

Medical History Report - Summary for Individual Specimen  
BUTTONWOOD PARK ZOO

ELEPHAS MAXIMUS (no subsp)  
Asiatic elephant  
Name: RUTH

Sex: Female                      Acc. #: 5  
Age: 55Y 8M 11D                Birth: 29.Oct.1958

.....2014....

- 1.May Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:12.40 \*10<sup>3</sup>/UL; HCT: 33.0%; BUN:12 MG/DL;  
Hemolysis
- 8.May Blood sample: (EDTA) ( 9:30.0) Hematology/Chemistry/Serology results.  
HCT: 37.0%;  
Blood sample: (EDTA) ( 9:30.1) Hematology/Chemistry/Serology results.  
WBC:11.50 \*10<sup>3</sup>/UL; HCT: 38.0%; BUN:13 MG/DL;  
Clinical note recorded. (LAS) Weight: 3175 Kg ( 7000 Lb)
- 2.Jun Clinical note recorded. (LAC)
- 13.Jun Purpose/Problem: antibiotic plus  
Rx: SSD CREAM % topically SID until further notice.  
ENROFLOXACIN mg PO SID until further notice. (2 mg/kg)  
Clinical note recorded. (MS)
- 25.Jun Clinical note recorded. (LAC)
- 1.Jul Clinical note recorded. (LAC)
- 7.Jul Blood sample: (EDTA) ( 9:00.0) Hematology/Chemistry/Serology results.  
WBC:10.60 \*10<sup>3</sup>/UL; HCT: 39.0%; BUN:10 MG/DL;  
Clinical note recorded. (LAC) Weight: 3175 Kg ( 7000 Lb)
- 9.Jul Clinical note recorded. (LAC)



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**Clinical Note:**

**2.Jun.2014**

Recheck of ear, vulva, and tail, ears look great with just a very small amount of frostbite tissue left of the right ear and a wedge left of the left ear. The vulva has also healed well and there is just a scab present over the effected area. Tail is static.  
Plan: continue to monitor and have patient on Baytril for any secondary bacterial infections. (LAC)

**Clinical Note:**

**13.Jun.2014**

Rx: SSD CREAM % topically SID until further notice.  
Rx: ENROFLOXACIN mg PO SID until further notice. (AH003R4) (MS)

**Purpose:** antibiotic plus

**Prescription Data >>**

Starting date: **13.Jun.2014**

Drug: SSD CREAM % topically SID until further notice  
Formulation: 10 mg/gm cream  
Prescribed by: MS (14.Feb.2014)                      Filled by: LAS (14.Feb.2014)  
Treatment weight: 3175 kg  
Clinical response to treatment: Good

**Comments >>**

Topical treatment: Apply to to vulva & tail.

**Purpose:** antibiotic

**Prescription Data >>**

Starting date: **13.Jun.2014**

Drug: ENROFLOXACIN mg PO SID until further notice  
Formulation: 100.00 mg/ml tablet                      Bottle/Lot #: AH003R4  
Prescribed by: MS (15.Feb.2014)                      Filled by: LAS (15.Feb.2014)  
Drug dosage: 2 mg/kg                                  Treatment weight: 3175 kg  
Clinical response to treatment: Good

**Comments >>**

Tradename of drug used is BAYTRIL 68.  
ENROFLOXACIN = ENROFLOXACIN + STREPTOMYCIN SULFATE



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**Clinical Note:**

**25.Jun.2014**

Recheck: Ears, vulva and tail have remained fairly static. Keeper requested I come out and watch her clean the tail to make sure she is using the appropriate pressure while cleaning and treating tail. Keeper doing an excellent job, there is however more slightly more separation between the dead tissue and healthy tissue with some normal appearing fibrin attachments. Tissue underlying appears very healthy with good healing. (LAC)

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**Clinical Note:**

**1.Jul.2014**

Ears still look great, the tissue underlying the scabs appear healthy and eventually they will fall off. Have scheduled other zoo veterinarians that have been helping out with the elephants while I was not here to get their opinion on options and moving forward. Tissue and the demarcation of tissue still appears to be healthy however there is more separation between the two areas. (LAC)

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**Clinical Note:**

**7.Jul.2014**

Rads and bloodwork:

Yesterday keeper reported that she felt Ruth was not as excited about certain enrichment items as usual and was worried that she was maybe "off" with no specific examples. We had already planned on obtaining radiographs today to make sure there is no further progression from previous injuries prior to consultation with other zoo vets scheduled for 7/9 and 7/11. Decided to obtain blood as well to make sure WBC and chems are still WNL. Keeper also reported that the small piece of scab on Ruth's right ear fell off overnight from thursday to friday (7/3 to 7/4).

Tissue under the scab that fell off looks great and well healed.

Procedure:

Blood work: Patient layed on sand on right side and we were able to obtain 15ml of blood from ear vein. Patient did great with verbal ques and rewarded with treats post procedure - results pending

Radiographs: Obtained two views of distal tail with demarcation. Static to previous rads.

Patient tolerated procedures well and no current changes to medication at this time.

9 Jul 14: blood results (CBC and Chem) came in this morning and were all WNL. Will discuss with zoo vets when they come in today. Blood culture still pending. (LAC)



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**Collection Information >>**

Health Status: Abnormal  
 Fasting Time: < 8 hours  
 Activity: Calm  
 Weight: 3175 Kg on 7.Jul.2014  
 Manual restraint used.

Date of Collection: **7.Jul.2014**  
 Time of Collection: 9:00.0  
 Collected by: LAS  
 Sample Collection Site: EAR VEIN

**Hematology >>****Analysis Information >>**

Anticoagulant: EDTA  
 Storage: Refrigerated (<48 hours)  
 Sample Quality: No quality problems.

Laboratory: **CORNELL**  
 Date of Analysis: **8.Jul.2014**  
 Time of Analysis:  
 Analysis by:  
 Automated analysis.

**Tests and Results >>**

WHITE BLOOD CELL COUNT	10.6		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	3.0		*10 <sup>6</sup> /UL
HEMOGLOBIN	13.1		GM/DL
HEMATOCRIT	39		%
MCV	130		fL
MCH	43.7		uug
MCHC	33.6		gm/dL
SEGMENTED NEUTROPHILS	41.51	(4.400)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS	0.0		% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	19.81	(2.100)	% (*10 <sup>3</sup> /UL)
MONOCYTES	33.02	(3.500)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS	4.717	(0.500)	% (*10 <sup>3</sup> /UL)
BASOPHILS	< 0.0		% (*10 <sup>3</sup> /UL)
ESTIMATED PLATELET COUNT	ADEQU		
PLATELET COUNT	456		*10 <sup>3</sup> /UL

**Comments >>**

MCV = 132  
 MCH = 45  
 MCHC = 34  
 RDW = 15.5  
 MPV = 7.4  
 WBC EXAM = NSF  
 RBC MORPHOLOGY = NSF  
 PLASMA APPEARANCE = MODERATE HEMOLYSIS



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**Chemistry >>****Analysis Information >>**

Chemistry Sample: Serum  
 Storage: Refrigerated (<48 hours)  
 Sample Quality: No quality problems.

Laboratory: **CORNELL**  
 Date of Analysis: **8.Jul.2014**  
 Time of Analysis:  
 Analysis by:  
 Automated analysis.

**Tests and Results >>**

GLUCOSE	88	MG/DL
BLOOD UREA NITROGEN	10	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	7.14	
CALCIUM	10.8	MG/DL
SODIUM	127	MEQ/L
POTASSIUM	4.1	MEQ/L
sodium/potassium ratio	31.0	
CHLORIDE	90	MEQ/L
IRON	68	MCG/DL
MAGNESIUM	2.0	MG/DL
BICARBONATE	24	MMOL/L
TOTAL PROTEIN (COLORIMETRY)	> 9.4	GM/DL
ALBUMIN (COLORIMETRY)	3.4	GM/DL
GLOBULIN (COLORIMETRY)	6.0	GM/DL
albumin/globulin ratio	0.567	
ASPARTATE AMINOTRANSFERASE	14	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
DIRECT BILIRUBIN	0.0	MG/DL
INDIRECT BILIRUBIN	0.1	MG/DL
CREATINE PHOSPHOKINASE	159	IU/L
GAMMA GLUTAMYLTRANSFERASE	4	IU/L
SORBITOL DEHYDROGENASE	3	SFU

**Comments >>**

ANION GAP = 17  
 PHOSPHATE = 3.6  
 A/G RATIO = 0.6  
 GLUTAMATE DEHYDROGENASE = 2  
 TOTAL IRON BINDING CAPACITY = 246  
 SATURATION = 28

ISIS reference values are for ELEPHAS MAXIMUS  
 Printed on: 10.Jul.2014

/ISIS/MedARKS/5.54.h

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**Clinical Note:**

**9.Jul.2014**

Vet consult:

Dr. MM and Dr. KW came in to look at Ruth's tail today and they agree that with the current separation of tissue the distal portion does have the potential to fall off. Discussed different options for surgical removal and anesthesia. Have another consult with MR on Friday (7/11) to further discuss options.

Keeper cleaned the tail area for us so we could get a better look and there did appear to be a slight amount of inflammed area just above the demarcation, will keep a close eye on it.

It does appear thought that surgery to remove the tissue is the best option. (LAC)

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