Wegener's Granulomatosis

Joseph Junewick, MD FACR

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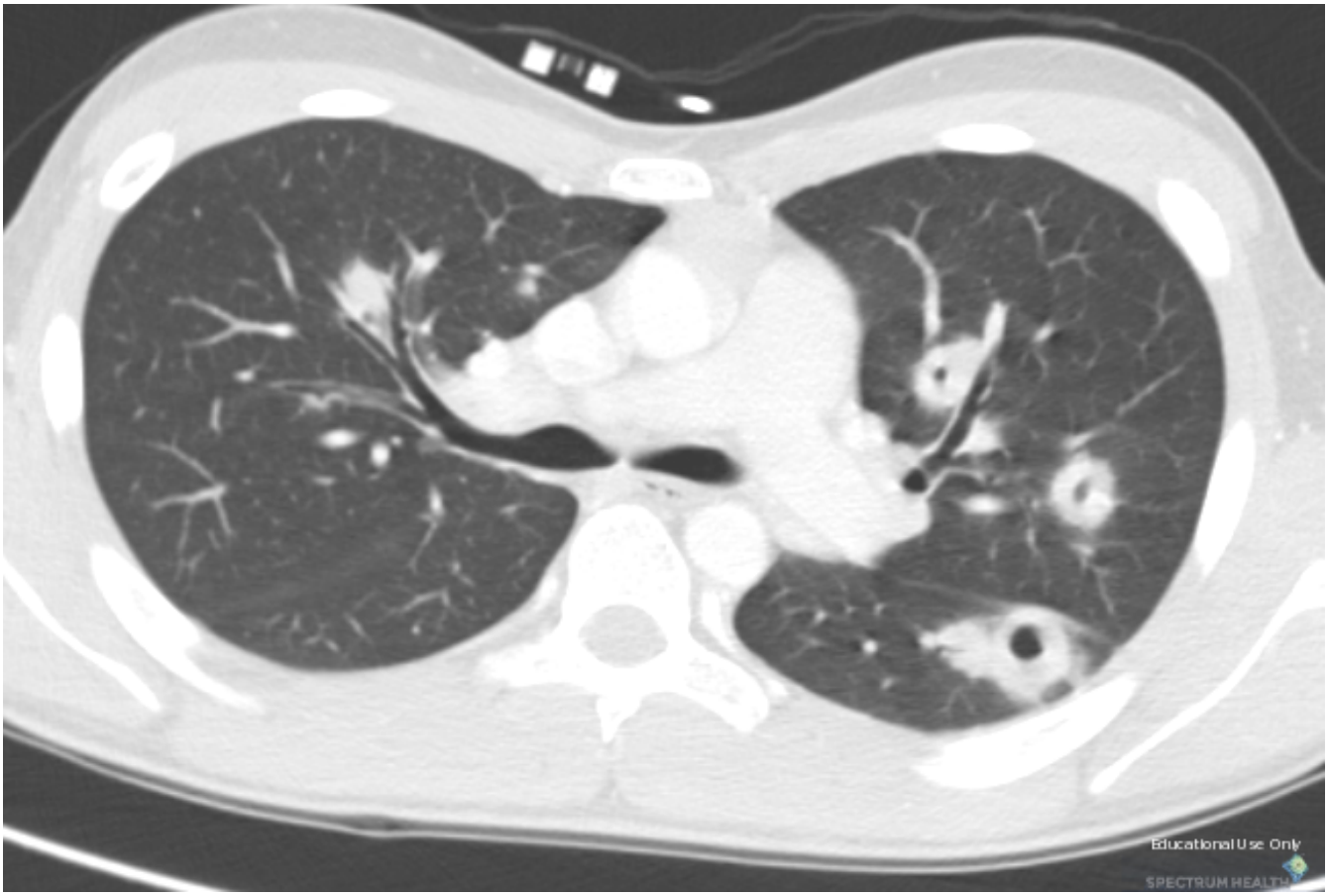
History
15 year old male with cough.

Diagnosis
Wegener's Granulomatosis

Discussion
Wegener granulomatosis is a systemic autoimmune disease characterized by granulomatous vasculitis of the upper and lower respiratory tracts, glomerulonephritis, and small-vessel vasculitis. Lung disease develops in most patients. The most common radiographic manifestation of Wegener granulomatosis is multiple nodules or irregularly marginated masses with no zonal predominance. The nodules or masses are usually multiple but can be solitary. Cavitation occurs in approximately 50%; the cavities usually have irregular, thick walls. The nodules or cavities may resolve completely or result in a scar. Peripheral infarctions, hemorrhage and pneumonia may also be seen. Pleural effusion and adenopathy are uncommon. Submucosal granulomas may occur in the trachea and bronchi.

Findings
CT-Multiple angiocentric nodular masses; cavitated masses have thick irregular walls.

Reference
Mayberry JP, Primack SL, Muller NL. Thoracic Manifestations of Systemic Autoimmune Diseases: Radiographic and High-Resolution CT Findings. Radiographics (2000); 20:1623-1635.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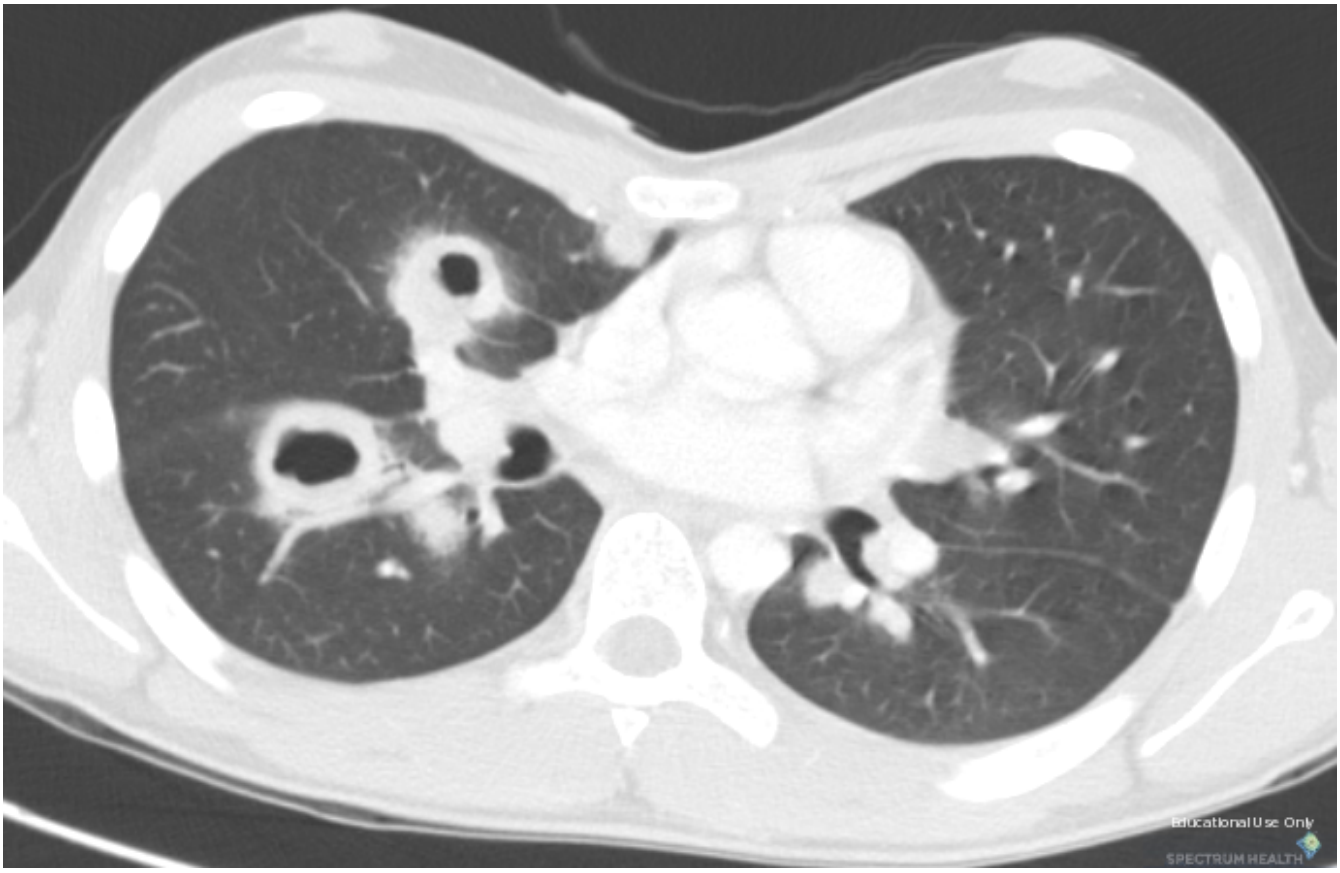
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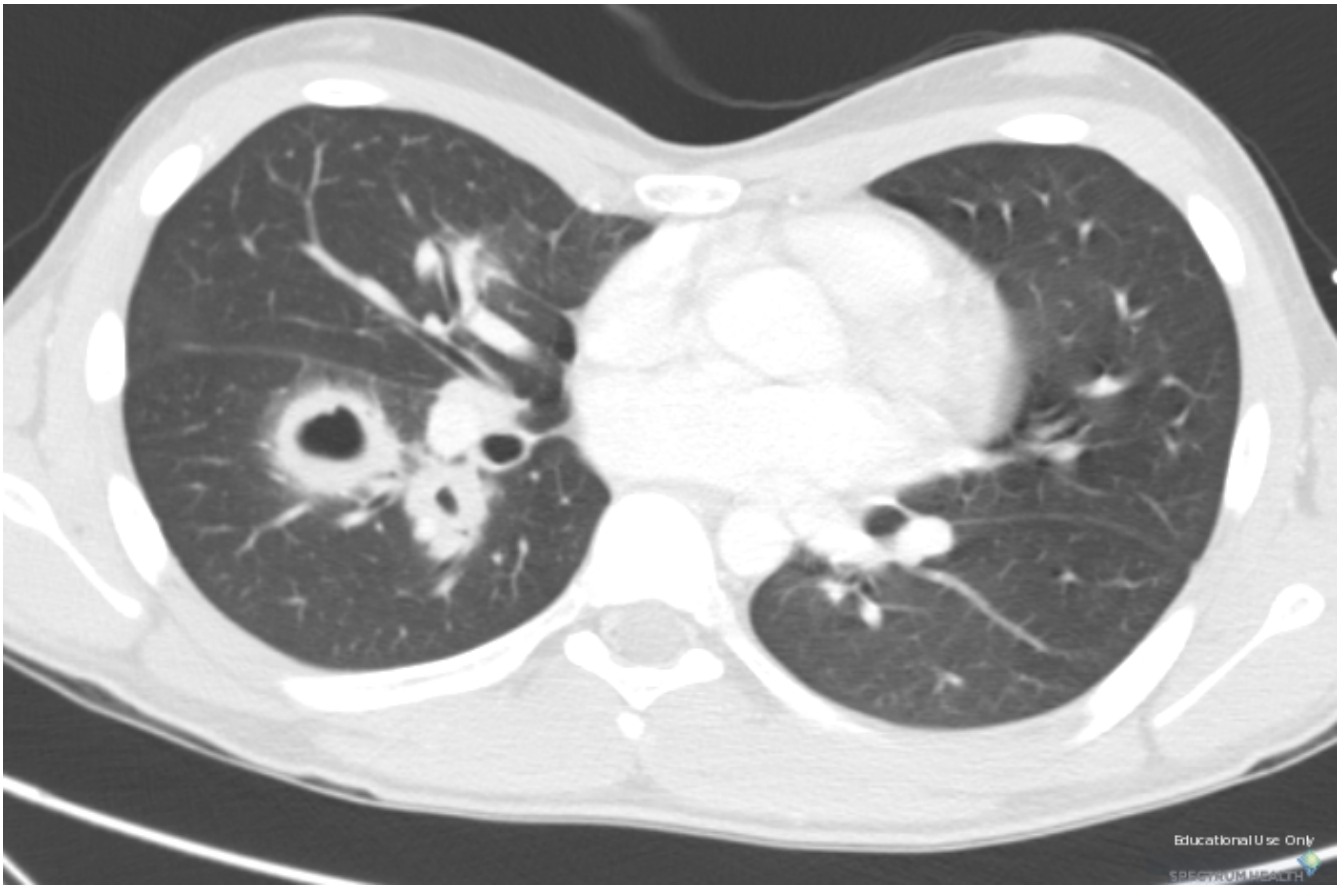
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