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Spectrum of Pulmonary Thromboembolism at Different Levels

Authors

Dr Kantheti Anusha Junior Resident, Dr Kuncham Nagabalaji

Yashoda Hospitals Malakpet, Telengana, India

Abstract

Aims and Objectives: Role of CT Pulmonary Angiography in diagnosis of pulmonary thromboembolism. Content: Pulmonary thromboembolism (PE) is a frequently occuring disease caused by obstruction of a pulmonary artery by a thrombus. PE is potentially lethal disease. Of all patients who develop PE, it directly causes or contributes to the patient's death in one-third of the cases. The role of CT in diagnosis of thromoembolism at different levels of pulmonary trunk involving main trunk, Right pulmonary artery, Left pulmonary artery, saddle thrombus, thrombus involving segmental and sub segmental branches is evaluated.

Summary: The chest radiograph is of limited value. It may be normal or reveal non-specific atelectasis. CT Pulmonary Angiography is preferred imaging modality for diagnosis of pulmonary thromboembolism. Aims and Objectives: Role of CT Pulmonary Angiography in diagnosis of pulmonary thromboembolism Content: Pulmonary thromboembolism (PE) is a frequently occurring disease caused by obstruction of a pulmonary artery by a thrombus. The role of CT in diagnosis of thromoembolism at different levels of pulmonary trunk involving main trunk, Right pulmonary artery, Left pulmonary artery, saddle thrombus, thrombus involving segmental and sub segmental branches is evaluated.

Introduction

Pulmonary embolism refers to the embolic occlusion of pulmonary arterial system. While the majority of cases result from thrombotic occlusion, this condition is frequently referred to as pulmonary thromboembolism.

On CT

The only primary sign of PTE is a filling defect. Secondary signs are the abrupt occlusion of pulmonary artery and areas of oligaemia with pruning of branching vessels.





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Case of 33 yr male with chest pain, CT pulmonary angio showing thrombus in right and left pulmonary arteries extending into lobar arteries.

Case 2



Case of 70 yr female with breathlessness, CT pulmonary angio showing thrombus in main, right and left pulmonary arteries – **Saddle thrombus**

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Case-3



Case of 63 yr male with situsinversus total is showing near total thrombotic occlusion of Morphological right sided main pulmonary artery extending into segmental arteries on CT pulmonary angiogram. Case-4



Case of 45 yr female, CT pulmonary angio showing thrombus in left main pulmonary artery.

Case 5



Case of 60 yr female with breathlessness and venous thrombosis, CT pulmonary angio showing thrombus in segmental arteries of bilateral lower lobes.

Summary

The chest radiograph is of limited value. It may be normal or reveal non specific atelectasis. CT pulmonary Angiography is preferred imaging modality for diagnosis of pulmonary thrmboembolism

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