Case of the month January 2013

31-year-old woman with asymptomatic woman with incidental retroperitoneal mass found on ultrasound. The patient had normal blood work.

A CT of the abdomen & pelvis was done.

• What are the imaging findings?
• What is the differential diagnosis? Diagnosis?
Imaging Findings

- Well-circumscribed oval mass located next to the left renal hilium, without necrotic or cystic degeneration.
- It measures 5 x 4 cm and does not displace retroperitoneal structures or viscera.
- On the unenhanced CT, the mass shows low attenuation compared with muscle.
- After IV contrast, it shows bright enhancement.
Differential Diagnosis

- Paraganglioma
- Pheochromocytoma
- Retroperitoneal metastases
- Lymphoma
- Retroperitoneal sarcoma
- Castleman's disease
- Abdominal tuberculosis
Diagnosis

- Castleman's disease
Discussion

• Benign lymphoproliferative hyperplasia of lymph nodes
• 2 classification systems –
  • Histological: Hyaline vascular (90%), Plasma Cell, Mixed
  • Distribution: Localized & Multicentric
• Localized – 90% Hyaline vascular & asymptomatic
• Multicentric – 80% Plasma cell, often symptomatic
Discussion

• **Imaging Findings:**
  - Localized Form – Smooth or lobulated enlarged node. Avid uniform contrast enhancement is characteristic, especially with the hyaline vascular type
  - Multicentric Form – Numerous lymph nodes enlarged
References


• Case submitted by Abdullah Alabousi