

Specimen Report



ISIS GAN 27855937

9805

Canis lupus baileyi

Mexican wolf

Order Carnivora

Family Canidae

Start Date Jan 01, 1800

End Date Apr 28, 2015

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Basic Animal Information

Sex - Contraception	Male - Medical method-surgical/Active	Status	Dead
Birthdate - Age	May 02, 1998 - 15Y,8M,23D at the time of death	Preferred ID	9805 / 546
Origin	Endangered Wolf Center	Rearing	Parent
Birth Type	Captive Born	Hybrid Status	Not a hybrid
Sire	MIG12-29853525	Dam	MIG12-28477293
Current Collection	Main Institution Animal Collection	Collection Trip	
Clutch / Litter		Enclosure	

Physical Visit History

Reported By	Date	Source / ID	Holder / ID	Term Type	Recipient / ID
WCSRC	May 02, 1998		WCSRC / 9805	Birth/Hatch (Physical Only)	
WCSRC	Jan 25, 2014			Death (Physical Only)	

Ownership Visit History

Reported By	Date	Source / ID	Owner / ID	Term Type	Recipient / ID
WCSRC	May 02, 1998		USFWS / 546	Birth/Hatch (Physical Only)	

Identifiers

Reported By	Date	Type	Identifier	Location	Comments
WCSRC	Jun 24, 1998	Transponder	00-0097-0F78		
WCSRC	May 02, 1998	Local ID	9805		
WCSRC	May 02, 1998	Studbook Name	APACHE		
WCSRC	May 02, 1998	House Name	Apache		
WCSRC	May 02, 1998	Intl Stdbk#	546		Legacy SLocation: Legacy Comment: 546 "International Studbook Number" from ARKS 2 records

No Permits Found

Sex Information

Reported By	Date	Sex	Comments
WCSRC	May 02, 1998	Male	

Parent Info

In ZIMS	Parent Info	Type / Probability	Birth Date	Reported By
True	MIG12-28477293 [WCSRC / 9602]	Dam/100%	Apr 22, 1987	WCSRC
True	MIG12-29853525 [WCSRC / 9420]	Sire/100%	May 01, 1989	WCSRC

Ancestry Information (calculated by ISIS from shared data)

% Pedigree Known	% Pedigree Certain	Taxonomic Inconsistencies	No. Identified Ancestors
93.75%	93.7500	No	10

Death Information

Reported By	WCSRC	Necropsy Topology	
Death Type	Euthanasia, medical	Necropsy Etiological	
Death Date	Jan 25, 2014	Manner of Death	-
Death In Transit	No	Carcass Disposition	Convert to Sample

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Scientific Name: *CANIS LUPUS BAILEYI* Accession #: 385
Common Name: Mexican wolf Male
Name: Apache Birth: 2.May.1998
Age: 15Y 8M 25D
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Time in this collection: > 30 days (3342 days)
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Clinical Notes for 25.Jan.2014 - LRP

cc: unable to stand or sit
Staff reports that wolf has been uncomfortable and moving slowly,
wandering aimlessly, unable to sit or lay down

Evaluation of video forwarded by staff: wolf is hunched and the neck
is held low. Individual seems uncomfortable or unable to sit / lay
down

Discussion with staff (RM): Given individual's age and signalment and
severity of clinical signs, anesthesia for euthanasia is recommended
and agreed upon.

Anesthesia was induced using a combination of 100mg ketamine, 12mg
butorphanol and 1 mg medetomidine, all IM by blowdart. Wolf was deeply
anesthetized at 5 minutes, and euthanasia was performed using 10 ml
euthanasia solution, given IV.

Blood collected antemortem for CBC/chem and banking

Baseline Data >>>

Pathology Case Number: 2014-0002
(Necropsy Record)

Specimen Died: 25.Jan.2014
Submitted by: Dr. L. Padilla
Euthanasia
Enclosure: EWC
Carcass Weight: 19.51 Kg (43.0 Lb) (Actual)
Weight obtained within 12 hours of death.
Reproductive History: Breeding History Unknown

Recent History and Observations >>

The wolf had become paretic and disoriented.

Necropsy Report >>

Necropsy Date: 26.Jan.2014

Prosector: DUNCAN
Death to Necropsy Interval: 6-24 hours
Necropsy Location: NECROPSY ROOM, HOSPITAL
Post-mortem radiographs are available.
Photographs obtained during gross necropsy.
Tissue and other samples saved:
in formalin based fixative
in freezer/Ultrafreezer
embedded in parafin blocks

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on microscope slides (smears and thin-sections)

Gross Examination Report >>

SAINT LOUIS ZOO NECROPSY # B5-14

External appearance and skin: The margins of the ears are crusty and rounded. The perianal coat is flecked with fecal deposits. Crown-rump length is 88.5cm and the tail is 34.5cm long. The coat is generally in good condition. The skeleton is prominent.

Thoracic and abdominal cavities: Negative pressure was noted on opening the thorax. The stomach is adhered to the caudoventral right body wall. Hydration is fair. There are mild to moderate fat deposits in the subcutis and body cavities.

Respiratory system: The lungs (left 252g, right 445g) have fine hard foci of osseous metaplasia at the surface. The right lung is puffy and pale pink, while the left is congested. Yellow/orange flecks dorsally are thought to be foci of pulmonary histiocytosis.

Cardiovascular system: The heart (296g) has wall thicknesses: right ventricle 3mm, septum 10mm and left ventricle 12mm. The valve measurements are: right atrioventricular valve 12.4cm, pulmonic valve 6.7cm, left atrioventricular valve 9cm and aortic valve 7.1cm.

Gastrointestinal tract: The dental formula on the right appears complete: I 3/3 C 1/1 PM 4/4 M 2/3, while left is I 3/2 C 1/1 PM 3/4 M 2/3. The area of loss of the most caudal superior premolar is irregular depressed with rounded ridges (no mass was obviously noted in the area). The lateral aspect of the fourth superior premolar has been split off. A roughened grey warty focus 5mm squared is present at the central left superior incisor. The esophagus has some faint red pink blotchiness and longitudinal ridging caudally. Stomach contains a small amount of vegetative-grassy material with scant slightly viscous clear fluid and there is a 3mm diameter purple papule at the pyloric lumen. Liquid orange/tan paste coats the intestines.

Urogenital system: The kidneys (left 55g, right 51g) are lumpy, 7 x 3.5 x 2.5cm cubed with 9mm pink/purple medullae and 7mm tan/red cortices. Occasional cysts are seen in the parenchyma up to 1cm in diameter, especially on the right. Testes are not seen. The prostate gland is atrophied a 4cm cuff 3mm wide and tan/pink.

Liver and pancreas: The liver (595g) has a prominent reticulate pattern and is dark red/brown. There are scattered pale foci up to 1cm in diameter. The common bile duct is patent, and there are scattered cysts in the gall bladder wall up to 2mm cubed. The pancreas is pale pink (38g) with a single 2mm cubed white focus.

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Spleen and lymph nodes: The lymph nodes appear unremarkable with black pigmentation at the bronchi. The spleen appears to be twisted around its mesentery and the vessels are ectatic and there is a firm fibrous cord in the center of the tissue. The spleen (359g) is 32 x 12 x 4cm cubed with a 12 x 8 x 4cm cubed waxy dark red/purple nodule. The remainder of the spleen has fibrous white deposits at the surface with scattered brown flecks (hemosiderin). The tonsils are 2 x 0.6 x 0.5cm cubed.

Endocrine system: The thyroid glands (<1g together) are dark red (1.8 x 0.8 x 0.2cm cubed) with prominent white parathyroid glands 6 x 4 x 1mm cubed. The adrenal glands (left 2g, right 1g) are 3.3 x 1.0 x 0.9cm cubed and slightly irregular/nodular, medulla is pink and 2mm thick and cortex is also 2mm thick and yellow. The pituitary gland is 11 x 6 x 5mm cubed and the surface appears mildly irregular.

Central nervous system: The brain (131g) has scattered foci of fibrous white substance at the meninges and some thickening of the meninges with increased soft tissue is suspected at the foramen magnum.

Sensory organs: There is a white fleck at the center of the right lens (suspect post-mortem artefact). Abundant tan wax is present in the ear canals.

Muscular system: There are multiple small hemorrhages in the muscle of the hind legs.

Skeletal system: The bone quality appears reduced with some breakdown of ribs on manipulation of the carcass. The femoral head is chronically and moderately worn. There is a layer of dark red marrow at the endosteum and the remainder is dark pink with bone spicules.

Organ Weights >>>

ADRENAL GLAND (Left & Right Combined) .0030 Kg (0.01 Lb) (0.02% of carcass weight)
 BRAIN .1310 Kg (0.29 Lb) (0.67% of carcass weight)
 HEART .2960 Kg (0.65 Lb) (1.5% of carcass weight)
 KIDNEYS (Left & Right Combined) .1010 Kg (0.22 Lb) (0.52% of carcass weight)
 LIVER .5950 Kg (1.31 Lb) (3.0% of carcass weight)
 LUNGS (Left & Right Combined) .6970 Kg (1.54 Lb) (3.6% of carcass weight)
 PANCREAS .0580 Kg (0.13 Lb) (0.30% of carcass weight)
 SPLEEN .3590 Kg (0.79 Lb) (1.8% of carcass weight)

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Gross Diagnoses >>>

KIDNEYS, NEPHRITIS, TUBULAR, CHRONIC, BILATERAL
GALL BLADDER, CYSTIC
BODY AS A WHOLE, CACHEXIA, MILD TO MODERATE
STOMACH, ADHESION
EAR, DERMATITIS, BILATERAL
LUNGS, METAPLASIA, OSSEOUS, BILATERAL
HEART, CARDIOMEGALY
HEART, HYPERTROPHY, VENTRICULAR, LEFT
ORAL CAVITY, EPULIS
ORAL CAVITY, DENTAL DISEASE, MILD
LIVER, MASS, NEOPLASIA
SPLEEN, SPLENOMEGALY
KIDNEY RIGHT, CYST, MULTIPLE
SPLEEN, MASS, NEOPLASIA
SPLEEN, FIBROSIS, CAPSULE
SPLEEN, HEMOSIDEROSIS
PARATHYROID GLAND, HYPERPLASIA, BILATERAL
BONE, OSTEOMALACIA

Laboratory Samples Submitted >>>

Tissues ultrafrozen for SSP: duplicate heart, lung, spleen, kidney.
Tissues ultrafrozen: spleen at mass, liver, kidney.
Heart blood submitted for bacteriology.
Gastropexy, spleen, parathyroid glands, epulis are photographed.
The carcass is saved for the repository.