A 31-year-old man went to ED for a painless "lump" on his testicle for several months. He also had 10 lbs weight loss in the past 3 months, but has no fever, chills, night sweat.

**Gross**

**Histology (low power)**
IHC (Pancytokeratin)

IHC (CD30)
IHC (c-Kit)

More Histology (medium power)
More Histology (high power)

More Histology (low power)
Contributed by Dr. Renuka Pathi
IHC (c-Kit)

FINAL DIAGNOSIS:

- MALIGNANT GERM CELL TUMORS, SEMINOMA AND EMBRYONAL CARCINOMA
- SEMINOMA (3.8CM IN GREATEST DIMENSION)
- EMBRYONAL CARCINOMA (1.5CM IN GREATEST DIMENSION)
DISCUSSION:

This patient is a 31 yr. old male with two nodules in the testis and one nodule in the lung as per radiology, the testicular tumor showed two nodules grossly and was confirmed my histology, one was seminoma (3.8cm) and the other smaller nodule was embryonal carcinoma (1.5cm) with necrosis and lymphovascular invasion.

Seminoma is the most common germ cell tumor which may occur independently or occur as a component of mixed germ cell tumor. These usually arise from the germ cell neoplasia

In-situ which was seen in this case. The specimen showed sheets of large cells with clear cytoplasm admixed with lymphocytes. The tumor was positive for SALL4, Oct3/4, PLAP and CD117 and negative for pancytokeratin, CD30 and AFP.

Embryonal carcinoma in our specimen shows pseudo glandular pattern with necrosis, cells are pleomorphic, large epithelioid with prominent nucleoli and shows frequent mitosis. The tumor shows lymphovascular invasion. The tumor is positive for Pan cytokeratin and CD30 confirming the diagnosis. Clinically only LDH was slightly elevated.

This case was slightly unusual due to separate nodules with two different germ cell tumors and a nodule in the lung which was thought to be a metastatic lesion. However, the lung nodule turned out to be a Necrotizing granulomatous inflammation with spherules consistent with coccidioides imitis. Tumor was considered Stage 1S.

Tumor was treated with radical orchiectomy and one dose of Bleomycin, Etoposide and Cisplatin.