

Picture Quiz

A patient presenting with collapse and breathlessness

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A 57-year-old man was admitted to the Acute Medical Unit with an episode of collapse following chest pain and shortness of breath. On examination he was tachycardic, and tachypnoeic with a heart rate of 120 beats per minute and a respiratory rate of 30. Oxygen saturation was 94% on air and systolic blood pressure was maintained >100mmHg. Heart sounds were normal and his chest was clear. His ECG revealed T wave inversion in leads V1, V2, V3, and ST depression in V4, V5, V6, Lead 2, Lead 3 and AVF. An arterial blood gas on admission revealed evidence of type 1 respiratory failure. D-Dimer was elevated at 8192 ng/mL (normal range <250). He underwent CT pulmonary angiography (CTPA) followed by Magnetic Resonance Imaging (MRI) of his abdomen. His imaging results are shown in Figure 1 and Figure 2.

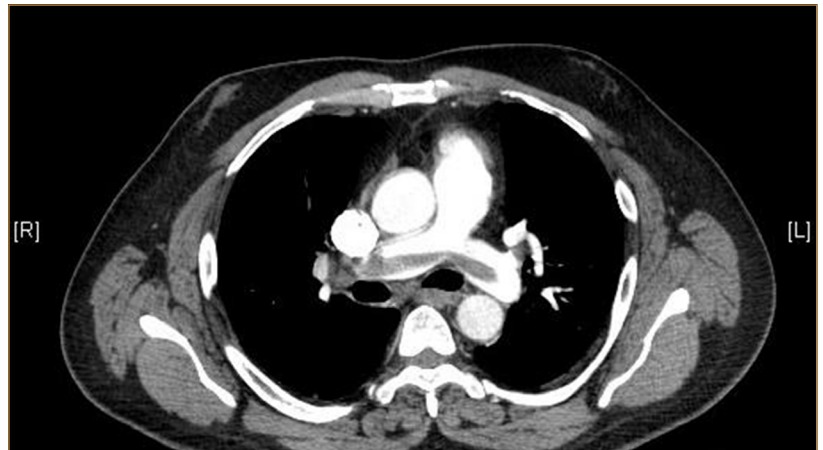


Figure 1.



Figure 2.

Questions:

1. What abnormalities are shown in the CTPA and MRI scan?
2. What is the diagnosis and likely underlying cause?
3. How should he be managed?

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