

IMAGES IN CLINICAL MEDICINE

Dual Pulmonary Infections In a 57-Year-Old Male With Large Adrenal Mass

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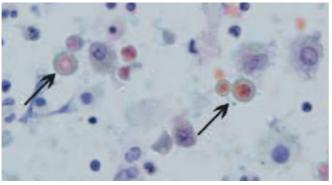


Figure 1. High power photomicrograph showing *Blastomyces* with broad based budding (arrows).

A 57-year-old male presented with complaints of progressive dry cough, fever, headaches and weight loss, suggesting a pulmonary infection and/or possible malignancy. Bronchial washings from the area of consolidation revealed broad-based budding yeast consistent with *Blastomycosis* (Figure 1). The CT scan showed two nodules in the right lung that might be malignant. Biopsy of one nodule showed *Pneumosystis jiroveci* (Figure 2).

Blastomycosis and pneumocystis jiroveci pneumonia are both opportunistic infections most often seen in immunosuppressed patients. This individual had no known medical condition to cause immuno-suppression.

A CT scan of the chest showed consolidation of the left lung indicating possible pneumonia (Figure 3, double arrows).Abdominal imaging demonstrated a large adrenal mass (Figure 3, single arrow). Serum and 24-hour urine cortisol levels were significantly elevated. These findings are consistent with a cortisol-producing adrenal tumor. The left adrenal mass was surgically removed, and the diagnosis of a cortisol producing adreno-cortical carcinoma was confirmed.

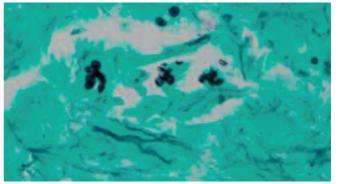


Figure 2. A GMS stain of the lung nodule demonstrating *Pneumocystis jiroveci*.

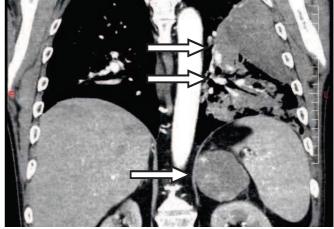


Figure 3. A CT scan demonstrating the left adrenal gland mass (single arrow) and consolidation of the left lung (double arrows).

We conclude that a cortisol-producing adrenal cortical carcinoma caused systemic immuno-suppression that resulted in a dual pulmonary infection with Pneumoncystis jiroveci and Blastomyces. The pulmonary infections resolved upon removal of the adrenal mass.

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