

Disclosures

Rachel P. Rosovsky, MD, MPH

- · Institutional Research Support:
 - · BMS, Janssen
- · Advisory/Consultant:
 - Abbott, BMS, Boston Scientific, Dova, Inari, Inquis, Janssen, Penumbra
- National Lead Investigator, Storm-PE, Penumbra
- Immediate Past President, The PERT Consortium $^{\text{TM}}$



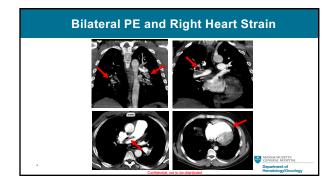
Case

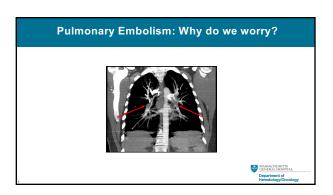
- 48 year old male presents to local hospital with acute SOB.
- CTA showed extensive bilateral PE and RV/LV ratio >1.
- · Given one dose enoxaparin and sent to MGH.
- · At MGH:
 - Vitals: 87% on room air (require 15 L NC oxygen), HR 150, RR 28, BP 140/79.
 - ECHO: RV dilated, hypokinetic, RVSP 54 mm Hg
 - Elevated troponin and BNP

RV = right ventricle LV = left ventricle NC = nasal cannula MGH = Massachusett

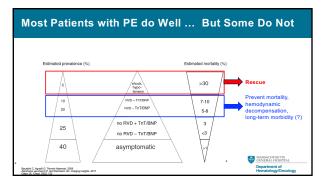
sal cannula sassachusetts General Hospital Confidential, no MASSACHUSETTS
GENERAL HOSPITAL

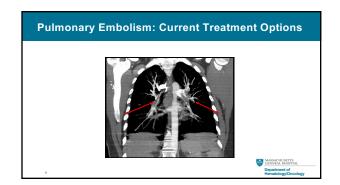
Department of
Hematology/Oncolog



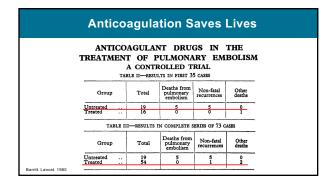


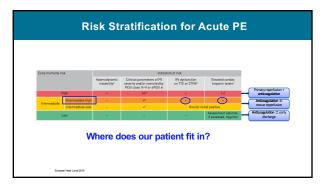




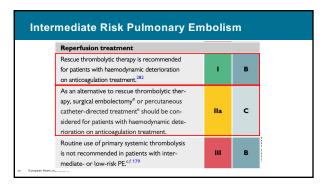


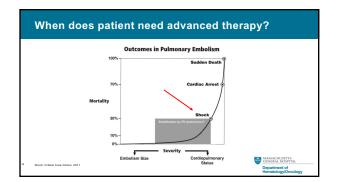








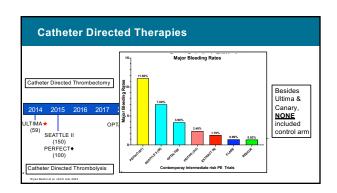


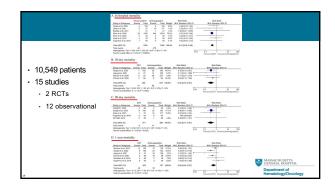


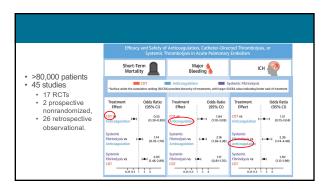


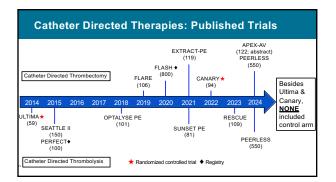
Do we have the data to support Catheter Directed Therapies for intermediate risk PE?

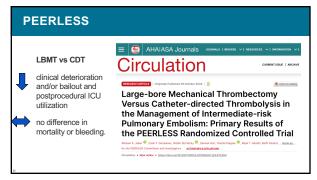
 MANAGEMENT DIRECTED TO THE PROPERTY OF THE PROP

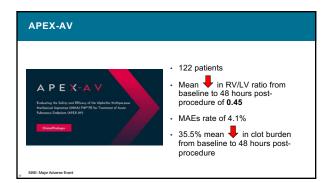


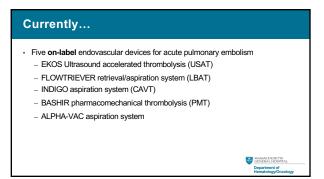


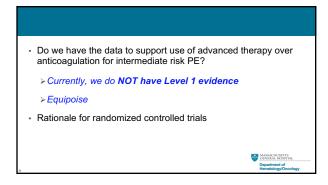


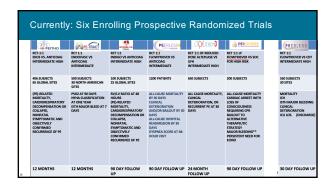




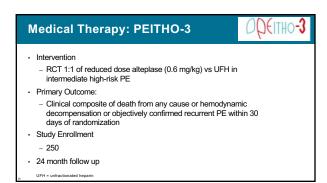


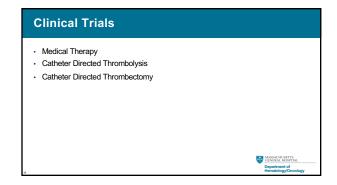


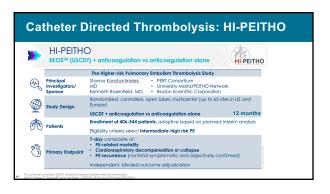


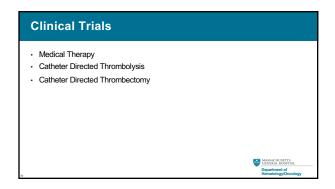


Clinical Trials Medical Therapy Catheter Directed Thrombolysis Catheter Directed Thrombectomy



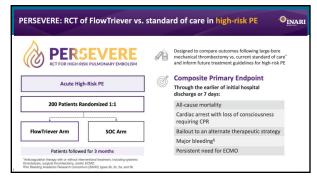


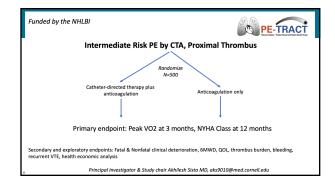


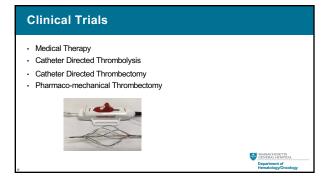


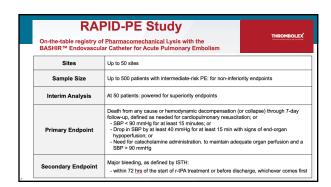


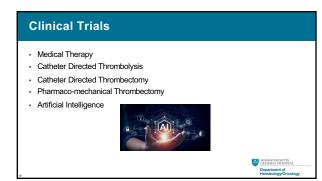




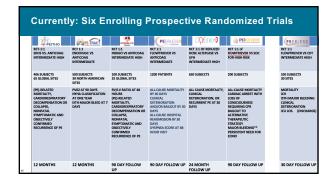


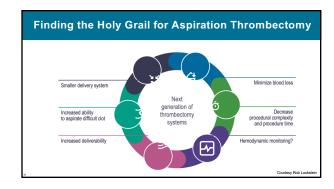


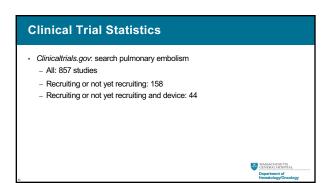




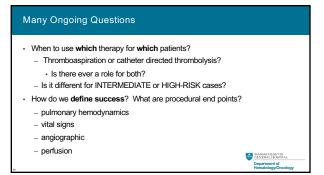
Artificial Intelligence: AID-PE - Artificial Intelligence to Improve Detection and Risk Stratification of Acute Pulmonary Embolism - Patients undergoing CTPA for detection of acute PE will have imaging analyzed by Al software in combination with a human radiologist. - Researchers will compare clinical and radiology specific outcomes with a retrospective cohort of patients who have had standard routine radiology reporting.

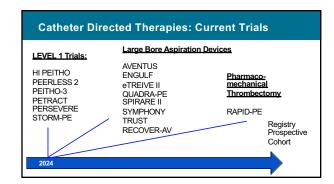


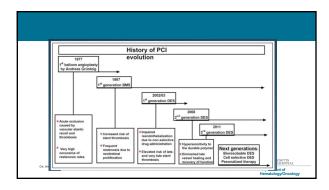












Every patient you see, consider enrolling in a prospective trial, if possible Data will be generated over 12-24 months from RCT and May show improvements in care Lead to change in guidelines We must continue to seek better ways to treat this disease

Case Follow up He did well. Discharged home on apixaban on day 3. In hospital, HCT 26.8. Came to follow up clinic one month later, HCT still 26.8. Work up revealed: Multiple Myeloma IgG 5328, IgA 22, IgM 6, serum free kappa/lambda = 601/1.5 = 400 ratio M spike: 4.31 IgG Kappa Just had bone marrow transplant Importance of Follow Up Clinic

Closing Reflections

- PE is major cause of morbidity and mortality
- Endovascular therapies are taking on increasing role in therapeutic options
- We have learned a lot and moving towards better understanding, but we need much more data to prove what we do improves the care and benefits our patients.
- We NEED **prospective data** looking at both efficacy and safety endpoints
 - Especially for our high risk and intermediate risk patients
- Still lots of questions: which population for which device at what time?
- FNROLL
- Engage PERT (pertconsortium.org)

Thank you

