

2011.091

<b>Animal Type</b>	GAN	<b>Preferred ID</b>	<b>Taxonomy</b>	<b>Sex</b>	<b>Birth Date</b>
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

07/Sep/2017

**Necropsy Detail**

**Submission**

**Death Date** 07/Sep/2017 00:00  
**Date Submitted** 07/Sep/2017  
**Date Discovered**  
**Submitted By** Shannon R. White  
**Manner of Death** Euthanasia, medical

<b>Carcass Weight</b>	
<b>Measurement</b>	49 pound
<b>Estimate</b>	No
<b>Exclude from reference intervals</b>	No

<b>Death Location</b>	
<b>Location Type</b>	Enclosure
<b>Enclosure</b>	WWE03

**Recent History/Observations Note**

Female wolf has been on the Watch List for several months due to her age, generalized poor body condition, elevated liver enzymes, and some weight loss, though she remained the alpha animal of the pack. At her exam today, a palpable mass was evident in the abdominal cavity. Ultrasound examination suggested a right-sided liver tumor, with several small nodules on the left liver lobe as well. AHL 07Seo2017

**Special Request**

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**Case Info**

**Pathology Case Number** 2017-00097  
**Parties to get copy of final report** ~  
**Responsible Pathologist** Albert H. Lewandowski, DVM  
**Responsible Resident** ~

**Death Numbers**

Death Number	Effective Date	Entered By
~	~	~

**Workflow Notes and Additional Case Comments**

~

**Gross Necropsy**

**Necropsy Info**

**Necropsy Date** 07/Sep/2017  
**Carcass Condition Code** Fresh  
**My Institution** ZOOLOGICAL MEDICINE  
**Reference Number** ~

**Necropsy Prosector** Albert H. Lewandowski, DVM  
**Additional Staff** Mike B. Selig, DVM

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Report

Report Written Date 07/Sep/2017

**Necropsy Report/Description**

Body Condition Score: (1-9) Cachexia - Morbidly Obese

2/9 Though this wolf's body weight was not exceptionally low, she has lost considerable muscle mass since her last "hands-on" exam. There are little to no body fat reserves.

Integumentary: NGA NE

Haircoat rough and unkempt.

Musculoskeletal: NGA NE

Generalized loss of muscle mass

Respiratory: NGA NE

Multiple pulmonary metastases are present bilateral, ranging to 2 cm diameter within the lung parenchyma. The lungs are otherwise pink and well-aerated.

Cardiovascular: NGA NE

The myocardium, valves, and great vessels appear normal.

Digestive, Liver: NGA NE

The stomach is filled with mucus, wood chips, and small sticks. The intestinal contents appear normal, as does the mucosa.

Reproductive: NGA NE

This wolf was spayed in January 2017

Urinary Bladder, Kidneys: NGA NE

Bladder was full. Mucosa appears normal.

Hemic/Lymphatic, Spleen: NGA NE

Endocrine, Adrenals, Thyroids: NGA NE

Neurologic: NGA NE Brain removed

USFWS wants the skull intact.

Sense Organs, Eyes, Ears, Nose: NGA NE

Tissues preserved in formalin  No tissues saved

Carcass Disposition:  Incinerate  Buried  Other (Specify)

Body forwarded to USFWS

Prosector/Date: AHL/MBS 07Sep2017

Gross / Preliminary Diagnosis

**Diagnoses**

Diagnosis	Standardized Diagnosis
lung, bilateral, neoplasm, multifocal, metastatic	Lung, Bilateral, NEOPLASM, Multifocal, Metastatic
liver, neoplasm, severe	NEOPLASM, Liver, Severe

**Initial Necropsy Comments & Interpretation**

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**Samples & Tests**

**Samples**

Sample Type/Anatomical Source	Preservative
~	~

**Measurements**

**Organ Weights & Lengths**

Measurement Date/Time	Type	Measurement Item	Measurement Value	Measured By
~	~	~	~	~

**Histopathology**

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Tissue Processing	
Tissue Trim Date	~
Trimmed By	~
Tissue Processing Submission Date	~
Tissue Processed Completion Date	~
My Institution	~

Histopathology Info	
Histopathology Report Date	~
Histopathology Report By	~
Responsible Pathologist	Albert H. Lewandowski, DVM

Histopathology Report  
~

Histopathology Diagnosis	
Diagnosis	Standardized Diagnosis
~	~

**Finalize**

Finalization Date	~	Significant contributors to death	
Relevant Death Info	~	Diagnosis	Standardized Diagnosis
Primary Body System Affected			
Responsible Pathologist	Albert H. Lewandowski, DVM		
Responsible Resident	~		

**Final Summary**

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**Necropsy Case Info for Husbandry Staff (R1 Note)**

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**Addendum**

Date	Note	Reported By
~	~	~

**Audit Trail**

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16/Aug/2017

**Clinical note**

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Aug/2017	08:30	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEMATOLOGY, CHEMISTRY, LABWORK RESULTS
		<input checked="" type="checkbox"/> O.U., Corneal opacity
		<input checked="" type="checkbox"/> Physical Examination

**Note Subtype: General**

**Notes/Comments**

Physical exam (cursory) - palpation of lumbar vertebrae and pelvis done, spinous processes of vertebrae and pelvis all still feel prominent - would consider BCS thin - 2.5-3/9, weight (51.0lbs) is not that much lower than when checked a month ago 12/JUL/2017 (52.4lbs). Weight has been trending slowly down over the last 6 months.

Labwork:  
CBC - unremarkable  
chemistry - increasing liver values over the last year

Date: 16/JUL/2016 24/JAN/2017 16/AUG/2017  
AST: --- 47 153 (16-65U/L)  
ALT: 67 151 325 (15-87U/L)  
ALP: <5 101 162 (13-162U/L)

Plan: Discussed decreased BCS and increasing liver values w/ curator (TV) and expressed concern over liver disease and IBD. Will plan on doing an abdominal ultrasound under anesthesia to try and further evaluate liver and intestines as well as repeat bloodwork. Curator to discuss w/ keeper team to identify a day that will work to perform the exam. (MBS)

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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12/Jul/2017

Clinical note

**Date** 12/Jul/2017 **Time** 10:00 **Note Author** Mike B. Selig, DVM  
**Significant** No **Private** No **Active Problems**  O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

Physical exam (cursory) - palpation of lumbar vertebrae and pelvis done, spinous processes of vertebrae and pelvis all feel prominent - would consider BCS thin - 3/9, weight (52.4lbs) is not that much lower than when checked in Jan 2017 (55.8lbs) Diet has been adjusted upwards over the previous two months to make sure that there is always diet left over so it is not a food competition issue.

Plan: Will plan on weighing her on a monthly basis since she was receptive to get put into a crate. Will plan on drawing blood to further evaluate her at next month's fly treatment. (MBS)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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06/Jun/2017

Clinical note

**Date** 06/Jun/2017 **Time** 10:00 **Note Author** Mike B. Selig, DVM  
**Significant** No **Private** No **Active Problems**  O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

History: Due for monthly fly treatment.

Band: Unable to confirm transponder.

Assessment: Repalpation of hips and epaxial muscles indicated this animal still feels slightly thin as compared to the other wolves. Do not feel that she has decreased any in size and may have increased slightly. BCS - 4/9

Plan: Will plan on repalpating and getting a weight next month. (MBS)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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02/May/2017

Clinical note

**Date** 02/May/2017 **Time** 10:00 **Note Author** Mike B. Selig, DVM

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Significant** No      **Private** No      **Active Problems**  O.U., Corneal opacity

**Note Subtype: General**

**Notes/Comments**

History: Due for monthly fly treatment.

Band: 000-668-6D78

Assessment: Cursory palpation of hips and epaxial muscles indicated this animal to feel slightly thin as compared to the other wolves. BCS - 4/9

Plan: Will plan on repalpating next month. Keepers indicated that the group is finishing all of the food that is being offered to them. ACA and keepers to increase amount of food offered to group. (MBS)

**Animal Care Staff Medical Summary**

**Calendar Items**

Date	Title	Assigned To	Done
~	~	~	~

24/Jan/2017

**Clinical note**

**Date** 24/Jan/2017      **Time** 10:00      **Note Author** Mike B. Selig, DVM

**Significant** No      **Private** No      **Active Problems**

- BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
- Duramune Lyme + Leptovac 4, DA2PP, Rabies (killed) vaccine, VACCINATION
- HEMATOLOGY, SEROLOGY - HEARTWORM, CHEMISTRY, LABWORK RESULTS
- O.U., Corneal opacity
- Physical Examination
- PROPHYLAXIS DENTAL
- SURGICAL PROCEDURE, OVARIOHYSTERECTOMY

**Note Subtype: General**

**Notes/Comments**

History: Scheduled for spay, upper GI endoscopy, and dental cleaning.

Anesthesia: Immobilized via a hand injection w/ Dexmedetomidine/Butorphanol, intubate and maintained on isoflurane.

Exam: Systems review and routine physical wnl.

Labwork: CBC - hematocrit - 45.7%, wbc count - 9,000

chemistry - unremarkable

HWT - neg

Ovaries sent to St. Louis zoo contraception center for gamete rescue

Sx: Standard abdominal incision from umbilicus to caudal aspect of mammary chain. Double ligated ovarian pedicles (circumferential and transfixing) w/ 0 PDS. Double ligated uterine body (circumferential and transfixing) w/ 0 PDS. Closed linea w/ simple interrupted sutures using 0 PDS. Closed SQ w/ 0 PDS w/ a simple continuous pattern. Closed skin w/ 2-0 PDS in an intradermal pattern.

Tx: Meloxicam 5.5mg SQ  
 Exceed 180mg SQ  
 Droncit 125mg SQ  
 Buprenorphine 0.55mg SQ  
 LRS 500mls IV

Vaccines: DA2PP - Nobivac ser: 02121661C, exp: 17FEB17  
 Lymes/Lepto - Boehringer Ingelheim ser: 5280116A, exp: 02SEP17  
 Rabies - Merial ser: 14078, exp 24SEP17

Plan: Elected to not pursue endoscopy due to complications w/ other wolf.

Rx: Carprofen 100mg PO SID x 5 days. (MBS)

**Animal Care Staff Medical Summary**

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus bailey/Mexican wolf	Female	10/Apr/2005

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

16/Jul/2016

Clinical notes

Date	Time	Note Author
16/Jul/2016	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEMATOLOGY, CHEMISTRY, LABWORK RESULTS <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> TRAINING

Note Subtype: General

Notes/Comments

HISTORY: General flea treatment and blood draw  
 LABWORK: CBC/Chemistry performed in-house. Results attached.  
 CBC - Unremarkable; Chemistry - unremarkable  
 PLAN: Will plan on monitoring q 6 months.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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19/Apr/2016

Clinical note

Date	Time	Note Author
19/Apr/2016	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> BAND,TAG,TATTOO,TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> Dental prophylaxis <input checked="" type="checkbox"/> Duramune Lyme + Leptovac 4, DA2PP, Rabies (killed) vaccine, VACCINATION <input checked="" type="checkbox"/> HEMATOLOGY, SEROLOGY - HEARTWORM, CHEMISTRY, LABWORK RESULTS <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> Physical Examination <input checked="" type="checkbox"/> Whole body, Radiographs

Note Subtype: General

Notes/Comments

HISTORY: Routine physical examination last full PE. Jan 2009 on arrival from USFWS  
 ANESTHESIA: Anesthetized with Dexmedetomidine (0.5 mg) and Butorphanol (5 mg) IM via hand injection. Intubated with 10 mm ET tube and maintained on Isoflurane and Oxygen. Following procedure reversed with 5 mg Atipamezole IM Smooth recovery and monitored until standing.  
 ASSESSMENT: Overall good health. Appropriate body condition. No signs of IBO  
 BAND/TAG/TRANSPONDER: Confirmed transponder. TVN 00-0668-6D78  
 DENTAL: Prophylactic sealing and polishing  
 EXAM: BAR. EENT - clear OV. Clean AU. ild calculus. Ms/N: Strong, co-ordinated gait. GI/GU - NSF  
 LABWORK: CBC/Chem: NSF, HCT = 91.2%; TWBC = 8,300; TP 5.9  
 B12 and folate normal, HWT: Neg; All bloodwork to Marshfield  
 IMAGING:Thorax and abdominal rads: NSF. Abdominal ultrasound: NSF  
 TREATMENT: K9 AdvantixII (>55 lb dose, Imidacloprid + Permethrin, Bayer) topically between scapulae  
 VACCINATION:

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Rabies SC right rear limb (Merial Ser 14073A; Exp. 12AUG2016)  
 Lyme + Lepto SC L rear limb (BI, Ser 528110A; Exp. 27MAY2016)  
 DAAP SC between scapular (Merck Ser. 0216610; Exp. 12FEB2017)  
 PLAN: Due to suspected high incidence of IBD in Mexican wolves, keepers to continue to monitor stool and appetite carefully. Preventative health program to continue per AZA SSP and USFWS recommendation.

**Animal Care Staff Medical Summary**

HISTORY: Routine exam  
 BAND/TAG/TRANSPONDER/TATTOO: TVN 00-0668-6D78  
 VACCINATIONS: Rabies (Exp. 12AUG2016); Lyme + Lepto (Exp. 27MAY2016); DAAP (Exp. 12FEB2017)

Calendar Items

Date	Title	Assigned To	Done
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15/Jul/2015

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
15/Jul/2015	00:00	Daniel J. Wallon
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> TECH EXAM

Note Subtype: General

**Notes/Comments**

HISTORY: Monthly flea and tick prophylaxis  
 ASSESSMENT: Apparently healthy animal  
 BAND/TAG/TRANSPONDER/TATTOO: Verified Trovan 00-0668-6D78  
 TREATMENT/RX: Revolution (Selamectin)360 mg applied topically to scapular area.

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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17/Jun/2015

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
17/Jun/2015	00:00	Daniel J. Wallon
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> TECH EXAM <input checked="" type="checkbox"/> TRAINING

Note Subtype: General

**Notes/Comments**

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

History; Monthly flea and tick prophylaxis treatment

Assessment: Apparently healthy animal

Band/Tag/transponder: Verified Trovan 00-0668-6D78

Treatment: 1 Dose (8ml), Vectra 3D applied topically to scapular area. (Dinotefuren, Pyriproxyfin, Permethrin) (DJW)

**Animal Care Staff Medical Summary**

Monthly flea and tick treatment - apparently healthy animal - 1 dose of Vectra (8ml) 3D applied topically to scapular area (DJW)

Calendar Items

Date	Title	Assigned To	Done
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16/May/2015

Clinical note

Date	Time	Note Author
16/May/2015	00:00	Daniel J. Wallon
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> HEMATOLOGY, CHEMISTRY, LABWORK RESULTS <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> TECH EXAM

Note Subtype: General

**Notes/Comments**

HISTORY: Monthly flea and tick prophylaxis treatment. Annual routine bloodwork.

ASSESSMENT: Apparently healthy animal.

BAND/TAG/TRANSPONDER/TATTOO: Verified Trovan 00-0668-6D78

**LABWORK**

Test requested: Blood drawn for DBD/Chemistry

Sent to: In-house

Findings: HCT - 47%; TP - 6 g/dL; WBC - 5.3 x10<sup>3</sup>/mm<sup>3</sup>. Remainder of bloodwork WNL.

TREATMENT/RX: Blood drawn from right lateral saphenous vein using 22 guage needle. Advantix Large Dog applied topically to scapula (Imidacloprid, Permethrin, Pyriproxyfen).

**Animal Care Staff Medical Summary**

HISTORY: Monthly flea and tick prophylaxis.

BAND/TAG/TRANSPONDER/TATTOO: Verified Trovan 00-0668-6D78

TREATMENT/RX: Advantix for Large Dog

Calendar Items

Date	Title	Assigned To	Done
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18/Apr/2015

Clinical note

Date	Time	Note Author
18/Apr/2015	00:00	Debra L. Barbarits, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

- BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
- Duramune Lyme + Leptovac 4, DA2PP, Rabies (killed) vaccine, VACCINATION
- O.U., Corneal opacity
- SEROLOGY - HEARTWORM, LABWORK RESULTS
- TECH EXAM

**Note Subtype:** General

**Notes/Comments**

**HISTORY:** Routine heartworm test, vaccines, flytick treatment

**ASSESSMENT:** Apparently healthy animal

**BAND/TAG/TRANSPONDER/TATTOO:** Verified Trovan 00-0668-6D78

**LABWORK**

**Test requested:** Blood collected (serum) from lateral saphenous for HWT.

**Sent to:** to Marshfield

**Findings:** HWT - NEGATIVE

**TREATMENT/RX:** K-9 Advantix Large Dog (Imidacloprid, Permethrin, Priproxyfen) applied topically to scapula area

**VACCINATION**

**Type:** Rabies killed

**Amount:** 1.0 mL

**Route of administration:** IM

**Site:** Left hind leg

**Manufacturer:** Merial

**Lot Number:** 14069

**Expiration Date:** 04FEB2016

**VACCINATION**

**Type:** Duramune Lyme & Leptovax 4

**Amount:** 1.0 mL

**Route of administration:** IM

**Site:** Left hind leg

**Manufacturer:** Boehringer Ingelheim

**Lot Number:** 528110A

**Expiration Date:** 27MAY2016

**VACCINATION**

**Type:** Canine Distemper Adenovirus Type 2 Parainfluenza Parovirus

**Amount:** 1.0 mL

**Route of administration:** IM

**Site:** left hind leg

**Manufacturer:** Norbivac

**Lot Number:** 021216168

**Expiration Date:** 08MAR2016

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Animal Care Staff Medical Summary**

**HISTORY:** Routine heartworm test, vaccines, flytick treatment  
**BAND/TAG/TRANSPONDER/TATTOO:** Verified Trovan 00-0668-6D78  
**TREATMENT/RX:** K-9 Advantix  
**VACCINATIONS:** Rabies, Duromune Lyme & Canine Distemper

Calendar Items

Date	Title	Assigned To	Done
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24/Oct/2014

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
24/Oct/2014	00:00	Daniel J. Wallon
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS
		<input checked="" type="checkbox"/> BAND
		<input checked="" type="checkbox"/> O.U., Corneal opacity
		<input checked="" type="checkbox"/> TECH EXAM

**Note Subtype:** General

**Notes/Comments**

**HISTORY:** Monthly flea and tick prophylaxis treatment.  
**BAND/TAG/TRANSPONDER/TATTOO:**  
**LOCATION:**  
**CHECKED ANIMAL:**  
**VERIFIED IN COMPUTER:** Verified Trovan 00-0668-6078  
**TREATMENT:** Advantix extra large dog applied topically to scapular area. (Imidae, Loproid, Peimethrin, Priproxyfen).  
 This note added to the following animals: M90111, M90108, M90109, M90110

**Animal Care Staff Medical Summary**

**TREATMENT:** Monthly flea treatment of Advantix applied to scapular area.  
 This note added to the following animals: M90111, M90108, M90109, M90110

Calendar Items

Date	Title	Assigned To	Done
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01/Oct/2014

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
01/Oct/2014	00:00	Debra L. Barbarits, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> BAND
		<input checked="" type="checkbox"/> O.U., Corneal opacity
		<input checked="" type="checkbox"/> TECH EXAM

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Note Subtype:** General

**Notes/Comments**

**HISTORY:** Diagnostic exam for suspected abdominal distention

**ASSESSMENT:** Mild cranial abdominal enlargement, etiology and significance unknown

**LABWORK**

Test requested: CBC/Chem

Sent to: IN-HOUSE

**Findings:** HCT 50%; TP - 6.3 mg/dl; WBC- 19.2 x10(3mm3); Neut. 75%; Lymph- 21%; suspect stress leukogram; remainder of blood work unremarkable.

**BAND/TAG/TRANSPONDER/TATTOO:**

**CHECKED ANIMAL:**

**VERIFIED IN COMPUTER:** trovan

**EXAM:** BAR BCS 5/9; hydr: adeq.; ADB: abdominal palpation limited due to tension, no obvious organomegaly or mass noted

**TREATMENT/RX:** Applied K9 advance 11 to back for fly control

**PLAN:** Keepers to continue to monitor. Further diagnostics and/or therapy may be warranted if condition progresses

**Animal Care Staff Medical Summary**

Suspected abdominal distention, etiology and significance unknown - blood work performed - applied K9 advantix to back for fly control - plan to have keepers to monitor - further diagnostics and/or therapy may be warranted if condition progresses.

Calendar Items

Date	Title	Assigned To	Done
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Clinical note

**Date** 01/Oct/2014  
**Time** 00:00  
**Note Author** Daniel J. Wallon  
**Significant** No  
**Private** No  
**Active Problems**  
 BAND  
 O.U., Corneal opacity  
 TECH EXAM

**Note Subtype:** General

**Notes/Comments**

**HISTORY:** Monthly flea and tick prophylaxis treatment

**BAND/TAG/TRANSPONDER/TATTOO:** Trovan 00-0668-6078

**LOCATION:**

**CHECKED ANIMAL:** Verified

**VERIFIED IN COMPUTER:**

**TREATMENT:** Advantix (Imidacloprid, permethrin, pyriproxyfen) applied topically to scapular area.

DJW

**Animal Care Staff Medical Summary**

**HISTORY:** Monthly flea and tick prophylaxis treatment

**BAND/TAG/TRANSPONDER/TATTOO:** Trovan 00-0668-6078

**LOCATION:**

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

CHECKED ANIMAL: Verified

VERIFIED IN COMPUTER:

DJW

Calendar Items

Date	Title	Assigned To	Done
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27/Aug/2014

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
27/Aug/2014	00:00	Daniel J. Wallon
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas
		<input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
		<input checked="" type="checkbox"/> O.U., Corneal opacity
		<input checked="" type="checkbox"/> TECH EXAM

Note Subtype: General

Notes/Comments

History: monthly flea and tick prophylaxis treatment

Band, Tag, Tattoo, Transponder Verification: Trovan 00-0668-6078

Treatment: Advantix applied topically to scapular area

DJW

(Initials: DJW)

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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16/Aug/2014

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Aug/2014	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS
		<input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

Notes/Comments

Rx: IVERMECTIN 9.657 mg PO q30d for 6 doses. \*\* group treatment \*\*

(Initials: MBS)

Animal Care Staff Medical Summary

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Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Calendar Items			
Date	Title	Assigned To	Done
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27/Jul/2014

Clinical note			
Date	Time	Note Author	
27/Jul/2014	00:00	Kevin A. Roxbury, RVT	
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>	
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas <input checked="" type="checkbox"/> O.U., Corneal opacity	
<b>Note Subtype:</b> General			
<b>Notes/Comments</b>			
History: Flea and Tick TX			
Band, Tag, Tattoo, Transponder Verification: TVN 0006686D78			
Treatment: K9 Advantix (Imidacloprid/Permethrin) applied topically to scapular area.			
{Initials: KAR}			
<b>Animal Care Staff Medical Summary</b>			
-			
Calendar Items			
Date	Title	Assigned To	Done
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28/Jun/2014

Clinical note			
Date	Time	Note Author	
28/Jun/2014	00:00	Angela D. Summers	
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>	
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity	
<b>Note Subtype:</b> General			
<b>Notes/Comments</b>			
History: Monthly fly treatment.			
Treatment: 4.0 ml K9 Advantix II XL dog Lot # KPO8HNJ topically between shoulders via manual restraint.			
{Initials: ADS}			
<b>Animal Care Staff Medical Summary</b>			
-			
Calendar Items			
Date	Title	Assigned To	Done
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17/May/2014

Clinical note		
Date	Time	Note Author
17/May/2014	00:00	Angela D. Summers



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Calendar Items			
Date	Title	Assigned To	Done
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26/Sep/2013

**Clinical note**

Date	Time	Note Author
26/Sep/2013	00:00	Mike B. Selig, DVM
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

History: Routine fly treatment

Band, Tag, Tattoo, Transponder Verification: Trovan verified 00-0668-6D78

Treatment: Monthly application of Advantix over 55 lbs.

ARM

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items			
Date	Title	Assigned To	Done
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07/Aug/2013

**Clinical note**

Date	Time	Note Author
07/Aug/2013	00:00	Kevin A. Roxbury, RVT
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, SCAPULA <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

History: Routine fly treatment

Band, Tag, Tattoo, Transponder Verification: TVN 0006686D78

Treatment: Applied K9 Advantix II (Imidacloprid, Permethrin, Pyriproxyfen) topically to scapular area.

{Initials: KAR}

**Animal Care Staff Medical Summary**

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Calendar Items			
Date	Title	Assigned To	Done
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16/Jul/2013

<b>Animal Type</b>	<b>GAN</b>	<b>Preferred ID</b>	<b>Taxonomy</b>	<b>Sex</b>	<b>Birth Date</b>
Individual	14481193	M90111	Canis lupus balleyi/Mexican wolf	Female	10/Apr/2005

Clinical note

**Date** 16/Jul/2013 **Time** 00:00 **Note Author** Albert H. Lewandowski, DVM  
**Significant** No **Private** No **Active Problems**  O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

Rx: IVERMECTIN 9.657 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: AHL}

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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26/Jun/2013

Clinical note

**Date** 26/Jun/2013 **Time** 00:00 **Note Author** Mike B. Selig, DVM  
**Significant** No **Private** No **Active Problems**  ANTHELMINTIC PROPHYLAXIS, Fleas  
 BAND, TAG, TATTOO, TRANSPONDER VERIFICATION  
 HEARTWORM PROPHYLAXIS  
 Labwork, SEROLOGY - HEARTWORM  
 O.U., Corneal opacity  
 VACCINATION, Rabies (killed) vaccine  
 VISUAL EVALUATION

**Note Subtype:** General

**Notes/Comments**

History: Routine Heartworm test, rabies vacc, and fly/tick treatment

Band, Tag, Tattoo, Transponder Verification: TRN 00 0668 6D78

Blood sample collected: EDTA and serum: Blood Collection in EDTA from Left lat saphenous - sent to Marshfield for Heartworm test on 26JUN2013; results received 27JUN2013.

Labwork Results: HWT - Marshfield (NEGATIVE)

Examination: Visual Inspection

Treatment: Canine Advantix topical - Scapular

Vaccination: Rabies Killed 1.0 ml IM left hind (Merial #14059; Exp. 21 Mar 2014)

JEK VME IV/MBS

{Initials: MBS}

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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29/May/2013

Clinical note



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
29/May/2013	00:00	Kevin A. Roxbury, RVT
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> EXAMINATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> MEDICAL TREATMENT <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> VACCINATION, DA2PP <input checked="" type="checkbox"/> VACCINATION, LEPTOSPIROSIS

**Note Subtype:** General

**Notes/Comments**

History: Annual Vaccines

Band, Tag, Tattoo, Transponder Verification: TVN 000668 6D78

Vaccination: Canine Distemper Adenovirus Tupe 2 Duramune Max 5, 1.0 mL Sq scapula, Hand injection (Boehringer Ingelheim Serial#916742A; Exp. 19JUN2013)

Vaccination: Canine Coronavirus, Duramune Lyme + LeptoVax 4/C, 1.0 mL SQ right rear, Hand injection (Boehringer Ingelheim Serial #647116A; Exp.02JUN2013)

Treatment: K9 Advantix applied topically to scapular area (Imidacloprid, Permethrin, Pyriproxyfen). KAR

(Initials: KAR)

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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16/Feb/2013

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Feb/2013	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

(Initials: MBS)

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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22/Sep/2012

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
22/Sep/2012	00:00	Sheena L. Koeth
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

- BAND,TAG,TATTOO,TRANSPONDER VERIFICATION
- O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

History: Monthly Flea/Tick prevention

Band,Tag,Tattoo,Transponder Verification:  
TVN 00-0668-6D78

Treatment: K9 Advantix applied topically to scapular area (SLK)

{Initials: SLK}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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25/Aug/2012

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
25/Aug/2012	00:00	Kevin A. Roxbury, RVT
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC TREATMENT, Fleas
		<input checked="" type="checkbox"/> BAND,TAG,TATTOO,TRANSPONDER VERIFICATION
		<input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

History: Monthly external parasite prevention.

Band,Tag,Tattoo,Transponder Verification: 00-0668-6D78

Treatment: K9 Advantix applied topically to scapular area.

{Initials: KAR}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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16/Aug/2012

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Aug/2012	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: MBS}

**Animal Care Staff Medical Summary**

<b>Animal Type</b>	<b>GAN</b>	<b>Preferred ID</b>	<b>Taxonomy</b>	<b>Sex</b>	<b>Birth Date</b>
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

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Calendar Items			
Date	Title	Assigned To	Done
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21/Jul/2012

Clinical note

Date	Time	Note Author
21/Jul/2012	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Ticks <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> EXAMINATION RECHECK <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

**Note Subtype:** General

**Notes/Comments**

History: Fly spray treatment

Band, Tag, Tattoo, Transponder Verification: 00-0668-6D78

Assessment: Began to have a nosebleed during restraint so pictures were no taken of the eyes.

Treatment: Applied Advantix for 551b and over, intrascapular.

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items			
Date	Title	Assigned To	Done
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09/Jun/2012

Clinical note

Date	Time	Note Author
09/Jun/2012	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> EXAMINATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> Labwork, CHEMISTRY <input checked="" type="checkbox"/> Labwork, HEMATOLOGY <input checked="" type="checkbox"/> Labwork, SEROLOGY - HEARTWORM <input checked="" type="checkbox"/> O.U., Corneal opacity <input checked="" type="checkbox"/> VACCINATION, DA2PP <input checked="" type="checkbox"/> VACCINATION, LEPTOSPIROSIS <input checked="" type="checkbox"/> VACCINATION, Rabies (killed) vaccine

**Note Subtype:** General

**Notes/Comments**

History: Annual Physical

Band, Tag, Tattoo, Transponder Verification: TVN 0006686D78; black spray paint applied to right hip.

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Blood sample collected: EDTA and serum: CBC/Chemistry to Marshfield on 09JUN2012; results received 10JUN2012.

Labwork Results: CBC/Profile - unremarkable.

Examination: OO - crescent at 6 to 8 o'clock;  
OS - two circular corneal opacity at 4 and 6 o'clock.

Treatment: K9 Advantix applied topically to back of neck.

Vaccination: Canine Cocopavirus vaccine-LeptoVax 4/C + Lyme Vax, 1.0 ml SQ right front (Ft. Dodge Serial #647113A; Exp. 21NOV2012). KAR

Vaccination: Canine Distemper-Duramune Max 5, 1.0 ml SQ scapula (Ft. Dodge Serial #916653A; Exp. 08JUL2012). KAR

Vaccination: Rabies Killed 1.0 ml SQ right rear (Merial #14052;Exp.11FEB2013) KAR

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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17/Feb/2012

Clinical note

Date	Time	Note Author
17/Feb/2012	00:00	Mike B. Selig, DVM
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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07/Sep/2011

Clinical note

Date	Time	Note Author
07/Sep/2011	00:00	Mike B. Selig, DVM
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> BAND,TAG,TATTOO,TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> EXAMINATION RECHECK <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> Labwork, CHEMISTRY <input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

History: Blood drawn for Cholestrol and Triglycerides.

Band,Tag,Tattoo,Transponder Verification: Trovan transponder verified. 00-0668-6078.

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Blood sample collected: EDTA and serum: Cholestrol and triglycerides sent to Marshfield on 07SEP2011 (serum only); results received on 08SEP2011.

Labwork Results: Chd/Triglycerides - Normal

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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16/Aug/2011

Clinical note

Date	Time	Note Author
16/Aug/2011	00:00	Albert H. Lewandowski, DVM
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: AHL}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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30/Jul/2011

Clinical note

Date	Time	Note Author
30/Jul/2011	00:00	Mike B. Selig, DVM
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> EXAMINATION RECHECK <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> O.U., Corneal opacity

Note Subtype: General

**Notes/Comments**

History: Flea/Tick/Fly repellent application and physical exam.

Band, Tag, Tattoo, Transponder Verification: TVN 000 668 6D7B

Examination:

Right eye - 1 cm corneal opacity  
 Left eye - 1/2 cm corneal opacity with a central pinpoint area that appeared denser.  
 Lesion on left eye not previously noted.

Treatment: K9 Advantix applied to skin dorsally.

{Initials: MBS}

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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23/Jul/2011

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
23/Jul/2011	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS
		<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS
		<input checked="" type="checkbox"/> Right eye, Corneal opacity

**Note Subtype:** General

**Notes/Comments**

Rx: ADVANTIX 100 % topically q30d for 3 doses. \*\* group treatment \*\*

{Initials: MBS}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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22/Jun/2011

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
22/Jun/2011	00:00	Mike B. Selig, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, Fleas
		<input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
		<input checked="" type="checkbox"/> EXAMINATION
		<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS
		<input checked="" type="checkbox"/> Labwork, CHEMISTRY
		<input checked="" type="checkbox"/> Labwork, HEMATOLOGY
		<input checked="" type="checkbox"/> Labwork, SEROLOGY - HEARTWORM
		<input checked="" type="checkbox"/> Right eye, Corneal opacity
		<input checked="" type="checkbox"/> VACCINATION, LEPTOSPIROSIS
		<input checked="" type="checkbox"/> VACCINATION, Rabies (killed) vaccine

**Note Subtype:** General

**Notes/Comments**

History: Routine Exam

Band, Tag, Tattoo, Transponder Verification: Trovan transponder verified 00-0668-6D78

Blood sample collected: EDTA and serum: CBC w/diff and chemistry sent to Marshfield on 22Jun2011; results received on 23Jun2011. Heartworm Antigen sent to Marshfield.

Labwork Results:  
CBC/Profile - unremarkable  
HWT - negative

Examination: Cursory exam unremarkable with the exception of a semi- metallic 1 cm oval on the surface of the right cornea. Consistent with corneal dystrophy.

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Treatment: K9 Advantix 100 applied topically to the skin on the back.

Vaccination: Canine Distemper-Adenovirus Type 2, 1.0 ml SQ scapular region (Ft. Dodge #916653A; Exp 08Jul2012)

Vaccination: Canine Coronavirus, 1.0 ml SQ left hind (Ft. Dodge #647110A; Exp 12Nov2011)

Vaccination: Rabies Killed 1.0 ml SQ right hind (Merial IMRAB #14049;Exp.07Oct2012)

{Initials: MBS}

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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16/Feb/2011

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Feb/2011	00:00	Albert H. Lewandowski, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS

Note Subtype: General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: AHL}

**Animal Care Staff Medical Summary**

Calendar Items

Date	Title	Assigned To	Done
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26/Aug/2010

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
26/Aug/2010	00:00	Chris D. Peterson
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS, External parasites <input checked="" type="checkbox"/> BAND, TAG, TATTOO, TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> VACCINATION, West Nile virus

Note Subtype: General

**Notes/Comments**

History: Monthly K9-Advantix application for fly bite prevention. West Nile Virus vaccine 3 of 3.

Band, Tag, Tattoo, Transponder Verification: TVN#0006686D78

Examination: System review and routine physical WNL except as noted. Manual restraint with snare and Y-pole.

Treatment: K-9 Advantix applied to skin between the shoulder blades by CDP

Vaccination: West Nile Virus 1.0 ml killed IM right hind leg by MBS (Fort Dodge 1666155A;Exp.17Mar2011). 3 of 3

{Initials: CDP}

**Animal Care Staff Medical Summary**

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

Calendar Items

Date	Title	Assigned To	Done
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16/Aug/2010

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
16/Aug/2010	00:00	From Medarks
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS

Note Subtype: General

Notes/Comments

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

{Initials: CLH}

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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30/Jul/2010

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
30/Jul/2010	00:00	Kevin A. Roxbury, RVT
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> ANTHELMINTIC PROPHYLAXIS <input checked="" type="checkbox"/> BAND,TAG,TATTOO,TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> VACCINATION, West Nile virus

Note Subtype: General

Notes/Comments

History: Fly treatment and annual West Nile vaccination

Band,Tag,Tattoo,Transponder Verification: TVN#0006686D78

Treatment: Advantix applied to scapular area

Vaccination: West Nile Virus 1.0 ml killed IM right hind (Fort Dodge 1666155A;Exp.17Mar2011).

{Initials: KAR}

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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03/Jun/2010

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
03/Jun/2010	00:00	Sheena L. Koeth



<b>Animal Type</b>	<b>GAN</b>	<b>Preferred ID</b>	<b>Taxonomy</b>	<b>Sex</b>	<b>Birth Date</b>
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

**Significant**

No

**Private**

No

**Active Problems**

- BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
- HEARTWORM PROPHYLAXIS
- VACCINATION, DA2PP
- VACCINATION, LEPTOSPIROSIS
- VACCINATION, LYMES DISEASE
- VACCINATION, Rabies (killed) vaccine
- VACCINATION, West Nile virus

Note Subtype: General

**Notes/Comments**

History: Annual vaccinations/flea/tick/fly/treatment

Band, Tag, Tattoo, Transponder Verification: TVN#0006686D78

Vaccination: DH2PP 1.0ml IM left hind leg (Fort Dodge #916341A;Exp.07Sep2009)

Vaccination: Lymes and Leptovirus vaccine 1.0ml IM left front leg (Fort Dodge #647106A;Exp.08Apr2011).

Vaccination: Rabies Killed 1.0 ml IM right hind leg (Merial #14039;Exp.07Nov2010)

Vaccination: West Nile Virus 1.0 ml killed IM right front leg (Fort Dodge 1666155A;Exp.17Mar2011). 1 of 3

(Initials: SLK)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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16/Feb/2010

Clinical note

**Date** 16/Feb/2010 **Time** 00:00 **Note Author** From Medarks  
**Significant** No **Private** No **Active Problems**  HEARTWORM PROPHYLAXIS

Note Subtype: General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

(Initials: CJB)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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16/Oct/2009

Clinical note

**Date** 16/Oct/2009 **Time** 00:00 **Note Author** Kevin A. Roxbury, RVT  
**Significant** No **Private** No **Active Problems**  ANTHELMINTIC PROPHYLAXIS, Fleas  
 BAND, TAG, TATTOO, TRANSPONDER VERIFICATION

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

- HEARTWORM PROPHYLAXIS
- VACCINATION

Note Subtype: General

Notes/Comments

History: Routine LymeVax 2 of 2. Flea/tick preventative.

Band,Tag,Tattoo,Transponder Verification: TVN#0006686D78

Treatment: Advantix (over 25kg) applied to scapular area

Vaccination: LymeVax: Borrelia Burgdorferi Bacterin 1.0ml IM right rear (Fort Dodge #229195A;Exp.27Mar2010) 2 of 2

{Initials: KAR}

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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25/Sep/2009

Clinical note

Date	Time	Note Author
25/Sep/2009	00:00	Sheena L. Koeth
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> BAND,TAG,TATTOO,TRANSPONDER VERIFICATION <input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> VACCINATION

Note Subtype: General

Notes/Comments

History: Lymes disease vaccination 1 of 2. Topical monthly Advantix flea/tick prevention.

Band,Tag,Tattoo,Transponder Verification: TVN#0006686D78

Vaccination: Lymes disease vaccine 1.0ml right hind (Fort Dodge LymeVax #229195A;Exp.27Mar2010). 1 of 2

Treatment: K9 ADVANTIX applied to dorsal skin by SLK. Hair dye applied to fur by keeper(??)-see keeper report.

{Initials: SLK}

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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16/Aug/2009

Clinical note

Date	Time	Note Author
16/Aug/2009	00:00	From Medarks
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> RX - MISCELLANEOUS

Note Subtype: General

Notes/Comments

Rx: IVERMECTIN 1% 11.655 mg PO q30d for 6 doses. \*\* group treatment \*\*

<b>Animal Type</b>	<b>GAN</b>	<b>Preferred ID</b>	<b>Taxonomy</b>	<b>Sex</b>	<b>Birth Date</b>
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

(Initials: CJB)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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12/Jun/2009

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
12/Jun/2009	00:00	Albert H. Lewandowski, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> RX - MISCELLANEOUS

**Note Subtype:** General

**Notes/Comments**

Rx: ADVANTIX 100 2112.0 mg topically q30d for 6 doses. Originally prescribed for 6 doses. Discontinued after 4 doses for winter.

(Initials: AHL)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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15/Feb/2009

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
15/Feb/2009	00:00	Albert H. Lewandowski, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> HEARTWORM PROPHYLAXIS <input checked="" type="checkbox"/> Quarantine

**Note Subtype:** General

**Notes/Comments**

Rx: IVERMECTIN 1% 11.66 mg PO q28d for 6 doses. \*\* group treatment \*\*

(Initials: AHL)

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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08/Jan/2009

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
08/Jan/2009	00:00	Albert H. Lewandowski, DVM
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	14481193	M90111	Canis lupus baileyi/Mexican wolf	Female	10/Apr/2005

- No No
- BAND, TAG, TATTOO, TRANSPONDER VERIFICATION
  - Labwork, CHEMISTRY
  - Labwork, HEMATOLOGY
  - Labwork, MICROBIOLOGY - ENTERIC CULTURE
  - Quarantine
  - Quarantine Examination

**Note Subtype: General**

**Notes/Comments**

History: Quarantine exam

Anesthetized: Medetomidine/Butorphanol via blowdart

Band, Tag, Tattoo, Transponder Verification: TVN#0006686D78

Blood sample collected: EDTA and serum collected for hematology and chemistry sent to PetLabs for processing, results received 09Jan2009.  
Heartworm testing done in-house - Negative

Labwork Results: WBC count 8.4, HCT 54, BUN 16.7

Culture: Rectal swab taken sent to PetLabs for stool culture, results received 10Jan2009.  
Results: Culture: Stool Comprehensive  
Source: Stool  
Status: Final  
Result: Heavy growth of normal enteric flora  
No Salmonella, Shigella, or Campylobacter isolated  
Comment: No further testing performed

Examination: System review and routine physical WNL except as noted. MM's pink, CRT<1sec., oral cavity normal, teeth clean and intact, heart rate slow, but NSR, lungs clear, NPA-ABD, perineum normal, eyes clear and bright, ears clean, no evidence of fleas or ticks, extremities WNL, nails worn normally, body condition lean (she could use a couple of pounds weight gain, but may be a subordinate animal).

Treatment: Applied topical Imidicloprid + Permethrin (K9Advantix, Bayer) as directed for tick control.

{Initials: AHL}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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07/Jan/2009

Clinical note

<b>Date</b>	<b>Time</b>	<b>Note Author</b>
07/Jan/2009	00:00	Linda E. DeHoff
<b>Significant</b>	<b>Private</b>	<b>Active Problems</b>
No	No	<input checked="" type="checkbox"/> Quarantine

**Note Subtype: General**

**Notes/Comments**

Quarantine Arrival: Received into quarantine from Wild Canid Survival and Research Center, Eureka, MO. Animals are being quarantined in their exhibit. Current collection wolves are being housed at the hospital.

{Initials: LED}

**Animal Care Staff Medical Summary**

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Calendar Items

Date	Title	Assigned To	Done
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