

QUESTION

A 65-year-old male patient with a long history of hypertension and hyperlipidemia presents to the emergency department with acute-onset chest pain and shortness of breath. The patient reports a tearing sensation in the chest that radiates to the back. Physical examination reveals tachycardia and a blood pressure of 180/100 mmHg. An electrocardiogram (ECG) shows sinus tachycardia without ST-segment changes. A chest X-ray is unremarkable. The patient's medical history includes a recent diagnosis of aortic aneurysm. The patient is currently on a beta-blocker and a statin.

Question	Answer
What is the most likely diagnosis?	Aortic dissection
What is the most important risk factor for this condition?	Hypertension
What is the most common site of dissection?	Ascending aorta
What is the most common complication?	Stroke
What is the most common cause of death?	Dissection of the aorta

ANSWER: Aortic dissection

EXPLANATION: Aortic dissection is a life-threatening condition characterized by a tear in the inner layer of the aorta, allowing blood to flow into the wall of the artery and potentially leading to rupture. The most common risk factor is hypertension, which is present in this patient. The tearing chest pain that radiates to the back is a classic symptom. The ECG shows sinus tachycardia, which is a common finding in aortic dissection. The chest X-ray is unremarkable, which is also typical for this condition. The patient's recent diagnosis of aortic aneurysm further increases the risk of dissection. The most common site of dissection is the ascending aorta, and the most common complication is stroke. The most common cause of death is dissection of the aorta.

QUESTION



The image shows a skeletal view of the hand and forearm. The bones of the hand (metacarpals and phalanges) and the bones of the forearm (radius and ulna) are clearly visible. The hand is positioned in a way that suggests a specific anatomical or clinical context, possibly related to the question above.

ANSWER: [The answer is not explicitly provided in the image, but the image is likely related to the question above.]