

Medical History Report - Summary for Individual Specimen
BUTTONWOOD PARK ZOO

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female
Age: 55Y 2M 26D

Acc. #: 5
Birth: 29.Oct.1958

.....2014....

* [

- 3.Jan Purpose/Problem: inflamation secondary to hypothermia
Rx: ACETYLSALICYLIC ACID 30213gm PO SID for 2 doses. (9 gm/kg)
Clinical note recorded. (MS)
- 4.Jan Clinical note recorded. (LAS)
- 5.Jan Purpose/Problem: post hypothermia
Rx: SMZ-TMP 92.71gm PO BID for 7 days. (28 mg/kg)
Clinical note recorded. (LAS)
Clinical note recorded. (MS)
- 6.Jan Purpose/Problem: post hypothermia inflammation
Rx: ACETYLSALICYLIC ACID 29.80gm PO SID for 4 days. (9 mg/kg)
SMZ-TMP 96gm PO BID for 5 days. (28.99 mg/kg)
DIMETHYL SULFOXIDE ml topically SID for 3 days.
Clinical note recorded. (MS)
- 11.Jan Purpose/Problem: post hypothermia infection
Rx: SMZ-TMP 96mg PO BID for 2 days. (28.99 mcg/kg)
Clinical note recorded. (MS)
- 13.Jan Purpose/Problem: post hypothermia infection
Rx: SMZ-TMP 96mg PO BID for 3 days.
Clinical note recorded. (MS)
- 15.Jan Purpose/Problem: post hypothermia inflammation
Rx: DIMETHYL SULFOXIDE ml topically SID for 3 days.
Clinical note recorded. (MS)

* Rec'd w/ last FOIA request

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 2M 26D Birth: 29.Oct.1958

Clinical Note:

3.Jan.2014

Rx: ACETYLSALICYLIC ACID 23496 gm PO SID for 2 doses. (MS)

Purpose: inflamation secondary to hypothermia

Prescription Data >>

Starting date: **3.Jan.2014**

Drug: ACETYLSALICYLIC ACID 30213 gm PO SID for 2 doses

Formulation: 325.00 mg tablet

Prescribed by: MS (3.Jan.2014)

Filled by: LAS (3.Jan.2014)

Drug dosage: 9 gm/kg

Treatment weight: 3357 kg

Clinical response to treatment: Good

Comments >>

Tradename of drug used is ASPIRIN.

Daily Treatment Notes >>

Date	Time	Success	By	Comments
3.Jan.2014	16:30	100%	KVS	
4.Jan.2014	16:30	100%	SAM	
5.Jan.2014	19:00	100%	RC	

Clinical Note:

4.Jan.2014

Due to increased edema in both ears a small incision was made distally to allow gravity to help with drainage. The right ear had an additional cut near a pocket with increased pressure to decrease the chances of it splitting. Hot compresses will continue to help with drainage. Before leaving for the day Ruth seemed relaxed enough to lance the poximal pockets of both ears as well. All seem to be draining slowly and she is tolerating the hot compresses well. (LAS)

ELEPHAS MAXIMUS (no subsp)
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Clinical Note:

5. Jan. 2014

Edema has increased in both ears but still actively draining. Hot compresses were stopped last night to let her rest and started up again this morning. She tried to lay down and then stopped herself and remained standing. They will increase hot compresses in frequency to every 45 minutes instead of every hour as tolорated. She is eating, drinking, participating in training commands, and exercising. She trumpeted last night, twice. As of now she has not laid down. (LAS)

Clinical Note:

5. Jan. 2014

Rx: SMZ-TMP 92.71 gm PO BID for 7 days. (MS)

Purpose: post hypothermia

Prescription Data >>

Starting date: 5. Jan. 2014

Drug: SMZ-TMP 92.71 gm PO BID for 7 days

Formulation: 240.00 mg/ml tablet

Prescribed by: MS (5. Jan. 2014)

Filled by: LAS (5. Jan. 2014)

Drug dosage: 28 mg/kg

Treatment weight: 3311 kg

Comments >>

Sustain III

SMZ-TMP = SULFAMETHOXAZOLE + TRIMETHOPRIM

Daily Treatment Notes >>

Date	Time	Success	By	Comments
5. Jan. 2014	16:15	100%	RC	sjc
6. Jan. 2014	11:00	100%	KVS	rc, las

Clinical Note:

6. Jan. 2014

Rx: ACETYLSALICYLIC ACID 29.80 gm PO SID for 5 days.

Rx: SMZ-TMP 96 gm PO BID for 5 days.

Rx: DIMETHYL SULFOXIDE ml topically SID until further notice. (MS)

Purpose: post hypothermia inflammation

Prescription Data >>

Starting date: 6. Jan. 2014

Drug: ACETYLSALICYLIC ACID 29.80 gm PO SID for 4 days

Formulation: 325.00 mg tablet

Prescribed by: MS (6. Jan. 2014)

Filled by: LAS (6. Jan. 2014)

Drug dosage: 9 mg/kg

Treatment weight: 3311 kg

Clinical response to treatment: Good

Comments >>

Printed on: 23. Jan. 2014

/ISIS/MedARKS/5.54.f

Medical History Report - Individual Specimen
BUTTONWOOD PARK ZOO

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 2M 26D Birth: 29.Oct.1958

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Prescription Record (continued):

Tradename of drug used is ASPIRIN TABLET.

Purpose: post hypothermia inflammation

Prescription Data >>

Starting date: **6.Jan.2014**

Drug: SMZ-TMP 96 gm PO BID for 5 days
Formulation: 240.00 mg/ml bolus
Prescribed by: MS (6.Jan.2014)
Drug dosage: 28.99 mg/kg
Clinical response to treatment: Good

Filled by: LAS (6.Jan.2014)
Treatment weight: 3311 kg

Comments >>

Sustain III
SMZ-TMP = SULFAMETHOXAZOLE + TRIMETHOPRIM

Purpose: post hypothermia inflammation

Prescription Data >>

Starting date: **6.Jan.2014**

Drug: DIMETHYL SULFOXIDE ml topically SID for 3 days
Formulation: 900.0 mg/ml liquid
Prescribed by: MS (6.Jan.2014)

Filled by: LAS (6.Jan.2014)
Treatment weight: 3311 kg

Comments >>

Topical treatment: Apply to to rear legs

Originally prescribed until further notice.
Discontinued on 8.Jan.2014

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 2M 26D Birth: 29.Oct.1958

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Clinical Note:

11.Jan.2014

Rx: SMZ-TMP 96 mg PO BID for 2 days. (MS)

Purpose: post hypothermia infection

Prescription Data >>

Starting date: **11.Jan.2014**

Drug: SMZ-TMP 96 mg PO BID for 2 days
Formulation: 31.2 gm bolus
Prescribed by: MS (11.Jan.2014)
Drug dosage: 28.99 mcg/kg
Clinical response to treatment: Good

Filled by: LAS (11.Jan.2014)
Treatment weight: 3311 kg

Comments >>

Sustain III
SMZ-TMP = SULFAMETHOXAZOLE + TRIMETHOPRIM

Clinical Note:

13.Jan.2014

Rx: SMZ-TMP 96 mg PO BID for 3 days. (MS)

Purpose: post hypothermia infection

Prescription Data >>

Starting date: **13.Jan.2014**

Drug: SMZ-TMP 96 mg PO BID for 3 days
Formulation: 32.1 gm bolus
Prescribed by: MS (13.Jan.2014)

Clinical response to treatment: Good

Filled by: LAS (13.Jan.2014)
Treatment weight: 3311 kg

Comments >>

Sustain III
SMZ-TMP = SULFAMETHOXAZOLE + TRIMETHOPRIM

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 2M 26D Birth: 29.Oct.1958

=====

Clinical Note:

15.Jan.2014

Rx: DIMETHYL SULFOXIDE ml topically SID for 3 days. (MS)

Purpose: post hypothermia inflammation

Prescription Data >>

Starting date: **15.Jan.2014**

Drug: DIMETHYL SULFOXIDE ml topically SID for 3 days

Formulation: 900.0 mg/ml liquid

Prescribed by: MS (6.Jan.2014)

Filled by: LAS (15.Jan.2014)

Treatment weight: 3311 kg

Clinical response to treatment: Good

Comments >>

Topical treatment: Apply to to rear legs

Originally prescribed until further notice.

Discontinued on 8.Jan.2014

Clinical Pathology Records Report - ISIS/In-House Reference Values
 BUTTONWOOD PARK ZOO

Scientific name: **ELEPHAS MAXIMUS**
 Common Name: **Asiatic elephant**



		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	14.43	4.409	5.800	33.30	(1779)
RBC	*10 ⁶ /UL	3.06	0.51	1.78	5.15	(1501)
HGB	GM/DL	13.2	2.2	6.6	24.9	(1568)
HCT	%	37.1	6.0	20.3	68.0	(1890)
MCH	MG/DL	43.3	4.8	16.6	63.2	(1464)
MCHC	uug	35.4	3.6	16.9	68.6	(1536)
MCV	fL	122.3	13.4	47.1	213.2	(1491)
SEGS	*10 ³ /UL	4.822	2.925	0.291	23.90	(1502)
BANDS	*10 ³ /UL	1.402	2.124	0.000	11.40	(307)
LYMPHOCYTES	*10 ³ /UL	5.243	3.223	0.196	20.60	(1513)
MONOCYTES	*10 ³ /UL	3.677	2.909	0.000	9.983	(1273)
EOSINOPHILS	*10 ³ /UL	0.465	0.551	0.000	4.520	(1093)
BASOPHILS	*10 ³ /UL	0.173	0.105	0.000	0.508	(119)
NRBC	/100 WBC	1	1	0	3	(85)
PLATE. CNT.	*10 ³ /UL	469	215	121	1394	(428)
RETICS	%	0.8	1.6	0.0	4.4	(10)
GLUCOSE	MG/DL	91	21	33	223	(1257)
BUN	MG/DL	13	4	4	30	(1260)
CREAT.	MG/DL	1.6	0.4	0.7	3.3	(1230)
URIC ACID	MG/DL	0.2	0.3	0.0	3.4	(286)
CA	MG/DL	10.6	0.8	7.8	14.8	(1184)
PHOS	MG/DL	5.0	1.2	1.9	11.1	(724)
NA	MEQ/L	130	6	99	181	(859)
K	MEQ/L	4.6	0.5	3.2	6.6	(861)
CL	MEQ/L	89	4	77	103	(731)
IRON	MCG/DL	65	23	29	158	(82)
MG	MG/DL	2.10	0.53	0.00	2.90	(68)
HCO3	MMOL/L	26.3	3.0	19.0	32.3	(55)
CHOL	MG/DL	48	19	0	189	(599)
TRIG	MG/DL	61	42	10	329	(745)
T.PROT. (C)	GM/DL	8.1	0.8	5.8	11.3	(1227)
T.PROT. (R)	GM/DL	8.4	0.4	7.8	9.2	(23)
ALBUMIN (C)	GM/DL	3.2	0.5	1.9	4.7	(648)
GLOBULIN (C)	GM/DL	5.0	1.0	2.7	8.6	(639)
AST (SGOT)	IU/L	22	11	4	97	(1227)
ALT (SGPT)	IU/L	7	8	0	72	(781)
T. BILI.	MG/DL	0.2	0.2	0.0	1.2	(765)
D. BILI	MG/DL	0.1	0.1	0.0	1.3	(233)
I. BILI.	MG/DL	0.1	0.1	0.0	0.6	(224)
AMYLASE	U/L	3017	2492	0	9866	(170)
ALK.PHOS.	IU/L	143	66	28	641	(1157)
LDH	IU/L	655	703	46	4769	(495)

Clinical Pathology Records Report - ISIS/In-House Reference Values
BUTTONWOOD PARK ZOO

Scientific name: **ELEPHAS MAXIMUS**
Common Name: **Asiatic elephant**



		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
CPK	IU/L	225	+	170	23	1260 (486)
OSMOLARITY	MOSMOL/L	264	+	29	0	325 (98)
ALPHA GLOB.	MG/DL	250.4	+	353.1	0.7	500.0 (2)
ALPHA-1 GLOB	MG/DL	0.8	+	0.1	0.7	1.0 (6)
ALPHA-2 GLOB	MG/DL	0.9	+	0.2	0.7	1.1 (6)
BETA GLOB.	MG/DL	1.0	+	0.6	0.6	1.4 (2)
Body Temperature:		36.3	+	0.5	36.0	37.0 (4)
CO2	MMOL/L	24.8	+	4.0	15.8	37.0 (230)
CORTISOL	UG/DL	2.0	+	1.0	0.5	5.4 (35)
ESR	MM/HR	98	+	32	53	130 (7)
FIBRINOGEN	MG/DL	371	+	181	0	810 (238)
GGT	IU/L	7	+	5	0	33 (314)
LIPASE	U/L	19	+	30	0	127 (53)
PROGESTERONE	NG/DL	18.82	+	62.45	0.020	346.0 (379)
TESTOSTERONE	NG/ML	20.34	+	27.95	0.570	40.10 (2)
A-TOCOPHEROL	UG/DL	19	+	15	0	42 (8)
TOTAL T4	MCG/DL	10.0	+	2.7	4.2	12.6 (10)
T3 UPTAKE	%	28	+	2	26	29 (2)
ALBUMIN (E)	GM/DL	4.1	+	0.6	3.5	4.9 (4)
GAMMA GLOB	GM/DL	2.9	+	2.9	0.0	9.0 (11)

Medical History Report - Summary for Individual Specimen
BUTTONWOOD PARK ZOO

ELEPHAS MAXIMUS (no subsp)

Sex: Female

Acc. #: 5

Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

Name: RUTH

.....2014....

- 15.Jan Purpose/Problem: post hypothermia inflammation
Rx: DIMETHYL SULFOXIDE ml topically SID for 3 days.
Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 19.Jan Clinical note recorded. (LAS)
- 21.Jan Clinical note recorded. (MAS)
- 23.Jan Clinical note recorded. (LAS)
- 27.Jan Purpose/Problem: topical antibiotic
Rx: TRIPLE ANTIBIOTIC OINTMENT topically BID for 7 days. (1/4 inch)
Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 28.Jan Clinical note recorded. (LAS)
- 30.Jan Clinical note recorded. (MAS)
- 31.Jan Purpose/Problem: arthritis
Rx: GLUCOSAMINE 64gm PO BID until further notice.
Clinical note recorded. (MS)
- 3.Feb Purpose/Problem: topical antibiotic
Rx: TRIPLE ANTIBIOTIC OINTMENT topically BID for 4 days. (1/4 inch)
Clinical note recorded. (MS)
- 5.Feb Clinical note recorded. (MAS)
- 6.Feb Purpose/Problem: antibiotic *****Wear Gloves*****
Rx: SSD CREAM % topically SID for 7 days.
Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 7.Feb Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 10.Feb Purpose/Problem: antibiotic
Rx: ENROFLOXACIN 6.62gm PO SID for 6 days. (2 mg/kg)
Clinical note recorded. (MAS)
- 11.Feb Clinical note recorded. (MAS)
- 14.Feb Purpose/Problem: antibiotic plus
Rx: SSD CREAM % topically SID until further notice.
Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 15.Feb Purpose/Problem: antibiotic
Rx: ENROFLOXACIN mg PO SID until further notice. (2 mg/kg)
Clinical note recorded. (MAS)
Clinical note recorded. (MS)
- 16.Feb Clinical note recorded. (MAS)
- 17.Feb Clinical note recorded. (MAS)
- 18.Feb Clinical note recorded. (MAS)
- 19.Feb Clinical note recorded. (MAS)
- 24.Feb Clinical note recorded. (MAS)

ELEPHAS MAXIMUS (no subsp)

Sex: Female

Acc. #: 5

Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

Name: RUTH

Clinical Note:

15.Jan.2014

1/15/14: Staff reports a small area of skin on most distal aspect of tail sloughed revealing healthy tissue underneath. Tissue on ears appears static. She appears to have much more movement of both ears today. Ventral edema appears much less organized. Swelling around vulva is significantly improved. Ruth appears stiff on all four limbs when ambulating. Right front and left rear worse than others. Some swelling is still noted in rear limbs, left >> right. Tissue above nails on both rear legs appears a bit swollen.

Plan:

- 1.) Continue to allow outside access for exercise if temps are above 40F.
 - 2.) Staff may allow supervised exercise over the weekend with Emily and separate if necessary.
 - 3.) Continue aloe and cool hose on ventral edema
 - 4.) RX: DMSO to rear and front legs as necessary X 2-3 days.
 - 5.) May see if she is amenable to rear limb venipuncture on 1/21/14.
- (MAS)

Clinical Note:

15.Jan.2014

Rx: DIMETHYL SULFOXIDE ml topically SID for 3 days. (MS)

Purpose: post hypothermia inflammation

Prescription Data >>

Starting date: 15.Jan.2014

Drug: DIMETHYL SULFOXIDE ml topically SID for 3 days

Formulation: 900.0 mg/ml liquid

Prescribed by: MS (6.Jan.2014)

Filled by: LAS (15.Jan.2014)

Treatment weight: 3311 kg

Clinical response to treatment: Good

Comments >>

Topical treatment: Apply to to rear legs

Originally prescribed until further notice.

Discontinued on 8.Jan.2014

Daily Treatment Notes >>

Date	Time	Success	By	Comments
15.Jan.2014	16:45	100%	SAM	
16.Jan.2014	13:00	100%	SAM	
17.Jan.2014	00:15	100%	SAM	
17.Jan.2014	12:30	100%	SAM	
18.Jan.2014	00:15	100%	SAM	
18.Jan.2014	12:30	100%	SAM	

Clinical Note:

19. Jan. 2014

Ruth laid down on sand pile on her right side and slept for 3 and a half hours. She was slow to get up (20 minutes), but did get up with much encouragement from her keeper after she cleared all sand from around legs and stomach. (LAS)

Clinical Note:

21. Jan. 2014

1/21/14: Recheck: rear leg swelling is significantly reduced. Ventral edema remains. Left ear, tissue at ventral aspect ~4cm X 4cm appears dry and leathery. Tissue may no longer be viable in this area. No evidence of infection at this time. Additional skin has sloughed on both ears revealing healthy, pink tissue underneath. Appetite remains good. Patient does not appear amenable to rear leg venipuncture at this time as it is a behavior which has not been previously conditioned and she is leary of non-keeper staff. Ruth was noted to be charging the bars and throwing sand, hay and christmas trees towards non-elephant-keeper staff during overnight observations. (MAS)

Clinical Note:

23. Jan. 2014

Last night Ruth laid down and got up on her own 3 times during the night. This morning kpr [REDACTED] showed 2 pockets behind both knees that are starting to drain. Start warm compresses on both twice a day. (LAS)

Clinical Note:

27. Jan. 2014

1/27/14: Most dependent area of ventral edema erupted this morning, producing purulent material with an odor.

Cultures were submitted to IDEXX.

Plan:

- 1.) Pending culture: flush areas with chlorahex and apply Triple Antibiotic ointment.
 - 2.) OK to apply mineral oil as previously discussed to skin on entire body to help with dryness. (MAS)
-

Clinical Note:

27. Jan. 2014

Rx: TRIPLE ANTIBIOTIC OINTMENT topically BID for 7 days. (MS)

Purpose: topical antibiotic

Prescription Data >>

Starting date: 27. Jan. 2014

Drug: TRIPLE ANTIBIOTIC OINTMENT topically BID for 7 days

Formulation: 5400.0 u/gm ointment

Prescribed by: MS (27. Jan. 2014)

Filled by: LAS (27. Jan. 2014)

Drug dosage: 1/4 inch

Treatment weight: 3311 kg

Comments >>

Printed on: 25. Feb. 2014

/ISIS/MedARKS/5.54.f

Medical History Report - Individual Specimen
BUTTONWOOD PARK ZOO

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ELEPHAS MAXIMUS (no subsp)

Sex: Female

Acc. #: 5

Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

Name: RUTH

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Prescription Record (continued):

Topical treatment: Apply to behind both knees, valva & tail.
TRIPLE ANTIBIOTIC OINTMENT = BACITRACIN ZINC + NEOMYCIN SULFATE +
POLYMYXIN B SULFATE

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

Clinical Note:

28.Jan.201

<<< Microbiology >>>

Sample Accession #: R2700385

Laboratory:

- Antech
- Idexx
- Buttonwood Zoo
- Other:

Collection Date:01272014
Submission Date:01272014
Reporting Date:01282014

Submission type:

- aerobic bacteriology
- anaerobic bacteriology
- mycology
- enteric pathogen screen
- mycobacterial

Sample source: vulva skin

Organism:

	Growth: heavy	moderate	light
1.brevundimonas diminuta	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.citrobacter freundii	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.alcaligenes faecalis ss faecalis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.normal genital flora	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sensitivity: Citrobacter	1	2	3
Amoxicillin:			
Amoxicillin/Clavulanate:		X	
Ampicillin/Sulbactam:			
Piperacillin:			X
Cephalexin:			
Cefpodoxime:			X
Ciprofloxacin:			X
Chloramphenicol:			X
Cefotaxime:			X
Enrofloxacin:	X		
Gentamicin:	X		
Ceftazidime:			X
Ceftiofur:	X		
Imipenem:	X		
Amikacin:		X	
Marbofloxacin:	X		
Cefovecin:		X	
Sulfamethoxazole:			
Tetracycline:			
Tobramycin:	X		
Trimethoprim/Sulfa:			

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
 Name: RUTH

Sex: Female Acc. #: 5
 Age: 55Y 3M 28D Birth: 29.Oct.1958

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Clinical Note:

28.Jan.201

Ticar/clav: | | X
 Sensitivity: *Alcaligenes faecalis* ss *faecalis*

	1	2	3
Amoxicillin:		X	
Amox/Clav:	X		
Ticar/Clav:			X
Piperacillin:		X	
Cephalexin:		X	
Cefovecin:			
Cefpodoxime:			
Ceftiofur:			
Imipenem:	X		
Amikacin:			X
Gentamicin:		X	
Tobramycin:	X		
Ciprofloxacin:			X
Enrofloxacin:	X		
Marbofloxacin:	X		
Tetracycline:		X	
Chloramphenicol:		X	
Trimethoprim-sulfa:			

Sensitivity: *Brevundimonas diminuta*

	1	2	3
Amoxicillin:			
Amoxi/Clav:			
Ticar/Clav:			
Piperacillin:			
Cephalexin:			
Cefovecin:			
Cefpodoxime:			
Cefotaxime:			
Ceftazidime:			
Ceftiofur:			
Imipenem:			
Amikacin:			
Gentamicin:			
Tobramycin:			
Ciprofloxacin:			
Enrofloxacin:			X
Marbofloxacin:			X
Tetracycline:			
Chloramphenicol:			

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ELEPHAS MAXIMUS (no subsp)

Sex: Female

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Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

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Name: RUTH

Clinical Note:

28.Jan.201

Comments: Trimethoprim/sulfa or sulfisoxazole susceptibility results cannot be interpreted due to interfering substances in the testing media.

(LAS)

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

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Clinical Note: **28. Jan. 201**

Clinical Note: **30. Jan. 201**

1/30/14: Ventral edema is still present but greatly reduced. Edema feels hard to the touch and is pitting. Previously described dry tissue at ventral aspect ~4cm X 4cm is curling and may eventually slough. Tissue above the presumably non-viable area appears moist. Additional skin has sloughed on both ears revealing healthy, pink tissue underneath. Right ear appears to be healing very well.

Mineral oil applied to entire body today in a lying down position. When rising, front leg motor movements were jerky, especially in left front leg.

Ruth has continued to throw things at non-elephant-keeper staff at night observations. As she has demonstrated an ability to stand after lying down, night staff is being reduced to only elephant keepers and for fewer hours to give her an opportunity for more rest.

A: Superficial lesions from exposure appear to be healing well. It is unclear, at this time, how permanent the observed motor deficits in left front leg are.

Plan:

- 1.) ██████████ to obtain a blood sample from right ear for CBC/Chem/Vit E/Selenium as well as a urine sample for UA. (MAS)

Clinical Note: **31. Jan. 201**

Rx: GLUCOSAMINE 64 gm PO BID until further notice. (MS)

Purpose: arthritis

Prescription Data >>

Starting date: **31. Jan. 2014**

Drug: GLUCOSAMINE 64 gm PO BID until further notice

Formulation: 1000.0 mg granules

Prescribed by: MS (21. Aug. 2013)

Filled by: LAS (31. Jan. 2014)

Treatment weight: 3311 kg

Clinical response to treatment: Good

Comments >>

Tradename of drug used is GLYCO FLEX.

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

Clinical Note:

3.Feb.2014

Rx: TRIPLE ANTIBIOTIC OINTMENT topically BID until further notice.
(MS)

Purpose: topical antibiotic

Prescription Data >>

Starting date: **3.Feb.2014**

Drug: TRIPLE ANTIBIOTIC OINTMENT topically BID for 4 days

Formulation: 5400.0 u/gm ointment

Prescribed by: MS (27.Jan.2014)

Filed by: LAS (3.Feb.2014)

Drug dosage: 1/4 inch

Treatment weight: 3311 kg

Comments >>

Topical treatment: Apply to behind both knees, valva, tail and ears.

Originally prescribed until further notice.

Discontinued on 6.Feb.2014

TRIPLE ANTIBIOTIC OINTMENT = BACITRACIN ZINC + NEOMYCIN SULFATE +
POLYMYXIN B SULFATE

Daily Treatment Notes >>

Date	Time	Success	By	Comments
27.Jan.2014	16:00	100%	RC	
28.Jan.2014	09:00	100%	SAM	cleaned first, then applied
28.Jan.2014	16:00	100%	SAM	
29.Jan.2014	09:00	100%	RC	
29.Jan.2014	16:00	100%	SAM	
30.Jan.2014	09:00	100%	KVS	
30.Jan.2014	16:00	100%	KVS	
31.Jan.2014	09:00	100%	SAM	
31.Jan.2014	16:00	100%	SAM	
1.Feb.2014	09:00	100%	SAM	
1.Feb.2014	16:00	100%	SAM	
2.Feb.2014	09:00	100%	KVS	
2.Feb.2014	16:00	100%	KVS	
3.Feb.2014	09:00	100%	KVS	
3.Feb.2014	16:00	100%	KVS	
4.Feb.2014	09:00	100%	KVS	
4.Feb.2014	16:00	100%	KVS	
5.Feb.2014	09:00	100%	KVS	
5.Feb.2014	16:00	100%	KVS	
6.Feb.2014	09:00	100%	KVS	

=====

ELEPHAS MAXIMUS (no subsp)

Sex: Female

Acc. #: 5

Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

=====

Name: RUTH

Clinical Note:

5.Feb.2014

2/5/14: Annual Trunk Wash #1 for TB culture performed this morning. Recheck: Ears have sloughed more dead skin and tissue underneath looks healthy. Left ear, ventral aspect is dry and curled upward. Moist area just above that appears less active today. Ventral edema appears reduced in cranial aspect. Vulva appears much less pendulous today. Two areas which previously erupted and were cultured continue to produce serous fluid. Areas behind knees which previously erupted and were cultured are no longer producing any fluid or exudate and do not appear swollen at this time. Tail where previously swollen and cultured is also no longer producing any fluid or exudate and is not swollen at this time. Tip of tail is getting dry and dark in color.

Previous cultures of vulvar fluid reveal *Citrobacter freundii*, *Alcaligenes faecalis*, resistant to SMZ and sensitive to enrofloxacin, as well as *Brevundimonas (pseudomonas) diminuta*, resistant to most antibiotics on panel, but sensitive to enrofloxacin.

Previous cultures of fluid from caudal aspect of knee reveal: Hemolytic staphylococcus, Beta-hemolytic streptococcus and 1 gram negative rod, all sensitive to enrofloxacin and sulfa.

Previous cultures of fluid from tail reveal: *Serratia marcescens*, *Klebsiella oxytoca*, 2 bio-types of *Staphylococcus aureus*, all sensitive to enrofloxacin. In addition a Beta-hemolytic streptococcus was also cultured which is sensitive to Sulfa.

CBC/Chem/UA: NSF.

Vit E/Selenium pending with Cornell.

A: Tissue on distal aspect of tail is presumably devitalized tissue and may slough.

Plan:

- 1.) Continue to monitor ear, tails, and vulva closely.
- 2.) Apply Baytril(100mg/ml)/SSD(1%)/DMSO at a ratio 1ml Baytril/10mlSSD/1ml DMSO to lesions on vulva, tail and knee SID X 7 days. (MAS)

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ELEPHAS MAXIMUS (no subsp)

Sex: Female

Acc. #: 5

Asiatic elephant

Age: 55Y 3M 28D

Birth: 29.Oct.1958

=====

Name: RUTH

Clinical Note:

6.Feb.2014

2/6/14: Annual Trunk Wash #2 for TB culture performed this morning. Skin on distal aspect of tail is sloughing in large pieces. Exposed tissue is dark red in color. No evidence of infection at this time. Keepers expressed large amount of malodorous exudate from tracts around vulva and flushed and applied SSD/Baytril/DMSO to tracts, tail, and behind knee in PM.

A: It remains to be seen whether this tissue will completely devitalize and if surgical amputation of tip of tail may be necessary. (MAS)

Clinical Note:

6.Feb.2014

Rx: SSD CREAM % topically SID for 7 days. (27758) (MS)

Purpose: antibiotic *****Wear Gloves*****

Prescription Data >>

Starting date: 6.Feb.2014

Drug: SSD CREAM % topically SID for 7 days

Formulation: 10.0 mg/gm cream

Bottle/Lot #: 27758

Prescribed by: MS (6.Feb.2014)

Filled by: LAS (6.Feb.2014)

Treatment weight: 3311 kg

Comments >>

Topical treatment: Apply to to vulva, tail & knee
SSD, Baytril & DMSO Cream

Daily Treatment Notes >>

Date	Time	Success	By	Comments
6.Feb.2014	16:00	100%	SAM	
7.Feb.2014	16:00	100%	SAM	
8.Feb.2014	09:00	100%	SAM	
9.Feb.2014	09:00	100%	KVS	
10.Feb.2014	16:00	100%	KVS	
11.Feb.2014	09:00	100%	SAM	
12.Feb.2014	09:00	100%	SAM	
13.Feb.2014	09:00	100%	SAM	

=====

ELEPHAS MAXIMUS (no subsp)

Asiatic elephant

Name: RUTH

Sex: Female

Age: 55Y 3M 28D

Acc. #: 5

Birth: 29.Oct.1958

=====

Clinical Note:

7.Feb.2014

2/7/14: Annual Trunk Wash #3 for TB culture performed this morning. Skin on distal aspect of tail has sloughed. Exposed tissue is dark red in color. Tail appears swollen above the slough. Examined draining tracts opened up around vulva. One on right side is ~6cm in length is open at the top and bottom. Left side is open ventrally and appears to run in an arc in the area where a patch of skin is ready to slough. Exudate is present but was not particularly malodorous this morning.

Plan:

- 1.) Flush draining tracts with dilute chlorahex and then pack with SSD/Baytril/DMSO using an 18Fr red catheter. Then apply cream to skin around the vulva, as well as on tail and behind left knee.
- 2.) Start Baytril (136mg/tab), 2mg/kg: 6727mg, 50tablets PO SID X 7 days. (MAS)

Clinical Note:

7.Feb.2014

Rx: ENROFLOXACIN 6.62 gm PO SID for 7 days. (MS)

Clinical Note:

10.Feb.2014

2/10/14: Keepers report that ventral draining tracts continue to produce purulent material. Appetite is good. Still being kept in the barn in temps below 40F to prevent any further damage to exposed tissue on ears and tail. Received Baytril delivery, however, it is not enteric coated. Ruth did accept the Baytril this afternoon in cored apples.

Vit E/Selenium with cornell are WNL.

Plan:

- 1.) Continue to flush draining tracts with dilute chlorahex and then pack with SSD/Baytril/DMSO using an 18Fr red catheter. Then apply cream to skin around the vulva, as well as on tail and behind left knee. (MAS)

Purpose: antibiotic

Prescription Data >>

Starting date: **10.Feb.2014**

Drug: ENROFLOXACIN 6.62 gm PO SID for 6 days

Formulation: 100.00 mg/ml tablet

Prescribed by: MS (7.Feb.2014)

Filled by: LAS (7.Feb.2014)

Drug dosage: 2 mg/kg

Treatment weight: 3364 kg

Comments >>

Printed on: 25.Feb.2014

/ISIS/MedARKS/5.54.f

Medical History Report - Individual Specimen
BUTTONWOOD PARK ZOO

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<i>ELEPHAS MAXIMUS (no subsp)</i>	Sex: Female	Acc. #: 5
Asiatic elephant	Age: 55Y 3M 28D	Birth: 29.Oct.1958
Name: RUTH		

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Prescription Record (continued):

Tradename of drug used is BAYTRIL 136.

Originally prescribed for 7 days.

Discontinued on 12.Feb.2014 after 3 days.

ENROFLOXACIN = ENROFLOXACIN + STREPTOMYCIN SULFATE

Daily Treatment Notes >>

Date	Time	Success	By	Comments
10.Feb.2014	12:00	100%	SC	
11.Feb.2014	:	0 %	SC	kk attempted many times

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH



Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

=====

Clinical Note:

11.Feb.2014

2/11/14: Recheck skin and tissue on ventrum: Pitting edema seen cranial to vulva appears reduced in size. Tracts around vulva are producing a white fibrin material which is not malodorous and appears similar to the material that filled in defects on ears. A large area of skin looks like it will eventually slough off. Approximately 5cm of distal aspect of tail appears dead. It is hard and dry at this time. Soft tissue above this region remains swollen.

 Ruth refused the Baytril tabs today presumably because there are not enteric coated and she could smell or taste the medication. We have some enteric coated tablets in-house, however, not enough to provide a single dose. Called all local veterinary hospitals as well as large animal hospitals and Roger Williams Zoo for enteric coated tabs. No one had even a single full dose 

Plan:

- 1.) Staff instructed to monitor tail for evidence that the dead area is moving proximally as well as monitor size and color of swollen area.
- 2.) Staff instructed to try one enteric coated tab in-house to see if she will take it and if so, order 68mg enteric coated tablets.
- 3.) Instructed keepers to continue flushing and packing tracts as long as they remain open, but not to force them to stay open if they are healing.
- 4.) Reassess next week. (MAS)

Clinical Note:

14.Feb.2014

2/14/14: Received a call from [REDACTED] today regarding swelling on tail and plan. Explained that plan was to have Ruth on Baytril and monitor tail and that I had discussed with staff the possibility of an amputation once it is determined exactly where to perform it and once she is receiving the Baytril as prescribed. Discussed inquiring with Dr. [REDACTED] as he has performed a partial tail amputation on Ruth in the past and has a previous relationship with her as one of her previous caretakers. [REDACTED] advised that Baytril was still not here so Ruth still has not received Baytril as prescribed. (MAS)

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

Clinical Note: **14.Feb.2014**

Rx: SSD CREAM topically SID until further notice. (MS)

Purpose: antibiotic plus

Prescription Data >>

Starting date: 14.Feb.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: 3311 kg

Clinical response to treatment: Good



Comments >>

Topical treatment: Apply to to vulva, tail, & knee

Daily Treatment Notes >>

Date	Time	Success	By	Comments
14.Feb.2014	09:00	100%	SAM	
15.Feb.2014	09:00	100%	SAM	
16.Feb.2014	16:00	100%	KVS	
17.Feb.2014	09:00	100%	DV	
18.Feb.2014	09:00	100%	SAM	
19.Feb.2014	16:00	100%	SAM	
20.Feb.2014	11:00	100%	SAM	

Clinical Note: **15.Feb.2014**

 2/15/14: SSD cream formula changed to double the dose of Baytril for a resulting formula of 2ml Baytril/10ml/SSD/1ml DMSO. Oral Baytril still not in. Staff was able to obtain some enteric coated tabs from Roger Williams Zoo which when combined with what we had on hand, provided a full oral dose as prescribed. (MAS )

Clinical Note: **15.Feb.2014**

Rx: ENROFLOXACIN mg PO SID until further notice. (AH003R4) (MS)

Medical History Report - Individual Specimen
BUTTONWOOD PARK ZOO

ELEPHAS MAXIMUS (no subsp) Sex: Female Acc. #: 5
Asiatic elephant Age: 55Y 3M 28D Birth: 29.Oct.1958
Name: RUTH

Prescription Record (continued):

Purpose: antibiotic

Prescription Data >>

Starting date: 15.Feb.2014

Drug: ENROFLOXACIN mg PO SID until further notice

Formulation: 68.00 mg tablet

Bottle/Lot #: AH003R4

Prescribed by: MS (15.Feb.2014)

Filled by: LAS (15.Feb.2014)

Drug dosage: 2 mg/kg

Treatment weight: 3311 kg

Comments >>

Tradename of drug used is BAYTRIL 68.

ENROFLOXACIN = ENROFLOXACIN + STREPTOMYCIN SULFATE

Clinical Note:

16.Feb.2014

2/16/14: Enteric coated Baytril still not in. ~40% dose administered. (MAS)

Clinical Note:

17.Feb.2014



2/17/14: Enteric coated Baytril arrived. Full dose received as prescribed. (MAS)

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

=====

Clinical Note:

18.Feb.2014

2/18/14: Recheck: Skin around vulva that was beginning to slough last week, continues to separate from tissue underneath, leaving healthy appearing tissue in its place. Devitalized area at tip of devitalized tail has progressed proximally ~4-5 inches. Staff measured area of swelling above devitalized region over the weekend and swelling appears reduced today. Once an area of healthy tissue can be identified, a surgical site can be selected for partial amputation.

Plan:

- 1.) Continue to monitor tail.
- 2.) Extend Baytril (68mg/tab) enteric coated tablets. 6727mg at 2mg/kg dose UFN, unless tissue ceases to respond to current therapy at which time a repeat C&S with an extended antibiotic panel may be necessary.
- 3.) Continue flushing and packing tracts as long as they remain open, but not to force them to stay open if they are healing.
- 4.) Reassess next week. (MAS)

Clinical Note:

19.Feb.2014

2/19/14: Staff reports that Ruth may have bitten into a Baytril tablet yesterday and was reluctant to take all medication, however she did eventually take it. She did not eat grain overnight and ate part of her grain this morning. Staff reports that otherwise she is behaviorally normal. She is bright and alert and trumpeting. On Sat, Sun, Mon, there was no indication of having gone off any feed while receiving Baytril.

A: R/O: GI upset vs. anticipatory behavior due to her biting into a tablet. Based on other behaviors, GI upset may be less likely, however it cannot be ruled out.

Plan:

- 1.) Monitor for signs of GI discomfort. (MAS)
-

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH

Sex: Female Acc. #: 5
Age: 55Y 3M 28D Birth: 29.Oct.1958

=====

Clinical Note:

24.Feb.2014

2/24/14: Staff reports that appetite is normal. Recheck: Ruth appears to have lost some weight. Muscles mass appears atrophied on rear legs. Some muscle tremor/weakness in rear legs noted when ambulating, standing and lying down. Large area of old skin has sloughed around vulva. Tracts do not appear to be progressing deeper subcutaneously. Ventral edema near umbilicus is no longer pitting. Progression of dead tissue on distal tail appears to have ceased at this time. Measurements taken by staff support this. Dr.'s [REDACTED] [REDACTED] to assess later this week.

Plan:

- 1.) Mineral oil bath.
 - 2.) CWCT as prescribed pending medical reassessment.
 - 3.) Repeat CBC/Chem 3/6/14. (MAS)
-

Clinical Pathology Records Report - ISIS/In-House Reference Values
 BUTTONWOOD PARK ZOO

Scientific name: **ELEPHAS MAXIMUS**
 Common Name: **Asiatic elephant**

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	14.43	4.409	5.800	33.30	(1779)
RBC	*10 ⁶ /UL	3.06	0.51	1.78	5.15	(1501)
HGB	GM/DL	13.2	2.2	6.6	24.9	(1568)
HCT	%	37.1	6.0	20.3	68.0	(1890)
MCH	MG/DL	43.3	4.8	16.6	63.2	(1464)
MCHC	uug	35.4	3.6	16.9	68.6	(1536)
MCV	fL	122.3	13.4	47.1	213.2	(1491)
SEGS	*10 ³ /UL	4.822	2.925	0.291	23.90	(1502)
BANDS	*10 ³ /UL	1.402	2.124	0.000	11.40	(307)
LYMPHOCYTES	*10 ³ /UL	5.243	3.223	0.196	20.60	(1513)
MONOCYTES	*10 ³ /UL	3.677	2.909	0.000	9.983	(1273)
EOSINOPHILS	*10 ³ /UL	0.465	0.551	0.000	4.520	(1093)
BASOPHILS	*10 ³ /UL	0.173	0.105	0.000	0.508	(119)
NRBC	/100 WBC	1	1	0	3	(85)
PLATE. CNT.	*10 ³ /UL	469	215	121	1394	(428)
RETICS	%	0.8	1.6	0.0	4.4	(10)
GLUCOSE	MG/DL	91	21	33	223	(1257)
BUN	MG/DL	13	4	4	30	(1260)
CREAT.	MG/DL	1.6	0.4	0.7	3.3	(1230)
URIC ACID	MG/DL	0.2	0.3	0.0	3.4	(286)
CA	MG/DL	10.6	0.8	7.8	14.8	(1184)
PHOS	MG/DL	5.0	1.2	1.9	11.1	(724)
NA	MEQ/L	130	6	99	181	(859)
K	MEQ/L	4.6	0.5	3.2	6.6	(861)
CL	MEQ/L	89	4	77	103	(731)
IRON	MCG/DL	65	23	29	158	(82)
MG	MG/DL	2.10	0.53	0.00	2.90	(68)
HCO3	MMOL/L	26.3	3.0	19.0	32.3	(55)
CHOL	MG/DL	48	19	0	189	(599)
TRIG	MG/DL	61	42	10	329	(745)
T.PROT. (C)	GM/DL	8.1	0.8	5.8	11.3	(1227)
T.PROT. (R)	GM/DL	8.4	0.4	7.8	9.2	(23)
ALBUMIN (C)	GM/DL	3.2	0.5	1.9	4.7	(648)
GLOBULIN (C)	GM/DL	5.0	1.0	2.7	8.6	(639)
AST (SGOT)	IU/L	22	11	4	97	(1227)
ALT (SGPT)	IU/L	7	8	0	72	(781)
T. BILI.	MG/DL	0.2	0.2	0.0	1.2	(765)
D. BILI	MG/DL	0.1	0.1	0.0	1.3	(233)
I. BILI.	MG/DL	0.1	0.1	0.0	0.6	(224)
AMYLASE	U/L	3017	2492	0	9866	(170)
ALK.PHOS.	IU/L	143	66	28	641	(1157)
LDH	IU/L	655	703	46	4769	(495)

Clinical Pathology Records Report - ISIS/In-House Reference Values
 BUTTONWOOD PARK ZOO

Scientific name: **ELEPHAS MAXIMUS**
 Common Name: **Asiatic elephant**

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
CPK	IU/L	225 +	170	23	1260	(486)
OSMOLARITY	MOSMOL/L	264 +	29	0	325	(98)
ALPHA GLOB.	MG/DL	250.4 +	353.1	0.7	500.0	(2)
ALPHA-1 GLOB	MG/DL	0.8 +	0.1	0.7	1.0	(6)
ALPHA-2 GLOB	MG/DL	0.9 +	0.2	0.7	1.1	(6)
BETA GLOB.	MG/DL	1.0 +	0.6	0.6	1.4	(2)
Body Temperature:		36.3 +	0.5	36.0	37.0	(4)
CO2	MMOL/L	24.8 +	4.0	15.8	37.0	(230)
CORTISOL	UG/DL	2.0 +	1.0	0.5	5.4	(35)
ESR	MM/HR	98 +	32	53	130	(7)
FIBRINOGEN	MG/DL	371 +	181	0	810	(238)
GGT	IU/L	7 +	5	0	33	(314)
LIPASE	U/L	19 +	30	0	127	(53)
PROGESTERONE	NG/DL	18.82 +	62.45	0.020	346.0	(379)
TESTOSTERONE	NG/ML	20.34 +	27.95	0.570	40.10	(2)
A-TOCOPHEROL	UG/DL	19 +	15	0	42	(8)
TOTAL T4	MCG/DL	10.0 +	2.7	4.2	12.6	(10)
T3 UPTAKE	%	28 +	2	26	29	(2)
ALBUMIN (E)	GM/DL	4.1 +	0.6	3.5	4.9	(4)
GAMMA GLOB	GM/DL	2.9 +	2.9	0.0	9.0	(11)

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE 1/2/14 WEATHER Snow 30° AREA Elephants KEEPER(S) KVS/SF

ARKS CODES

- Veterinary
- MO-Medical Observation
- MT-Medical Treatment
- MP- Medical Procedure
- MF- Fecal Check
- V- Vaccination

- Dietary
- QD- Diet

- Enrichment
- EN-Enrichment
- QT- Training/Conditioning

- Animal Management
- NA- Acquisition Note
- NB- Birth Note
- NP- Possible Parents
- NM- Missing/Escaped
- NX- Death Note
- B- Behavior Note
- O- Breeding Management
- MH- Foot Management
- PS- Shed/Moult
- ID- Identification
- SY- Egg Lay Date
- SM- Weight/Length

- Behavior
- R- Reproductive Behavior
- RC- Copulatory Behavior
- RG- Gestation Behavior
- RP- Parturition Behavior
- RO- Nesting Behavior

IN-HOUSE CODES

- BAR- Bright/Alert/Responsive
- QAR- Quiet/Alert/Responsive
- PE- Physical Exam
- WNL- Within Normal Limits
- NPO- No Food or Water
- Rx- Prescription
- SID- Once Daily
- BID- Twice Daily
- TID- Three Times Daily
- QID- Four Times Daily
- OD- Right Eye
- OS- Left Eye
- OU- Both Eyes
- AD- Right Ear
- AS- Left Ear
- AU- Both Ears
- NWB- Non-weight Bearing
- FE-Food Enrichment
- EE-Environmental Enrichment
- BE- Behavioral Enrichment
- TE- Training Enrichment
- NI- No Interest in Food
- ♂- Male
- ♀- Female
- Change

(Please enter species/common name, accession numbers and codes)

ASEL 0.2 appear normal

QD dry hay 0.2 66lbs
 PM hay 4- 46lbs
 5- 34lbs

EN 0.2 • gHatta hay
 • P.C. powerwash bath
 • foot stand
 • went outside in snow for 20 min
 • scattered grain inside barn

MH 4- left hind - some nail
 5- right front - some nail

* hosed down sand

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE 1/11/14 WEATHER Cold 20° AREA Elephants KEEPER(S) KUS/RC

ARKS CODES

- Veterinary
- MO-Medical Observation
- MT-Medical Treatment
- MP- Medical Procedure
- MF- Fecal Check
- V- Vaccination

- Dietary
- QD- Diet

- Enrichment
- EN-Enrichment
- QT- Training/Conditioning

- Animal Management
- NA- Acquisition Note
- NB- Birth Note
- NP- Possible Parents
- NM- Missing/Escaped
- NX- Death Note
- B- Behavior Note
- O- Breeding Management
- MH- Foot Management
- PS- Shed/Moult
- ID- Identification
- SY- Egg Lay Date
- SM- Weight/Length

- Behavior
- RC- Reproductive Behavior
- RC- Copulatory Behavior
- RG- Gestation Behavior
- RP- Parturition Behavior
- RO- Nesting Behavior

IN-HOUSE CODES

- BAR- Bright/Alert/Responsive
- QAR- Quiet/Alert/Responsive
- PE- Physical Exam
- WNL- Within Normal Limits
- NPO- No Food or Water
- Rx- Prescription
- SID- Once Daily
- BID- Twice Daily
- TID- Three Times Daily
- QID- Four Times Daily
- OD- Right Eye
- OS- Left Eye
- OU- Both Eyes
- AD- Right Ear
- AS- Left Ear
- AU- Both Ears
- NWB- Non-weight Bearing
- FE- Food Enrichment
- EE- Environmental Enrichment
- BE- Behavioral Enrichment
- TE- Training Enrichment
- NI- No Interest in Food
- ♂- Male
- ♀- Female
- Change

(Please enter species/common name, accession numbers and codes)

ASEL 0.2 appear normal
5 - movement w/ drinking in AM
normal in PM

QD day hay 0.2 59lbs
PM hay 4- 43lbs
5- 42lbs

EN 0.2
 • scattered pine tree clippings
 • access to outside 2x
 • scattered grain around barn

* Happy New Year!

RC also in NAW
KUS also helped in NAW

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE Jan 3, 2014 WEATHER snow windy AREA Elephants KEEPER(S) Sam, MCo
~~below freezing~~

ARKS CODES

- Veterinary
- MO-Medical Observation
- MT-Medical Treatment
- MP- Medical Procedure
- MF- Fecal Check
- V- Vaccination

- Dietary
- QD- Diet

- Enrichment
- EN-Enrichment
- QT- Training/Conditioning

- Animal Management
- NA- Acquisition Note
- NB- Birth Note
- NP- Possible Parents
- NM- Missing/ Escaped
- NX- Death Note
- B- Behavior Note
- O- Breeding Management
- MH- Foot Management
- PS- Shed/Moult
- ID- Identification
- SY- Egg Lay Date
- SM- Weight/Length

- Behavior
- R- Reproductive Behavior
- C- Copulatory Behavior
- RG- Gestation Behavior
- RP- Parturition Behavior
- RO- Nesting Behavior

IN-HOUSE CODES

- BAR- Bright/Alert/Responsive
- QAR- Quiet/Alert/Responsive
- PE- Physical Exam
- WNL- Within Normal Limits
- NPO- No Food or Water
- Rx- Prescription
- SID- Once Daily
- BID- Twice Daily
- TID- Three Times Daily
- QID- Four Times Daily
- OD- Right Eye
- OS- Left Eye
- OU- Both Eyes
- AD- Right Ear
- AS- Left Ear
- AU- Both Ears
- NWB- Non-weight Bearing
- FE-Food Enrichment
- EE-Environmental Enrichment
- BE- Behavioral Enrichment
- TE- Training Enrichment
- NI- No Interest in Food
- ♂- Male
- ♀- Female
- Δ- Change

(Please enter species/common name, accession numbers and codes)

ASIAN Elephant 4 appear normal

ASIAN Elephant 5 - found outside in her exhibit @ 7:30 AM covered in ice Sam called Lenit C (SC) Sam and MCo were told to bring Ruth in the barn and to start warming her up
 For additional information please see clinical notes and other log book

EV/ #4 rec'd blanket to play with scattered alfalfa cubes xmas tree cereal keeper interaction

EV/ #4 rec'd 55lbs hay during day pm hay 40lbs

Senior Keeper _____

DVM _____

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE Jan 4, 2014 WEATHER 15° AREA Elephants KEEPER(S) Am, m, k
KVS

ARKS CODES

- Veterinary
- MO-Medical Observation
- MT-Medical Treatment
- MP- Medical Procedure
- MF- Fecal Check
- V- Vaccination

- Dietary
- QD- Diet

- Enrichment
- EN-Enrichment
- QT- Training/Conditioning

- Animal Management
- NA- Acquisition Note
- NB- Birth Note
- NP- Possible Parents
- NM- Missing/Escaped
- NX- Death Note
- B- Behavior Note
- O- Breeding Management
- MH- Foot Management
- PS- Shed/Moult
- ID- Identification
- SY- Egg Lay Date
- SM- Weight/Length

- Behavior
- Reproductive Behavior
- > Copulatory Behavior
- RG- Gestation Behavior
- RP- Parturition Behavior
- RO- Nesting Behavior

IN-HOUSE CODES

- BAR- Bright/Alert/Responsive
- QAR- Quiet/Alert/Responsive
- PE- Physical Exam
- WNL- Within Normal Limits
- NPO- No Food or Water
- Rx- Prescription
- SID- Once Daily
- BID- Twice Daily
- TID- Three Times Daily
- QID- Four Times Daily
- OD- Right Eye
- OS- Left Eye
- OU- Both Eyes
- AD- Right Ear
- AS- Left Ear
- AU- Both Ears
- NWB- Non-weight Bearing
- FE-Food Enrichment
- EE-Environmental Enrichment
- BE- Behavioral Enrichment
- TE- Training Enrichment
- NI- No Interest in Food
- ♂- Male
- ♀- Female
- Δ- Change

(Please enter species/common name, accession numbers and codes)

ASIAN Elephant 4 - appears normal

ASIAN Elephant 5 - please see clinical notes and other log

<u>(D)</u>	<u>DAY hay</u>	<u>4+5</u>	<u>60lbs</u>
	<u>pm hay</u>	<u>4</u>	<u>45lbs</u>
		<u>5</u>	<u>25lbs</u>

(E) o.i.a scattered alfalfa
yoquut covered raisins
scattered cereal
sugar cone
alfalfa hay
keeper interaction

Am also in Domestics
KVS helped in Domestics

Senior Keeper _____

DVM _____

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE 1/5/14 WEATHER Sunny 20's AREA Elephants KEEPER(S) KVS/RC
DSV

ARKS CODES

- Veterinary
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(Please enter species/common name, accession numbers and codes)

ASBL 4- appears normal
5- please see clinical notes &
other logs.

QD-
Day half 63lbs
4- 42lbs overnight
5- 31 lbs overnight

Scattered treats,
drumming
R.T
shifted around.

RC also in KRW

Senior Keeper _____

DVM _____

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE 1/16/14 WEATHER Rain/overcast AREA Elephants KEEPER(S) KVS/RO/AV
40's

ARKS CODES

- Veterinary
- MO-Medical Observation
- MT-Medical Treatment
- MP- Medical Procedure
- MF- Fecal Check
- V- Vaccination

- Dietary
- QD- Diet

- Enrichment
- EN-Enrichment
- QT- Training/Conditioning

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- RC- Copulatory Behavior
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(Please enter species/common name, accession numbers and codes)

ASEL 4- appears normal
5- please see clinical notes & other logs

QD- Day nay 57lbs
4- 40lbs overnight
5 34lbs overnight

RO- New sand came in scattered treats alfalfa cubes K.I

4- was very excited when sand was being moved rumbling roaring & running around exhibit

sic helped cover elephants RO also in NAW KVS sent home early by sic AV also in domestics

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE 1/7/14 WEATHER Sun ^30s AREA Elephants KEEPER(S) KWS/sam/EC
Dr/mw.

ARKS CODES

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ASEL @ 4-appears normal
5- please see clinical notes & other logs

QD- Day hay 0.2 7lbs.

4- 46lbs
5- 27lbs

Scattered treats
drumming, ♀
alfalfa cubes.
K.I

MW also in NAW
SAM also in Domestic
~~QD QD QD QD QD~~

BUTTONWOOD PARK ZOO DAILY KEEPER REPORT

DATE Jan 8 2014 WEATHER very cold 20° AREA elephants KEEPER(S) Ann RC mlu

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(Please enter species/common name, accession numbers and codes)

ASIAN Elephant 4 appear normal
 ASIAN Elephant 5 - please see clinical notes
 and other logs

Day hay 55lbs
 pm hay 4 - 40lbs
 5 30lbs

ES 0.2 cereal
 Jelling
 yogurt cover raisins

hosed sand

Senior Keeper _____

DVM _____