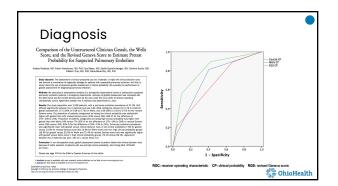
Raghu Kolluri, MD, MS, RVT, MSVM The Basics Of System Medical Director – Vascular Medicine & Vascular Labs - OhioHealth Pulmonary Embolism: Heart and Vascular What Is The President - Syntropic Corelab Role Of The Adjunct Clinical Professor – Ohio University HCOM History, Exam, Biomarkers Columbus, Ohio ## OhioHealth

Raghu Kolluri, MD: Disclosures

- Consultant/Advisor/ DSMB/ CEC -
- Abbott, Auxetics, Diachii Sankyo, Koya Medical, Medtronic, Penumbra, Philips, Surmodics, USA Therm, VB Devices
- Board of Trustee
 - The VIVA Foundation
 - Intersocietal Accreditation Council | Vascular Testing
- President
 - Syntropic Core Lab





D - Dimer

- Most appropriate first test
- Highly sensitive (95% sensitive <500 ng/mL).
- Specific (40% to 50%)
- Elevated
 - Elderly (>80 years)
- Pregnancy (especially in the third trimester)
- Major trauma or surgery or sickness
- Sickle cell

Acad Emerg Med. 2009 Apr: 16(4):325-32.

CT PE

- PIOPED II: sensitivity 83%; specificity - 96%
 - Difficult to assess since CTA is now the gold standard
- Central thrombus in the
- main, right or left PA

 Possibly correlates with 30-day mortality

Hogg et al. Emerg Med J 2006; 23(3):172-178 Vedovati MC et al. J Thomb Haemost 11:2092-2102 Mario Ohio Health

Diagnosis Algorithm OhioHealth Clin Appl Thromb Hemost. 2019 Jan-Dec;25

ACCP guidelines - "Stable PE"

- "In patients with low-risk PE and whose home circumstances are adequate, we suggest treatment at home or early discharge over standard discharge (e.g. after first 5 days of treatment) (Grade 2B)."

 | Compared to the patients of the p
- "Suggest that patients who satisfy all of the following criteria are Suitable for treatment of acute PE out of hospital:

 Clinically stable with good cardiopulmonary reserve;

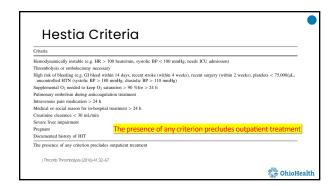
 No contraindications such as recent bleeding, severe renal or liver disease or Severe thrombocytopenia (i.e. < 70,000 /mm³);

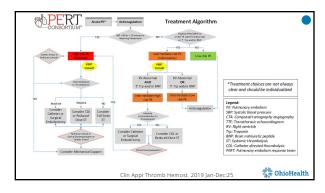
 Expected to be compliant with treatment

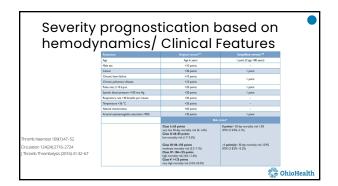
 - Patient feels well enough to be treated at home"

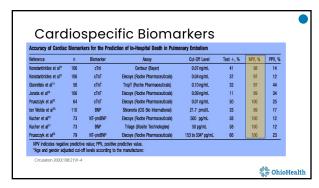
No PESI; No biomarker/echo

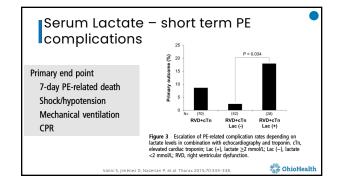


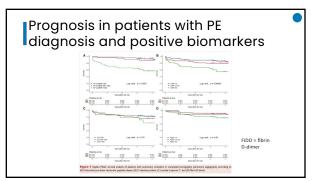


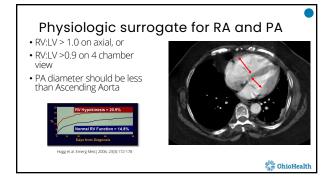


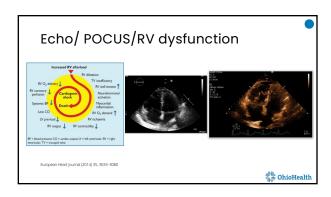


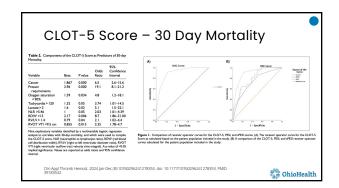


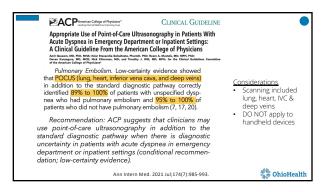




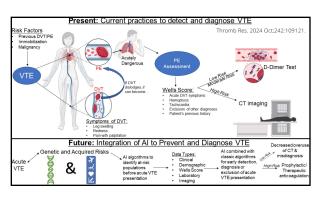


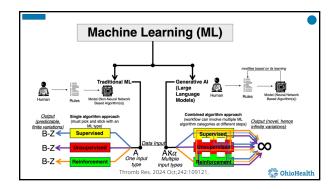












History and PE Care Pathway issue EMR Parroting "Covid Induced"/ "Vaccine-induced" "Provoked PE" – "Because I was on a 2-hour flight/3-hour car ride", "Because I am a software professional, I sit at my desk." First things first - Cancer, family history Care Pathway issues Inadequate or Inappropriate Treatment → recurrence Baseline PTT - Heparin gtt dosing erroneous! ? APS? Platelet monitoring while on heparin gtt – HIT? Duplex not done when diagnosed with PE. 3 months later there are "post thrombotic changes" in the DUS. If these were there at the time of PE = 2 VTE events Vs 1! Repeat ED visits due to chest pain, but multiple negative work ups. Post PE anxiety, panic attacks, nightmares!!



Summary

- PE care
 - Good history + Clinical gestalt + Imaging + biomarkers + individual tailored therapy

