MISTERY SLIDES SESSION - CYTOLOGY -



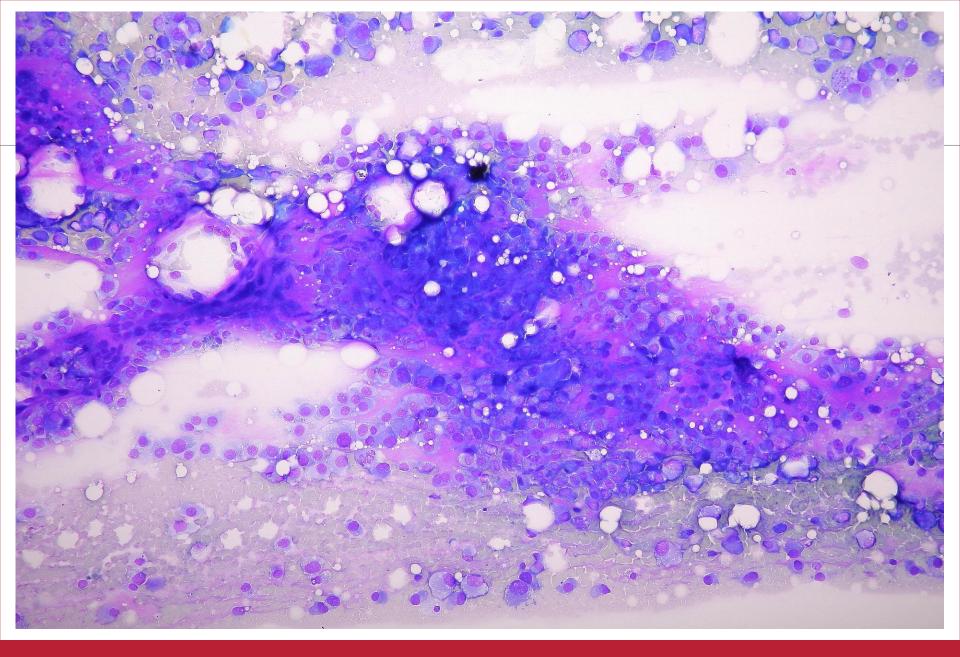
Carlo Masserdotti DVM, DiplECVCP, Spec Bioch Clin IAT Brescia





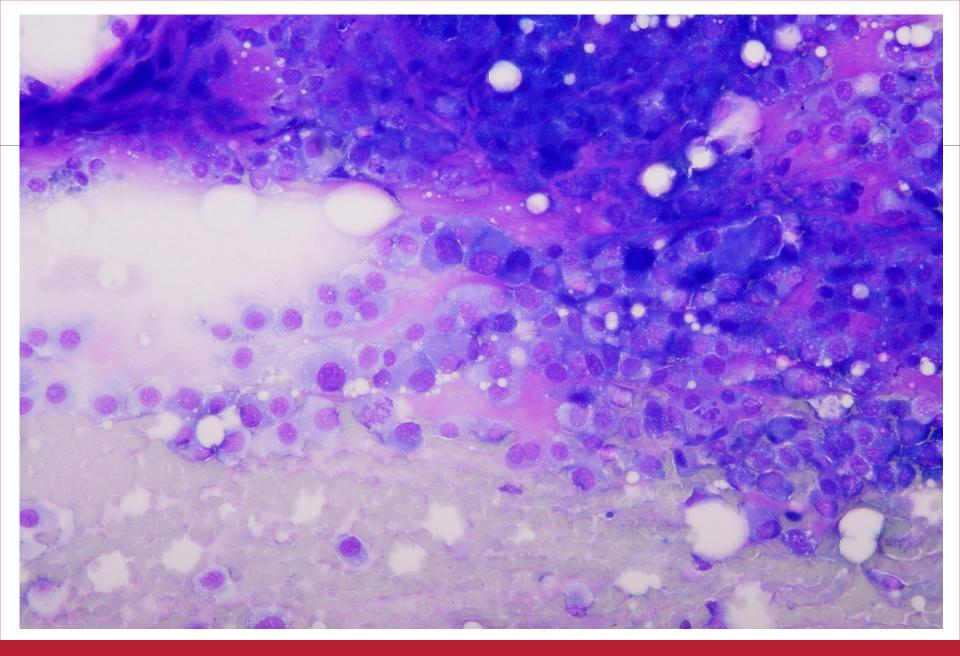
- Dog, mongrel, 12-yers-old, male;
- Mass on the ventral neck
 - FNCS of the mass
 - MGG stain





















- Round to spindle malignant cells
- Chondroid differentiation
 - Dense eosinophilic matrix
 - Inclusion of cells into the matrix

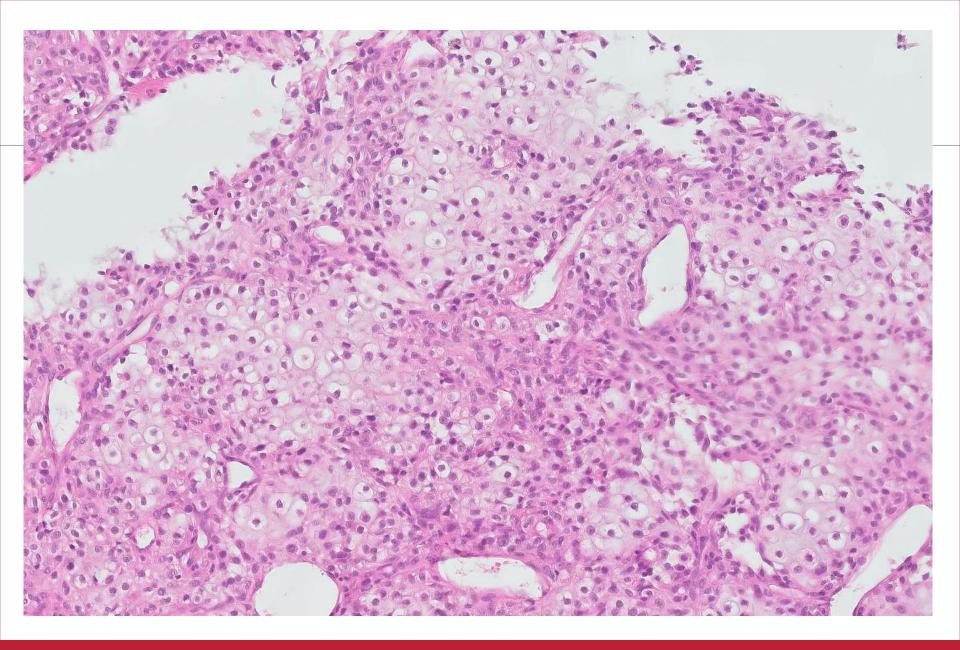


Diagnosis

Cytologic diagnosis: chondrosarcoma

- DD:
 - Chondrosarcoma of larynx/trachea
 - Chondrosarcomatous metaplasia of a ST sarcoma
 - Chondrosarcoma of hyoid bone
 - Chondrosarcoma of thyroid
- Tomographic diagnosis:
 - Chondrosarcoma of thyroid









- Vet Pathol. 1981 Jan;18(1):13-20.
- Multifocal myxedema and mixed thyroid neoplasm in a dog.
- Johnson JA, Patterson JM.
- Abstract
- An Old English Sheepdog developed multiple tumor-like masses bilaterally on the head, back, elbows, and hocks, and severe swelling of all digital pads. The gross lesions were the result of accumulation of myxedematous connective tissue in the dermis. Abundant glycosaminoglycan-rich ground substance was confirmed by colloidal iron, toluidine blue and alcian blue stains. The dog also had a mixed follicular-compact cellular carcinoma in the left thyroid gland. The right thyroid had a tumor composed of anaplastic mesenchymal cells forming myxomatous matrix and islands of abnormal cartilage closely integrated, and possibly contiguous, with a follicular-compact cellular carcinoma. The cellular atypism and numerous aberrant mitotic figures in the mesenchymal areas suggested malignancy, although pulmonary metastases derived only from the thyroid carcinoma. Clinically, the dog showed no signs of hypo- or hyperthyroidism, although a resting serum T-4 was slightly below normal.

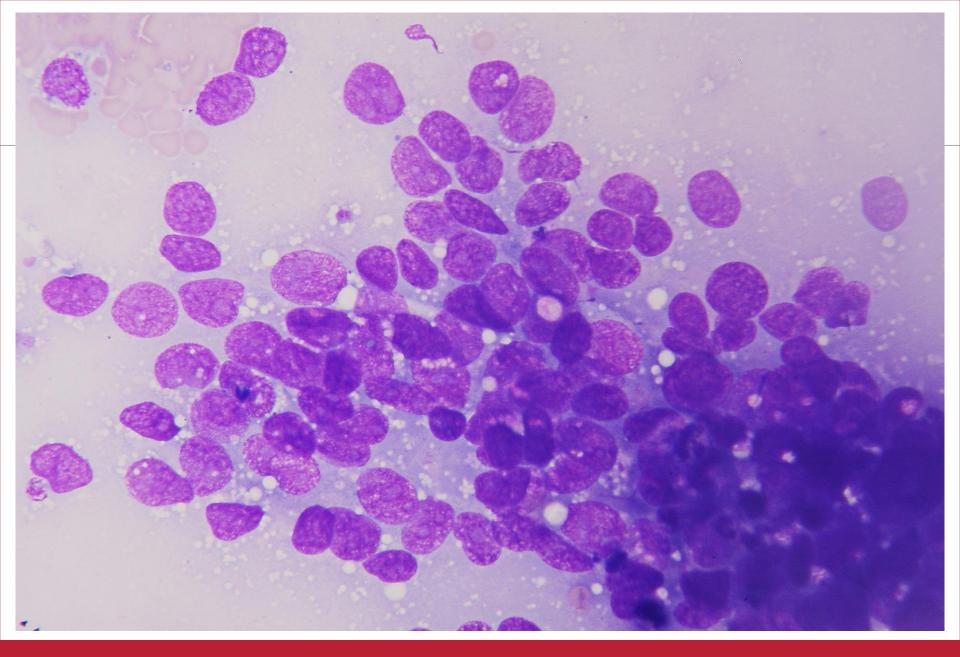


- Bull World Health Organ. 1974;50(1-2):35-42.
- Tumours of the thyroid gland.
- von Sandersleben J, Hänichen T.
- Abstract
- The epithelial tumours of the thyroid are divided into benign, malignant, and C-cell categories. The malignant tumours are described under the following names: follicular carcinoma, solid and solid-follicular carcinoma, papillary carcinoma, squamous cell carcinoma, and anaplastic carcinoma. The malignant mesenchymal tumours are described as fibrosarcoma, osteosarcoma, and chondrosarcoma. There are also coexistent tumours and carcinosarcomas.



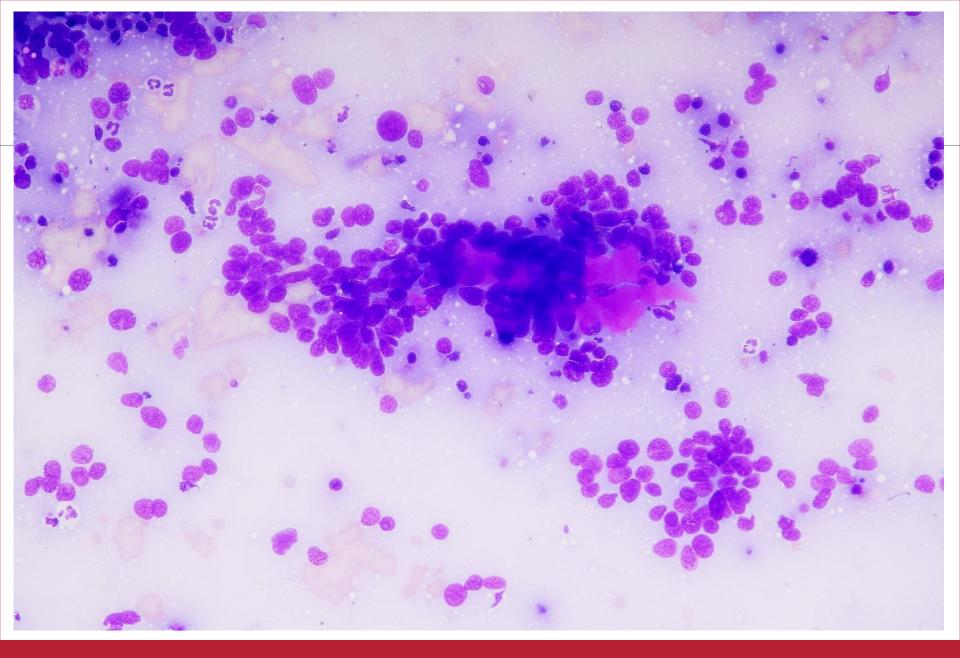
- Dog, Rottweiler, 7-years-old, female
- Mass in submandibolar region
 - FNCS of the mass
 - MGG stain





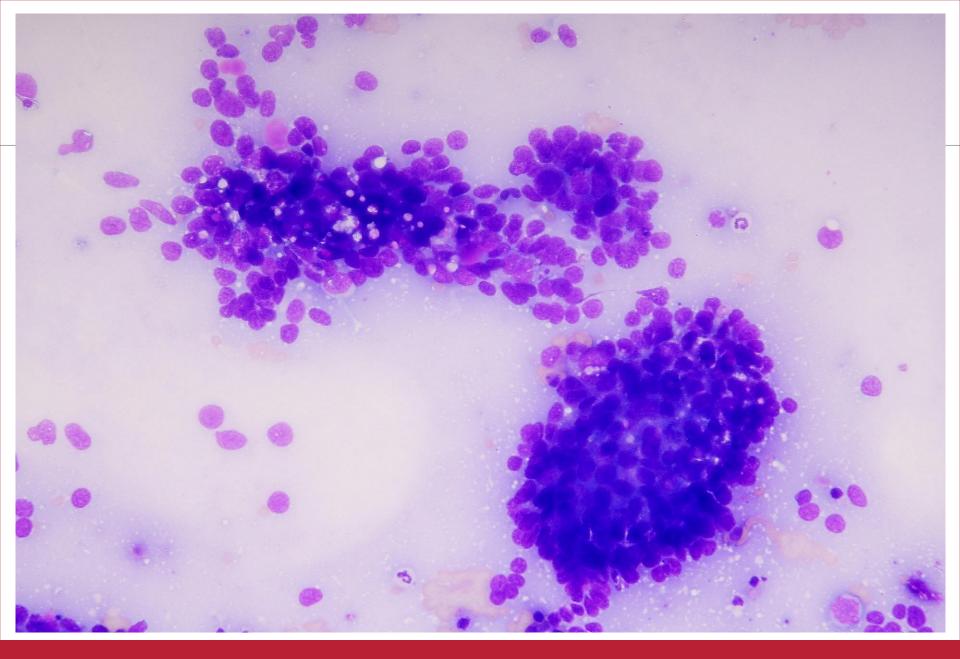
















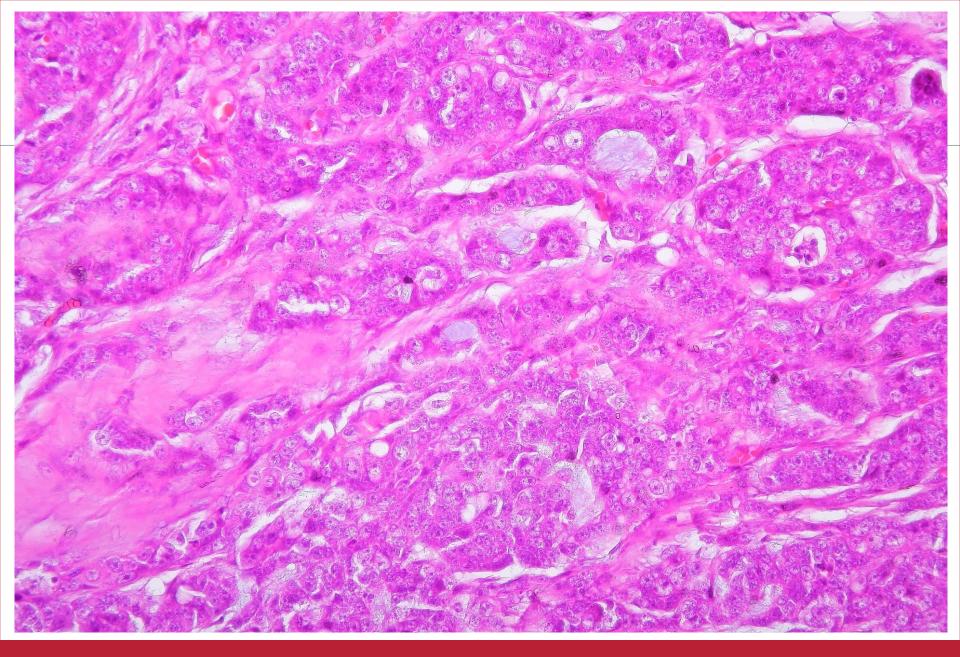
- Malignant epithelial cells
- Many microacinar arrangements
- Secretory activity
 - Eosinophilic material into the acinar structures



Diagnosis

- Cytologic diagnosis:
- Adenocarcinoma of salivary glands
- Histologic diagnosis:
- Adenocarcinoma of salivary gland



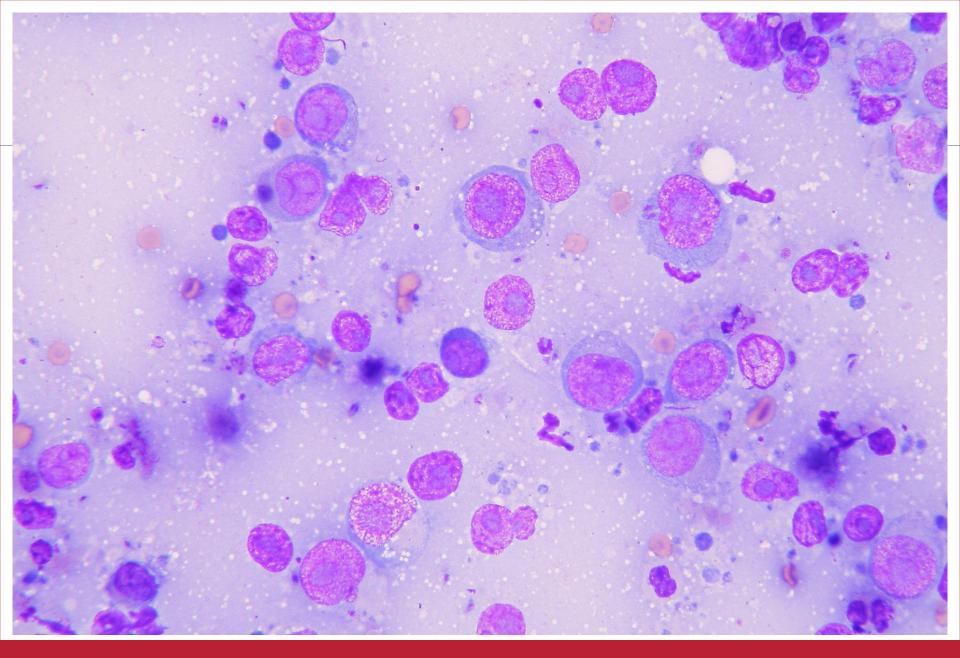






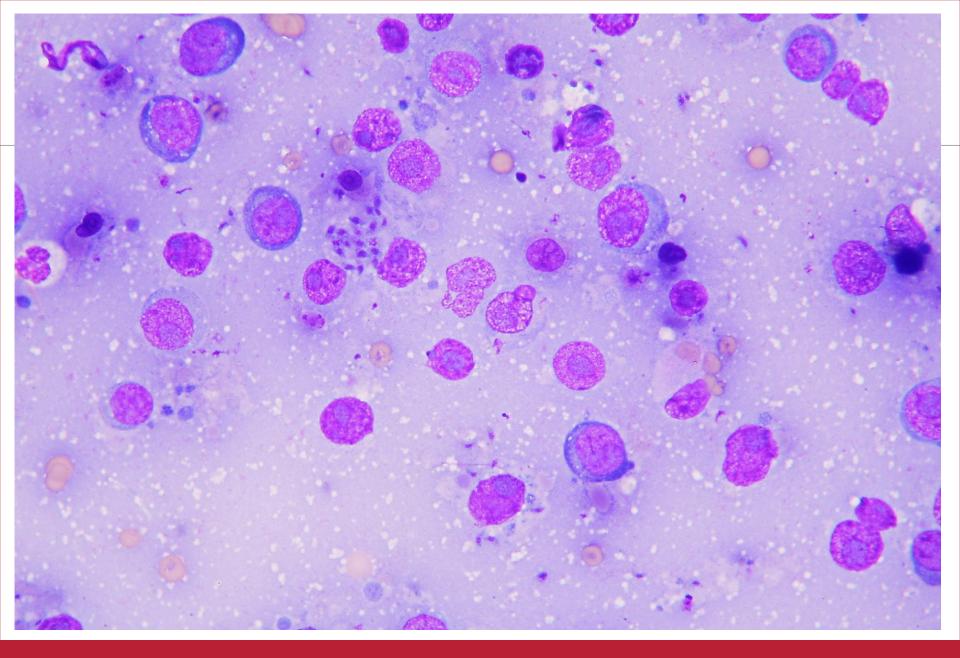
- Cat, DSH, 8-years-old, male
- Generalized lymphomegaly
 - FIV negative
 - FeLV negative
 - FNCS of the lymphnode
 - MGG stain





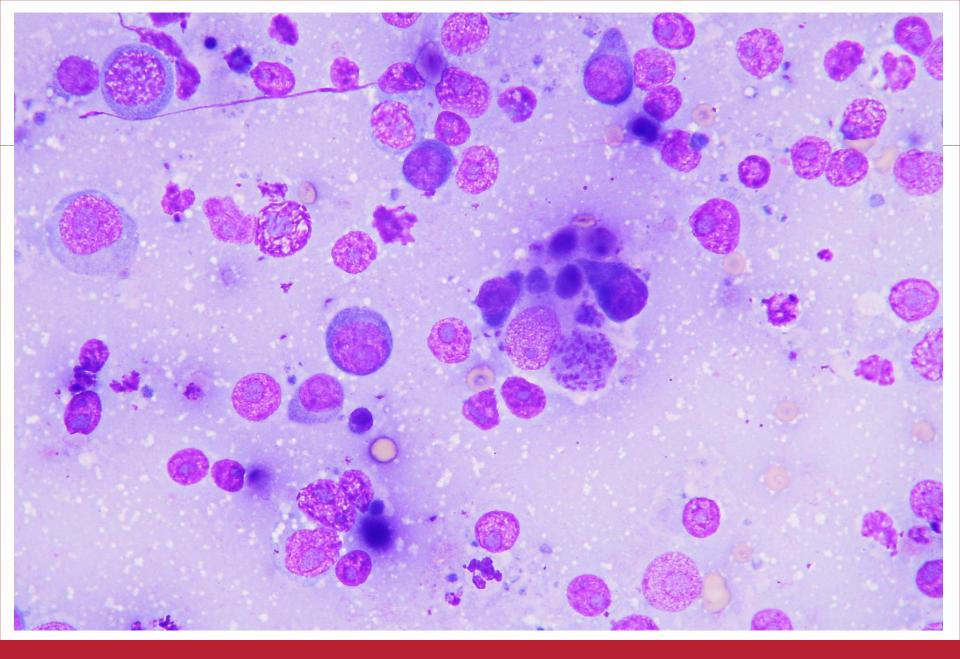






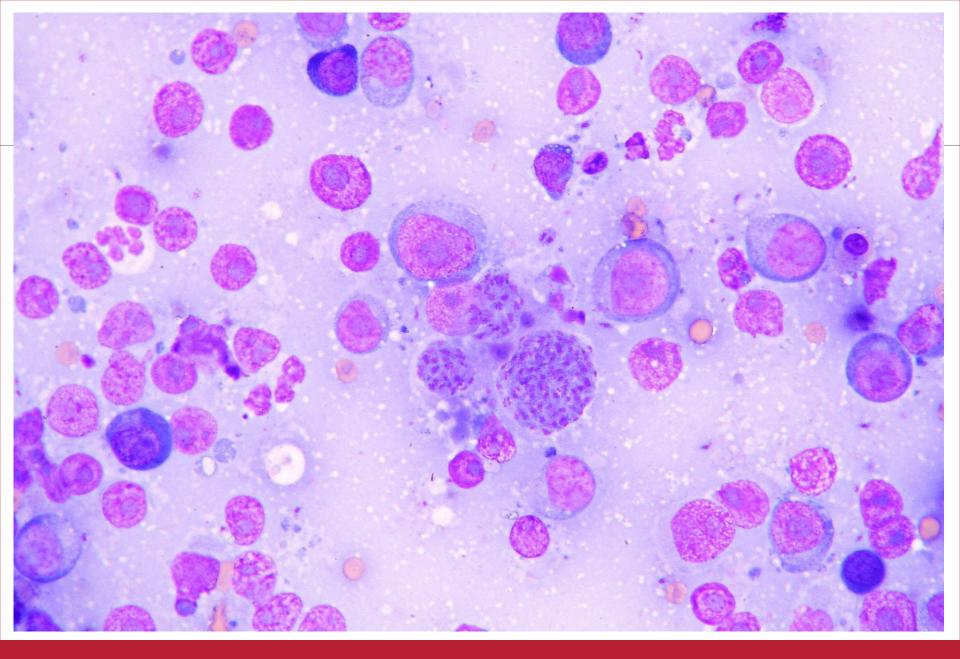
















- Large atypical immature lymphoid cells
 - Large size
 - Large amount of basophilic cytoplasm
 - Large nuclei
 - Clumped chromatin
 - Macronucleoli
- Elongated structures «banana-shaped»
 - Toxoplasma spp.
 - Neospora spp
- Macrophagic phagocytosis





Cytologic diagnosis

- Large cell lymphoma with Toxoplasma spp. infection
- DD: large cells lymphoma with Neospora spp. infection



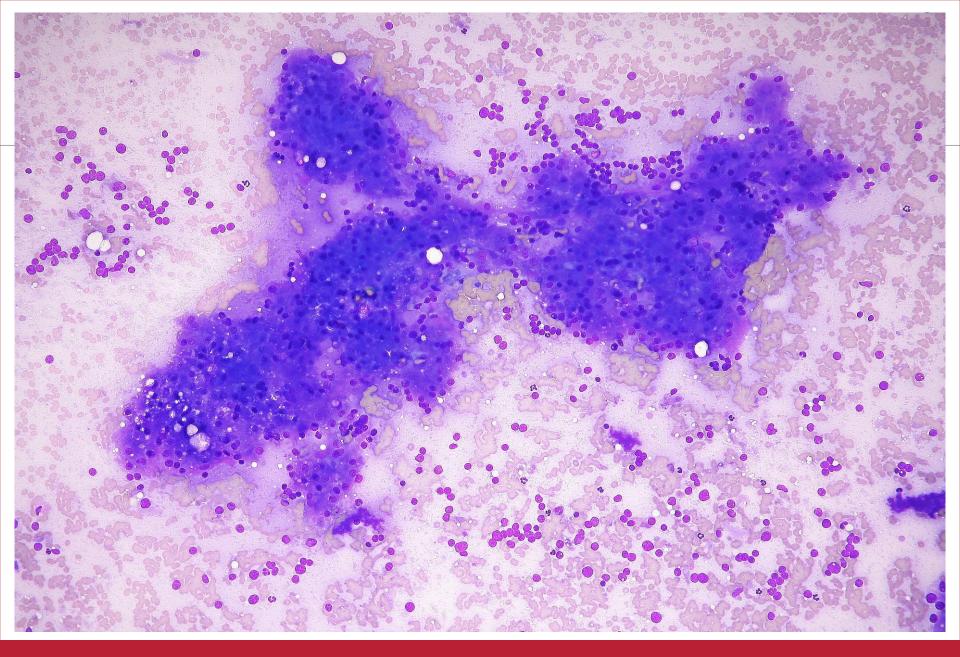
Follow-up

- IgG Toxoplasma: positive 1:1280
- No involvement of splanchic tissues other than lymphnodes
- Late splenic and hepatic enlargement



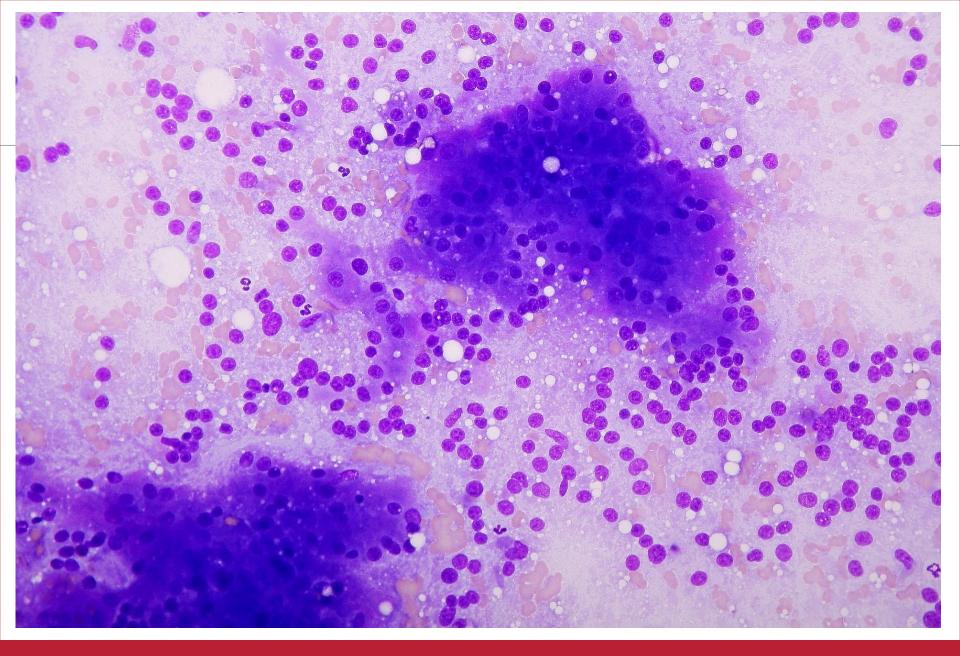
- Dog, Cocker spaniel, 11-years-old, male
- Hepatic mass
 - Ultrasound-guided FNCS of the mass
 - MGG stain





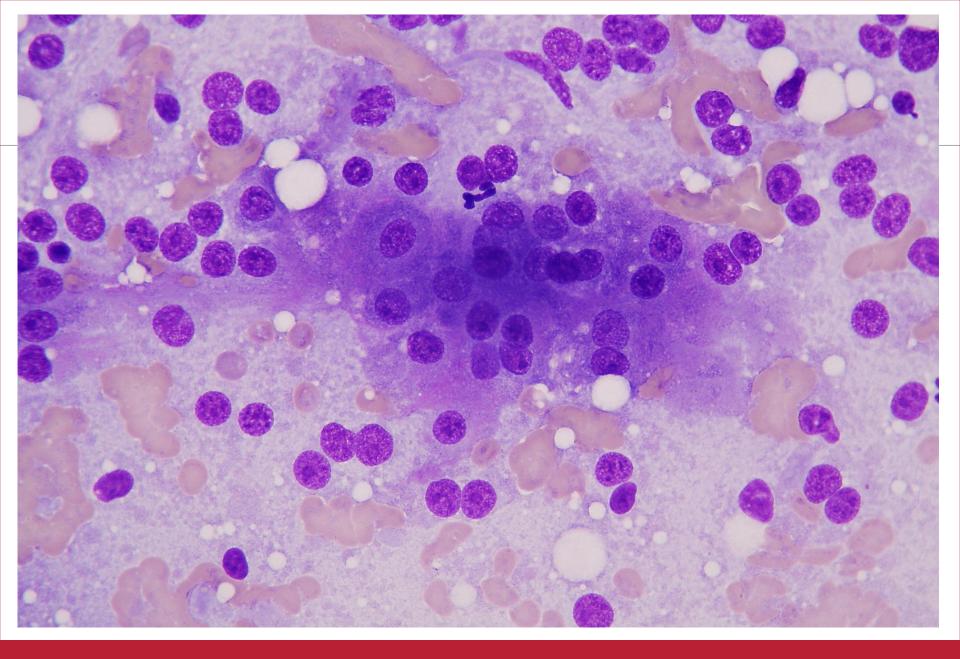
















- Hepatocytes with little malignancy features
- Slight anysokaryosis
- Granular chromatin
- Many <u>naked nuclei</u> crowded around the cell clusters



Cytologic diagnosis

- Well-differentiated hepatocellular carcinoma
- Histologic diagnosis after mass excision:
 - Well-differentiated trabecular hepatocellular carcinoma



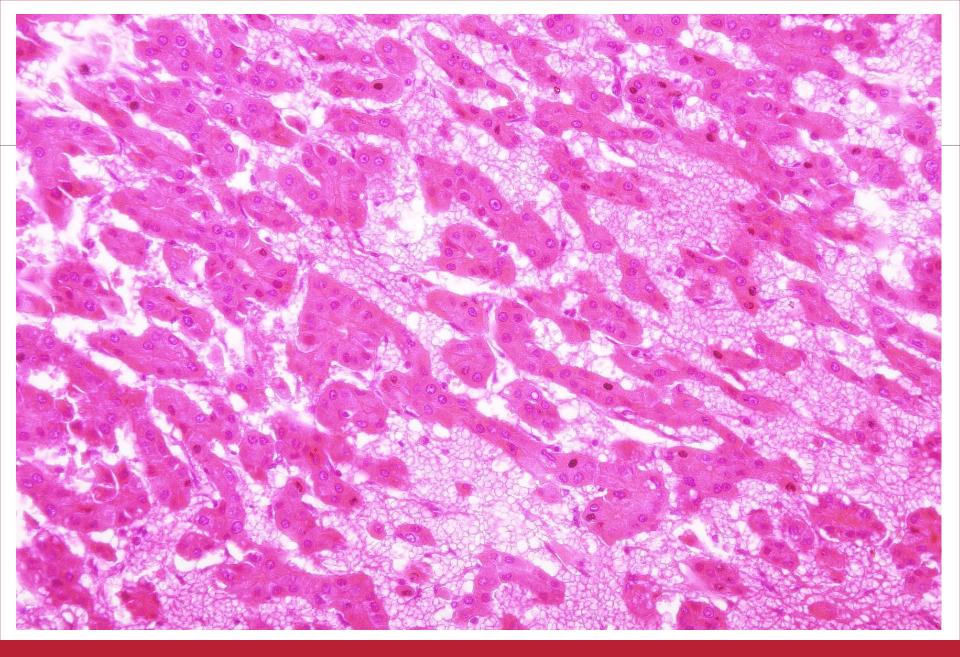






Table 2. Scores for 33 cytologic features evaluated in fine-needle aspirates of 15 hepatocellular carcinomas and 15 samples from non-neoplastic, non-nodular liver in dogs.

Cytologic Feature Diagnosis 0 1 2 3 U* P↑ Proteinaceus debris WD HCC 3 p0(s) 5 p3.3k) 6 (400) 1 (67k) 54.5 .01 Bloodin background WD HCC 0 4 p6.7k) 11 (273.3k) 0 107 775 Blic casts WD HCC 12 (800) 1 (67k) 2 (13.3k) 0 103 543 Centrol 13 (800) 2 (9.3 x) 0 0 0 0 No. Control 15 (800) 2 (9.3 x) 0 0 0 0 No. Control 15 (800) 0 0 0 0 0 0 0 Callularity WO HCC 0 0 5 (83.3k) 1 (67k) 110 (67k) 110 (73k) 9 (67k) 110 (73k) 9 (90k) 110 (73k) 9 (40k) 110 (73k) 9 (40k) 110 (73k) 111 (73k) 9 (40k) 1 (67k) 111 (73k) 9 (40k) 1 (67k) 111 (73k) 9 (40k) 1 (67k) </th <th></th> <th></th> <th></th> <th colspan="4">Score</th> <th></th>				Score				
Control 7,46,7% 8,153.3 0 0 0 0 7.75 7.75 11 (173.3) 0 10 7.75 7.75 11 (173.3) 0 10 7.75 7.75 11 (173.3) 0 10 7.75 7.75 11 (173.3) 0 10 7.75 7.75 11 (173.3) 0 10 7.75	Cytologic Feature	Diagnosis	0	1	2	3	U*	P†
Blood in background	Proteinaceous debris						54.5	.01
Control 0								
Bile casts							107	375
Control 13 86 / 75 2 63 / 32 1 6 / 73 0 0 0 0 0 0 0 0 0							102	543
Necrosis							103	343
Control 15 100% 0 0 0 0 0 0 0 0 0	Nacmele						_	016
Cellularity	Necrosis						-	.010
Control O 1 (6.7% 4 (26.7%) 10 (66.7%) 111.5 964	Callidada						***	
Trabecular arrangements	Celuanty						110	.9
Control Control Control Control Control Control Signary Sign	Tehanila venananis						****	064
Rows of cuboldal cells	rrabecuar arrangements						111.5	.904
Control S (93.3%) 7 (46.7%) 2 (13.3%) 1 (6.7%) 1 (6.7%) 0 82.5 0.35 0.00 1 (6.7%) 0 0 0 0 0 0 0 0 0	Davis of substitute adds						92.5	100
Admar arrangements	NOWS OF CADOTCAL CIES						92.5	.107
Control 15 (100% 0	Admeranament						92.5	035
Palicading arrangements	Admir arrangements						Q/.5	D35
Dissociation							52.5	001
Dissociation	Paisaung arangemens						34.5	.001
Control 12 (80% 2 (13.3%) 1 (6.7%) 0 0 0 0 0 0 0 0 0	Dissociation						16.5	000
Fibrosis							10.5	.000
Fibrosis WD-HCC 8 (\$3.3%) 5 (\$3.3%) 1 (6.7%) 1 (6.7%) 79.5 098 Capitlairies WD-HCC 10 (\$6.7%) 3 (20%) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
Control 12 (80% 3 (20% 0 0 0 0 0 0 0 0 0	Elheneir						70.5	000
Capitlaries WD-HCC 10 (66.7%) 3 (20%) 1 (6.7%) 1 (6.7%) 75 .016 Control 15 (00%) 0 0 0 0 Control 15 (00%) 0 0 0 0 Control 7 (46.7%) 8 (53.3%) 0 0 0 0 Control 7 (46.7%) 8 (53.3%) 0 0 0 43 .002 Control 2 (13.3%) 5 (63.3%) 0 0 0 43 .002 Control 12 (80%) 2 (33.3%) 1 (6.7%) 1 (6.7%) 1 (6.7%) Control 12 (80%) 2 (33.3%) 0 1 (6.7%) Control 3 (20%) 2 (33.3%) 0 1 (6.7%) Control 3 (20%) 2 (33.3%) 0 0 67.5 0.47 Control 3 (20%) 2 (33.3%) 0 0 0 67.5 0.47 Control 3 (20%) 2 (33.3%) 0 0 0 67.5 0.47 Control 10 (66.7%) 3 (20%) 2 (13.3%) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PEROSE						77.3	DAO
Control 15 (100%)	Capillades						75	016
Cytoplasmic basophila	Capacites						-	-0.0
Control 7 (46.7% 8 § 5.3%) 0 0 0 43 .002	Cytoplasmic basophilia						90	277
Lipofuscin	су жрагать, окторина						-	
Control 2 (13.3%) 5 (3.3%) 7 (46.7%) 1 (6.7%)	Lipofuscin						43	.002
Lipidosis	- portuguis						-	
Vacualar change (glycogentype)	Lipidosis						84	155
Vacuolar change (glycogentype) WD HCC Control 8 (53.3%) 5 (83.3%) 2 (13.3%) 0 67.5 0.47 Cytoplasmic inclusions WD HCC Control 15 (80%) 1 (6.7%) 2 (13.3%) 0 90 0.73 Arisocytosis WD HCC Control 15 (80%) 7 (46.7%) 3 (20%) 0<								
Control 3 (0%) 7 (46.7%) 3 (20%) 2 (13.3%)	Vacuolar change (glycogen type)						67.5	047
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Control 15 (100%) 0 0 0 0 0 0 0 0 0	Cytoplasmic Indusions						90	073
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Control 10 (66.74) 5 (8.3.34) 0 0 0	Agisnovinsis				3 (20%)		67.5	.038
Increased NiC ratio	Altacyana					0		
Control 13 (86.74) 2 (13.34) 0 0 0 Anisokaryosis WO-HCC 5 (33.34) 10 (66.74) 0 0 0 45 .004 Control 14 (98.34) 1 (6.74) 0 0 Chromatin pattern WO-HCC 0 12 (808) 3 (208) 0 90 0.73 Control 0 15 (1008) 0 0 Irregular nuclear shapes WO-HCC 11 (73.38) 4 (26.74) 0 0 0 Nuclear psieudoinclusions WO-HCC 12 (809) 3 (209) 0 0 0 Nuclear psieudoinclusions WO-HCC 12 (809) 3 (209) 0 0 0 Control 11 (73.38) 4 (26.74) 0 0 Nuclear eccentricity WO-HCC 7 (46.74) 8 (53.38) 0 0 75 126 Control 2 (13.34) 13 (86.74) 0 0 Multiple nuclei (3 or more) WO-HCC 6 (403) 7 (46.74) 2 (13.38) 0 46 .000 Control 15 (1009) 0 0 0 Mitotici gures WO-HCC 13 (86.74) 2 (13.38) 0 0 0 97.5 .15 Control 15 (1009) 0 0 0 0 Mitotici gures WO-HCC 13 (86.74) 2 (13.38) 0 0 0 0 Control 15 (1009) 0 0 0 0 Control 15 (1009) 0 0 0 0 Mitotici gures WO-HCC 13 (86.74) 2 (13.38) 0 0 0 0 Control 15 (1009) 0 0 0 0 0 Control 15 (1009) 0 0 0 0 0 Control 15 (1009) 0 0 0 0 Control 15 (1009) 0 0 0 0 0 0 Control 15 (1009) 0 0 0 0 0 0 0 Control 15 (1009) 0 0 0 0 0 0 0 0 0	Increased N.C ratio						27.5	.000
Anisokaryosis WD-HCC 5 (33.3%) 10 (66.7%) 0 0 45 .004 Control 14 (93.3%) 1 (6.7%) 0 0 0 Chromatin pattern WD-HCC 0 12 (80%) 3 (20%) 0 90 .073 Control 0 15 (100%) 0 0 0 Irregular nuclear shapes WD-HCC 11 (73.3%) 4 (26.7%) 0 0 0 90 .148 Control 14 (93.3%) 1 (6.7%) 0 0 0 .00 Nuclear ps eudoinclusions WD-HCC 12 (80%) 3 (20%) 0 0 105 .671 Control 11 (73.3%) 4 (26.7%) 0 0 0 .00 Nuclear escentricity WD-HCC 7 (46.7%) 8 (53.3%) 0 0 75 .126 Control 2 (13.3%) 13 (86.7%) 0 0 .00 Multiple nuclei (3 or more) WD-HCC 6 (40.%) 7 (46.7%) 2 (13.3%) 0 46 .000 Mitoticit gures WD-HCC 13 (86.7%) 0 0 0 .00 Mitoticit gures WD-HCC 13 (86.7%) 0 0 0 97.5 .15								
Control 14 (98.3a) 1 (6.7b) 0 0 0	Artisokaryosis						45	.004
Chromatin pattern WD-HCC Control 0 12 (80%) 3 (20%) 0 90 0.73 Irregular nuclear shapes WD-HCC 11 (73.3%) 4 (26.7%) 0 0 90 .148 Nuclear ps eudoinclusions WD-HCC 12 (80%) 3 (20%) 0 0 105 671 Nuclear eccentricity WD-HCC 7 (46.7%) 8 (53.3%) 0 0 75 .126 Multiple nuclei (3 or more) WD-HCC 6 (40%) 7 (46.7%) 2 (13.3%) 0 0 45 .000 Mitoticingures WD-HCC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15								
Control O 15 (100k) O O	Chromatin pattern				3 (20%)	0	90	.073
Irregular nuclear shapes			0			0		
Control 14 (98.38) 1 (6.7%) 0 0	Imegular nuclear shapes		11 (73.3%)		0	0	90	.148
Control 11 (73.3%) 4 (76.7%) 0 0 0		Control	14 (98.3%)	1 (6.7%)	0	0		
Nudear eccentricity WD-HDC 7 (46.7% 8 53.3%) 0 0 75 .126 Control 2 (13.3% 13 (86.7%) 0 0 Multiple nuclei (3 or more) WD-HDC 6 (40%) 7 (46.7%) 2 (13.3%) 0 45 .000 Control 15 (100%) 0 0 0 Mitoticifigures WD-HDC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15 Control 15 (100%) 0 0 0	Nudear ps eudoinclusions	WD-HCC	12 (80%)	3 (20%)	0	0	105	671
Nudear eccentricity WD-HCC 7 (46.7% 8 §3.3%) 0 0 75 .126 Control 2 (13.3% 13 (86.7%) 0 0 Multiple nuclei (3 or more) WD-HCC 6 (H0%) 7 (H6.7%) 2 (13.3%) 0 45 .000 Control 15 (100%) 0 0 0 Mitoticifigures WD-HCC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15 Control 15 (100%) 0 0 0		Control	11 (73.3%)	4 (26.7%)	0	0		
Multiple nuclei (3 or more) WD-HCC 6 #03) 7 #6.7% 2 (13.3%) 0 45 .000 Control 15 (10.0%) 0 0 0 0 Mitotic figures WD-HCC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15 Control 15 (10.0%) 0 0 0 0 0	Nuclear eccentricity				0	0	75	.126
Multiple nuclei (3 or more) WD-HCC 6 #03) 7 #6.7% 2 (13.3%) 0 45 .000 Control 15 (10.0%) 0 0 0 0 Mitotic figures WD-HCC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15 Control 15 (10.0%) 0 0 0 0 0		Control	2 (13.3%)	13 (86.7%)	0	0		
Mitoticfigures WD-HCC 13 (86.7%) 2 (13.3%) 0 0 97.5 .15 Control 15 (100%) 0 0 0	Multiple nuclei (3 or more)	WD-HCC			2 (13.3%)	0	45	.000
Control 15 (100%) 0 0 0		Control	15 (100%)	0	0	0		
Control 15 (100%) 0 0 0	Mitoticfigures	WD-HCC	13 (86.7%)	2 (13.3%)	0	0	97.5	.15
					0	0		
								- P

(continued)

ORIGINAL RESEARCH

Retrospective study of cytologic features of well-differentiated hepatocellular carcinoma in dogs

Carlo Masserdotti¹, Michele Drigo²

¹San Marco Private Veterinary Laboratory, Padua, Italy; and ²Department of Animal Medicine, Production and Health, Padua University, Padua, Italy

Vet Clin Pathol 0/0 (2012) 1-9@2012 American Society for Veterinary Clinical Pathology

Table 2 (continued)

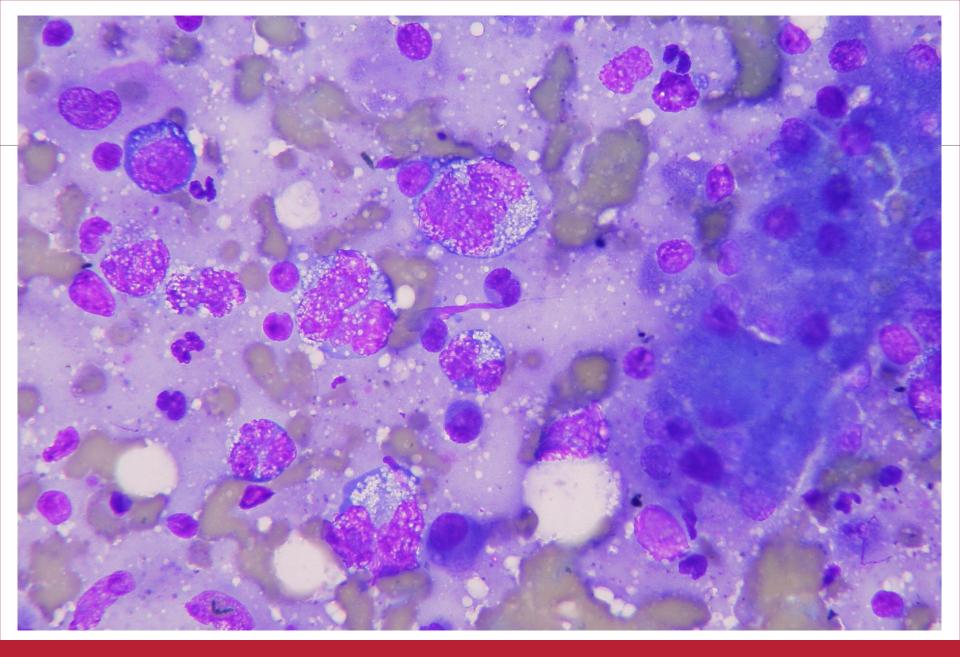
Cytologic Feature		Score					
	Diagnosis	0	1	2	3	U*	P†
Nudeoli	WD-HCC	7 (46.7%)	2 (13.3%)	6 (40%)	0	66	.024
	Control	12 (80%)	3 (20%)	0	0		
Naked nudel	WDHCC	0	4 (26.7%)	5 (33.3%)	6 (40%)	2	.000
	Control	14 (93.3%)	1 (6.7%)	0	0		
Neutrophilic inflammation	WD-HCC	7 (46.7%)	8 (53.3%)	0	0	55	.008
	Control	2 (13.3%)	8 (53.3%)	5 (33.3%)	0		
Macrophagic Inflammation	WD-HCC	3 (20%)	12 (80%)	0	0	96	.406
	Control	6 (40%)	8 (53.3%)	1 (6.7%)	0		
Lymphoplasmacytic inflammation	WDHCC	10 (66.7%)	4 (26.7%)	1 (6.7%)	0	84.5	.19
	Control	6 (40%)	8 (53.3%)	1 (6.7%)	0		
Eosinophilic inflammation	WD-HCC	13 (86.7%)	2 (13.3%)	0	0	105	.55
	Control	14 (93.3%)	1 (6.7%)	0	0		
Mast cells	WDHCC	11 (73.3%)	4 (26.7%)	0	0	60	.017
	Control	15 (100%)	0	0	0		





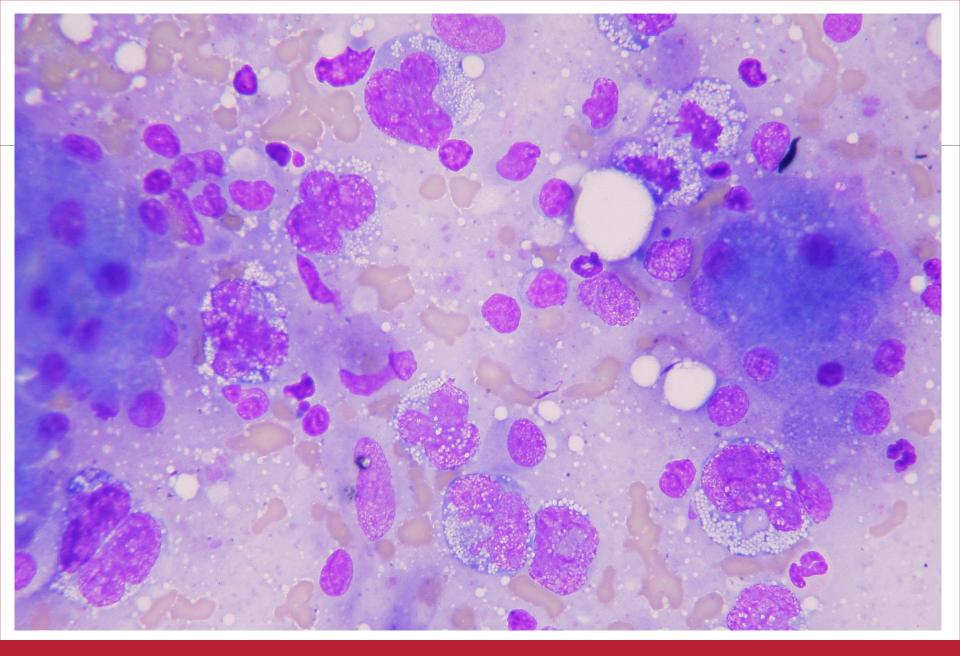
- Dog, mongrel, 9-years-old
- Liver enlargement
 - Ultrasound-guided FNCS of the mass
 - MGG stain





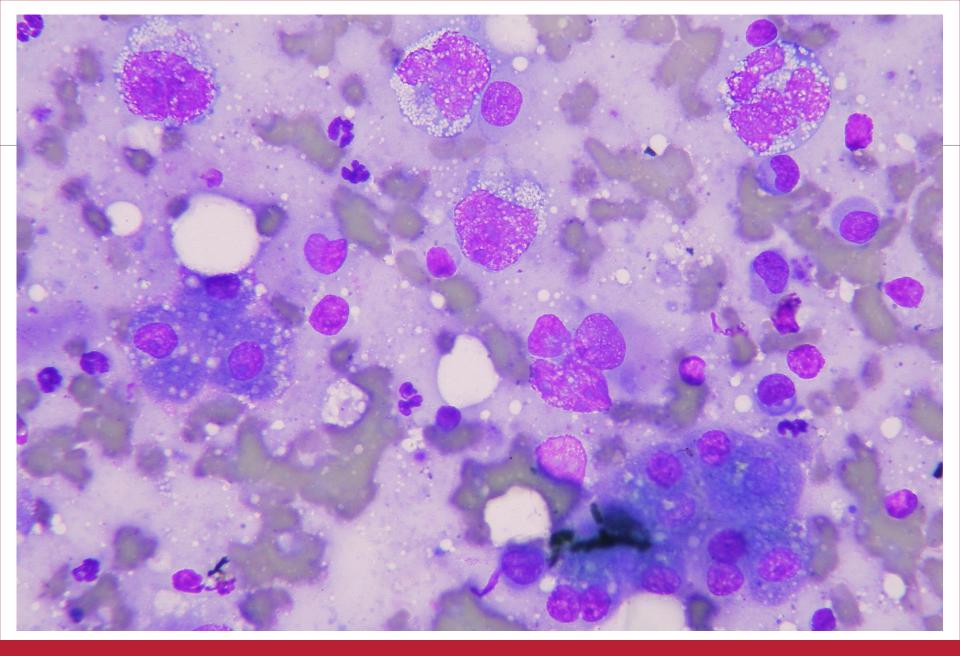
















- Large round atypical cells
 - Basophilic cytoplasm
 - Microvacuoles
 - Large nucleus
 - Irregularly lobulated shape
 - Multiple nuclei
 - Clumped chromatin
 - Macronucleoli
- Biliary casts among hepatocytes (cholestasis)
- Slight reversible non specific hepatic damage

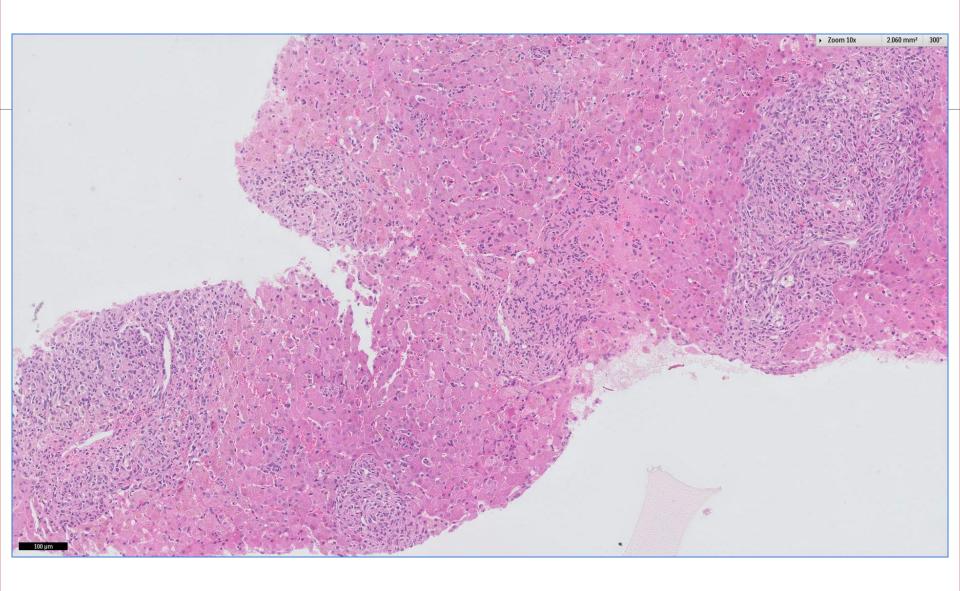




 Round cell malignant neoplasm, histiocytic origin, with liver involvement

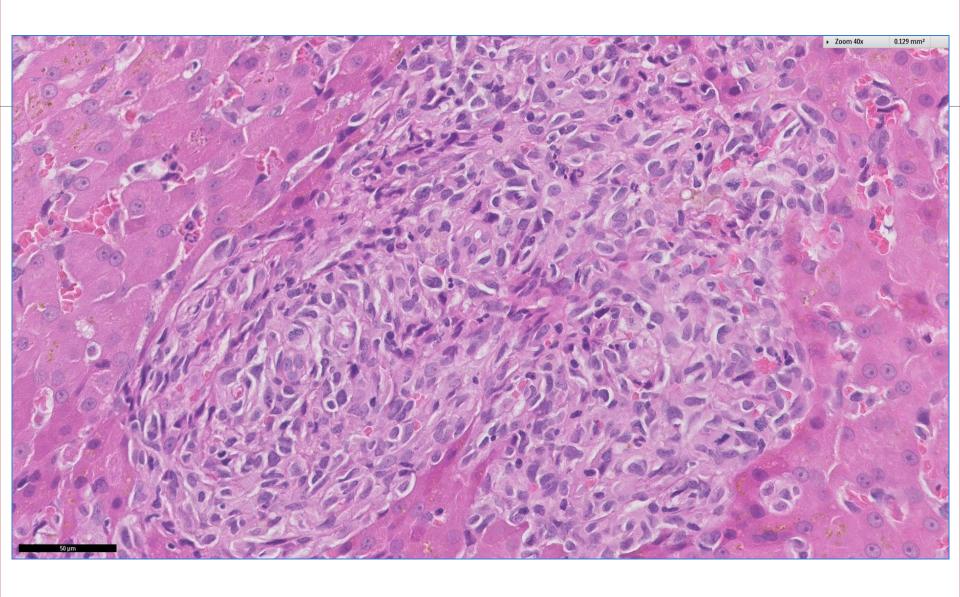
- Histologic diagnosis:
 - Malignant histiocytosis, with hepatic, splenic and lymphnodal involvement





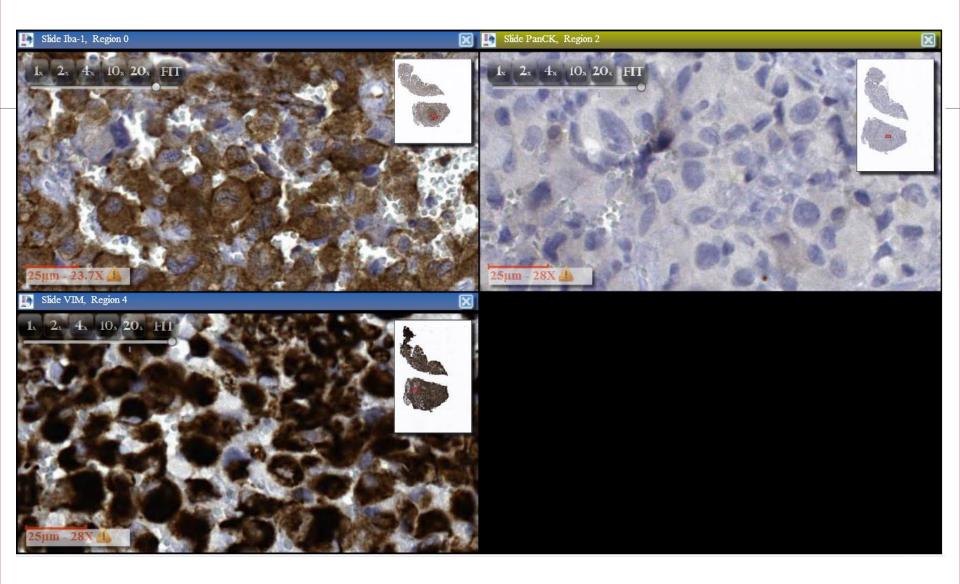








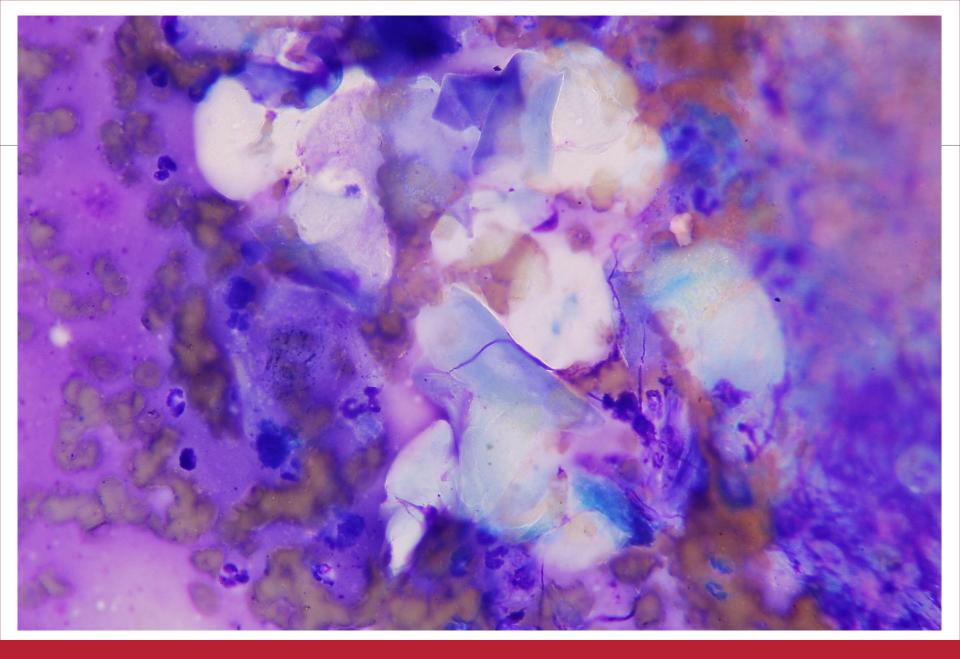






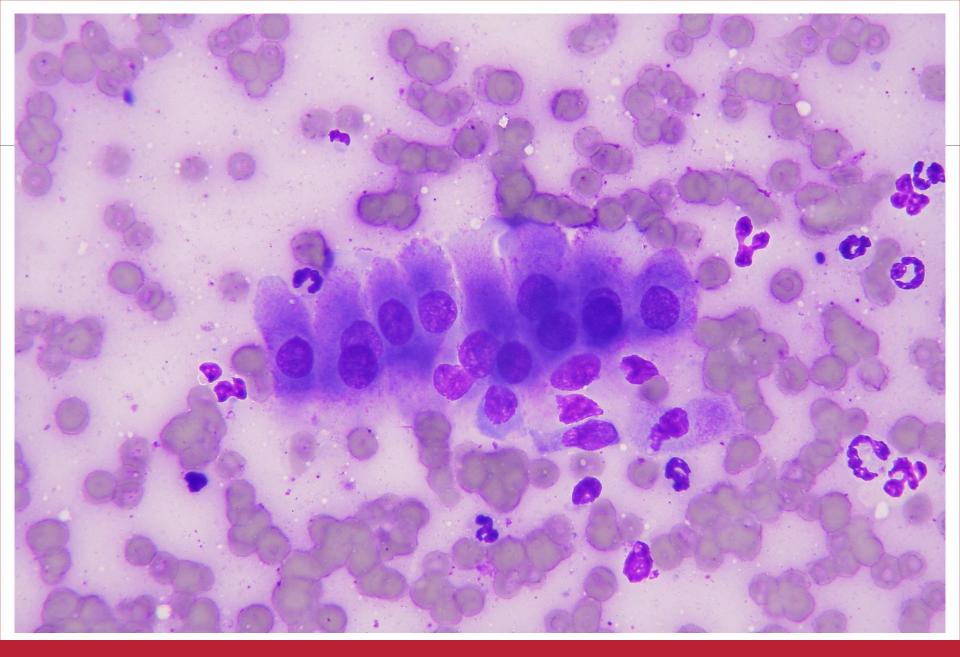
- Dog, Dalmatian, 7-years-old
- Nodule on the carpus
- FNCS of the mass
- MGG stain





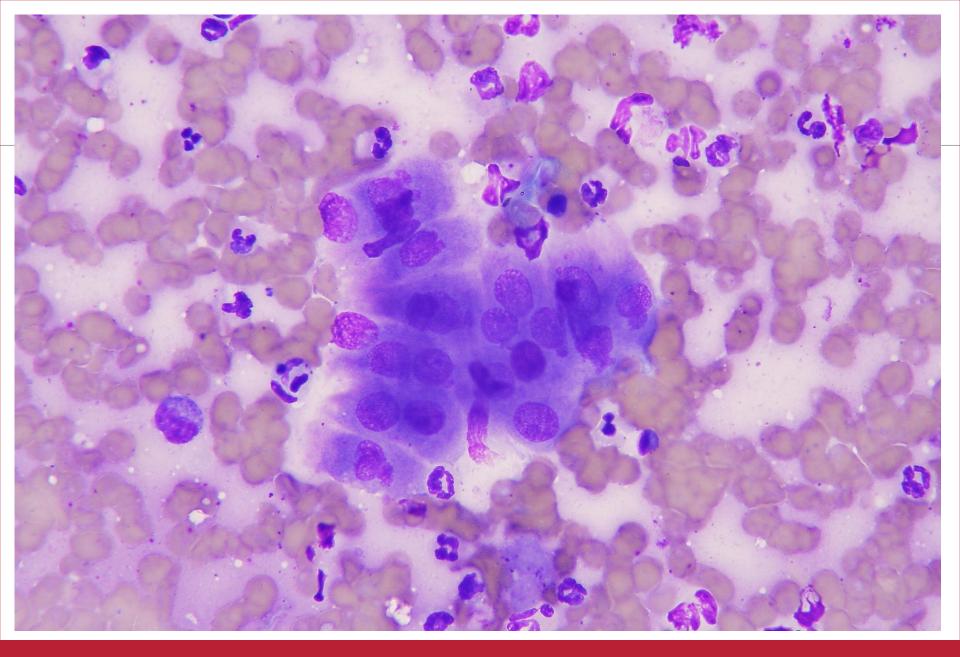






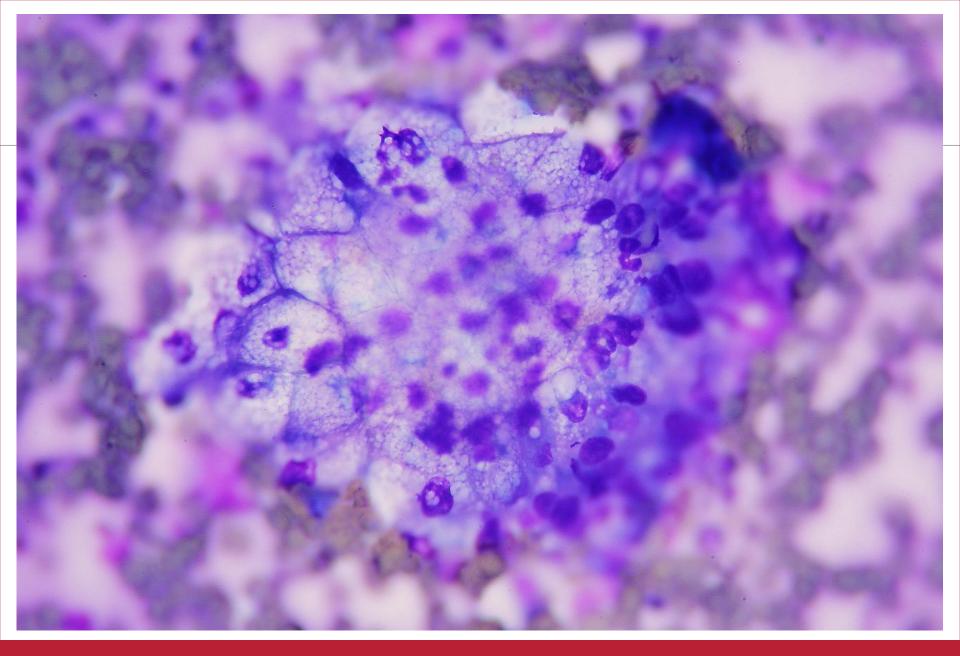














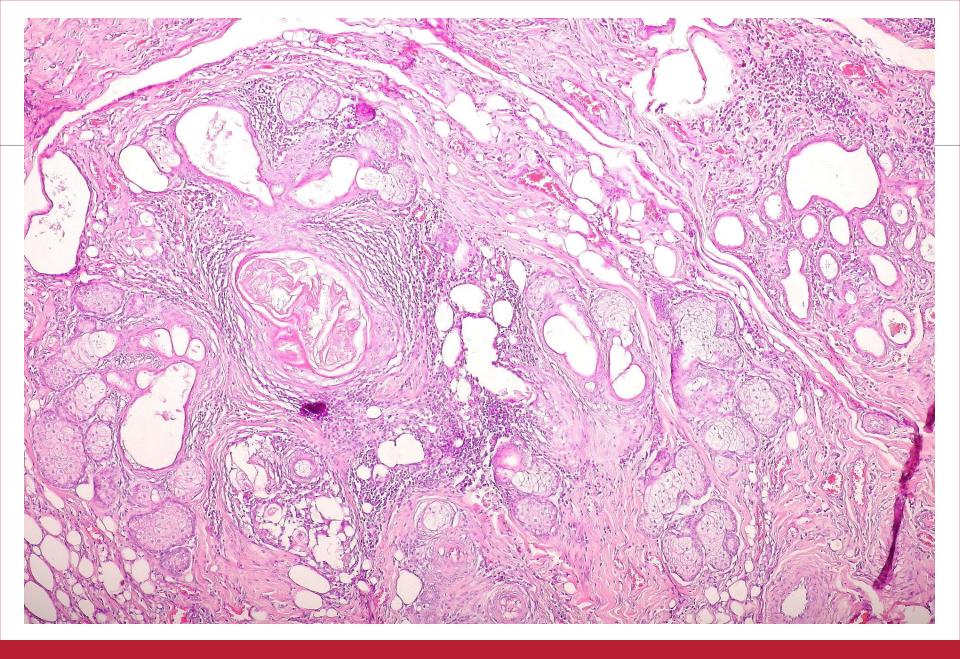


- Epithelial cells of many origin:
 - Squamous anucleated cells (keratin)
 - Apocrine cells
 - Cuboid to columnar cell
 - Palisade arrangements
 - Sebaceous cells
 - Cytoplasm filled with microglobules of lipidic (sebaceous) origin
 - Tridimensional clusters
- Inflammatory cells on the background



- Benign epithelial proliferation with secundary inflammation, probably adnexial hamartoma
- DD:
- Benign apocrine tumor
- Histologic diagnosis
- Adnexial hamartoma



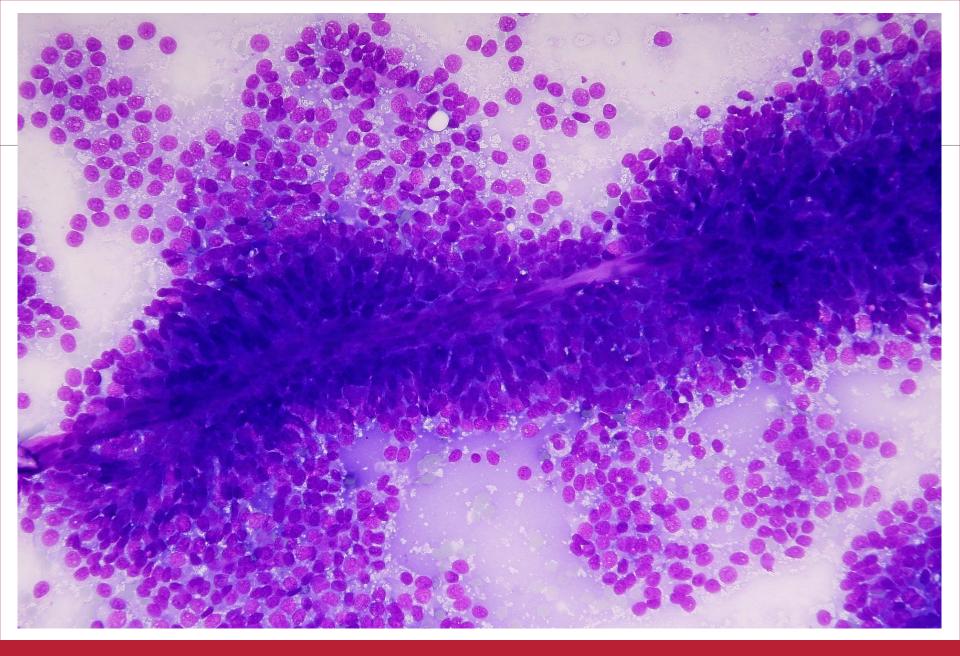






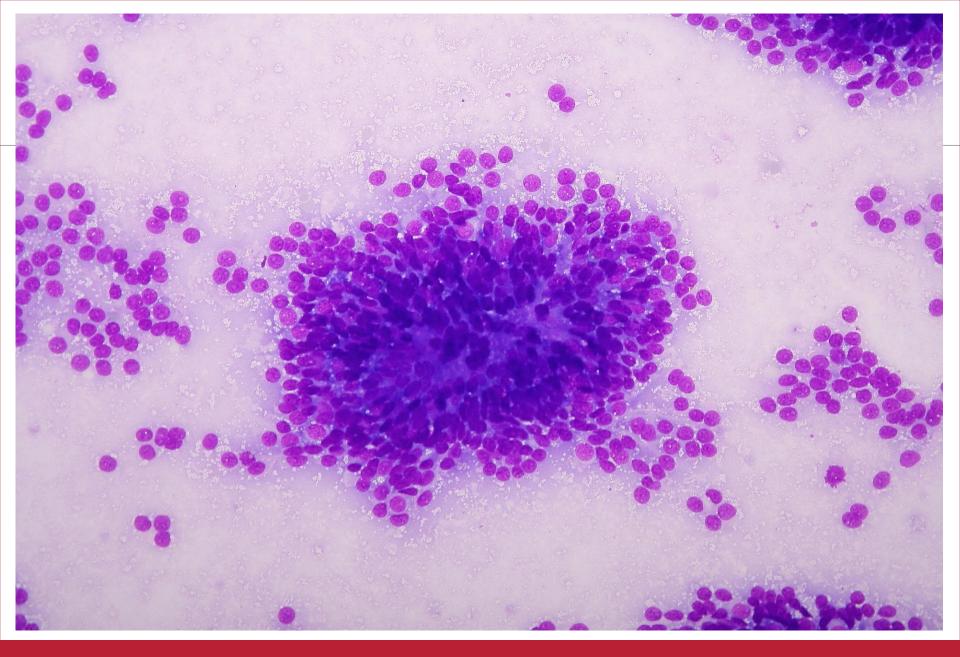
- Dog, Chow-Chow, 12 years-old, female
- Mass in abdomen
 - Ultrasound-guided FNCS of the mass
 - MGG stain





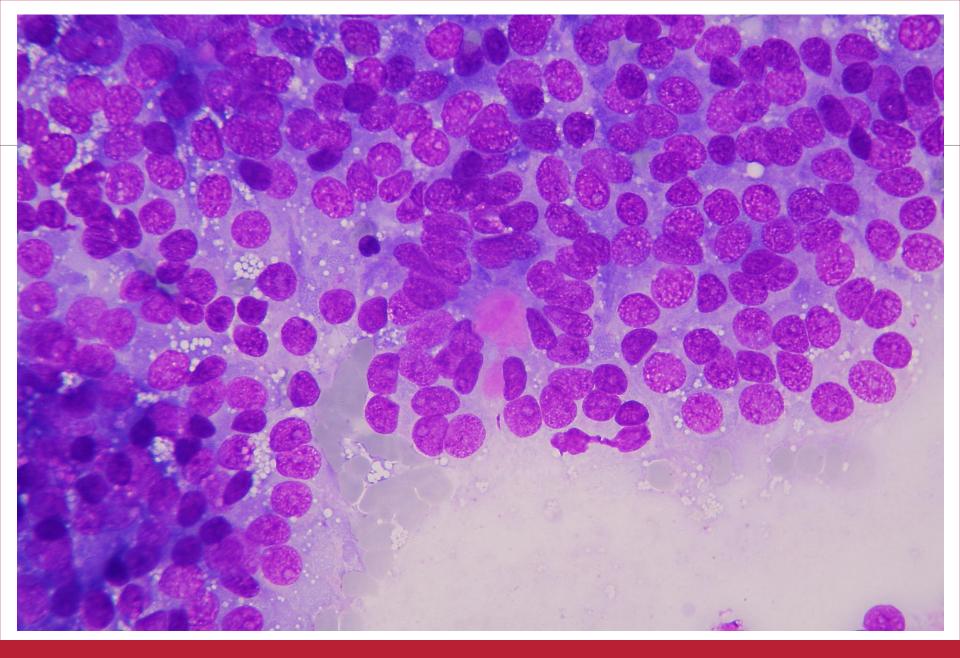
















- Many «epithelial» cells
 - Indistinct cytoplasm
 - Microvacuoles
 - Round to ovoid nucleus
 - Granular chromatin
- Large sheets of cells
 - Perivascular arrangement
 - «Microacinar» arrangement suggestive of the so called «Call-Exner bodies»

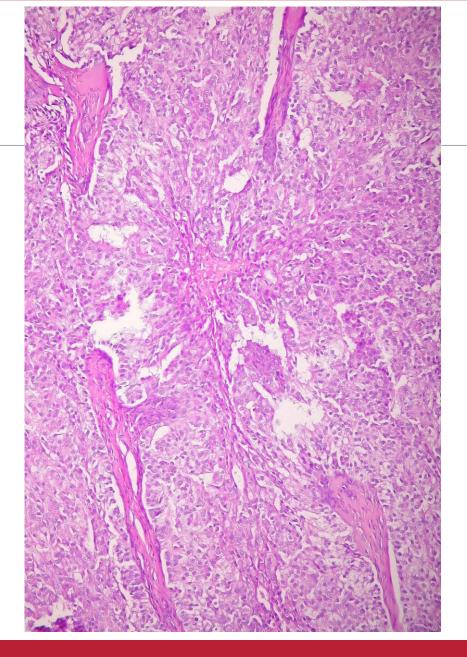


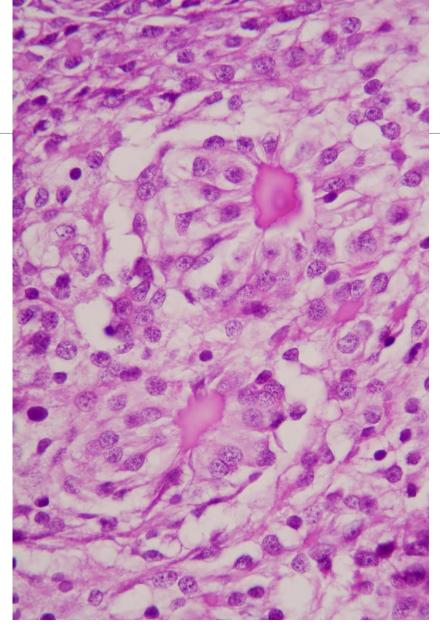
 Neoplasm of gonadostromal origin, suggestive of granulosa cell tumor of ovary

Histologic diagnosis:

Granulosa cell tumor











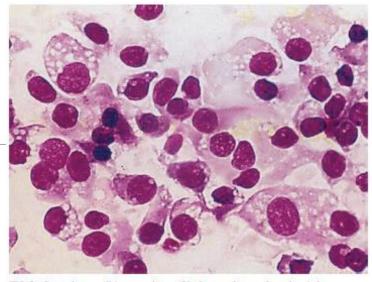


FIG 3. Granulosa cell tumour (case 9). A monolayer of moderately atypical and loosely cohesive granulosa cells, with a variable amount of eosinophilic and vacuolated cytoplasm, is present. Hemacolor. $\times 1000$



FIG 4. Granulosa cell tumour (case 9). Granulosa cells are arranged in an acinar pattern surrounding an amorphous eosinophilic extracellular material (Call-Exner-like bodies). Hemacolor. × 1000

Cytological features of canine ovarian tumours: a retrospective study of 19 cases

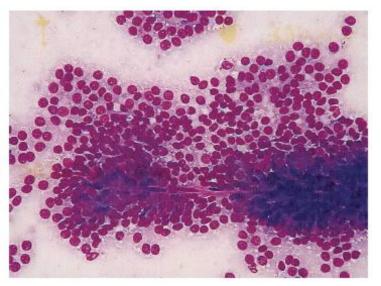
W. Bertazzolo, M. Dell'Orco,

U. Bonfanti*, D. DeLorenzi†,

C. Masserdotti†, B. De Marco§,

M. Caniatti¶ and P. Roccabianca¶

FIG 5. Granulosa cell tumour (case 15). In large clusters, granulosa cells appear occasionally superimposed and capillaries are present among them. May-Grünwald-Giemsa. × 400



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Cytologic detection of Call-Exner bodies in Sertoli cell tumors from 2 dogs

Carlo Masserdotti, Davide De Lorenzi, Lisa Gasparotto

Laboratorio D'Analisi S. Marco, Padova, Italy

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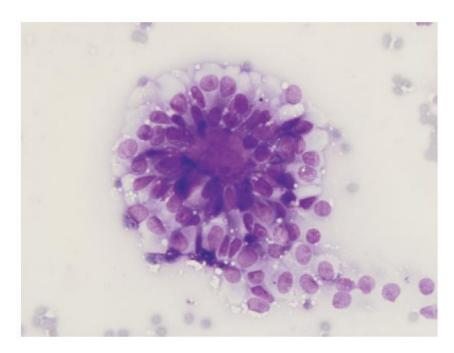


Figure 1. Fine-needle aspirate of a testicular mass from a dog. A large cluster of round to elongated cells is arranged in a rosette around deeply eosinophilic, hyaline material, consistent with a Call-Exner body. May-Grunwald-Giemsa, \times 40 objective.

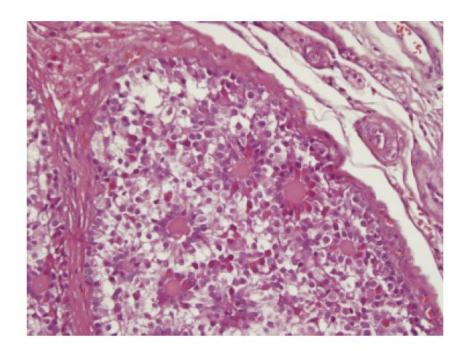


Figure 2. Histologic section of the Sertoli cell tumor, in which neoplastic cells are arranged around many round eosinophilic Call-Exner bodies. H&E, \times 20 objective.



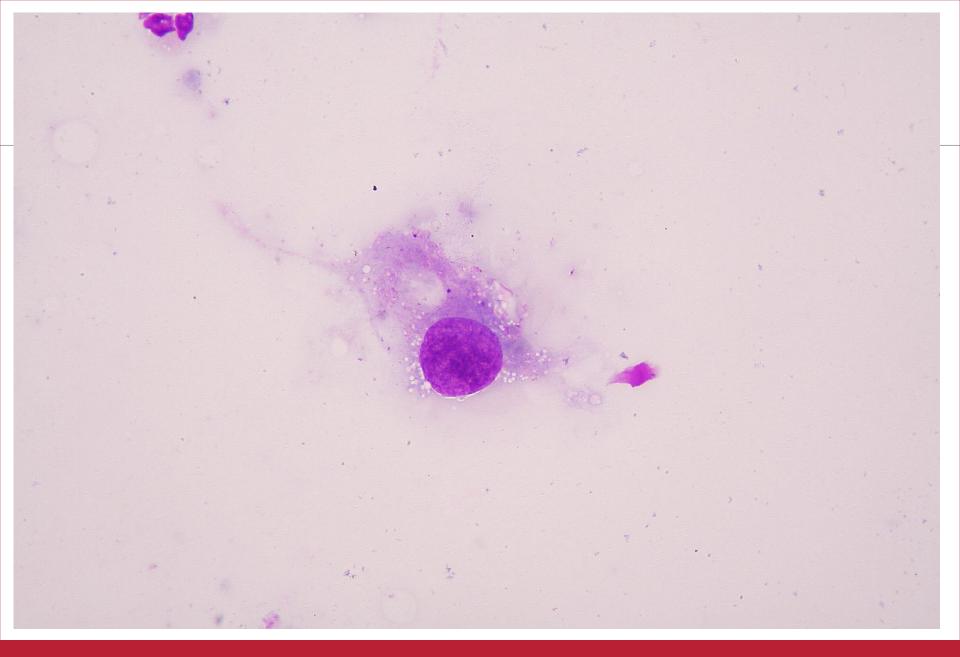
- Dog, Boxer, 10-years-old
- Mass on the spleen and peripheral blood smear
- Ultrasound-guided FNCS of the mass
- Diff-Quick stain of the blood smear
- MGG stain of the mass





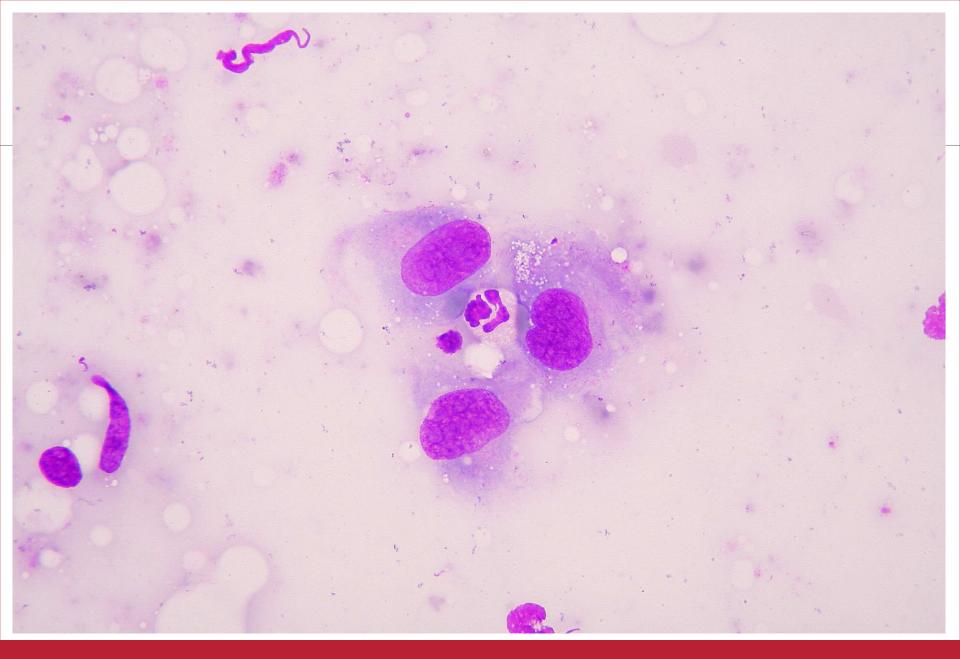






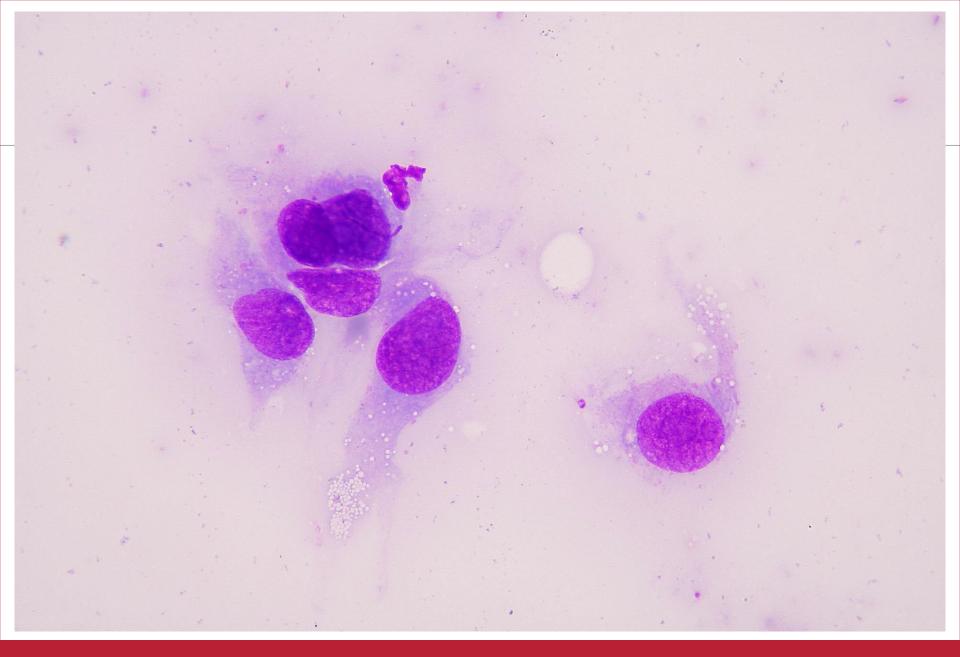
















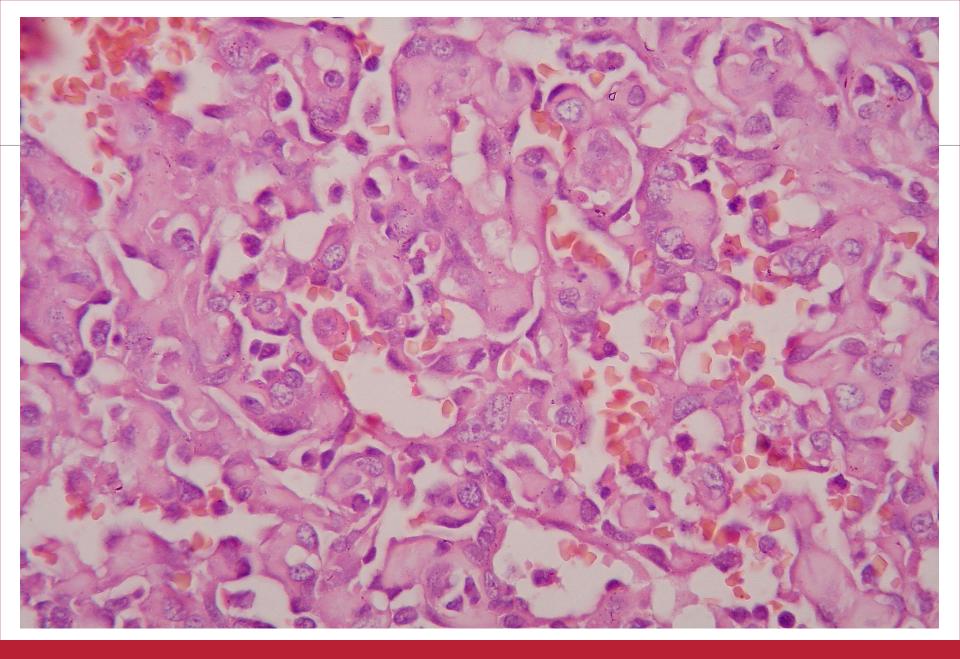
Blood:

- Some schistocytes
- Rare acantocytes

Spleen:

- Bloody background
- Rare atypical spindle cells
- Some «vascular space»









Canine angiosarcoma: cytologic, histologic, and immunohistochemical correlations

Walter Bertazzolo, Marta Dell'Orco, Ugo Bonfanti, Gabriele Ghisleni, Mario Caniatti, Carlo Masserdotti, Elisa Antoniazzi, Luca Crippa, Paola Roccabianca

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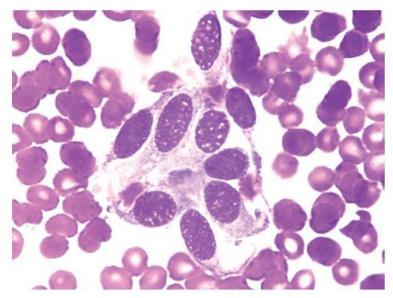


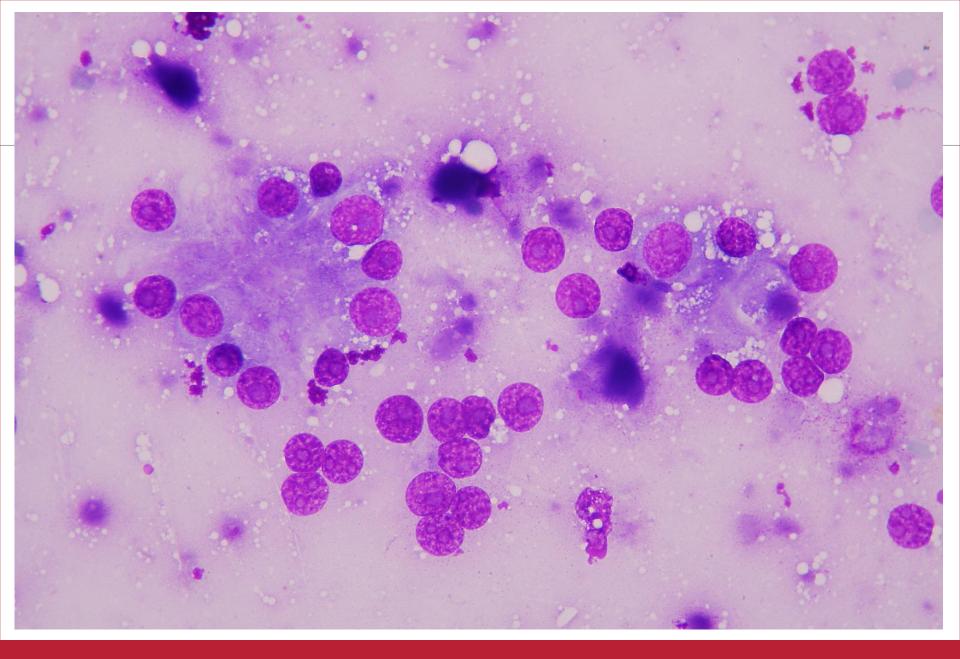
Figure 5. Pseudoacinar arrangement of neoplastic cells from a poorly differentiated sarcomatous angiosarcoma (case 8). Hemacolor, $\times 100$ objective.

Pseudoacinar structures were observed in cytologic specimens from 7 cases (4 from the sarcomatous subgroups and 3 from the epithelioid subgroup) (Figure 5). On the basis of the pseudoacinar arrangements, these 7 cases were considered to have vasoformative features. ¹² In 1 specimen (case 8) these structures were numerous, whereas in the other 6 specimens (cases 1, 2, 9, 11, 12, and 19) they were sparse.



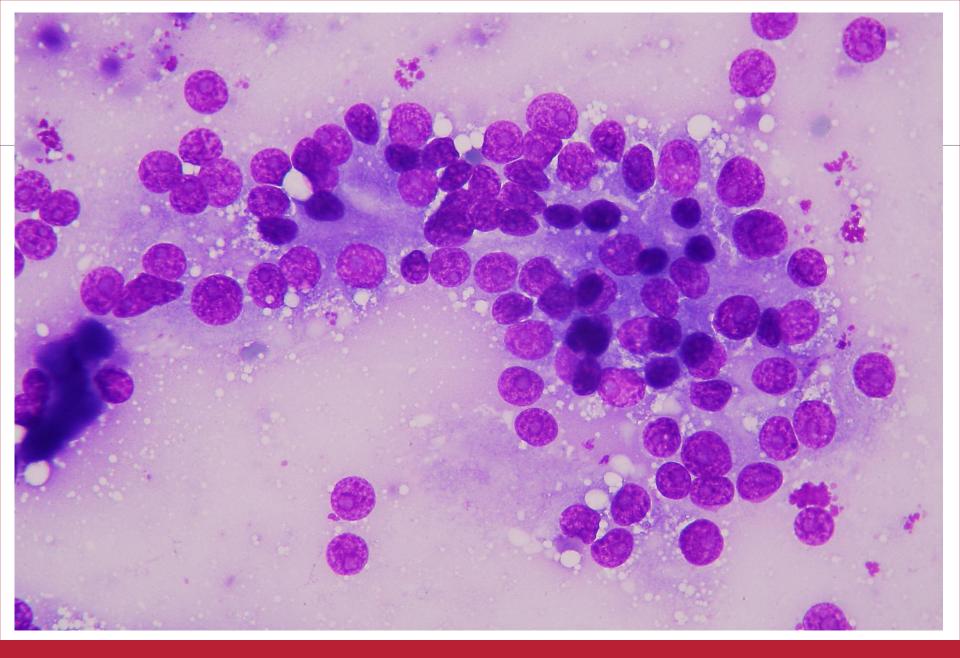
- Cat, DSH, 11 years-old, male
- · Mass in abdomen, localized in intestinal wall
 - Ultrasound-guided FNCS of the mass
 - MGG stain









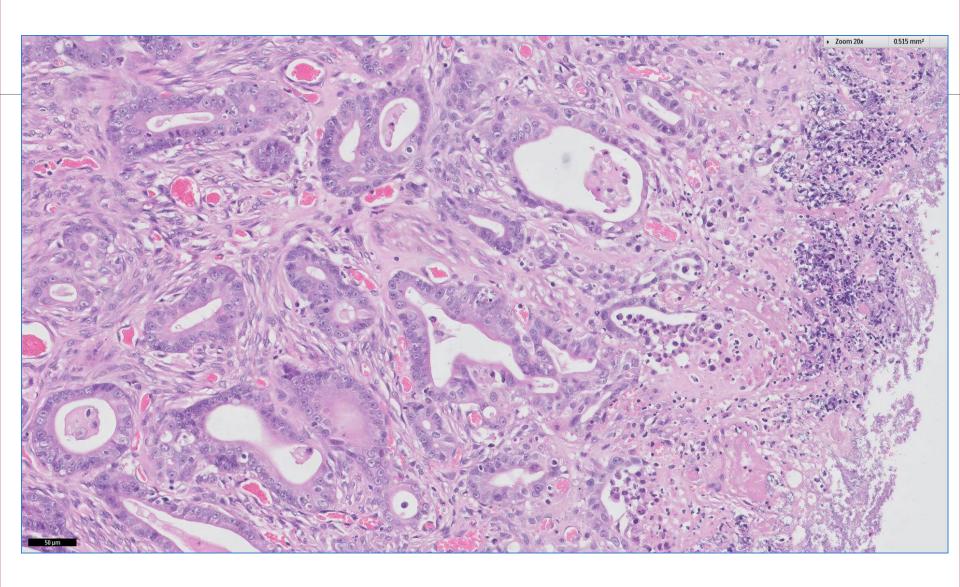






- Epithelial cells
 - Round to columnar shape
 - Microvacuoles
 - Round to ovoid nuclei
- Palisade arrangement
- Tubular arrangement







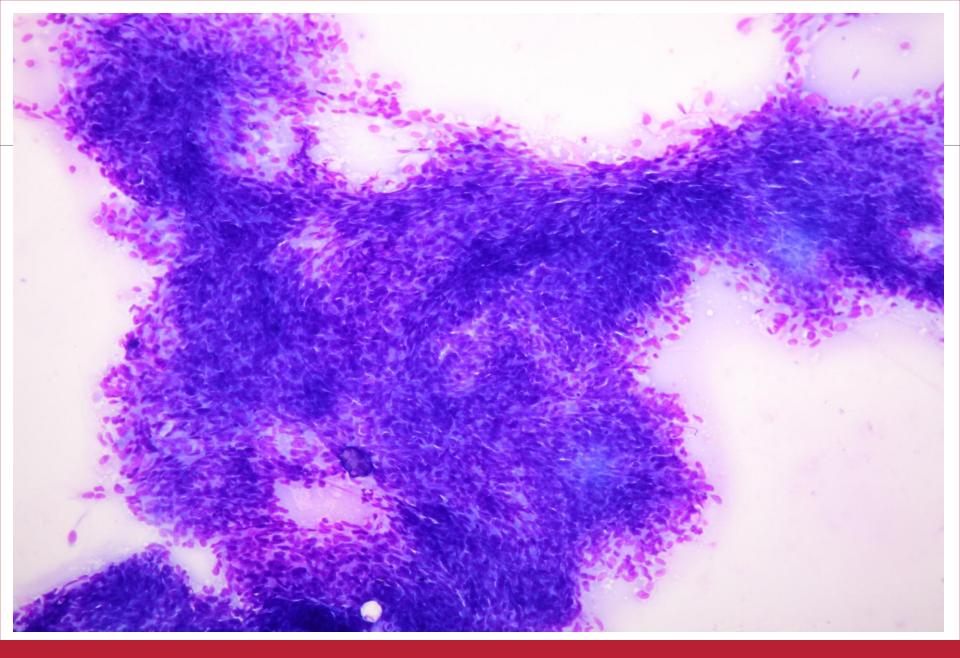


- Intestinal adenocarcinoma
- DD:
- Others «glandular» carcinoma
- Histologic diagnosis:
- Intestinal adenocarcinoma, tubular type



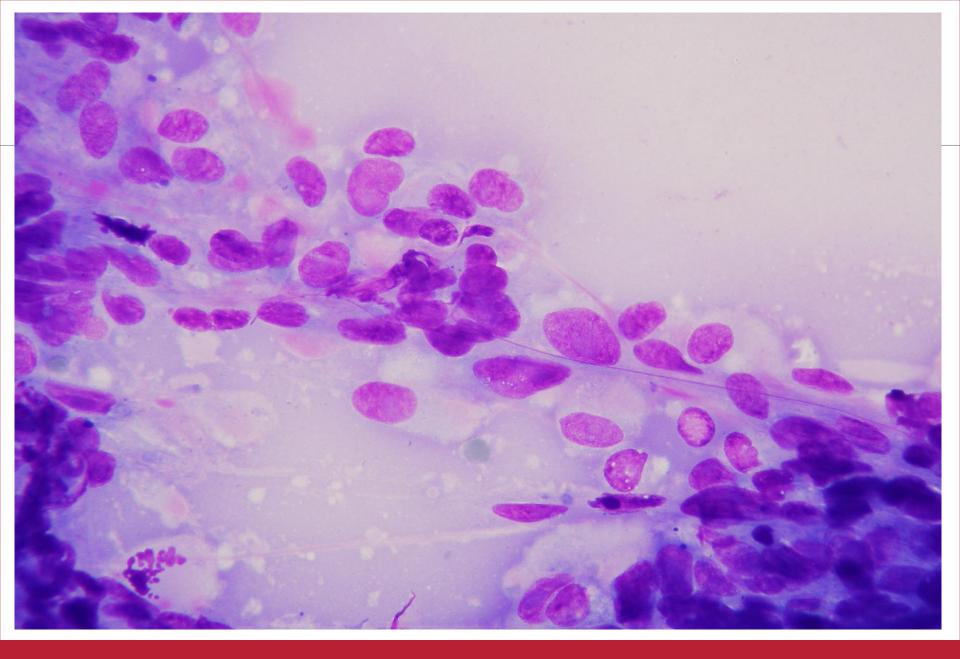
- Cat, DSH, 10-years-old, female
- Enlargement of urinary bladder wall
 - Ultrasound-guide FNCS of the mass
 - MGG stain









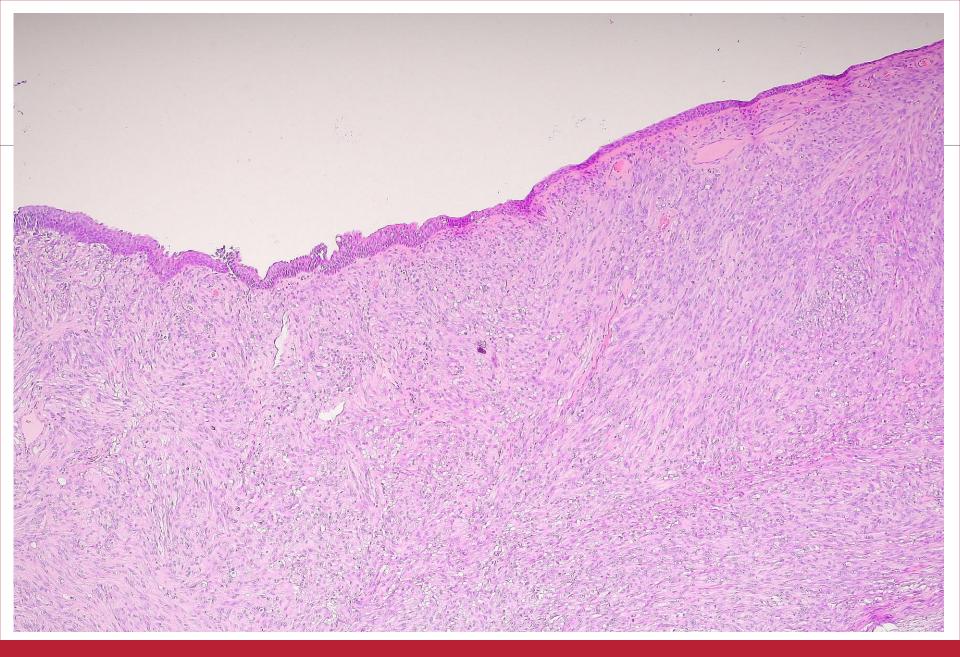






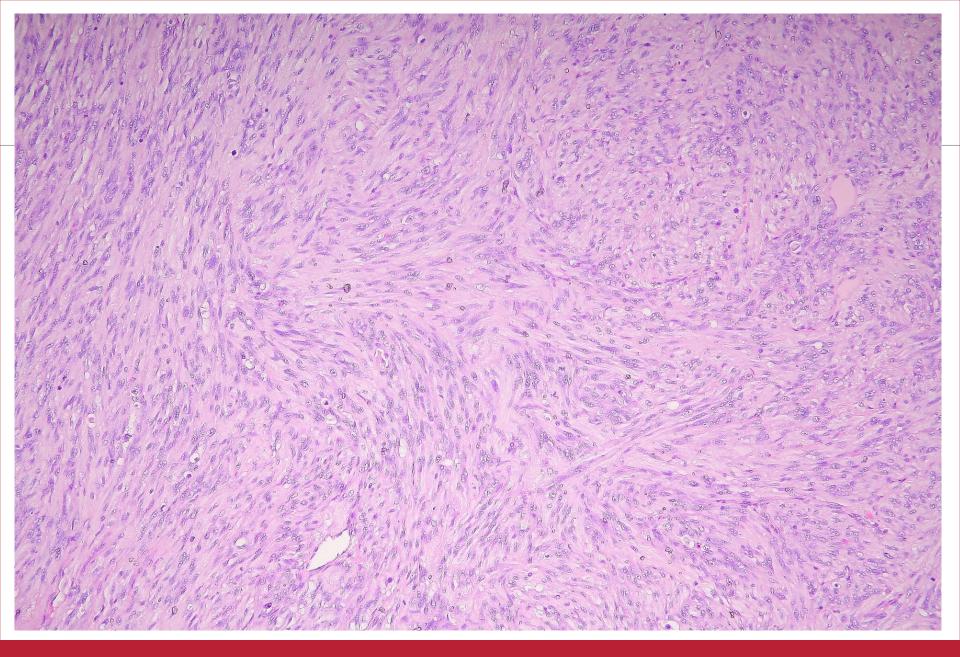
- Many spindle cells
 - Elongated, slight basophilic cytoplasm
 - Ovoid nuclei
- Storiform arrangement















- Urinary wall sarcoma
- DD:
- Rabdhomyosarcoma
- Leiomyosarcoma
- Histologic diagnosis:
- Urinary bladder sarcoma



