2015-035

MEXICAN WOLF NECROPSY PROTOCOL

INSTITUTION/OWNER Wolf Conservation Center
ADDRESS PO BOX 421 /7 BUCK RON
South Salem, NT 10590
CANID SPECIES Mexicon Work ANIMAL ISIS ID # F810
STUD BOOK # F810 SEX F
STUD BOOK # F810 SEX F BIRTH DATE/AGE 4 23 03 WEIGHT # 63 155
REPRODUCTIVE HISTORY:
SHOWN BEHAVIORAL ESTRUS? 405
EVER BRED? <u>Yes</u>
PRODUCED PUPS? No
EVER HOUSED WITH OPPOSITE SEX? 425
DATE OF DEATH 3 10 15 DATE OF NECROPSY 3 10 15
HISTORY: (Briefly summarize clinical signs, circumstances of death.)
was tound dead. Showed no prior chinical
Signs. Necopy yielded closed prometra.

Please have your pathologist perform a histopathology on the tissues. Then send the gross examination worksheets and pathologists report to Dr. Linda Munson, Mexican Wolf SSP® Pathology Advisor; University of California; Department VM-PMI; 1126 Haring Hall, 1 Shields Ave.; Davis, CA 95616; PH: 916-754-7567; Fax: 916-752-3329. Copies of the completed necropsy reports should be faxed to the SSP® Veterinary Advisor Dr. Randi Meyerson at The Toledo Zoo; P.O. Box 140130; Toledo, Ohio, U.S.A., 43609; PH: 419-385-5721, ext. 2052; FX: 419-385-6935; Email: randi@toledozoo.org.

Animal ISIS ID# F810

GROSS EXAMINATION WORKSHEET

PROSECTOR: Do Charie Dutty
GENERAL CONDITION: (Nutritional condition, physical condition) NEONATES: Examine for malformations (cleft palate, deformed limbs, etc.)
SKIN: (Including pinna, feet) Normal Cost + Con outon
MUSCULOSKELETAL SYSTEM: (Bones, joints, muscles) Normal
BODY CAVITIES: (Fat stores, abnormal fluids) NEONATES: Assess hydration (tissue moistness) Moderate FAT Stores + Normal ABDOMINA) Fluid
HEMOLYMPHATIC: (Spleen, lymph nodes, thymus) Spleen Grossly Normal Some Very Small 5-7mm Nodules 10-15
Thymus Not Found RESPIRATORY SYSTEM: (Nasal cavity, larynx, trachea, lungs, regional lymph nodes) NEONATES: Determine if breathing occurred (Do the lungs float in formalin?)
MASAI LANGER Lungs All Norm! CARDIOVASCULAR SYSTEM: (Heart, pericardium, great vessels)
Hemr Normal Peninspin -Vessels Normal

DIGESTIVE SYSTEM: (Mouth, teeth, esophagus, stomach, intestines, liver, pancreas,
mesenteric lymph nodes)
NEONATES: Is milk present in stomach?
Month Normal Esop Wylus Mount Stonach Whatestines all Normal & Liver principles Normal + Nones Normal
all Normal & Liver + Princiens Wormal + Klones Normal
URINARY SYSTEM: (Kidneys, ureters, urinary bladder, urethra)
Kidneys Uneters Blander all Normal

REPRODUCTIVE SYSTEM: (Testis/ovary, uterus, vagina, penis, prepuce, prostate, mammary glands, placenta)

mary glands, placenta)

Large pus Filled userus ourries left Small No Obvious CL

Right Nodulin multiple CL

ENDOCRINE SYSTEM: (Adrenals, thyroid, parathyroids, pituitary)

Cell Normal

NERVOUS SYSTEM: (Brain, spinal cord, peripheral nerves)

Nor recovered

SENSORY ORGANS: (Eyes, ears)

Normal

PRELIMINARY DIAGNOSES:

Pyometra



800-872-1001

Pound Ridge Veterinary Center ANTECH Acct No. 4315

Doctor NOT STATED

Accession No. NYBB05740633 Received 03/12/2015 Reported 03/19/2015 07:22 AM

Owner WOLFCENTER **Pet Name** F810

Species Canine

Breed

Sex

Pet Age

Chart#

Test Requested

Results

11Y

Reference Range

Units

HISTOPATHOLOGY, FULL WRITTEN REPORT

History:

Complete Necropsy. Cause of death - pyometra

1. Bladder, 2. Skin, 3. Lymph Node, 4. Small Intestine, 5, Liver, 6, Stomach. 7. Bone Marrow. 8. Trachea. 9. Right Kidney. 10. Colon. 11. Adrenal. 12. Skeletal Muscle. 13. Lung. 14. Heart. 15. Spleen. 16. Pancreas. 17. Thyroid.

Received: (17) Necropsy tissues.

Biopsy

SOURCE

Necropsy

DESCRIPTION/MICROSCOPIC FINDINGS/COMMENTS:

Microscopic Description:

A necropsy wedge biopsies were received for histopathology. 1. COLON: Small numbers of lymphocytes and plasma cells infiltrate the mucosa, mildly widening the space between colonic glands. The lining epithelium is autolyzed, and there are no abnormalities within the submucosa, muscularis, and serosa.

- 2. LUNG: There are small areas of atelectasis that are characterized by alveolar collapse. Blood vessels throughout the pulmonary parenchyma are congested. There are no abnormalities within the bronchioles.
- 3. SPLEEN: The red pulp contains megakaryocytes and erythroid and myeloid precursors. There are scattered hemosiderophages.
- 4. BONE MARROW: The marrow is hypercellular for an animal this age There is a predominance of myeloid precursors.
- 5. KIDNEY: There are scattered small infiltrates of lymphocytes and plasma cells within the cortex. The glomeruli are mildly expanded by deposition of amorphous eosinophilic material.
- 6. SMALL INTESTINE: There is a mild increase in the number of lymphocytes and plasma cells within the lamina propria. They mildly expand the width of villar tips. No other abnormalities are noted.
- 7. LIVER: Small numbers of lymphocytes and plasma cells surround central veins and infiltrate portal tracts. Toxic neutrophils are present within the sinusoids, and form few small microabscesses.
- 8. ADRENAL GLAND, SKELETAL MUSCLE, HEART, PANCREAS, THYROID GLAND, URINARY BLADDER, MAMMARY GLAND, TRACHEA, STOMACH, & LYMPH NODE: No abnormalities are noted.

Microscopic Findings:

1 MILD TO MODERATE LYMPHOPLASMACYTIC COLITIS (LARGE INTESTINE)

Accession No. NYBB05740633

Doctor NOT STATED Owner WOLFCENTER

Pet Name F810

Test Requested

Results

Reference Range

Units

- 2. MILD ATELECTASIS (LUNG)
- 3. EXTRAMEDULLARY HEMATOPOIESIS AND HEMOSIDEROSIS (SPLEEN)
- 4. HYPERCELLULARITY WITH MYELOID HYPERPLASIA (BONE MARROW)
- 5. MILD MEMBRANOUS GLOMERULONEPHROPATHY AND MILD LYMPHOPLASMACYTIC INTERSTITIAL NEPHRITIS (KIDNEY)
- 6. MILD TO MODERATE LYMPHOPLASMACYTIC ENTERITIS (SMALL INTESTINE)
- 7. MILD LYMPHOPLASMACYTIC CENTRILOBULAR AND PORTAL HEPATITIS WITH SINUSOIDAL TOXIC NEUTROPHILIA AND FEW MICROABSCESSES (LIVER)
- 8. WITHIN NORMAL LIMITS (X 11)

Comment:

- 1 The colon is mildly inflamed. Given that the small intestine is also inflamed, some possible causes include parasitism, food allergy, inflammatory bowel disease, and infection.
- 2. The atelectasis in the lung is mild and likely represents an agonal change.
- 3. The changes in the stomach are common incidental findings.
- 4. The hypercellularity of the marrow and the presence of increased amount of myeloid precursors are likely secondary to the presence of the pyometra.
- 5 Membranous glomerulonephritis can be associated with chronic inflammatory lesions, therefore, I feel the glomerular disease in this case is also the result of the pyometra. The interstitial inflammation is suggestive of possible prior ascending pyelonephritis.
 6 The small intestine is inflamed, as is the colon.
- 7. There is a paparagific reactive benefitie within the life
- 7. There is a nonspecific reactive hepatitis within the liver. Nonspecific reactive hepatitis is seen when there is inflammation elsewhere within the abdominal cavity. The toxic neutrophils and microabscesses are also likely caused by the pyometra.
- 8. The remaining tissues are all microscopically normal. If you have questions or concerns about this case, I can be reached via telephone (410-527-0326) and email (tiffany.scanlon@antechmail.com).

PATHOLOGIST:

Tiffany Scanlon VMD, DACVP



AZA CONTRACEPTIVE PATHOLOGY SURVEY

If no information is available please indicate so in the spaces provided

Submitting Veterinarian DC. Ch	actie Out	4		
Institution: Walt Conserve	ation Con	re C		
Address: POBOX 421 17 13	sucic Ron	Phon	e# (914) 26	
South Salem N	1 10590	E-ma	il resecca av	Musit acc
Species: Hexican Wolf		Sex: M	(F) Body weight (kg): 28.5
SB# 810 Local ID: F8	P10 H	ouse Name:	F810	
Date of birth (D/M/Y) 4/23/03	Date	tract was obtai	ned (D/M/Y)	1 .
Cause of death/ indication for spay/castr	ration Pyon	netra		
Has this animal spent its entire reproductive. For females, according to the animal's Did this animal show signs of estrus wh	s record:		N ceeding ever attempted	42 (V) N
Dates of pregnancies, if any:		was ore		I. Y
				1
CONTRACEPTIVE HISTORY If more space is needed, please use the b		Never contract	epted	g-
		Never contrace Animal weight (kg)	epted Date implanted or administered	Date removed
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OTHER PROBLEMS THAT MAY HAVE AFFECTED REPRODUCTION? (use the back if needed)

Please send tissues and form to: Dr. Dalen Agnew

Attn: Histo Research; Diagnostic Center for Population and Animal Health; 4125 Beaumont Rd.

Lansing, MI USA 48910-8104 Phone: 517-353-1683.

Questions: agnewd/wdcpah.msu.edu or anneke moresco/whotmail.com

Revised June 2010