CLINICAL IMAGE

Bilateral Adrenal Histoplasmosis Diagnosed On CT Guided Biopsy

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A 40 year old patient presented in our hospital with high grade fever on and off associated with weight loss since few months. Patient was a known case of type 2 diabetes and on treatment for the same. Routine blood examination, urine examination, renal function tests and X ray were normal. Contrast enhanced CT scan of the abdomen showed enlarged bilateral adrenals showing peripheral rim enhancement. A CT guided biopsy was taken which showed

numerous 2-4 microns fungal spores in an inflammatory and necrotic background. These fungal spores were positive for PAS and Methamine silver stains. Adrenal histoplasmosis was the final histopathological diagnosis. Adrenal histoplasmosis is an uncommon mycotic disease typically caused by *Histoplasma capsulatum*. Bilateral adrenal involvement is a typical presentation.

Figure 1 : Photomicrograph showing a small *Histoplasma* spore with capsular halo in a histiocytic giant cell (H & E 100 x 10)

Figure 2 : Photomicrograph showing multiple magenta coloured yeast forms of *Histoplasma* with capsular halo (PAS, 100 x 10)

Figure 3: Photomicrograph showing multiple blackish brown coloured yeast forms of *Histoplasma* with budding at places (METHAMINE SILVER, 100 x 10)

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