



CONTINUING EDUCATION IN TOXICOLOGIC PATHOLOGY REPRODUCTIVE SYSTEM

Third Conference

ORGANIZED BY SOCIETY FOR TOXICOLOGIC PATHOLOGY IN INDIA (STPI)

OCTOBER 29-31, 2010

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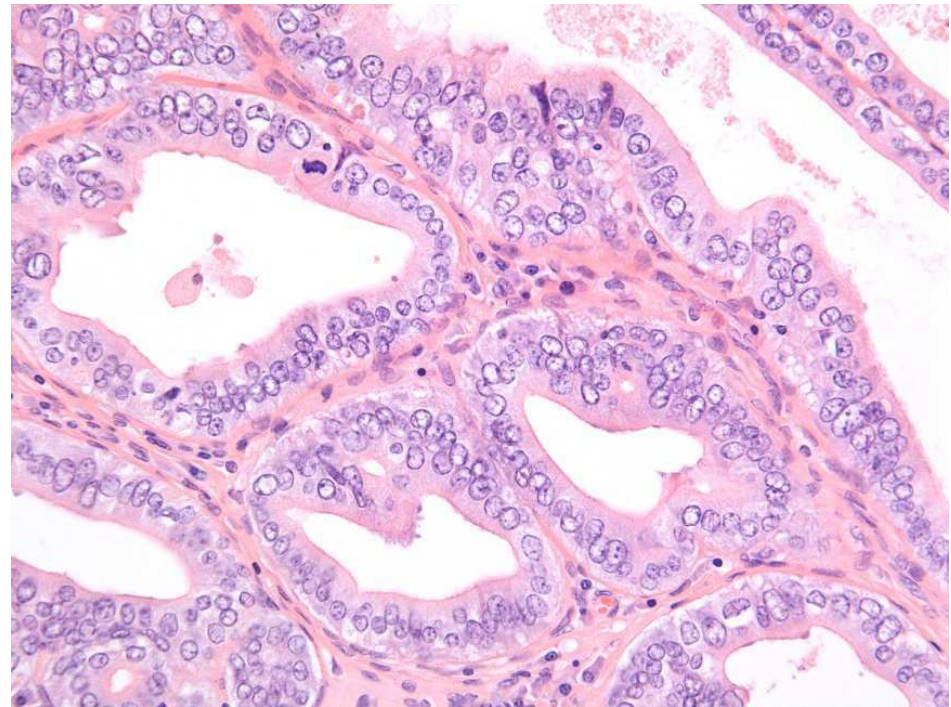
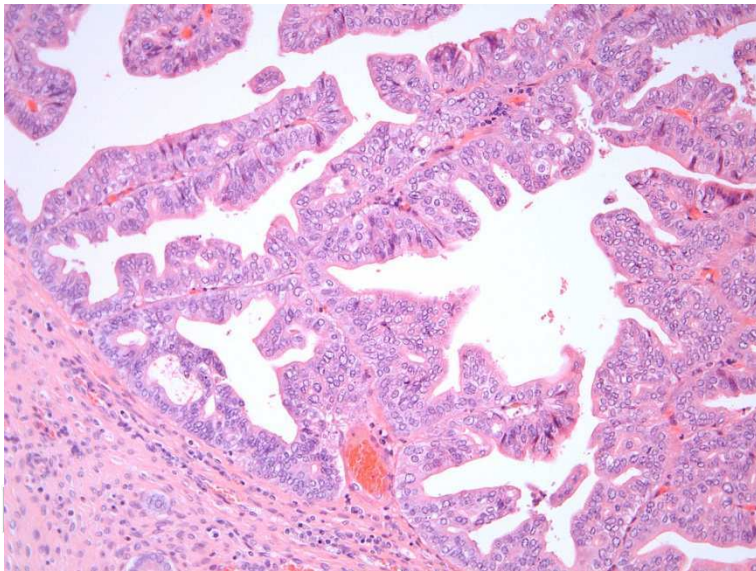
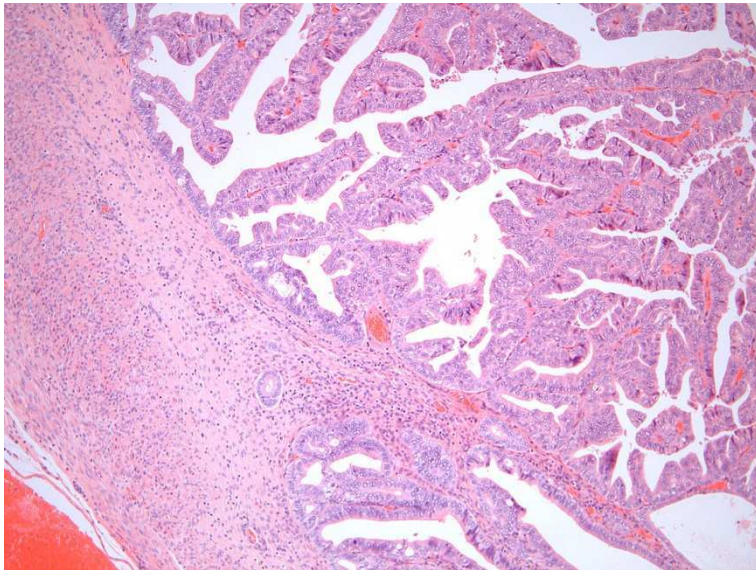
RCC
Linking science to progress

Uterus-Epithelial Neoplasms: Adenoma and Adenocarcinoma

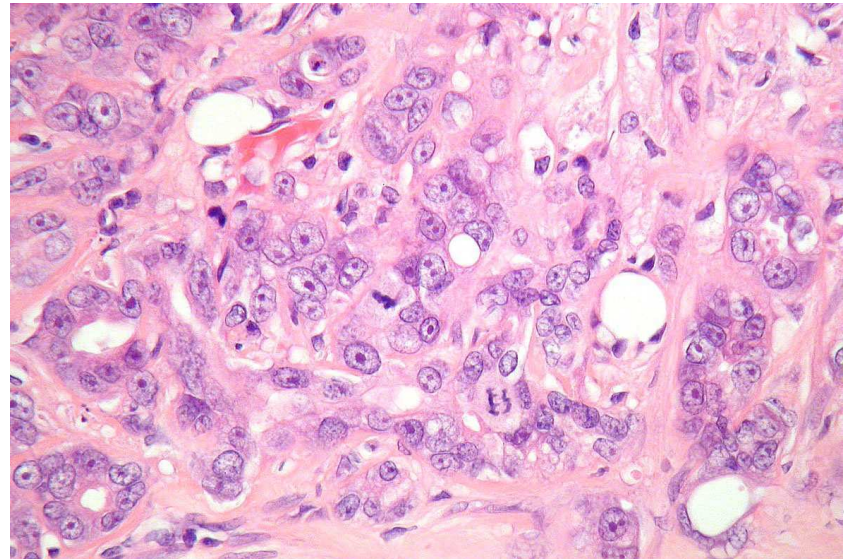
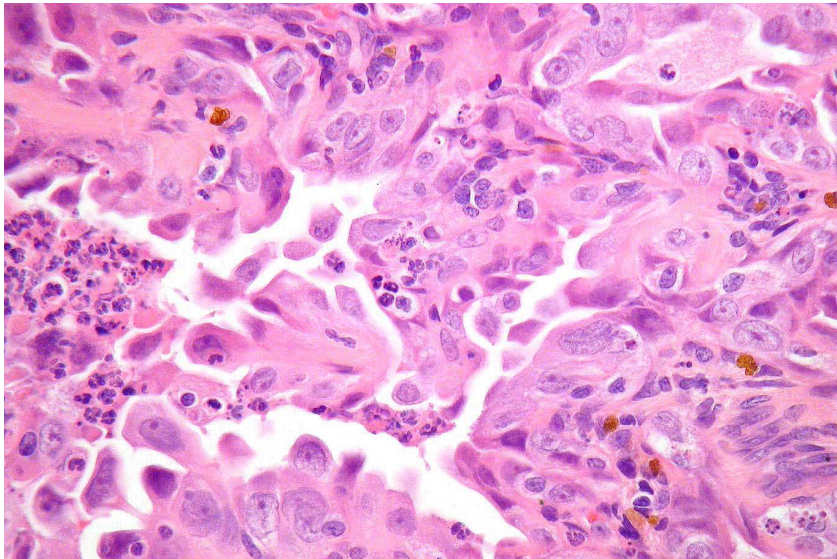
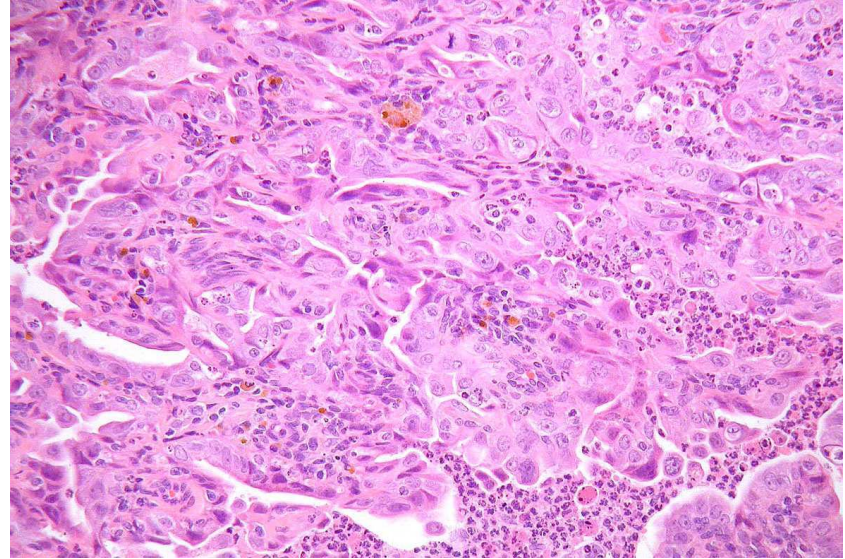
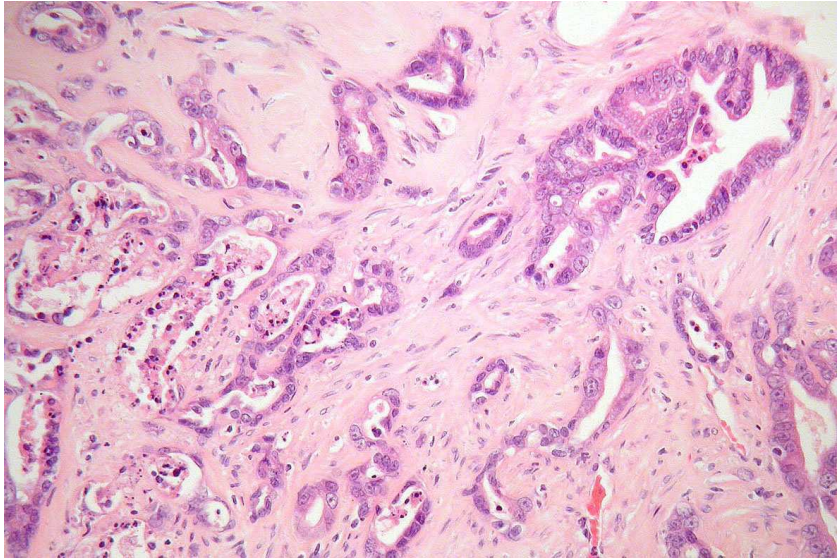
- Arising from surface epithelium
- Epithelium arranged in papillary, glandular or tubular structures
- In some glandular structures secretion
- Cells often eosinophilic
- Delicate stroma in adenoma
- Often desmoplastic stromal reaction in adenocarcinoma with necrosis and hemorrhage

- Differential Diagnose: Glandular polyp, Endometrial hyperplasia, Glandular hyperplasia, Adenomyosis, Squamous cell carcinoma

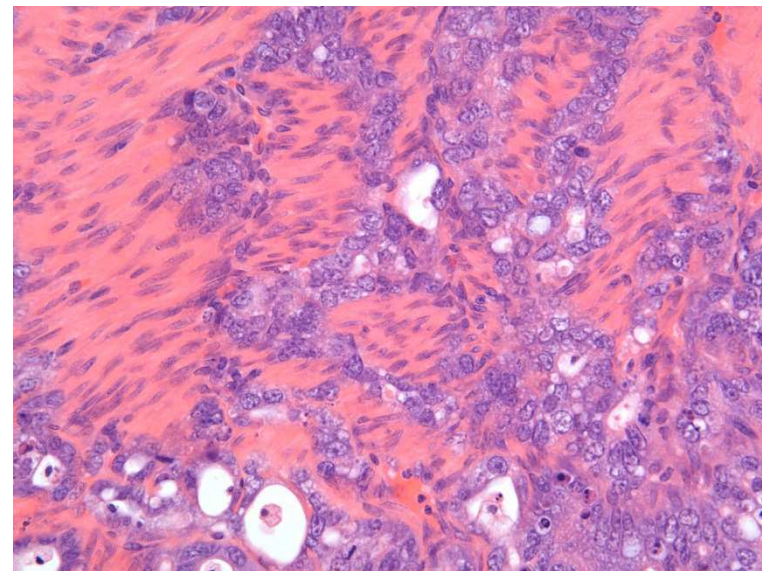
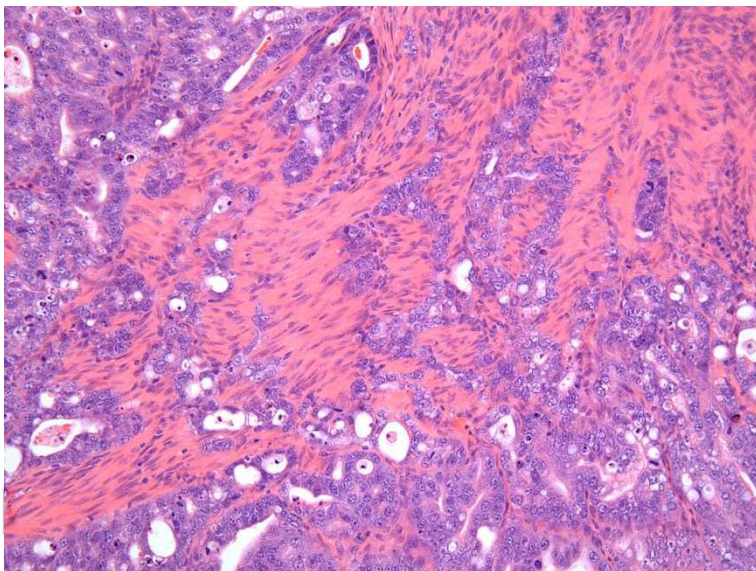
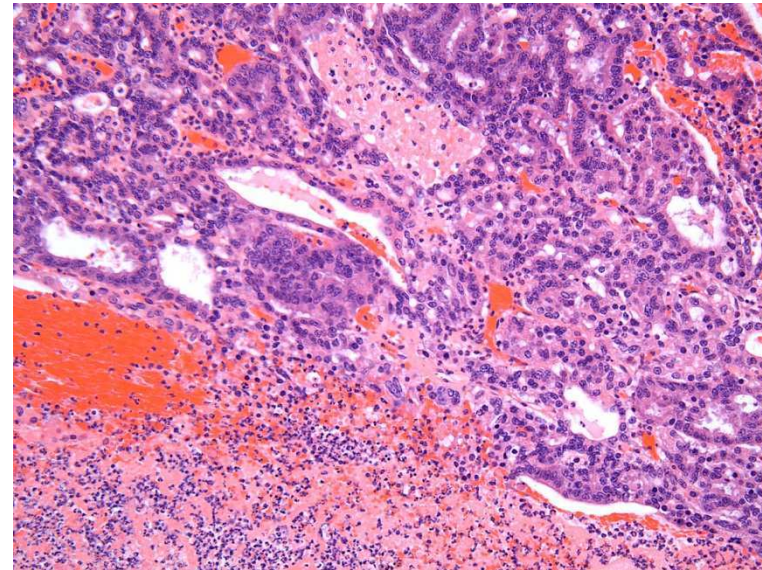
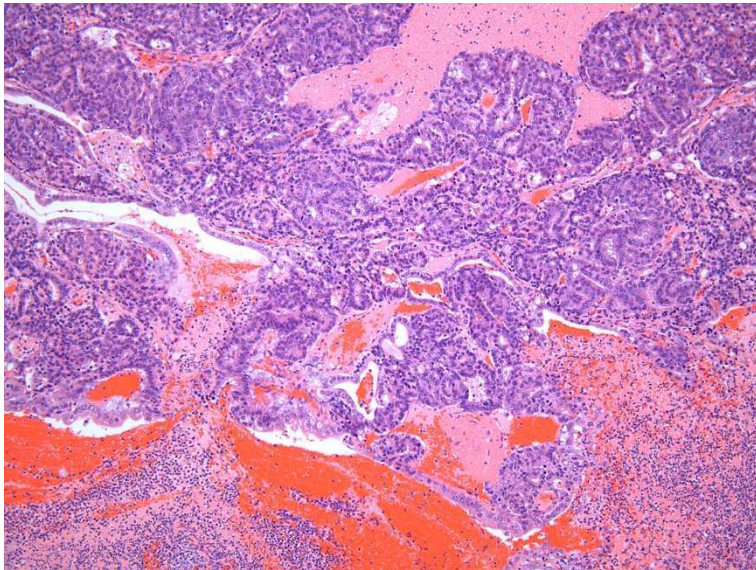
Uterus, Hamster: Adenoma



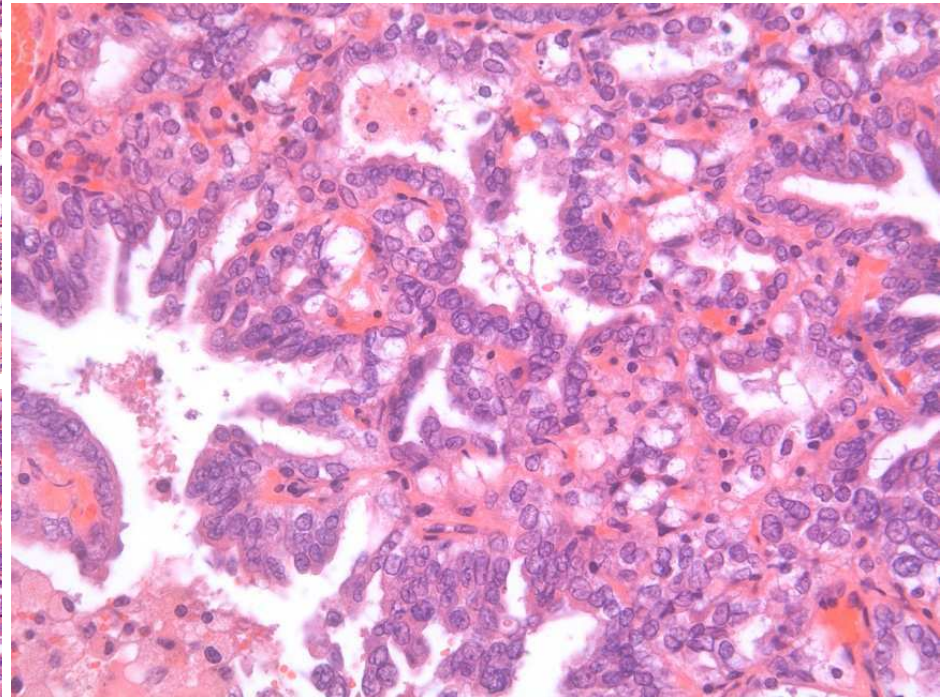
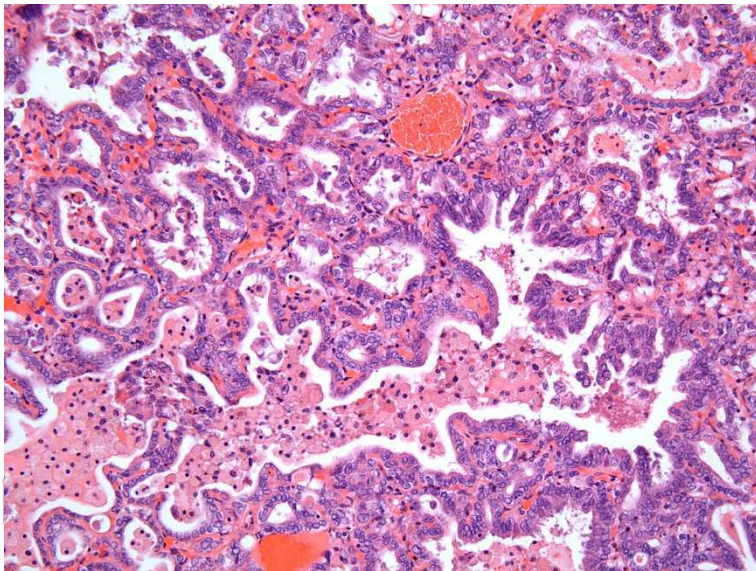
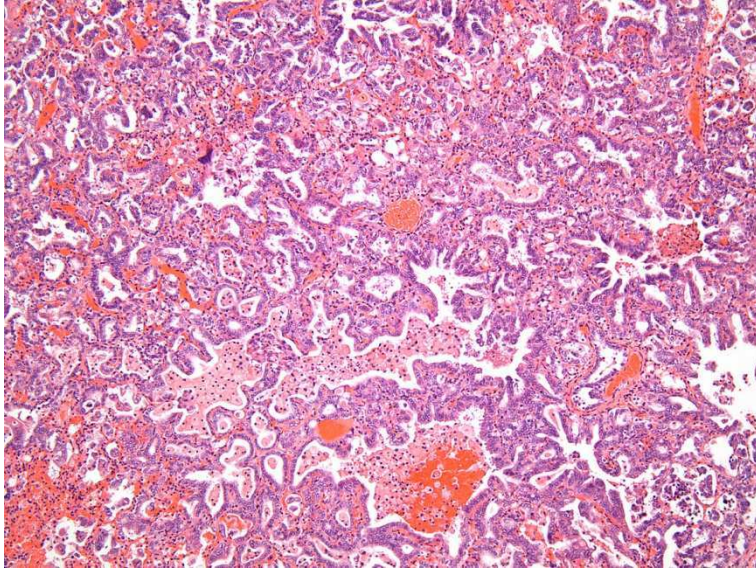
Uterus, Rat: Adenocarcinoma



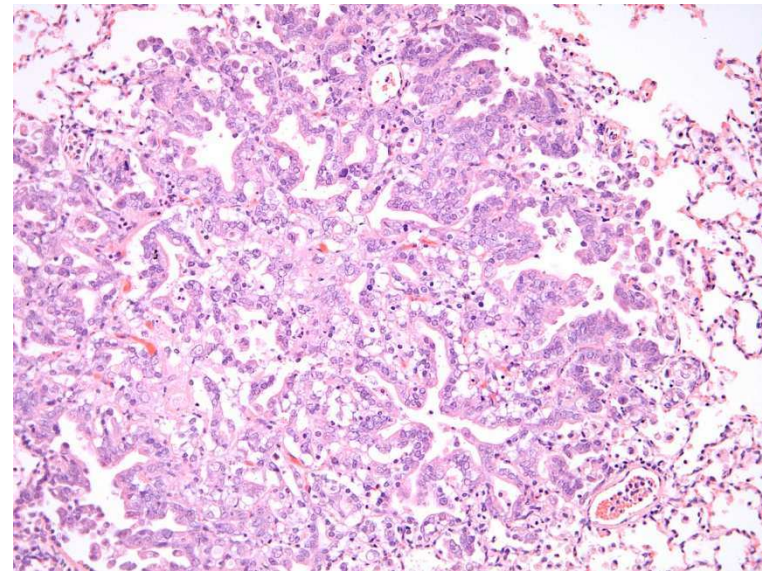
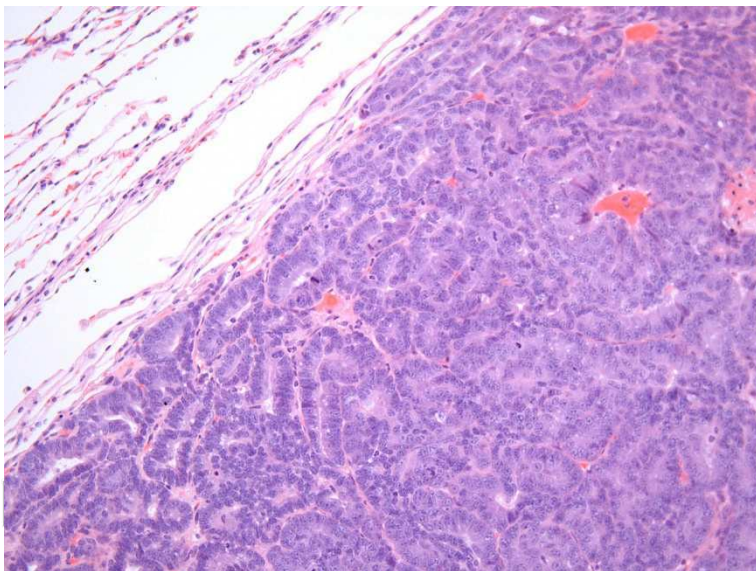
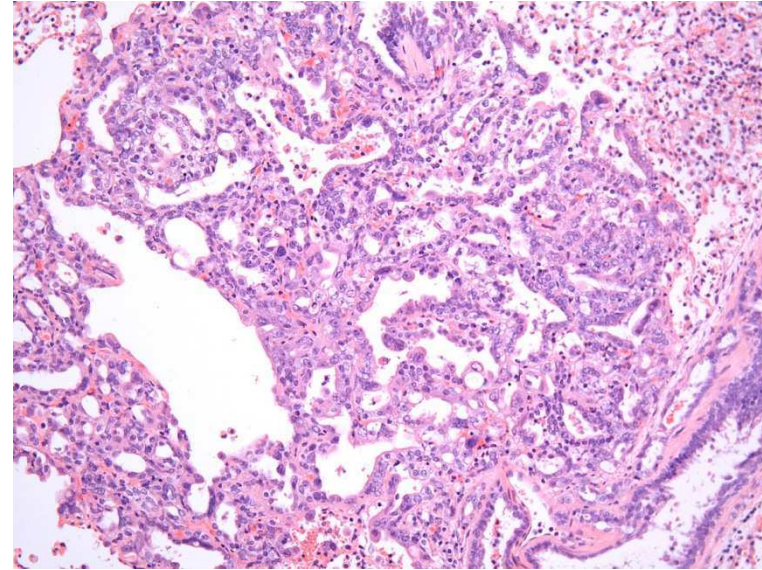
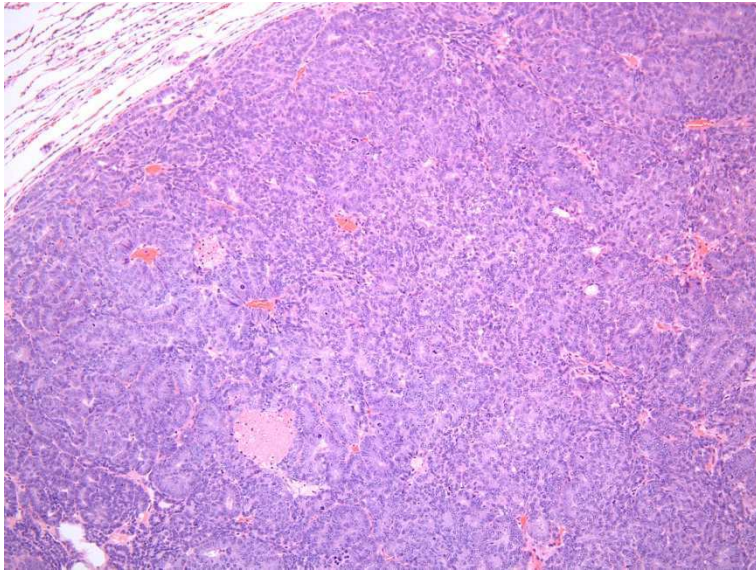
Uterus, Hamster: Adenocarcinoma



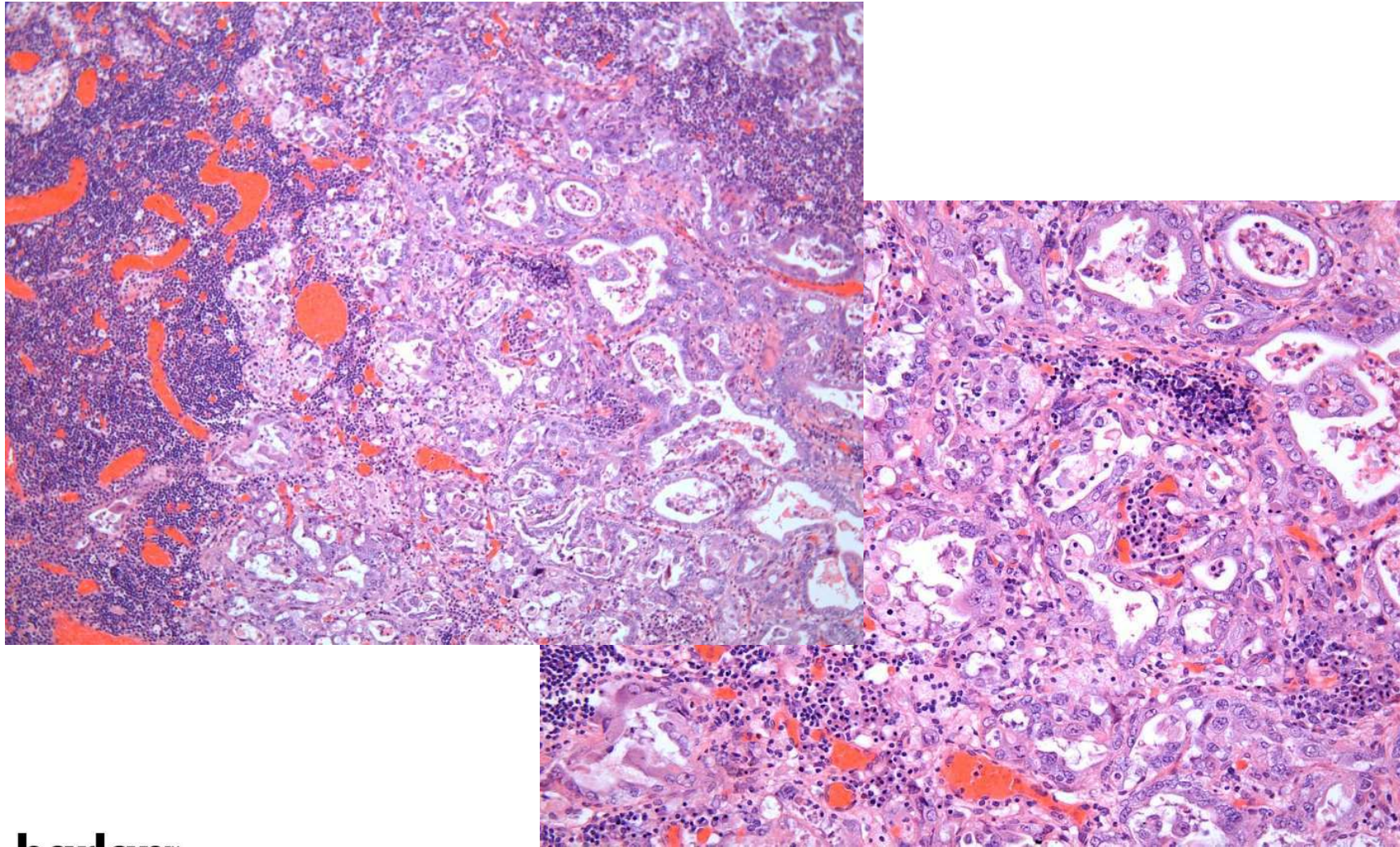
Uterus, Hamster: Adenocarcinoma



Lung Metastases,Hamster: Uterine Adenocarcinoma



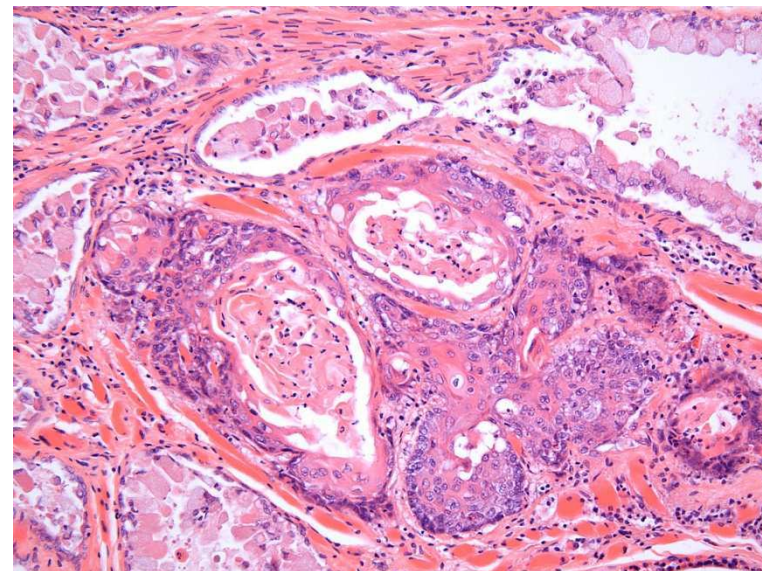
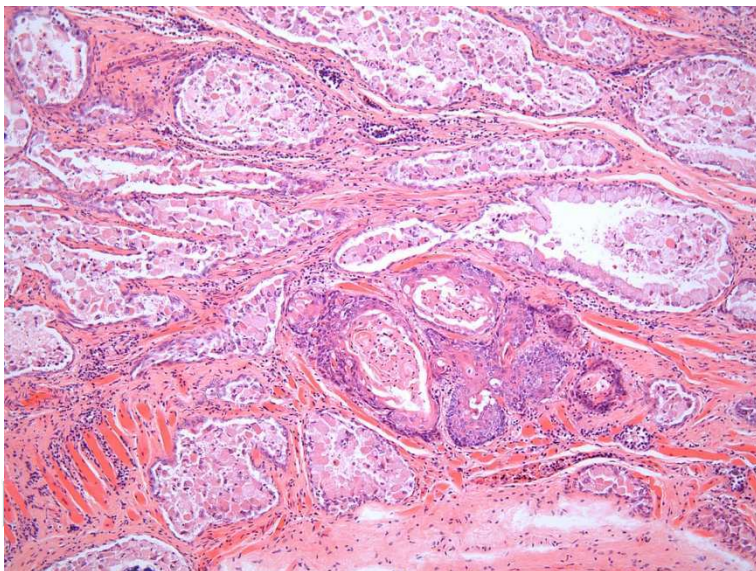
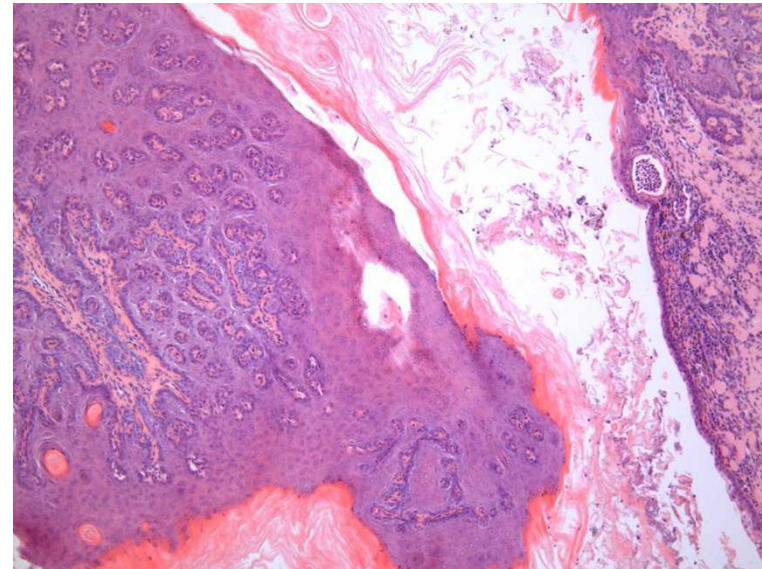
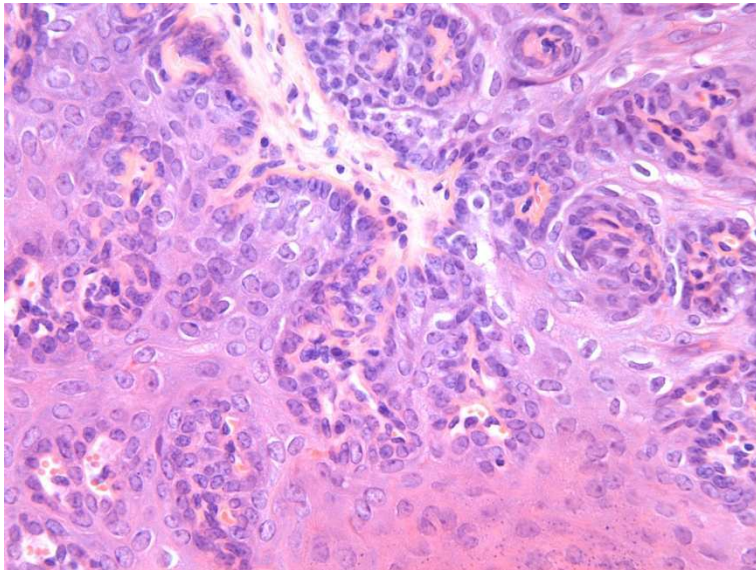
Lymph Nodes, Metastases, Hamster: Uterine Adenocarcinoma



Uterus-Mesenchymal Neoplasms: Squamous Carcinoma

- Most often in cervical region
 - Usually well-differentiated
 - Often non-keratinizing
 - Occasionally keratin pearls
 - Stroma scant or abundant
-
- Differential Diagnose: Squamous papilloma, Adenocarcinoma

Uterus-Cervix, Hamster: Squamous Carcinoma



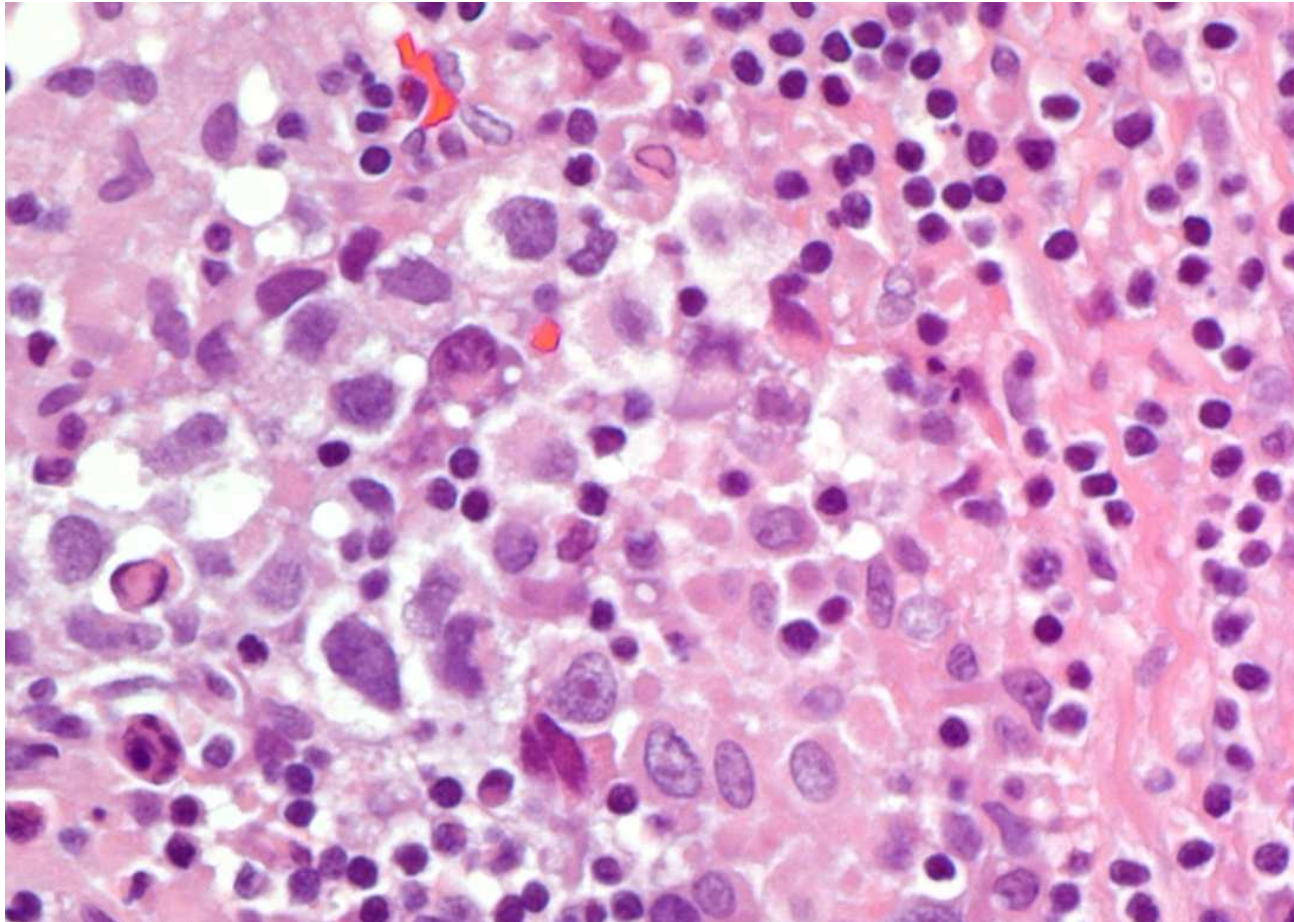
Uterus-Epithelial Neoplasms: Yolk Sac Carcinoma

- Rosettes, nest, cords or papillary structures of cells
- Eosinophilic, hyalinized ground substance (PAS-positive)
- Cytoplasm often vacuolated and often with droplets of a compound similar to the ground substance (extracellular matrix)

- Rare!

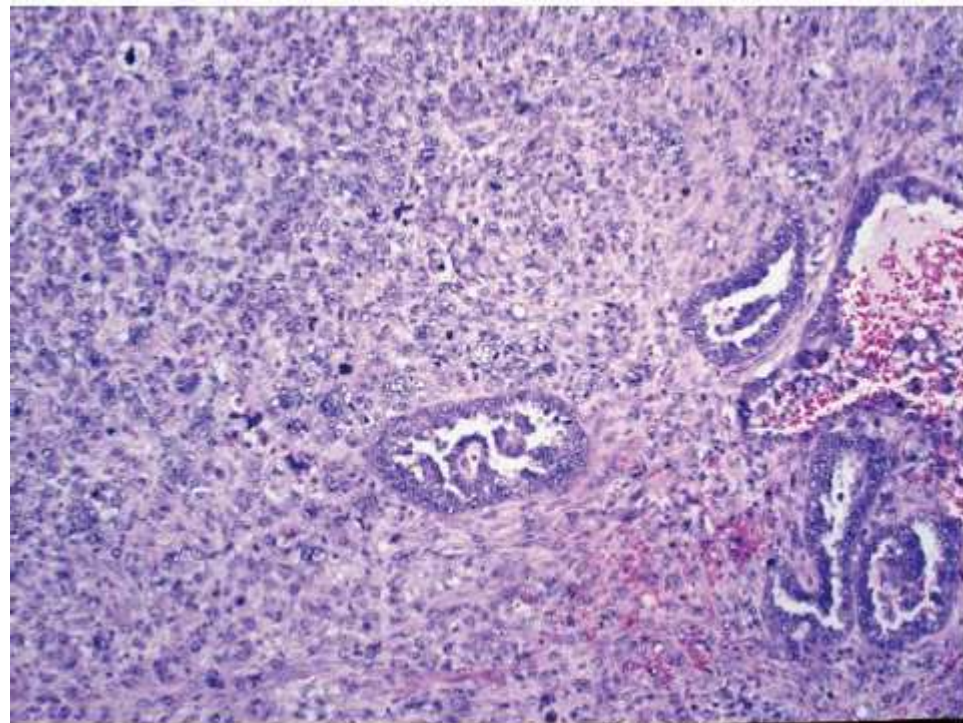
- Differential Diagnose: Adenocarcinoma

Uterus-Epithelial Neoplasms: Yolk Sac Carcinoma



Uterus-Epithelial Neoplasms: Muellerian Tumor

- Carcinosarcoma type
 - Polypoid with local invasion
 - Epithelial and mesenchymal elements
 - Very rare!!!
-
- **Differential Diagnose:
Teratoma**



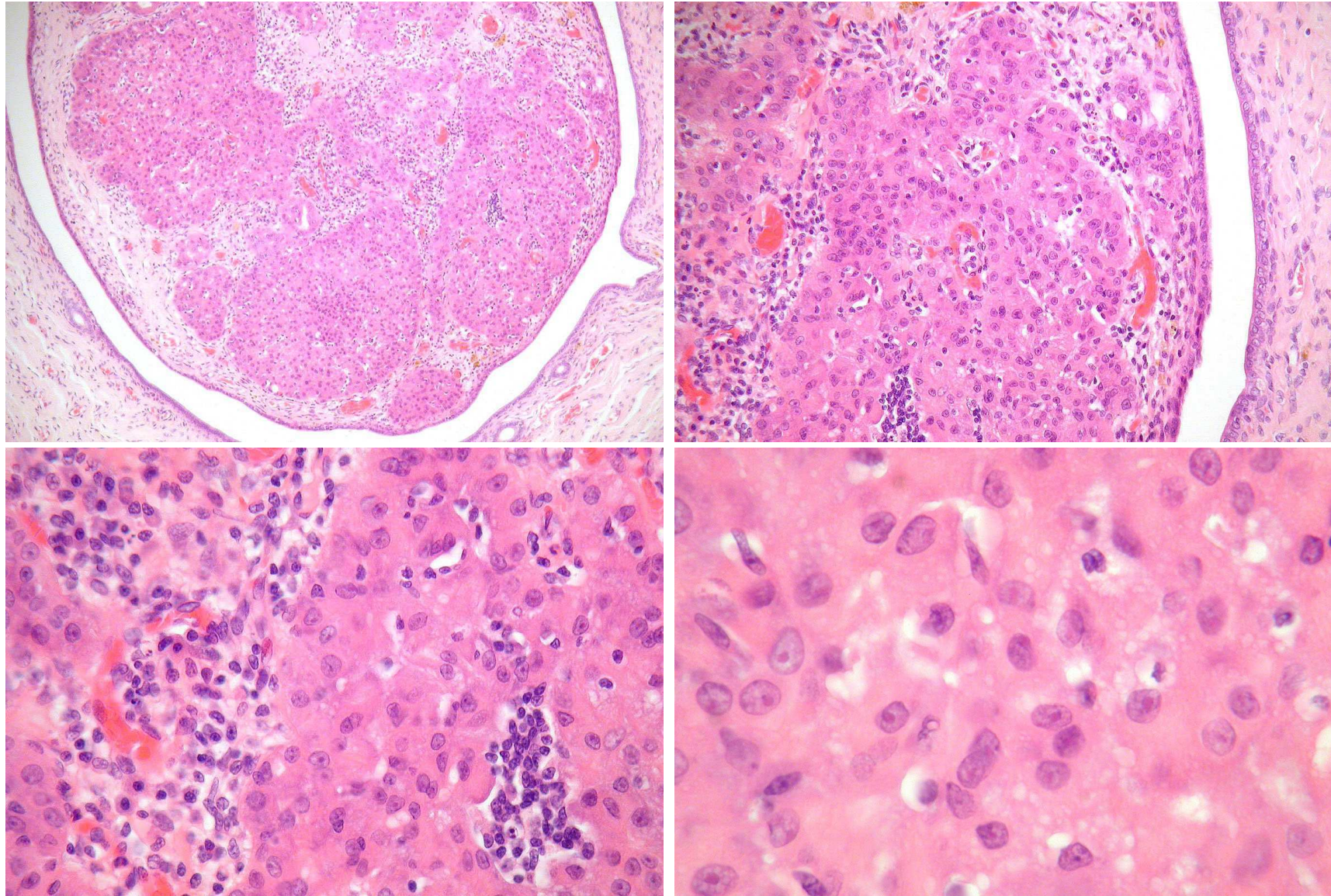
Medscape

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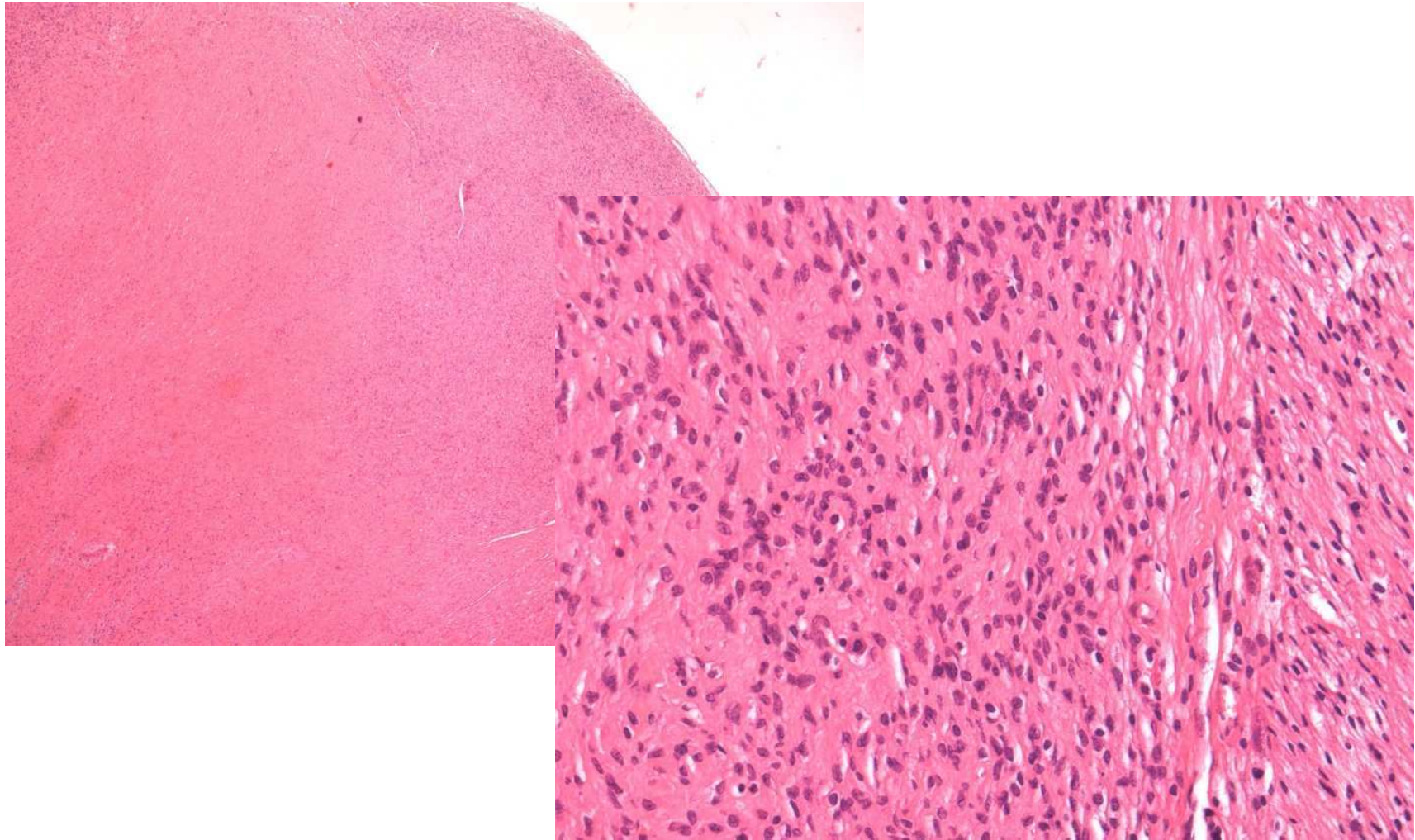
Uterus-Mesenchymal Neoplasms: Leiomyoma and Leiomyosarcoma

- As described under 'Ovaries' as myometrial nodules
- Leiomyoma: nuclei usually elongated with round ends but when abundant cytoplasm, the nuclei may be round up)
- Leiomyosarcoma: nuclei may be pleomorphic
- Differential Diagnose: Malignant schwannoma, Histiocytic sarcoma, Stromal sarcoma

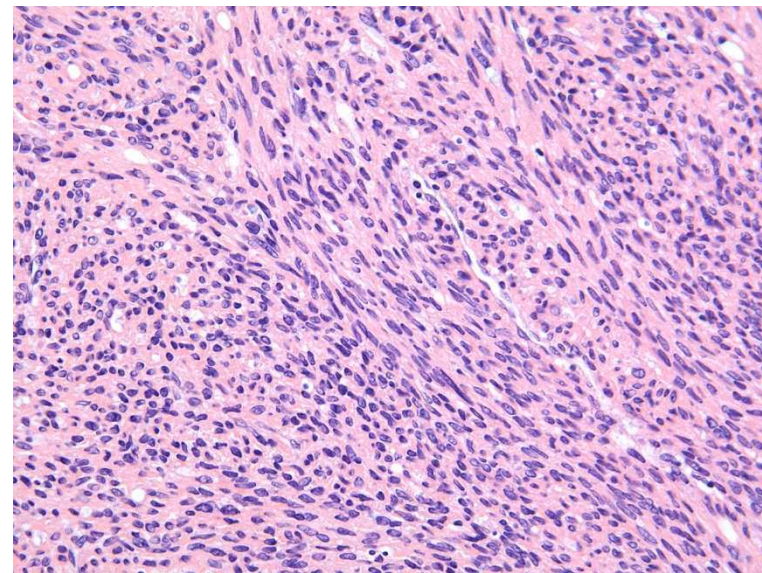
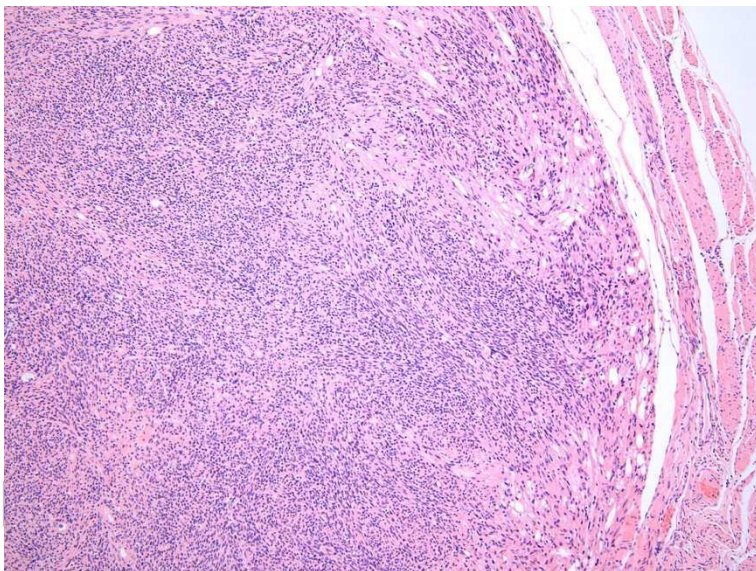
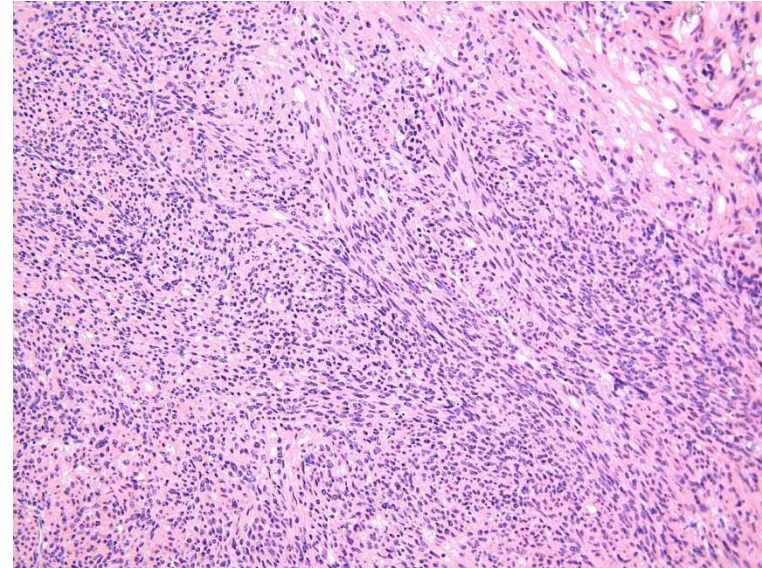
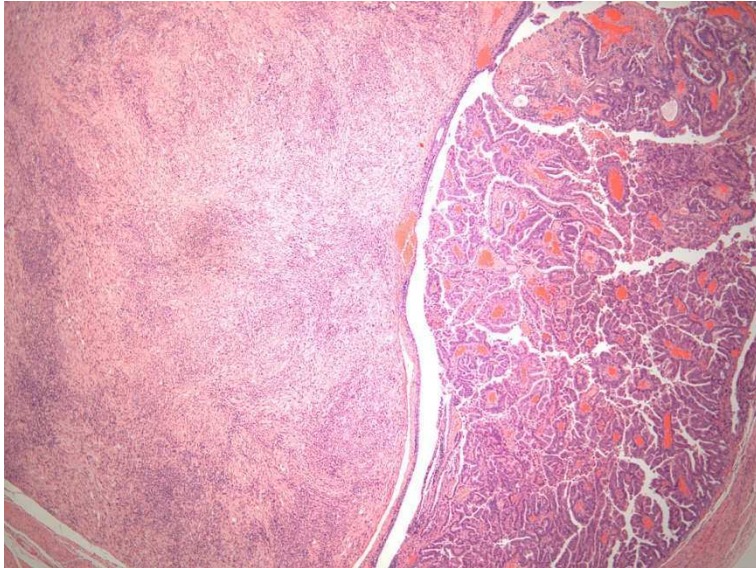
Uterus, Rat: Leiomyoma (Growth in Stromal Polyp)



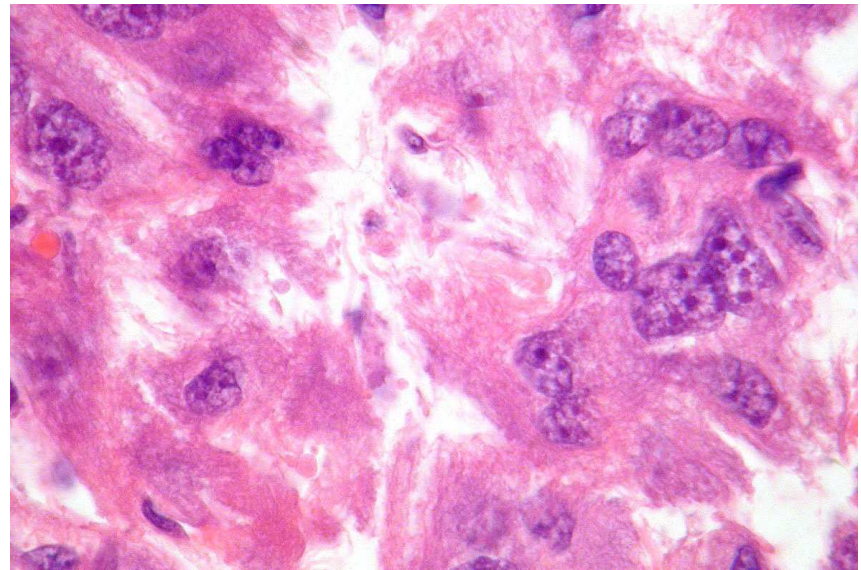
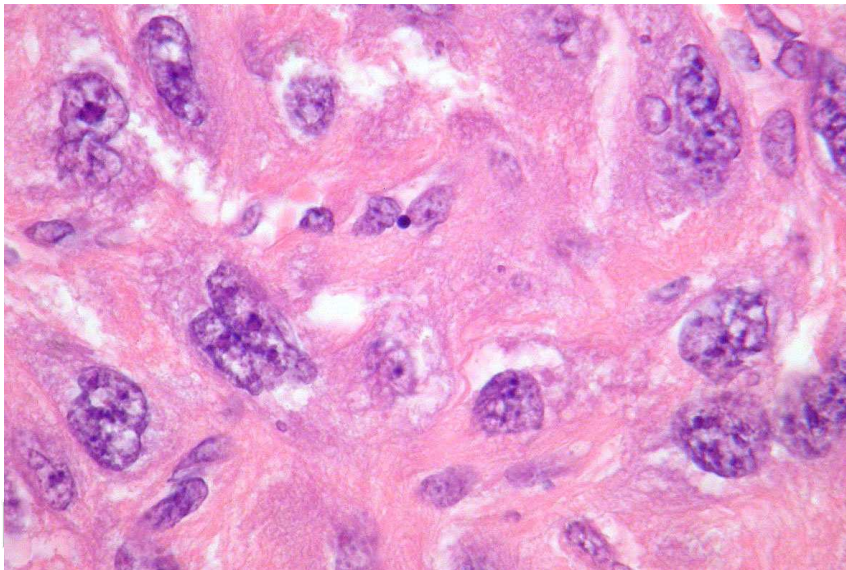
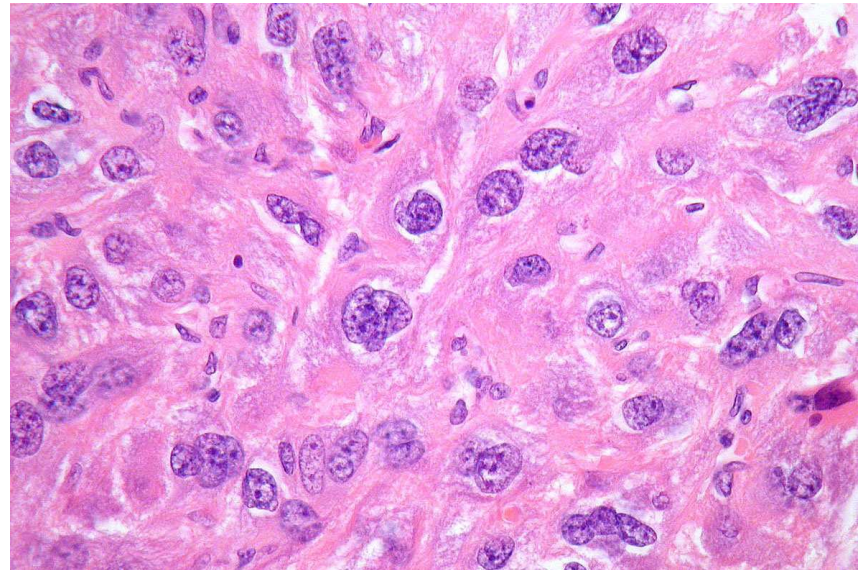
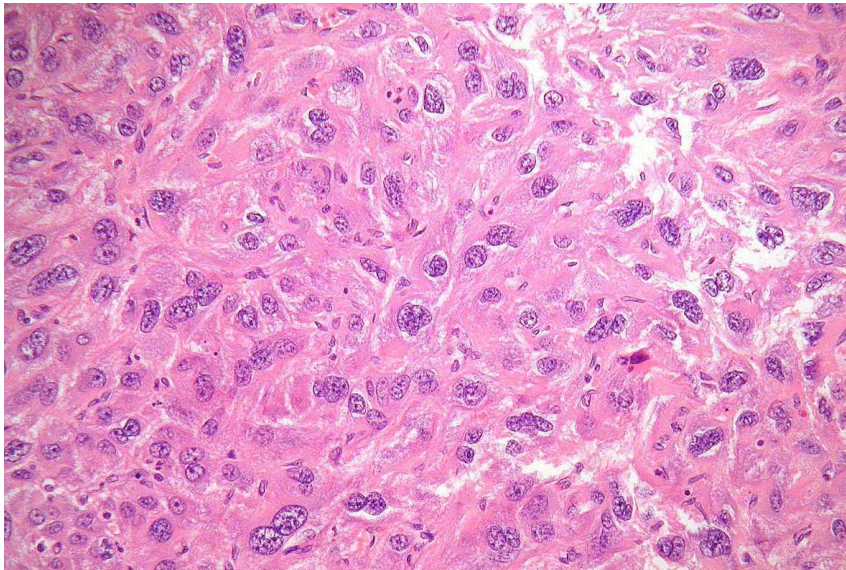
Uterus, Mouse: Leiomyoma



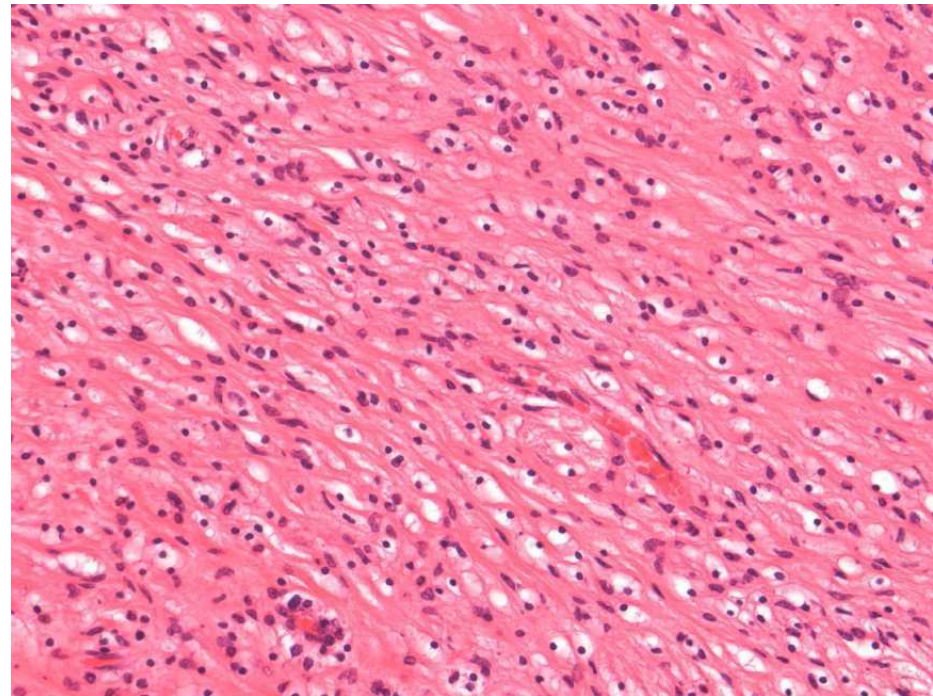
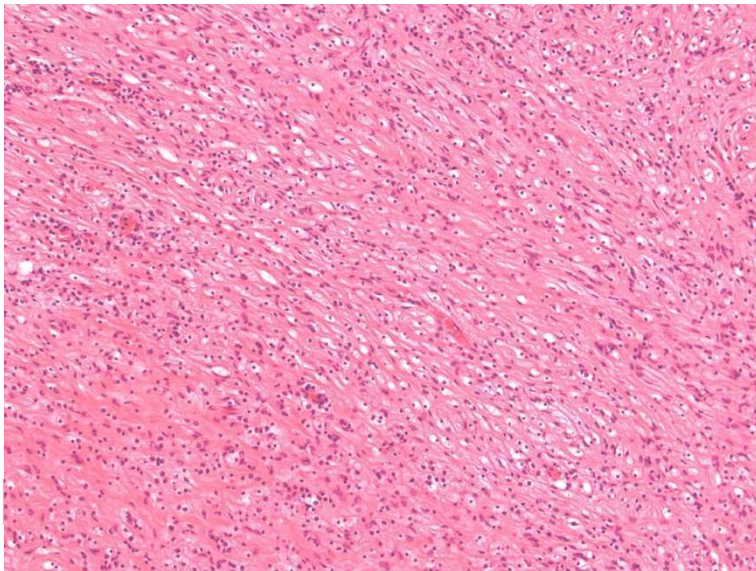
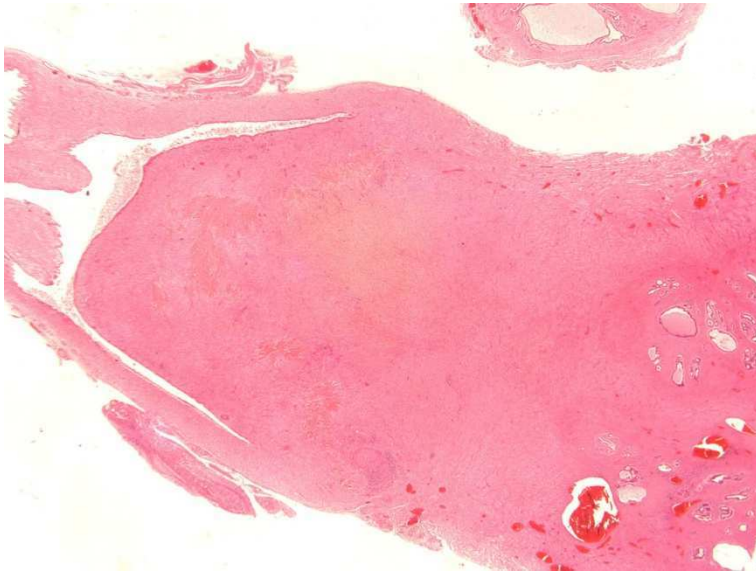
Uterus, Hamster: Leiomyoma



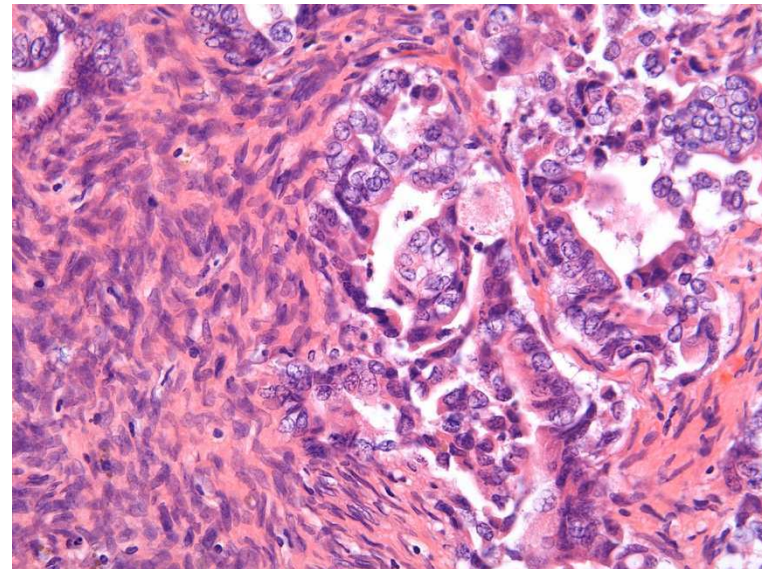
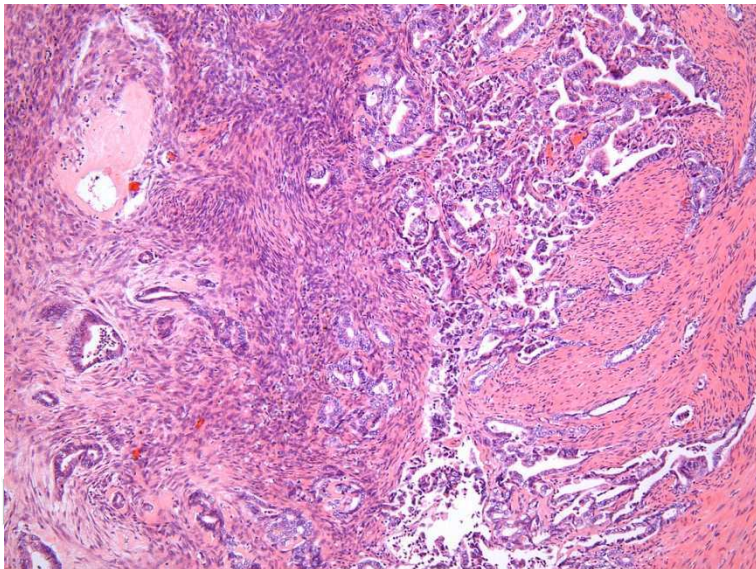
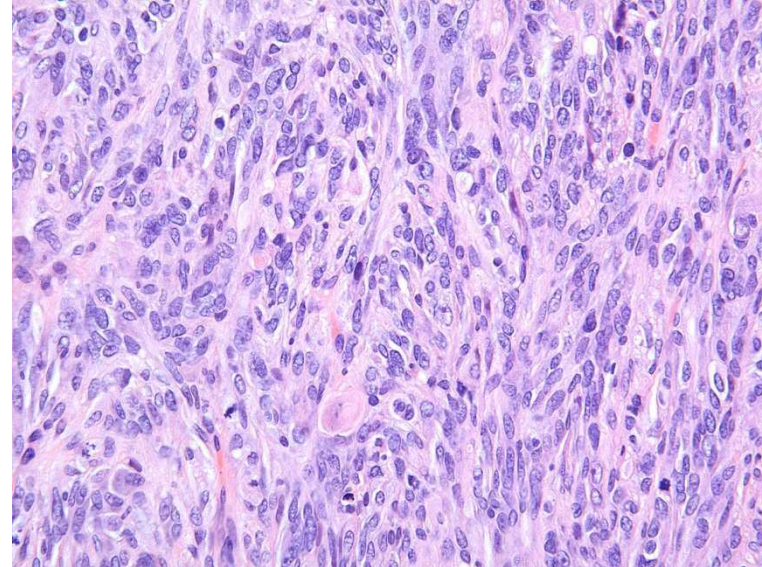
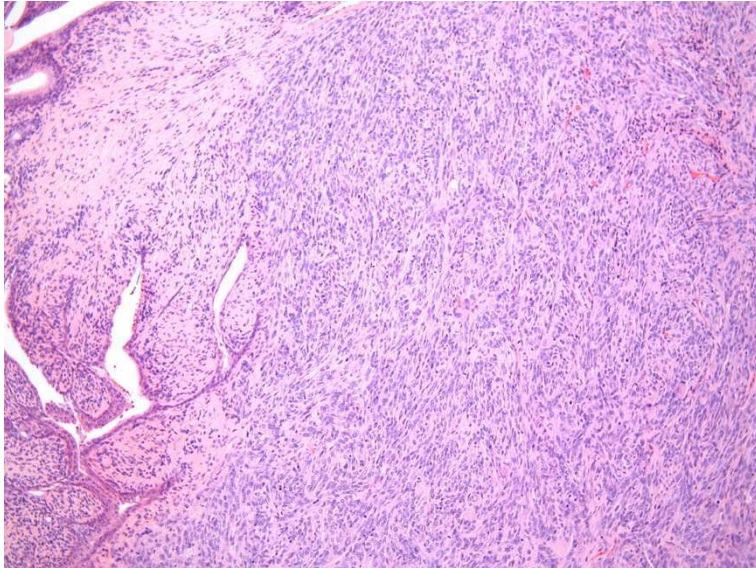
Uterus, Rat: Leiomyosarcoma



Uterus, Mouse: Leiomyosarcoma



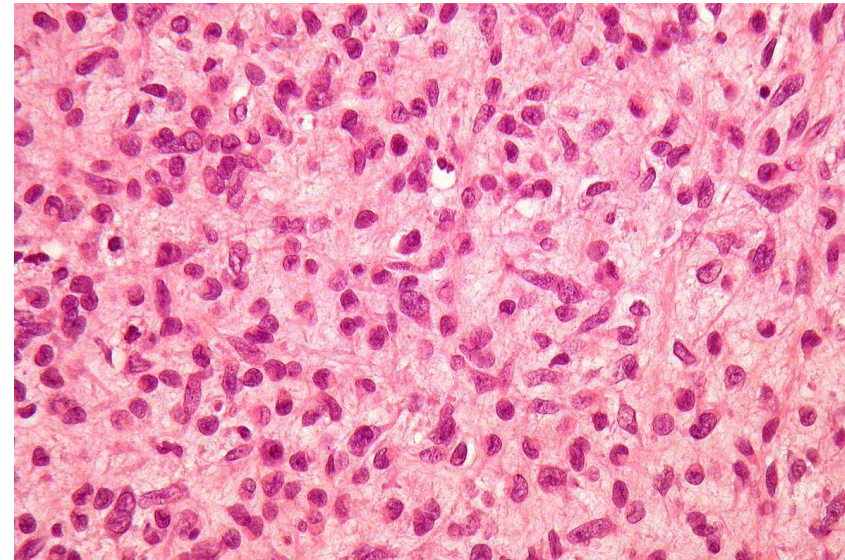
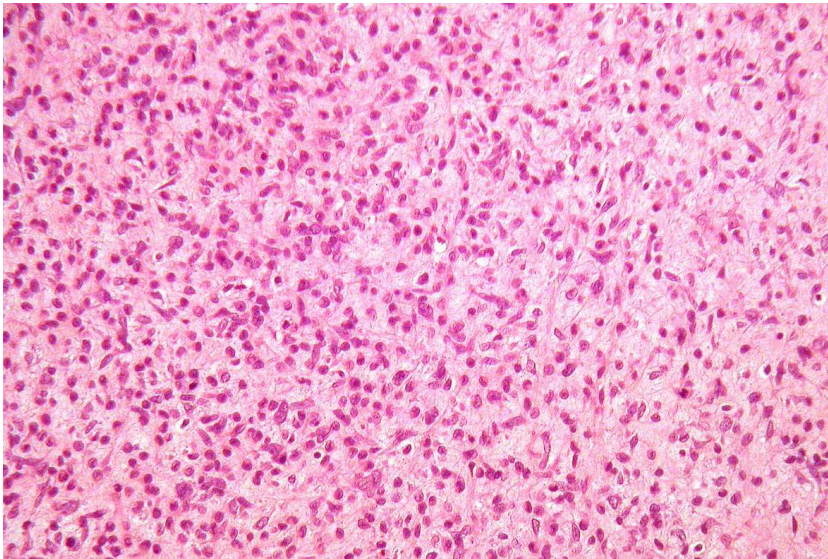
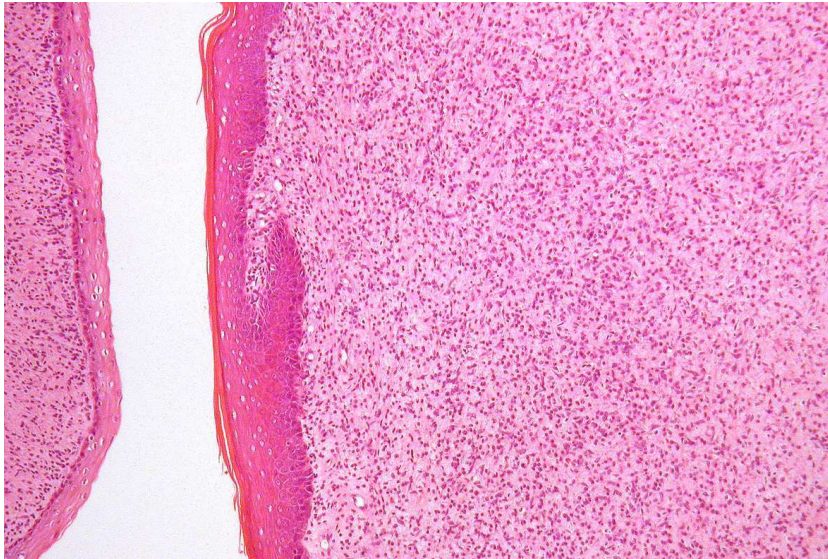
Uterus, Hamster: Leiomyosarcoma



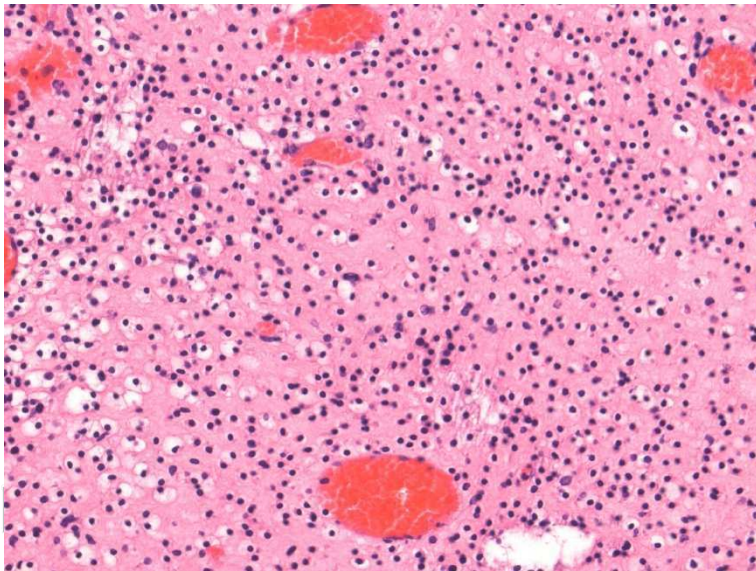
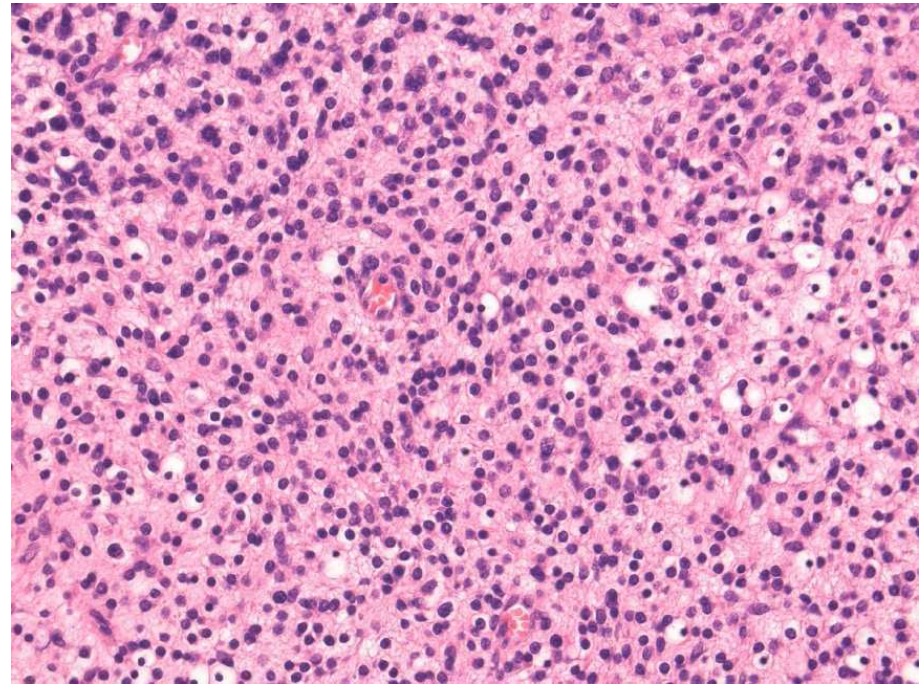
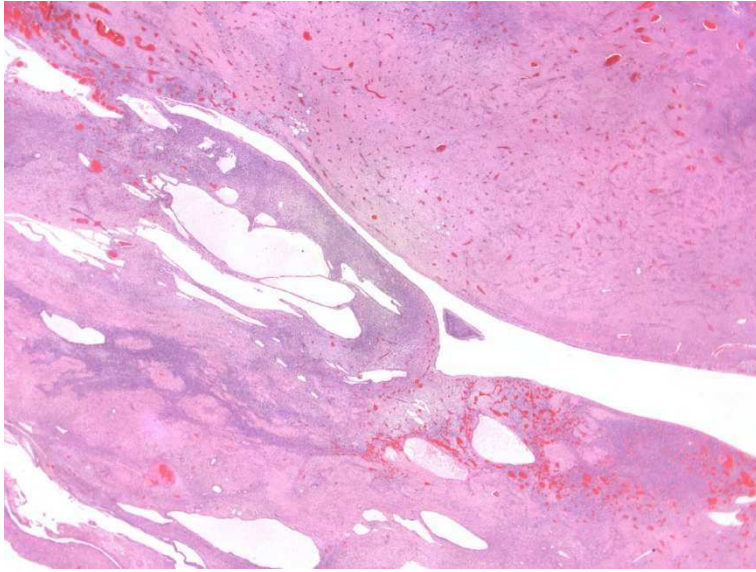
Uterus-Mesenchymal Neoplasms: Stromal Sarcoma

- Slightly spindle-shaped plump cells
 - Nuclei elliptical and hyperchromatic
 - Cell borders indistinct
 - Slight pleomorphism
 - May arise in stromal polyps
 - Occasionally cystic and hemorrhagic areas
-
- **Differential Diagnose: Stromal polyp, Schwannoma, Leiomyoma, Leiomyosarcoma, Fibroma, Fibrosarcoma**

Uterus, Rat: Stromal Sarcoma



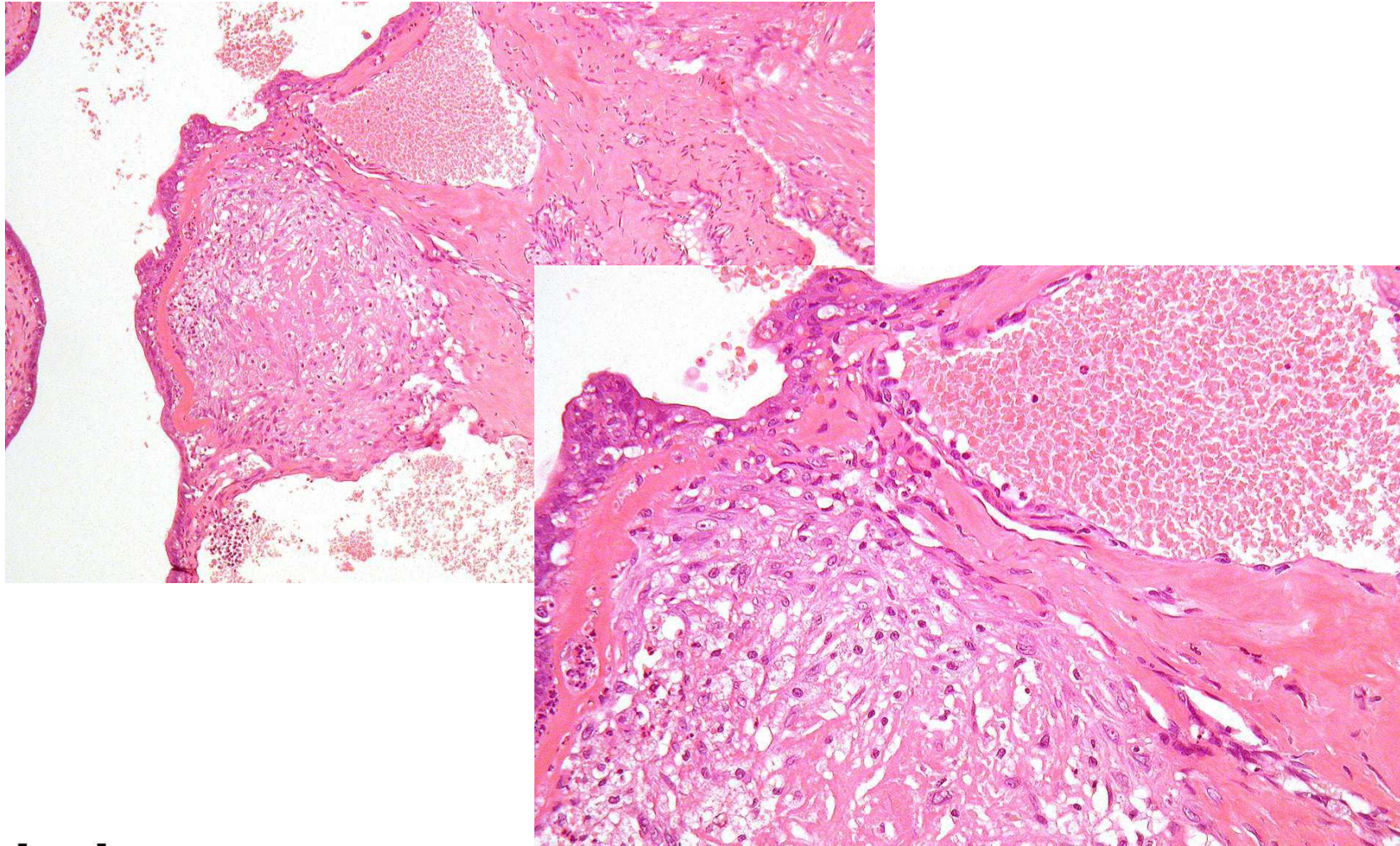
Uterus, Mouse: Stromal Sarcoma



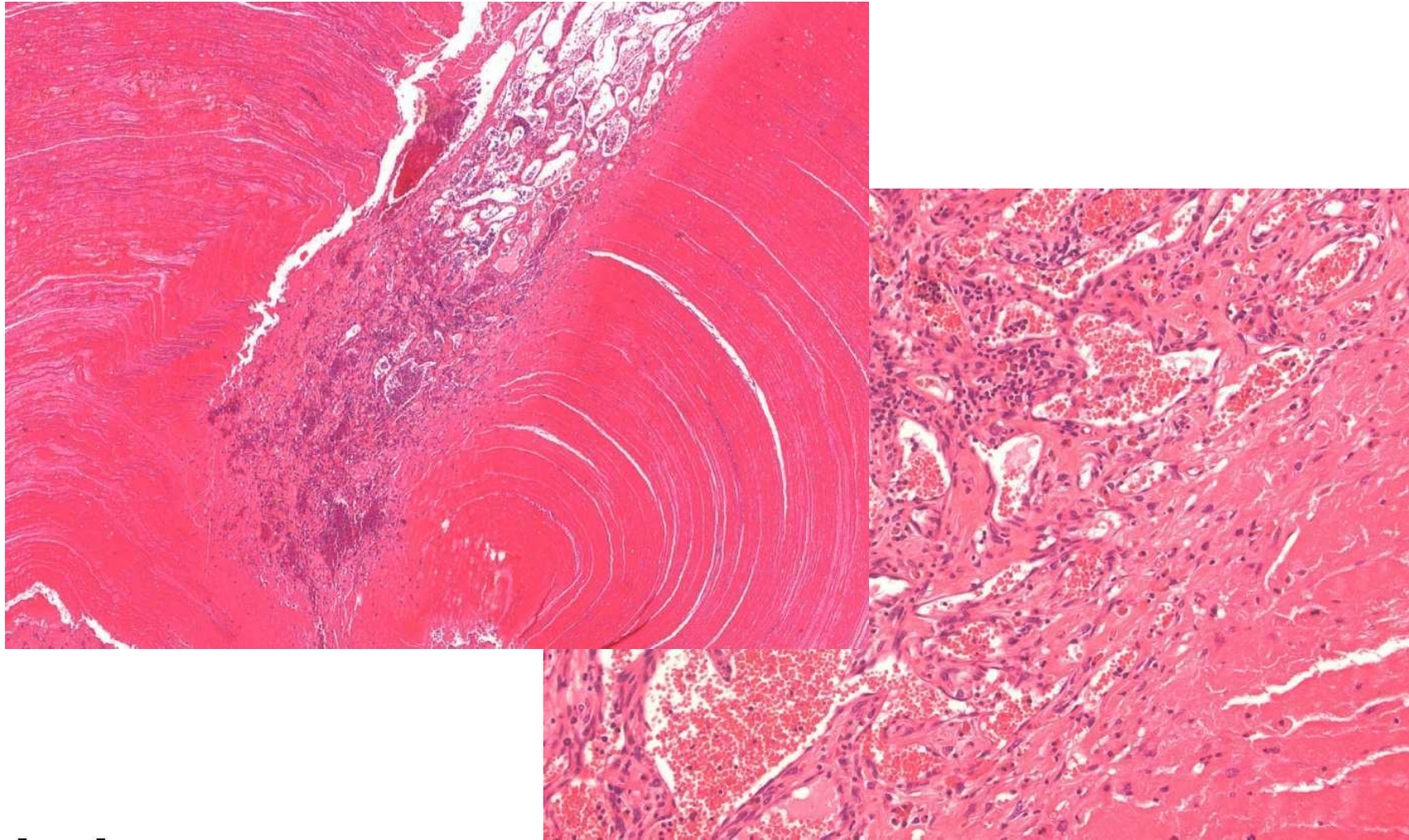
Uterus-Mesenchymal Neoplasms: Hemangioma and Hemangiosarcoma

- As described under 'Ovaries'
- Differential Diagnose: Stromal sarcoma and Malignant schwannoma with large necrotic areas, Torsion of polyps with hemorrhagic necrosis

Uterus-Mesenchymal Neoplasms: Hemangiosarcoma



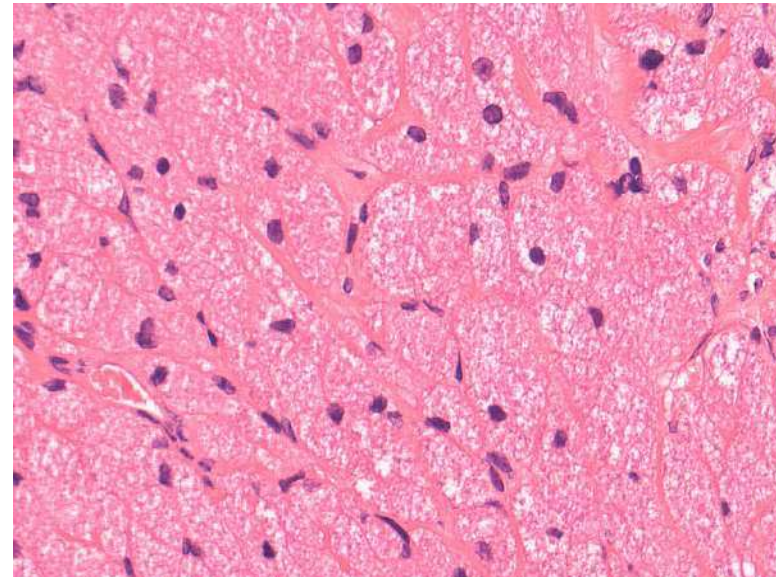
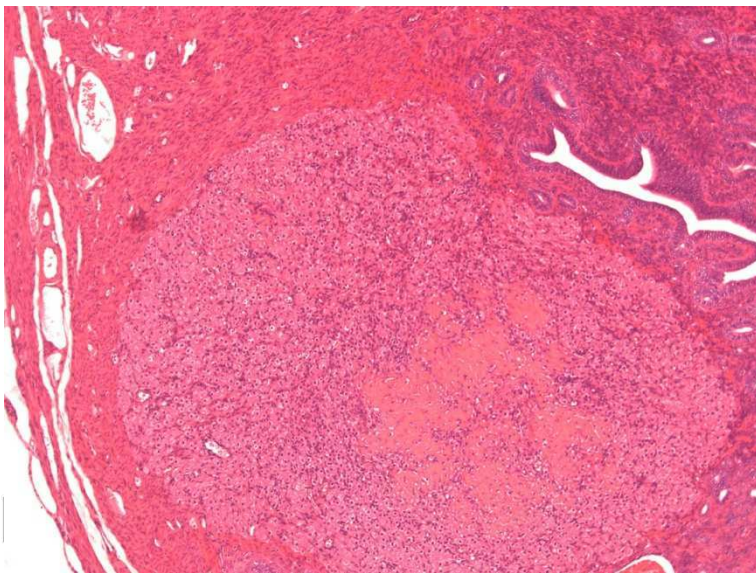
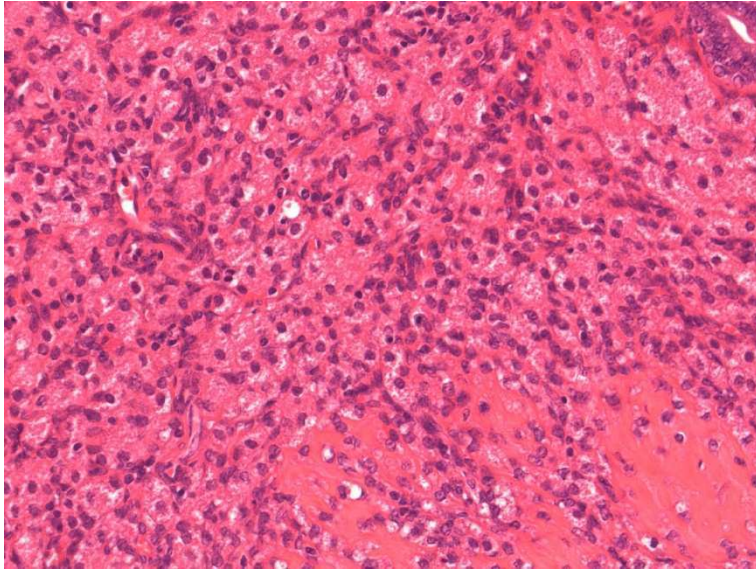
Uterus, Mouse: Hemangiosarcoma



Uterus-Mesenchymal Neoplasms: Granular Cell Tumor

- Typical nodular mass with large cells
- Abundant cytoplasm containing PAS-positive granules
- Benign and malignant tumors

Uterus, Mouse: Granular Cell Tumor



Uterus-Mesenchymal Neoplasms: Malignant Schwannoma

- Antoni type A (Verocay-bodies with whorls)
- Antoni type B (cystic areas)

- Differential diagnose: Stromal sarcoma, Leiomyosarcoma