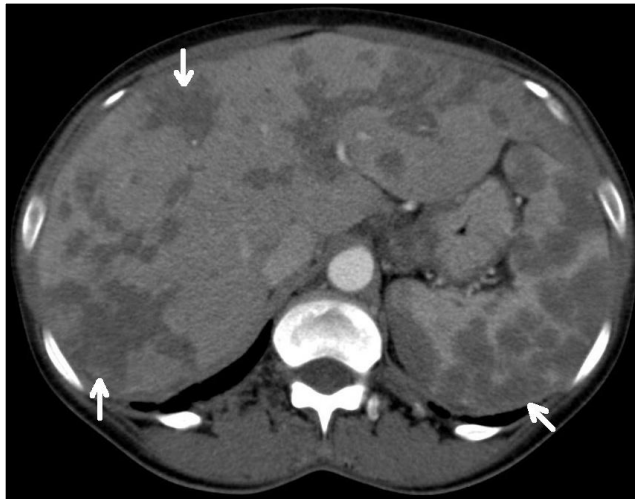


## Localized Hepatosplenic Sarcoidosis with an Elevated Serum CA-125 Level

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**FIGURE 1.** CT abdomen with contrast. Arrows indicate irregular hypoattenuating masses in the liver and spleen.

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**KEYWORDS:** sarcoidosis, CA-125 antigen

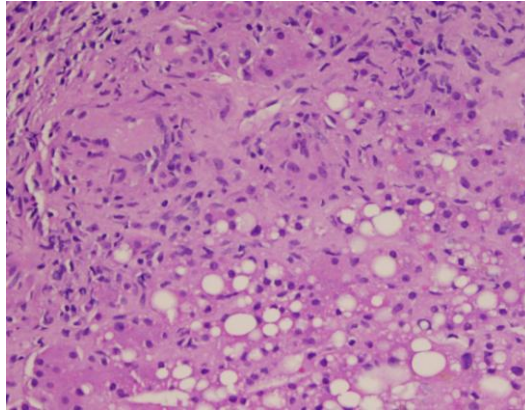
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Sarcoidosis is a multisystem disease that is characterized by noncaseating epithelioid granulomas. Extrapulmonary sarcoidosis in addition to pulmonary involvement has been well described and occurs in 50% of patients. However, sarcoidosis without any pulmonary involvement is uncommon[1]. Cancer Antigen 125 (CA-125) is a tumor marker that is associated with ovarian malignancy. Sarcoidosis with elevated serum CA-125 has only been reported five times in the literature[2]. When sarcoidosis occurs in the absence of pulmonary involvement with elevated serum CA-125, it may mimic the presentation of disseminated ovarian carcinoma. This abdominal CT scan (Fig. 1) is from a 49-year-old, African American female with no known medical comorbidities, who presented with subjective chills and 20-lb weight loss in 6 months. She was found to have hepatomegaly, but no jaundice or stigmata of chronic liver

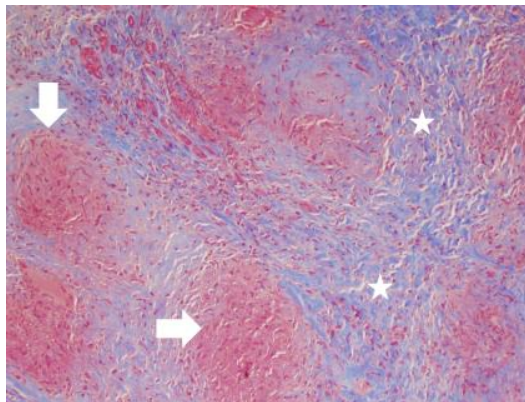
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**FIGURE 2.** H&E section of the liver biopsy demonstrating granulomas (arrow) with elongated histiocytes and multinucleated giant cells.



**FIGURE 3.** Masson stain of the liver biopsy showing areas of granulomas (arrows, in red-stained area) surrounded by fibrosis (stars, in blue-stained region).

disease. Laboratory studies showed: alanine aminotransferase 45 U/L, aspartate aminotransferase 76 U/L, alkaline phosphatase 533 U/L, and gamma-glutamyltranspeptidase 513 U/L. ACE (angiotensin-converting enzyme) level was elevated at 131 IU/L, as was CA-125 at 138 U/ml (normal range: 0–35 U/ml). Work-up for viral hepatitis and infectious etiology was unremarkable. Flow cytometry did not reveal any evidence of lymphoma. Abdominal and chest CT scan showed diffuse areas of hypoattenuation in the liver and spleen. Endovaginal ultrasound did not show signs of ovarian malignancy. Adenopathy was present in the retroperitoneum, but not in the thorax or pelvis. Liver biopsy revealed extensive areas of fibrosis with multiple epithelioid cell granulomas (Figs. 2 and 3), consistent with sarcoidosis. In our review of the current literature, this is the first reported case of localized hepatosplenic sarcoidosis with associated serum CA-125 elevation.

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