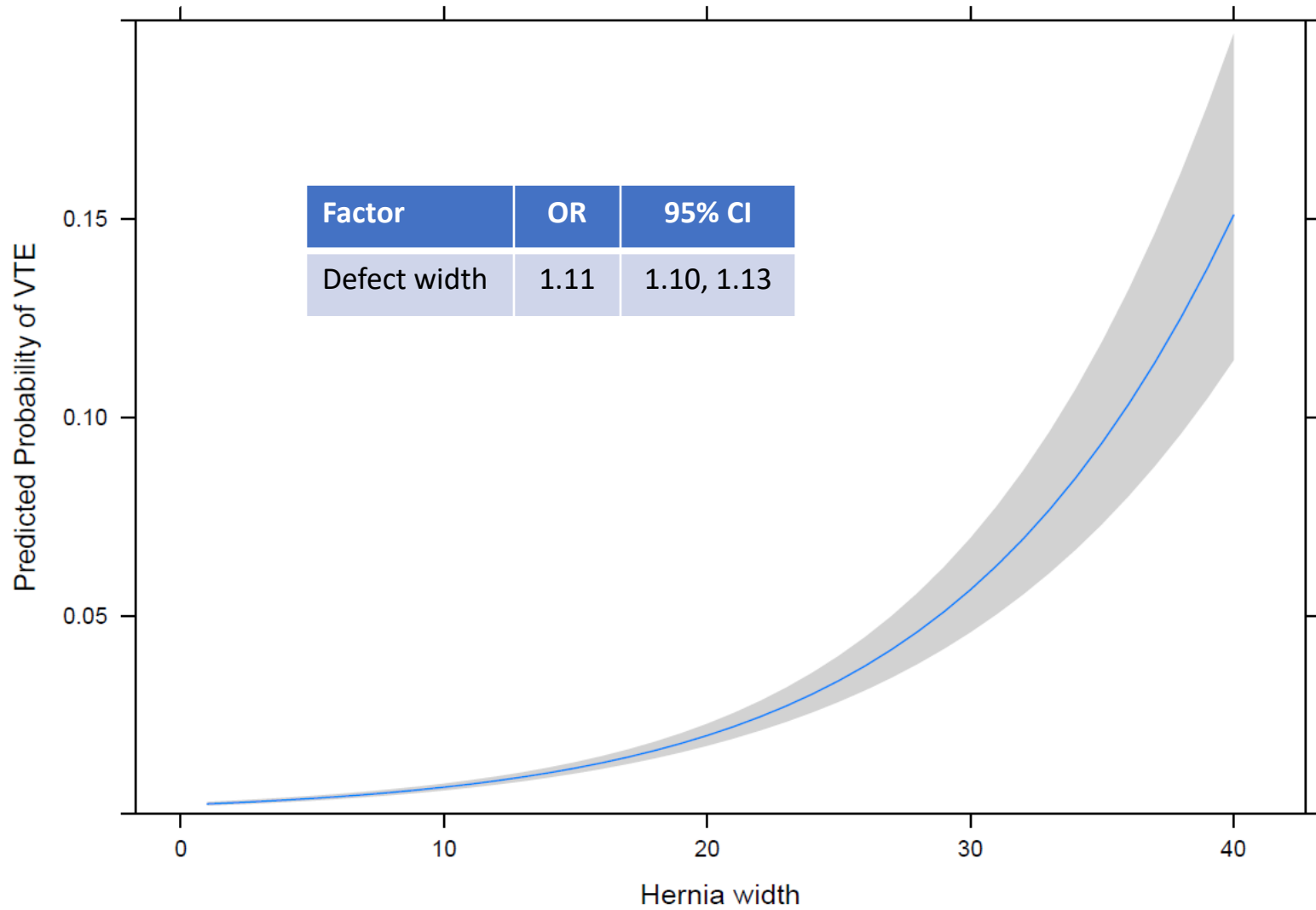
Characteristic	VTE	No VTE
Defect width	15	4
Defect length	20	5
Incisional	88%	62%
Recurrent	57%	26%
Stoma	13%	6%
History of CST	13%	6%
History of SSI	22%	10%
Prior mesh	48%	18%



Characteristic	VTE	No VTE
Non-clean wound	31%	12%
OR time > 2hr	86%	45%
Open approach	80%	63%
Mesh used	95%	84%
SubQ flaps	27%	16%
Myofascial release	75%	35%
EBL	100	10



Results – Multivariable regression



Conclusions



VTE is an uncommon (0.6%) in VHR



Defect width is the most predictive risk factor of VTE