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Patient history

• Patient is a 38 year old female who presented with a 2 month history of lower abdominal pain. A 13 x 12 x 12 cm left complex cystic mass in the pelvis was discovered on CT for which the patient was treated with left salpingo-oophorectomy. The right ovary was inspected during surgery and found to be grossly normal. The left ovary consisted of solid areas with a smooth tan-brown cut surface interspersed with intact cystic structures filled either with keratinosebaceous material or clear watery fluid.
The left ovary showed ovarian cystic structures lined by flattened squamous epithelium.
High power view showing junctional activity of melanocytes in the squamous epithelium.
Focally a 2 cm tumor nodule is found in the cyst wall.
Higher magnification of the tumor
Epithelioid tumor cells and junctional activity of melanocytes in the overlying epithelium.
Focal ulceration which overlies the tumor with ruptured hair follicles
High magnification shows a hair shaft surrounded by foreign body type giant cells.
Tumor cells stain positively for the melanocytic markers S100, Melan-A, HMB 45 and Vimentin.
Radial growth phase of melanocytes
Vertical growth phase of melanocytes

HMB-45