



30/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 29D

Date 30/01/2016 **Time** 00:00 **Note Author** Jennifer D'Agostino

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

Note Subtype: General

Notes/Comments

Brief visual and physical examination. Conspecific Chai (776414) was found deceased in the yard this morning. On exam Bamboo is bright, alert and active. Eyes are clear, oral cavity is normal (no mucosal ulcerations or discolorations). Body condition is excellent. There are no external lesions noted. Appetite is excellent and animal is participating in training sessions normally. No diarrhea is noted in the yard or indoor stalls.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

24/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 23D

Date 24/01/2016 **Time** 00:00 **Note Author** Jennifer D'Agostino

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

Note Subtype: General

Notes/Comments

Rechecked front left foot. The swelling is almost completely resolved over digit 3. The open areas remain open but there has been no further drainage of purulent material. Tissues appear healthy and the foot is healing very well. Keepers continue to flush daily and keep the area clean. It will take some time for the nail to completely heal and grow out but it should heal without complications. Plan to visually recheck in one week.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

18/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 17D

Date 18/01/2016 **Time** 00:00 **Note Author** Jennifer D'Agostino



Significant Private Active Problems

No No ~

Note Subtype: General

Notes/Comments

Rechecked front left foot swelling. Today on visual exam the animal remains alert, active and behaviorally normal. The swelling at the cuticle of left front digit three remains the same. The exposed tissue at the toenail crack remains healthy and there is no discharge or drainage noted. The nail medial to the opening remains abnormally soft. On further exam of the foot, there was a small amount of thick, white, purulent material noted at the lateral edge of the cuticle over digit three. The area was opened and a small amount of purulent debris was removed. Suspect that an abscess is still developing and tracks across the top of the toenail along the cuticle. Keepers will continue to keep the area open, flushed and cleaned. Koppertox will be applied as needed during foot work. SUSpect the abscess will continue to develop and eventually drain from the lateral and medial edges of the cuticle.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

13/01/2016

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 12D

Basic Info

Date Written 12/01/2016
Start Date 13/01/2016 00:00
Prescribed By Jennifer D'Agostino
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 12/01/2016
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes



Treatment Detail

Treatment Item/Drug	Ibuprofen (800 mg Solid > Tablet) (Ibuprofen)			Form Of Drug	Tablet
Dose Amount	20,000 mg	Frequency	twice a day (bid)	Concentration Of Drug	
Dosage Amount	4.638 mg/kg	Duration	3days	800 mg	
Administrated Dose Quantity	20 count	Delivery Route	Oral (p.o.)		
		Loading Dose	~		

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 20,000 mg (25 tablets) orally twice daily for 3 days.

Prescription Notes/Comments

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 12D

Basic Info

Date Written	12/01/2016
Start Date	13/01/2016 00:00
Prescribed By	Jennifer D'Agostino
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	12/01/2016
Measurement Value	3,450 kg
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	KOPERTOX (37.5 % (c) Liquid) (COPPER NAPHTHENATE)		
Dose Amount	~	Frequency	once a day (sid)
Dosage Amount	~	Duration	7days
Administrated Dose Quantity	~	Delivery Route	Topical
		Loading Dose	~
		Form Of Drug	Liquid
		Concentration Of Drug	
		37.5 % (c)	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Apply Kopertox to affected area of right front foot digit 3 once daily for 7 days.

Prescription Notes/Comments

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Calendar Items

Date	Title	Assigned To	Done
19/01/2016	776313 / Asian elephant / 13130699 KOPERTOX treatment is complete	Jennifer D'Agostino	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

12/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 11D

Date	Time	Note Author
12/01/2016	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Rechecked right front foot. There is still an area of swelling present over digit three and the area is warm to the touch. Keepers have kept the nail crack open and there is still exposed, apparently healthy tissue. At the medial aspect of the cuticle over digit three, there is an area of gray-ish discoloration associated with the ventral aspect of the swelling. In addition the plantar surface of the toenail medial to the crack is also softer than normal. Suspect that an abscess could still be forming but has not fully developed yet to the point of rupture. Instructed keepers to flush the area with the hose daily for hydrotherapy and to keep the area clean. Plan to start a course of ibuprofen to help reduce inflammation and have keeper apply koppertox to the nail crack area to aid in healing. Keepers will work on refresher training for foot radiographs with this animal and we will schedule to radiograph the affected area. The animal is not painful or uncomfortable on the foot and is behaving and eating normally.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

05/01/2016



Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 4D

Date 05/01/2016 **Time** 00:00 **Note Author** Jennifer D'Agostino
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Routine monthly CBC is unremarkable.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 4D

Test Request Detail

Date Requested 05/01/2016
Requested By Lynnette Waugh
Analysis Start Date & Time 05/01/2016 13:30
Analysis By Liz McCrae
Analysis Equipment VetScan HM5
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

Slide Evaluation: Bilobed Monocytes [m]: 8%



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Exclud. from RI	Reviewed
WBC	13.40 *10 ⁹ cells/L	~	7.1	19.9	~	No	No
RBC [a]	3.10 *10 ¹² cells/L	~	2.15	3.98	~	No	No
HGB [a]	13.8 g/dL	~	8.7	16.5	~	No	No
HCT [a]	34.27 %	~	25.6	47.9	~	No	No
MCV	110 fL	~	94.8	143.9	~	No	No
MCH [a]	44.4 pg	~	31	50	~	No	No
MCHC	40.2 g/dL	~	28.0	40.1	High	No	No
RDW	20.4 %	~	~	~	~	~	No
Platelets	246 *10 ⁹ cells/L	~	~	~	~	No	No
Plateletcrit	0.17 %	~	~	~	~	~	No
Mean Plate. Vol.	6.8 fL	~	~	~	~	No	No
PDW-cv	29.1 %	~	~	~	~	~	No
Neutrophil % [m]	19 %	~	~	~	~	No	No
Lymphocyte % [m]	8 %	~	~	~	~	No	No
Monocyte % [m]	63 %	~	~	~	~	No	No
Eosinophil % [m]	1 %	~	~	~	~	No	No
Basophil % [m]	1 %	~	~	~	~	No	No
HCT [m]	37 %	~	25.6	47.9	~	No	No
Anisocytosis	moderate (3+)	~	~	~	~	~	No
Poikilocytosis	rare (1+)	~	~	~	~	~	No
Target Cells	few (2+)	~	~	~	~	~	No

Sample Detail (GSN: S-WCD16-040672)

Collection Date/Time	05/01/2016 00:00	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	Recheck/Follow-up
Additives/Preservatives	EDTA, Potassium	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 4D

Test Request Detail

Date Requested	05/01/2016
Requested By	Lynnette Waugh
Analysis Start Date & Time	05/01/2016 00:00
Analysis By	Liz McCrae
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

~



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Total Protein (R)	9.4 g/dL	~	6.5	9.6	~	No	No

Sample Detail (GSN: S-WCD16-040671)

Collection Date/Time	05/01/2016 00:00	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	Recheck/Follow-up
Additives/Preservatives	EDTA, Potassium	Exclude from reference intervals	No

04/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 3D

Date	Time	Note Author
04/01/2016	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Rechecked left front digit 3. The swelling over the left front digit 3 is resolved and the area is only mildly warm to the touch. Keepers were able to trim open the chronic fissure in the nail yesterday to relieve any pressure that may have built up. There was no purulent discharge, only a small amount of blood from the opening in the nail. Today the exposed tissue is healthy and appears to be healing well. The animal is not sore or tender on the foot at all and maintains normal behavior, activity level and appetite. Suspect a small abscess tract was forming in the nail and is resolving. Keepers will continue to clean and flush the area daily and keep the nail trimmed to allow for healing and normal growth.

Also rechecked the thinning areas on the back foot pads. The pad over the caudal lateral aspects of both back feet are much improved and returning to normal thickness.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

02/01/2016

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 1D

Date	Time	Note Author
02/01/2016	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Recheck of animal in stall. The wound on the tail is dry and healing well. The left front foot swelling is reduced but warmth is still present. On the nail, the fissure has some underlying soft white tissue exposed and the surrounding nail has become softened. Keepers are monitoring and caring for this daily. This may open further as the nail grows out.

Animal Care Staff Medical Summary

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Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

01/01/2016

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 0D

Basic Info	
Date Written	01/01/2016
Start Date	01/01/2016 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info	
Date	01/01/2016
Measurement Value	3,450 kg
Estimate	Yes
Exclude From Reference Intervals	Yes

Treatment Detail			
Treatment Item/Drug	RED CELL		
Dose Amount	75 g	Frequency	once a day (sid)
Dosage Amount	0.022 g/kg	Duration	365days
Administrated Dose Quantity	75 g	Delivery Route	Oral (p.o.)
		Loading Dose	~
		Form Of Drug	~
		Concentration Of Drug	
		~	

Treatment Response	
Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions
Give 75 g of RED CELL, once a day (sid) for 365 days. Start treatment on 01/01/2016 Administration route: Oral (p.o.)

Prescription Notes/Comments
~

Calendar Items			
Date	Title	Assigned To	Done
30/12/2016	776313 / Asian elephant / 13130699 RED CELL treatment is complete	Gretchen Cole	No

Dispensing Records		
Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records			
Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 0D

Basic Info

Date Written 01/01/2016
Start Date 01/01/2016 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 01/01/2016
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes

Treatment Detail

Treatment Item/Drug A + D Ointment (Semisolid > Ointment) (BAYER WUP)
Dose Amount 1 g **Frequency** once a day (sid) **Form Of Drug** ~
Dosage Amount 0.000 g/kg **Duration** 60days **Concentration Of Drug**
Administrated Dose Quantity 1 g **Delivery Route** Topical ~
Loading Dose ~

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Apply 1 g of A & D OINTMENT, once a day (sid) for 60 days.
 Start treatment on 01/01/2016
 Administration route: Topical

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
29/02/2016	776313 / Asian elephant / 13130699 A & D OINTMENT treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 0D



Basic Info

Date Written 01/01/2016
Start Date 01/01/2016 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 01/01/2016
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes

Treatment Detail

Treatment Item/Drug Emcelle (500 IU/ml Liquid > Solution) (Tocopherol)
Dose Amount 10,000 IU **Frequency** once a day (sid) **Form Of Drug** Solution
Dosage Amount 2.899 IU/kg **Duration** 365days **Concentration Of Drug** 500 IU/ml
Administrated Dose Quantity 20 ml **Delivery Route** Oral (p.o.)
Loading Dose ~

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Give 10,000 IU [20 ml] of Emcelle, once a day (sid) for 365 days.
 Start treatment on 01/01/2016
 Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2016	776313 / Asian elephant / 13130699 Emcelle treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 2M 0D

Basic Info

Date Written 01/01/2016
Start Date 01/01/2016 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 01/01/2016
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes



Treatment Detail

Treatment Item/Drug	Cosequin Equine (726.7 mg/g Solid > Powder) (Chondroitin sulfate (Nutriceutical Grade); Glucosamine Hydrochloride (Nutriceutical Grade)) (NUTRAMAX)		
Dose Amount	23,981.1 mg	Frequency	once a day (sid)
Dosage Amount	6.951 mg/kg	Duration	365days
Administrated Dose Quantity	33 g	Delivery Route	Oral (p.o.)
		Loading Dose	~
		Form Of Drug	Powder
		Concentration Of Drug	
		726.7 mg/g	

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Give 23,981.1 mg [10 scoops; 33 g] of Cosequin Equine, once a day (sid) for 365 days.
 Start treatment on 01/01/2016
 Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2016	776313 / Asian elephant / 13130699 Cosequin Equine treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

31/12/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 30D

Date 31/12/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Keeper (BF) reported this animal to have sustained a tail wound. Examination of animal in stall. It was alert and moving well. There is a 9x3cm wound on the left ventral distal tail approximately 6cm from the tip. It is fresh and bleeding had just stopped. Keepers did not see injury by suspect a bite wound by a conspecific. The wound was cleaned and dried. This animal is already on firocoxib which should help alleviate inflammation and pain. Expect this to heal without issue. The left front foot was also reevaluated and swelling is still present over the distal digit 3 and today there is increased warmth upon palpation. Animal did not exhibit discomfort during examination. Continue to monitor both conditions.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~



30/12/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 29D

Date 30/12/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Supervisor (NN) reported an area of increased warmth over the left front digit 3. Examination of animal in stall confirmed the warmth and mild swelling localized over P2 of the digit, no pain or discomfort was elicited. The corresponding nail has had a chronic fissure that has been slowly growing out. Uncertain if this is related. No evidence of infection at this time. Will prescribe antiinflammatory medications and monitor.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 29D

Basic Info

Date Written 30/12/2015
Start Date 30/12/2015 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 30/12/2015
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes



Treatment Detail

Treatment Item/Drug	Firocoxib (227 mg Solid > Tablet) (Firocoxib)		
Dose Amount	454 mg	Frequency	once a day (sid)
Dosage Amount	0.132 mg/kg	Duration	5days
Administrated Dose Quantity	2 count	Delivery Route	Oral (p.o.)
		Loading Dose	~
		Form Of Drug	Tablet
		Concentration Of Drug	
		227 mg	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 454 mg [2 count] of Firocoxib, once a day (sid) for 5 days.
Start treatment on 30/12/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

19/12/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 18D

Date	Time	Note Author
19/12/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Recheck of skin fissure on right hip. The fissure is wider than previous, but it looks like the dried scab has fallen off causing it to look wider. The underlying tissue is clean, dry, and pink in color. Will continue to monitor.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

18/12/2015



Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 17D

Date 18/12/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Keepers report this animal has returned to normal.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

17/12/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 16D

Date 17/12/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Keepers report this animal is showing signs of abdominal discomfort but is eating and defecating normally. Visual examination of animal in stall. It was alert but quiet. Eyes were droopy. Oral mucous membranes were pink. Animal was constantly moving back legs and squeezing inward. This animal has an intermittent history of abdominal discomfort sometimes diagnosed as colic, but may also be due discomfort from uterine pathology. Treatment with mineral oil and firocoxib is often effective. Will begin treatment.

Addendum: Keepers report animal was behaving normally on exhibit in the afternoon.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 16D



Basic Info

Date Written 17/12/2015
Start Date 17/12/2015 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 17/12/2015
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes

Treatment Detail

Treatment Item/Drug OIL, MINERAL
Dose Amount 1 gal liq (US) **Frequency** once a day (sid) **Form Of Drug** ~
Dosage Amount ~ **Duration** 2days
Administrated Dose Quantity 1 gal liq (US) **Delivery Route** Oral (p.o.) ~
Loading Dose ~

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Give 1 gal liq (US) of OIL, MINERAL, once a day (sid) for 2 days.
 Start treatment on 17/12/2015
 Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 16D

Basic Info

Date Written 17/12/2015
Start Date 17/12/2015 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 17/12/2015
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes



Treatment Detail

Treatment Item/Drug	Firocoxib (227 mg Solid > Tablet) (Firocoxib)			Form Of Drug	Tablet
Dose Amount	454 mg	Frequency	once a day (sid)	Concentration Of Drug	
Dosage Amount	0.132 mg/kg	Duration	2days	227 mg	
Administrated Dose Quantity	2 count	Delivery Route	Oral (p.o.)		
		Loading Dose	~		

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 454 mg [2 count] of Firocoxib, once a day (sid) for 2 days.
Start treatment on 17/12/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

16/12/2015

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 15D

Basic Info

Date Written	15/12/2015
Start Date	16/12/2015 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	15/12/2015
Measurement Value	3,450 kg
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	Emcelle Tocopherol	Frequency	once a day (sid)	Form Of Drug ~
Dose Amount	20 ml	Duration	15doses	Concentration Of Drug
Dosage Amount	0.006 ml/kg	Delivery Route	Oral (p.o.)	~
Administrated Dose Quantity	20 ml	Loading Dose	~	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 20 ml of Emcelle Tocopherol, once a day (sid) for 15 doses.
Start treatment on 16/12/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2015	776313 / Asian elephant / 13130699 Emcelle Tocopherol treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

08/12/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 7D

Date	Time	Note Author
08/12/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Routine CBC performed. Results are normal.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 7D

Test Request Detail

Date Requested	08/12/2015
Requested By	Jennifer D'Agostino
Analysis Start Date & Time	08/12/2015 11:46
Analysis By	Liz McCrae
Analysis Equipment	VetScan HM5
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
Slide Evaluation: Bilobed Monocytes [m]: 4%

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
WBC	13.15 *10 ⁹ cells/L	~	7.1	19.9	~	No	No
RBC [a]	3.02 *10 ¹² cells/L	~	2.15	3.98	~	No	No
HGB [a]	13.2 g/dL	~	8.7	16.5	~	No	No
HCT [a]	32.94 %	~	25.6	47.9	~	No	No
MCV	109 fL	~	94.8	143.9	~	No	No
MCH [a]	43.5 pg	~	31	50	~	No	No
MCHC	39.9 g/dL	~	28.0	40.1	~	No	No
RDW	21.5 %	~	~	~	~	~	No
Platelets	239 *10 ⁹ cells/L	~	~	~	~	No	No
Plateletcrit	0.17 %	~	~	~	~	~	No
Mean Plate. Vol.	6.9 fL	~	~	~	~	No	No
PDW-cv	29.6 %	~	~	~	~	~	No
Neutrophil % [m]	28 %	~	~	~	~	No	No
Lymphocyte % [m]	12 %	~	~	~	~	No	No
Monocyte % [m]	56 %	~	~	~	~	No	No
HCT [m]	33 %	~	25.6	47.9	~	No	No
Anisocytosis	moderate (3+)	~	~	~	~	~	No
Target Cells	rare (1+)	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-040505)

Collection Date/Time	08/12/2015 00:00	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	Routine
Additives/Preservatives	EDTA, Potassium	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 7D



Test Request Detail	
Date Requested	08/12/2015
Requested By	Jennifer D'Agostino
Analysis Start Date & Time	08/12/2015 00:00
Analysis By	Liz McCrae
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Colorless
Color Intensity	~
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Total Protein (R)	9.2 g/dL	~	6.5	9.6	~	No	No

Sample Detail (GSN: S-WCD15-040504)			
Collection Date/Time	08/12/2015 00:00	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	Routine
Additives/Preservatives	EDTA, Potassium	Exclude from reference intervals	No

02/12/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 1M 1D

Test Request Detail	
Date Requested	02/12/2015
Requested By	Gretchen Cole
Analysis Start Date & Time	02/12/2015 00:00
Analysis By	Julia Jones
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Brown/Tan
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Direct Exam.	No parasites found	~	~	~	~	~	No
Sheather's/Centrifug	No parasites found	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-040442)			
Collection Date/Time	02/12/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Keeper Staff
Anatomical Source/Tissue	~	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

29/11/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 28D



Date 29/11/2015 **Time** 00:00 **Note Author** Jennifer D'Agostino
Significant Private **Active Problems** No No ~

Note Subtype: General

Notes/Comments

Rechecked sole thinning and redness. Keepers report behavior and appetite remain normal. Gait and mobility are normal. The soft, red areas on the front feet are improved. The sole is starting the toughen back up and the redness is reduced. The areas on the rear feet are also improved with reduced redness. The affected areas are still soft but not quite as much as noted initially. Keepers are continuing to monitor her movements and keeping her on natural substrate. Plan to recheck in one week.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

25/11/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 24D

Date 25/11/2015 **Time** 00:00 **Note Author** Jennifer D'Agostino
Significant Private **Active Problems** No No ~

Note Subtype: General

Notes/Comments

Keepers called to report that her foot pads appeared a bit thin today in some areas. On exam the elephant is bright, alert and active. She is participating in training sessions normally, is ambulating normally and has a normal appetite. On inspection of the front feet, both front feet have thin areas of foot pad at the posterior-central aspect of the foot. The area is slightly reddened in color and is soft to the touch. On the right rear foot, the posterior lateral aspect of the pad and the pad over digit 2 is thin, reddened and soft to the touch. The pad over the central portion of the foot is thinner than normal but is not red or soft. On the left rear foot, the posterior-lateral aspect of the foot pad is thin, reddened and soft to the touch. The remainder of the pad is normal. She shows no sign of pain or discomfort on palpation of the feet. Three nights ago the herd was inside the barn overnight due to weather. The females were given access to the entire side of the barn including the sand stall. Bamboo chose to spend the evening in one of the stalls on the concrete floor. The time spent walking on the concrete floor caused some excess wear and thinning of the foot pads.

Assessment: The excess foot pad wear does not appear to be causing any pain or discomfort. Plan to allow access only to sand or natural substrate outdoors. The pads will continue to grow normally and they should return to normal fairly quickly. If any additional thinning of the pads are noted, consider applying sole guard for a short period of time.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

19/11/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 18D

Date 19/11/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant Private **Active Problems** No No ~

Note Subtype: General



Notes/Comments

Recheck of skin fissure on right hip during bathing session. The fissure is greatly improved and the surrounding tissue is softened and closing the wound. Will plan to continue topical therapy and recheck.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 18D

Basic Info

Date Written 19/11/2015
Start Date 19/11/2015 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 19/11/2015
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes

Treatment Detail

Treatment Item/Drug A + D Ointment (Semisolid > Ointment) (BAYER WUP)
Dose Amount 1 g **Frequency** once a day (sid) **Form Of Drug** ~
Dosage Amount 0.000 g/kg **Duration** 42days **Concentration Of Drug** ~
Administrated Dose Quantity 1 g **Delivery Route** Topical
Loading Dose ~

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Apply 1 g of A & D OINTMENT, once a day (sid) for 42 days.
 Start treatment on 19/11/2015
 Administration route: Topical

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2015	776313 / Asian elephant / 13130699 A & D OINTMENT treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~



12/11/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 11D

Date 12/11/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Received results of serum vitamin E analysis. This animal's result, 0.52 ug/ml is below recommended level of 0.80 ug/ml. Will discuss additional supplementation.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

03/11/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	49Y 0M 2D

Test Request Detail

Date Requested 03/11/2015
Requested By Jennifer D'Agostino
Laboratory MSU DCPAH
Analysis Start Date 07/11/2015
Analysis Equipment ~
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

DCPAH Diagnostic Center for Population & Animal Health Report #: C15311005

Case Comments: In approximately 1000 elephant serum samples analyzed at DCPAH over the last five years the percentile values for serum vitamin E concentrations were 5th - 0.23, 25th - 0.5, 50th - 0.81, 75th - 1.19, and 95th - 2.02 ug/mL. These were all clinical samples received for analysis; no health or diet information was available. Many were repeat samples from the same animal.

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Vit. E HPLC	0.52 µg/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-040183)

Collection Date/Time 03/11/2015 00:00 **Collection Method** Phlebotomy
Sample Type Serum **Collected By** Keeper Staff
Anatomical Source/Tissue EAR VEIN **Reason** Routine
Additives/Preservatives ~ **Exclude from reference intervals** No

30/10/2015

Prescription/Treatment



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 29D

Basic Info

Date Written 30/10/2015
Start Date 30/10/2015 00:00
Prescribed By Gretchen Cole
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~

Weight Info

Date 30/10/2015
Measurement Value 3,450 kg
Estimate Yes
Exclude From Reference Intervals Yes

Treatment Detail

Treatment Item/Drug A + D Ointment (Semisolid > Ointment) (BAYER WUP)
Dose Amount 1 g **Frequency** twice a day (bid) **Form Of Drug** ~
Dosage Amount 0.000 g/kg **Duration** 14days **Concentration Of Drug**
Administrated Dose Quantity 1 g **Delivery Route** Topical ~
Loading Dose ~

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Apply 1 g of A & D OINTMENT, twice a day (bid) for 14 days.
 Start treatment on 30/10/2015
 Administration route: Topical

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
12/11/2015	776313 / Asian elephant / 13130699 A & D OINTMENT treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

29/10/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 28D

Date 29/10/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant Private **Active Problems**



No No ~

Note Subtype: General

Notes/Comments

Keeper (TR) reported a small skin abrasion on the right hip of this animal. Animal observed in stall to bright and alert. There is a 10cm linear fissure in the skin between naturally occurring skin folds. There is pink healthy tissue exposed at the center of the fissure. This is considered minor and only topical treatment is warranted. Softening of the scaly skin will likely allow good closure of this fissure. Will continue to monitor.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

20/10/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 19D

Date	Time	Note Author
20/10/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Supervisor called to report that Bamboo seems to have some gastrointestinal discomfort. The group has received pumpkins for enrichment over the past 2-3 days and yesterday Bamboo was noted to have excessive flatulence. Today she has been laying down in the stall intermittently during morning routine which is a sign of GI discomfort for her. She is eating normally, participating in training sessions fully and has no diarrhea. Fecal output is normal. Plan to start a 3 day course of firocoxib to reduce inflammation and discomfort and mineral oil to help with any constipation. Keepers will avoid giving her pumpkins in the future.

PM update: Shortly after morning visual exam, she passed some normal feces and appeared to be comfortable and normal afterward. Suspect that GI gas distension was causing discomfort. Plan to finish out prescriptions to ensure gut motility is maintained.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 19D

Basic Info

Date Written	20/10/2015
Start Date	20/10/2015 00:00
Prescribed By	Jennifer D'Agostino
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	20/10/2015
Measurement Value	3,450 kg
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	Firocoxib (227 mg Solid > Tablet) (Firocoxib)			Form Of Drug	Tablet
Dose Amount	454 mg	Frequency	once a day (sid)	Concentration Of Drug	227 mg
Dosage Amount	0.132 mg/kg	Duration	3days		
Administrated Dose Quantity	2 count	Delivery Route	Oral (p.o.)		
		Loading Dose	~		

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 454 mg (2 tablets) orally once daily for 3 days.

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 19D

Basic Info

Date Written	20/10/2015
Start Date	20/10/2015 00:00
Prescribed By	Jennifer D'Agostino
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	20/10/2015
Measurement Value	3,450 kg
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	OIL, MINERAL	Frequency	once a day (sid)	Form Of Drug ~
Dose Amount	1 gal liq (US)	Duration	3days	Concentration Of Drug
Dosage Amount	~	Delivery Route	Oral (p.o.)	~
Administrated Dose Quantity	1 gal liq (US)	Loading Dose	~	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 1 gallon mineral oil once daily for 3 days.

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

05/10/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 4D

Test Request Detail

Date Requested	05/10/2015
Requested By	Jennifer D'Agostino
Laboratory	National Zoo Departm
Analysis Start Date	06/10/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

~



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	0 ge/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-040458)

Collection Date/Time	05/10/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Preventative Health
Additives/Preservatives	~	Exclude from reference intervals	No

03/10/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 2D

Date 03/10/2015 **Time** 00:00 **Note Author** Gretchen Cole
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Routine complete blood count performed. No significant findings.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 2D



Test Request Detail

Date Requested 03/10/2015
Requested By Gretchen Cole
Analysis Start Date & Time 03/10/2015 00:00
Analysis By Liz McCrae
Analysis Equipment ~
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

Hets- 29%
 Bilobed- 6%
 HCT- 38%
 Total Protein- 9.2g/dl
 Occasional target cells
 Acanthocytosis- 1+

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
WBC	~ *10 ⁹ cells/L	~	7.1	19.9	~	No	~
Lymphocyte count [a]	~ *10 ⁹ cells/L	~	0.38	10.31	~	No	~
Monocyte count [a]	~ *10 ⁹ cells/L	~	0.000	9.227	~	No	~
Neutrophil count [a]	~ *10 ⁹ cells/L	~	0.95	8.77	~	No	~
Eosinophil count [a]	~ *10 ⁹ cells/L	~	0.000	0.830	~	No	~
Basophil count [a]	~ *10 ⁹ cells/L	~	0.000	0.135	~	No	~
Lymphocyte % [a]	26 %	~	~	~	~	No	Yes
Monocyte % [a]	39 %	~	~	~	~	No	Yes
Neutrophil % [a]	~ %	~	~	~	~	No	~
Eosinophil % [a]	~ %	~	~	~	~	No	~
Basophil % [a]	~ %	~	~	~	~	No	~
RBC [a]	3.20 *10 ¹² cells/L	~	2.15	3.98	~	No	Yes
HGB [a]	41.1 g/dL	~	8.7	16.5	High	No	Yes
HCT [a]	34.44 %	~	25.6	47.9	~	No	Yes
MCV	108 fL	~	94.8	143.9	~	No	Yes
MCH [a]	44.1 pg	~	31	50	~	No	Yes
MCHC	41.0 g/dL	~	28.0	40.1	High	No	Yes
RDW	20.3 %	~	~	~	~	~	Yes
Platelets	228 *10 ⁹ cells/L	~	~	~	~	No	Yes
Plateletcrit	0.15 %	~	~	~	~	~	Yes
Mean Plate. Vol.	6.6 fL	~	~	~	~	No	Yes
PDW-cv	28.5 %	~	~	~	~	~	Yes
Anisocytosis	few (2+)	~	~	~	~	~	Yes
Poikilocytosis	rare (1+)	~	~	~	~	~	Yes
Hyperchromasia	rare (1+)	~	~	~	~	~	Yes

Sample Detail (GSN: S-WCD15-039544)

Collection Date/Time 03/10/2015 00:00
Sample Type Whole Blood
Anatomical Source/Tissue EAR VEIN
Additives/Preservatives ~
Collection Method ~
Collected By Keeper Staff
Reason ~
Exclude from reference intervals No



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 11M 0D

Test Request Detail

Date Requested	01/10/2015
Requested By	Lynnette Waugh
Analysis Start Date & Time	01/10/2015 00:00
Analysis By	Julia Jones
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
WBC	~ *10 ⁹ cells/L	~	7.1	19.9	~	No	~
Lymphocyte count [a]	~ *10 ⁹ cells/L	~	0.38	10.31	~	No	~
Monocyte count [a]	~ *10 ⁹ cells/L	~	0.000	9.227	~	No	~
Neutrophil count [a]	~ *10 ⁹ cells/L	~	0.95	8.77	~	No	~
Eosinophil count [a]	~ *10 ⁹ cells/L	~	0.000	0.830	~	No	~
Basophil count [a]	~ *10 ⁹ cells/L	~	0.000	0.135	~	No	~
Lymphocyte % [a]	~ %	~	~	~	~	No	~
Monocyte % [a]	~ %	~	~	~	~	No	~
Neutrophil % [a]	~ %	~	~	~	~	No	~
Eosinophil % [a]	~ %	~	~	~	~	No	~
Basophil % [a]	~ %	~	~	~	~	No	~
RBC [a]	3.30 *10 ¹² cells/L	~	2.15	3.98	~	No	Yes
HGB [a]	13.9 g/dL	~	8.7	16.5	~	No	Yes
HCT [a]	35.40 %	~	25.6	47.9	~	No	Yes
MCV	107 fL	~	94.8	143.9	~	No	Yes
MCH [a]	42.2 pg	~	31	50	~	No	Yes
MCHC	93.3 g/dL	~	28.0	40.1	High	No	Yes
RDW	20.3 %	~	~	~	~	~	Yes
Platelets	213 *10 ⁹ cells/L	~	~	~	~	No	Yes
Plateletcrit	0.14 %	~	~	~	~	~	Yes
Mean Plate. Vol.	6.6 fL	~	~	~	~	No	Yes
PDW-cv	28.5 %	~	~	~	~	~	Yes

Sample Detail (GSN: S-WCD15-039535)

Collection Date/Time	01/10/2015 00:00	Collection Method	~
Sample Type	Whole Blood	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	~
Additives/Preservatives	~	Exclude from reference intervals	No



Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 10M 29D

Date 30/09/2015 **Time** 00:00 **Note Author** Lynnette Waugh
Significant No **Private** No **Active Problems** ~

Note Subtype: General

Notes/Comments

Routine serum chemistry.
 Albumin is mildly elevated at 4.5 g/dL (ISIS reference interval 2.3-4.2). 4/4 elephants tested today were all elevated (relative to their normal values and elephant ISIS interval). Will recheck the animal with the highest albumin in one to two weeks and the rest of the animals during routine lab work- suspect transient or spurious result.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

29/09/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 10M 28D

Test Request Detail

Date Requested 29/09/2015
Requested By Jennifer D'Agostino
Analysis Start Date & Time 29/09/2015 00:00
Analysis By Liz McCrae
Analysis Equipment VetScan VS2
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Albumin	4.5 g/dL	~	2.3	4.2	High	No	No
Alk. Phos. [a]	48 U/L	~	44	270	~	No	No
AST [a]	27 U/L	~	6	38	~	No	No
Ca	9.9 mg/dL	~	9.2	12.0	~	No	No
GGT [a]	5 U/L	~	1	15	~	No	No
Total Protein	8.4 g/dL	~	6.5	9.6	~	No	No
Globulin	4.0 g/dL	~	3.0	6.5	~	No	No
BUN	9 mg/dL	~	6.0	20.0	~	No	No
CK [a]	206 U/L	~	53	461	~	No	No
Phos	3.8 mg/dL	~	3.1	7.4	~	No	No
Mg	2.4 mg/dL	~	1.62	2.94	~	No	No



Sample Detail (GSN: S-WCD15-039508)

Collection Date/Time	29/09/2015 00:00	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Keeper Staff
Anatomical Source/Tissue	EAR VEIN	Reason	Opportunistic
Additives/Preservatives	~	Exclude from reference intervals	No

15/07/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 8M 14D

Date	Time	Note Author
15/07/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Will begin animal on nutrition supplement, Red Cell.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 8M 14D

Basic Info

Date Written	15/07/2015
Start Date	15/07/2015 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	15/07/2015
Measurement Value	8,600 lb
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	RED CELL	Frequency	once a day (sid)	Form Of Drug ~
Dose Amount	85 g	Duration	169doses	Concentration Of Drug
Dosage Amount	0.022 g/kg	Delivery Route	Oral (p.o.)	~
Administrated Dose Quantity	85 g	Loading Dose	~	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 85 g of RED CELL, once a day (sid) for 169 doses.
Start treatment on 15/07/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2015	776313 / Asian elephant / 13130699 RED CELL treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 8M 14D

Basic Info

Date Written	15/07/2015
Start Date	15/07/2015 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	15/07/2015
Measurement Value	8,600 lb
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	Cosequin Equine (726.7 mg/g Solid > Powder) (Chondroitin sulfate (Nutriceutical Grade); Glucosamine Hydrochloride (Nutriceutical Grade)) (NUTRAMAX)		
Dose Amount	25,200 mg	Frequency	once a day (sid)
Dosage Amount	6.460 mg/kg	Duration	169days
Administrated Dose Quantity	25,200 mg	Delivery Route	Oral (p.o.)
		Loading Dose	~
		Form Of Drug	Powder
		Concentration Of Drug	
		~	

Treatment Response

Clinical Response ~
Adverse Effects ~
Adverse Effects Note:

~

Staff Instructions

Give 25200 mg of COSEQUIN EQUINE POWDER CONCENTRATE (10.00 scoops of powder) orally, once a day for 365 days.

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
30/12/2015	776313 / Asian elephant / 13130699 COSEQUIN EQUINE POWDER CONCENTRATE treatment is complete	Gretchen Cole	No

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

09/07/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 8M 8D

Test Request Detail

Date Requested 09/07/2015
Requested By Jennifer D'Agostino
Laboratory National Zoo Departm
Analysis Start Date 09/07/2015
Analysis Equipment ~
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

~



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	0 ge/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD16-041474)

Collection Date/Time	09/07/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

02/07/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 8M 1D

Test Request Detail

Date Requested	02/07/2015
Requested By	Jennifer D'Agostino
Laboratory	National Zoo Departm
Analysis Start Date	02/07/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	0 ge/ml	~	~	~	~	~	No



Sample Detail (GSN: S-WCD16-041473)

Collection Date/Time	02/07/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

25/06/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 24D

Test Request Detail

Date Requested	25/06/2015
Requested By	Jennifer D'Agostino
Laboratory	National Zoo Departm
Analysis Start Date	26/06/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	0 ge/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD16-041472)

Collection Date/Time	25/06/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

23/06/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 22D



Test Request Detail	
Date Requested	23/06/2015
Requested By	Gretchen Cole
Laboratory	ANTECH
Analysis Start Date	23/06/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Fibrinogen [a]	263 mg/dL	~	1	927	~	No	No

Sample Detail (GSN: S-WCD15-038560)			
Collection Date/Time	23/06/2015 00:00	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Julia Jones
Anatomical Source/Tissue	EAR VEIN	Reason	Preventative Health
Additives/Preservatives	~	Exclude from reference intervals	No

12/06/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 11D

Date	Time	Note Author
12/06/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General
Notes/Comments
 Received results of Fecal testing collected 12 Jun 2015. Gastrointestinal disease PCR panel: negative. Fecal culture: no salmonella, shigella, yersinia isolated. Campylobacter: Negative at 24 hours

Animal Care Staff Medical Summary
~

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 11D



Test Request Detail	
Date Requested	12/06/2015
Requested By	Jennifer D'Agostino
Laboratory	ANTECH
Analysis Start Date	12/06/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

ANTECH Accession No. DLBC42349496
Fastpanel PCR Canine GI Profile
 Negative; Canine enteric coronavirus
 Negative; Campylobacter jejuni/coli
 Negative; Cryptosporidium spp
 Negative; Salmonella spp
 Negative; Giardia spp
 Negative; Clostridium difficile toxins A/B
 Negative; Clostridium perfringens enterotoxin
 Negative; Canine parvovirus

Fecal Culture
 Final Report; Mixed gastrointestinal flora isolated; No Salmonella, Shigella, Yersinia isolated

Campylobacter
 Negative for Campylobacter in 72 hours

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Enteric Path. Cult.	No clinically significant microorganism was isolated	~	~	~	~	~	~
Salmonella/Shigella	No clinically significant microorganism was isolated	~	~	~	~	~	~
Yersinia culture	No clinically significant microorganism was isolated	~	~	~	~	~	~
Campylobacter cultur	No clinically significant microorganism was isolated	~	~	~	~	~	~
Crypto. PCR	negative	~	~	~	~	~	No
Giardia PCR	negative	~	~	~	~	~	No
C diff toxin A/B PCR	negative	~	~	~	~	~	No
C perfringen culture	No clinically significant microorganism was isolated	~	~	~	~	~	~

Sample Detail (GSN: S-WCD15-038507)			
Collection Date/Time	12/06/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Julia Jones
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

11/06/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 10D



Test Request Detail	
Date Requested	11/06/2015
Requested By	Jennifer D'Agostino
Laboratory	National Zoo Departm
Analysis Start Date	11/06/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	0 ge/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD16-041470)			
Collection Date/Time	11/06/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

09/06/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 8D

Date	Time	Note Author
09/06/2015	00:00	Gretchen Cole

Significant	Private	Active Problems
No	No	~

Note Subtype: General
Notes/Comments
 Serum sample submitted for vitamin E evaluation
 Vitamin E: 0.60 ug/ml.
 This animal has a 6 year history of regular evaluation of vitamin E. This value is stable compared to recent evaluations.

Animal Care Staff Medical Summary
~

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

07/06/2015



Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 6D

Date 07/06/2015 **Time** 00:00 **Note Author** Jennifer D'Agostino

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

Note Subtype: General

Notes/Comments

Fecal Salmonella testing is negative. Keepers will shift Bamboo and Chai over to yard 2 today while still maintaining isolation from the rest of the herd until completion of quarantine on Wednesday.

Addendum: At the end of the day keeper (DB) called to report that Bamboo had a small area of edema on her abdomen. On visual exam Bamboo is alert and active. She is participating normally in training sessions. Appetite is normal and feces and urinations are normal. There is an area of dependent edema located on the left central abdomen (photograph obtained). Keeper had noted it yesterday as well and it has not changed in size. The area is soft and overlying skin is normal. There are no other swellings over the rest of the body. Eyes are clear and oral mucous membranes are normal. Suspect the edema will resolve unevenfully. Instructed keepers to perform hydrotherapy on the area during regular bath sessions.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

03/06/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 2D

Date 03/06/2015 **Time** 00:00 **Note Author** Gretchen Cole

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

Note Subtype: General

Notes/Comments

Received results of Fecal testing collected 3 Jun 2015. Gastrointestinal disease PCR panel was negative except for canine parvovirus was positive. This test came automatically with the requested Salmonella PCR, but was not desired. No signs of illness consistent with disease, therefore this is considered an aberrant test result. Fecal culture: no salmonella, shigella, yersinia isolated. Campylobacter: Negative at 24 hours.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 2D



Test Request Detail	
Date Requested	03/06/2015
Requested By	Gretchen Cole
Laboratory	ANTECH
Analysis Start Date	03/06/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments
 Antech Accession # DBLC42155572
 Canine enteric coronavirus Negative
 Campylobacter jejuni/coli Negative
 Cloe perfringens enterotoxin Negative
 Canine parvovirus : Pending results were inconclusive and further testing is being done

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Enteric Path. Cult.	No clinically significant microorganism was isolated	~	~	~	~	~	~
Salmonella/Shigella	No clinically significant microorganism was isolated	~	~	~	~	~	~
Yersinia culture	No clinically significant microorganism was isolated	~	~	~	~	~	~
Campylobacter cultur	No clinically significant microorganism was isolated	~	~	~	~	~	~
C diff toxin A/B PCR	negative	~	~	~	~	~	No
Crypto. PCR	negative	~	~	~	~	~	No
Giardia PCR	negative	~	~	~	~	~	No
Salmonella PCR	negative	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038429)			
Collection Date/Time	03/06/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Julia Jones
Anatomical Source/Tissue	~	Reason	Preventative Health
Additives/Preservatives	~	Exclude from reference intervals	No

02/06/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 1D

Date	Time	Note Author
02/06/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Blood collected for repeat chemistry analysis, mid-quarantine testing. All values are within normal limits.

Animal Care Staff Medical Summary

~



Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 1D

Test Request Detail		Sample Quality	
Date Requested	02/06/2015	Color	~
Requested By	Jennifer D'Agostino	Color Intensity	~
Analysis Start Date & Time	02/06/2015 00:00	Clarity	~
Analysis By	Jennifer D'Agostino	Consistency	~
Analysis Equipment	VetScan VS2	Additional Characteristics	~
Insufficient Sample	No	Degraded	No

Notes/Comments
~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Albumin	4.9 g/dL	~	2.3	4.2	High	No	No
Alk. Phos. [a]	64 U/L	~	44	270	~	No	No
AST [a]	21 U/L	~	6	38	~	No	No
Ca	10.6 mg/dL	~	9.2	12.0	~	No	No
GGT [a]	4 U/L	~	1	15	~	No	No
Total Protein	8.7 g/dL	~	6.5	9.6	~	No	No
Globulin	3.8 g/dL	~	3.0	6.5	~	No	No
BUN	12 mg/dL	~	6.0	20.0	~	No	No
CK [a]	140 U/L	~	53	461	~	No	No
Phos	4.1 mg/dL	~	3.1	7.4	~	No	No
Mg	2.4 mg/dL	~	1.62	2.94	~	No	No

Sample Detail (GSN: S-WCD15-038413)			
Collection Date/Time	02/06/2015 00:00	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Jennifer D'Agostino
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 1D

Test Request Detail		Sample Quality	
Date Requested	02/06/2015	Color	~
Requested By	Gretchen Cole	Color Intensity	~
Laboratory	MSU DCPAH	Clarity	~
Analysis Start Date	11/06/2015	Consistency	~
Analysis Equipment	~	Additional Characteristics	~
Insufficient Sample	No	Degraded	No



Notes/Comments

In approximately 1000 elephant serum samples analyzed at DCPAH over the last five years the percentile values for serum vitamin E concentrations were 5th - 0.23, 25th - 0.5, 50th - 0.81, 75th - 1.19, and 95th - 2.02 ug/mL. These were all clinical samples received for analysis; no health or diet information was available. Many were repeat samples from the same animal.

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Vit. E HPLC	0.60 µg/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038496)

Collection Date/Time	02/06/2015 00:00	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Gretchen Cole
Anatomical Source/Tissue	EAR VEIN	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

01/06/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 7M 0D

Test Request Detail

Date Requested	01/06/2015
Requested By	Gretchen Cole
Analysis Start Date & Time	01/06/2015 00:00
Analysis By	Julia Jones
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Brown/Tan
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments

~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Direct Exam.	No parasites found	~	~	~	~	~	No
Sheather's/Centrifug	No parasites found	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038408)

Collection Date/Time	01/06/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Julia Jones
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

30/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 29D

Date	Time	Note Author
30/05/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments



Visual recheck at 0830. This animal was alert, active, and eating normally. There was normal urine and feces present in stall from overnight. Keepers report no further concerns. Keepers to continue to monitor.

Animal Care Staff Medical Summary

~

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

29/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 28D

Date	Time	Note Author
29/05/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Keeper (RE) reported this animal to be showing signs of abdominal discomfort as has been previously seen in this animal. They reported 3 episodes of animal laying down either in yard, or in stall. Animal is eating normally but has decreased drinking. It has a quiet demeanor, eyelids are held low, animal was occasionally leaning against wall and stretching legs. Keeper from Seattle present said that these are all consistent with previous episodes. Animal often responds well to mineral oil/bran and firocoxib treatment. Will begin treatment and monitor.
Addendum: At 1600 this animal had returned to normal behavior and activity. Continue to monitor.

Animal Care Staff Medical Summary

~

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 28D

Basic Info	
Date Written	29/05/2015
Start Date	29/05/2015 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info	
Date	29/05/2015
Measurement Value	8,600 lb
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	MINERAL OIL	Frequency	once a day (sid)	Form Of Drug ~
Dose Amount	1 gal liq (US)	Duration	1doses	Concentration Of Drug
Dosage Amount	~	Delivery Route	Oral (p.o.)	~
Administrated Dose Quantity	1 gal liq (US)	Loading Dose	~	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Mix 20 cups of bran with 1 gal of MINERAL OIL, feed orally once a day (sid) for 1 doses.
Start treatment on 29/05/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 28D

Basic Info

Date Written	29/05/2015
Start Date	29/05/2015 00:00
Prescribed By	Gretchen Cole
Prescribed For	1 animal
Reason For Terminate	~
Terminate Date	~
Reason For Treatment	~

Weight Info

Date	29/05/2015
Measurement Value	8,600 lb
Estimate	Yes
Exclude From Reference Intervals	Yes



Treatment Detail

Treatment Item/Drug	Firocoxib (227 mg Solid > Tablet) (Firocoxib)		
Dose Amount	454 mg	Frequency	once a day (sid)
Dosage Amount	0.116 mg/kg	Duration	1doses
Administrated Dose Quantity	2 count	Delivery Route	Oral (p.o.)
		Loading Dose	~
		Form Of Drug	Tablet
		Concentration Of Drug	
		227 mg	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 454 mg [2 count] of Firocoxib, once a day (sid) for 1 doses.
Start treatment on 29/05/2015
Administration route: Oral (p.o.)

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
~	~	~	~

25/05/2015

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 24D

Test Request Detail

Date Requested	25/05/2015
Requested By	Gretchen Cole
Analysis Start Date & Time	25/05/2015 00:00
Analysis By	Julia Jones
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Brown/Tan
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments

~

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Direct Exam.	No parasites found	~	~	~	~	~	No
Sheather's/Centrifug	No parasites found	~	~	~	~	~	No



Sample Detail (GSN: S-WCD15-038367)

Collection Date/Time	25/05/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Julia Jones
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

20/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 19D

Date	Time	Note Author
20/05/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Bamboo continues to settle in very well. Daily routine is has normalized and she participates normally in training sessions with both Woodland Park and OKC Zoo keeper staff. Appetite is normal and diet transition is going smoothly. Urination and defecation are normal. Fecal boluses are normal in size, shape and consistency and is produced in a normal amount. Both animals have been utilizing the indoor and outdoor space. Healthy elephant, continue quarantine as planned.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

18/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 17D

Date	Time	Note Author
18/05/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Fecal testing (performed at Oklahoma Animal Disease Diagnostic Lab)
Floatation: no parasites seen.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 17D

Test Request Detail

Date Requested	18/05/2015
Requested By	Jennifer D'Agostino
Laboratory	OSU CVM
Analysis Start Date	19/05/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Brown/Tan
Color Intensity	medium
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments
Accession Number: 15051109

Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Sugar Flotation	No parasites found	~	~	~	~	~	No
ZnSO4 Flotation	No parasites found	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038344)

Collection Date/Time	18/05/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Julia Jones
Anatomical Source/Tissue	~	Reason	Diagnostic
Additives/Preservatives	~	Exclude from reference intervals	No

14/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 13D

Date	Time	Note Author
14/05/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Elephant continues to settle in well. Today Bamboo is bright, alert and active. Behavior and appetite are normal. Feces continue to be dry and somewhat reduced in amount but bolus size is good and there is no straining observed. Urinations are normal. Anklets were removed through behavioral restraint. Bamboo received a bath this morning as part of the normal routine. Keepers collected fecal sample for parasite analysis and enteric pathogen culture. Continue quarantine as planned.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 13D



Date	Time	Note Author
14/05/2015	00:00	Jennifer D'Agostino
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Summary of travel provided by Dr. Kelly Helmick.

Clinical notes May 11-May 14, 2015 for elephants Bamb00/20073 and Chai/2113. Left San Diego Zoo approximately 745 PM PST on May 11, arrived Oklahoma City Zoo approximately 3 AM CST on May 13, transport time approximately 29 hr.

Elephant Bamboo/20073 administered 150 mg zuclophenthixol acetate IM RT hip approximately 10 hr prior to crating. In veterinary application, a long-acting calming agent with a wide margin of safety used in a variety of hoofstock species to facilitate safe transport, including captive and wild elephants, administered with the goal to lessen behaviors (leaning, stretching, and sitting) observed on transport from Seattle, WA to San Diego, CA. Behaviors were attributed to restlessness in the crate, leading to concerns that physical fatigue could develop over time if allowed to continue (see notes April 20). This medication is not expected to cause tranquilization, sedation, or other noticeable changes and no adverse effects associated with zuclophenthixol administration noted before, during, or after transport. No change in attitude, trained behaviors, appetite/water consumption or fecal/urine output noted. No changes in mentation or attitude before, during, or after transport. Behaviors (leaning, stretching, and sitting) were not observed as frequently as prior transport, may/may not reflect zuclophenthixol effects.

Crate inspections performed day of load and no concerns noted. Physical exam conducted day of loading, both elephants BAR, normal ambulation, resting RR WNL, eyes bright and clear, oral findings WNL, good skin quality w/o abrasions or other concerns, perineal region clean, all feet WNL, all other findings WNL. RT hip callous and tail WNL for elephant Bamboo/20073 without concerns or changes noted. Both elephants eating/drinking and urinating/defecating normally. Both elephants visually inspected in crates after loading, both BAR and calm in crates, taking food from keeper staff, no concerns or changes noted.

Both elephants crated easily, and voluntarily walked into crates within minutes of crate access. Load and travel leaving San Diego was scheduled for evening to allow for travel through warmer regions when ambient temperatures were cool. Monitoring through real-time close-circuit video throughout transport, visual inspections at each welfare stop, and crate and ambient temperature and humidity monitoring. Ambient temperatures throughout transport were mild, inclement or other weather changes not encountered, and crate temperatures stayed above 45F and below 75F throughout transport. Supplemental heating or cooling was not required during transport. Both elephants ate and drank, produced normal feces and urine throughout travel. Both elephants were alert, responsive, and interacted with keeper staff at welfare stops. Travel was uneventful.

Elephant Bamboo/20073 demonstrated behaviors observed during prior travel (leaning, sitting, and stretching) shortly after leaving San Diego. Behaviors were observed only by camera monitoring and ceased at welfare stops. These behaviors would appear for a short interval when travel resumed after welfare stops but did not persist and Bamboo demonstrated long periods of rest or other normal activity between welfare stops compared to prior transport. Persistent signs of restlessness, other abnormal behaviors, muscle weakness, or fatigue were not noted in either elephant throughout travel. No colic or cramping was observed in either elephant, before, during, or after transport. No health concerns noted or developed in either elephant before, during, or after transport.

Both elephants walked quickly and easily out of the crates upon arrival at Oklahoma City Zoo. No gait changes, stiffness, or soreness noted in either elephant. Both elephants ate and drank upon arrival and produced normal urine and feces. Due to early AM arrival, both elephants were allowed to rest and slept for several hours. Both elephants were compliant with behaviors for diagnostic sample collection conducted later the day of arrival. Veterinary inspections and monitoring conducted upon arrival and for the next 36 hr were WNL, both elephants remained BAR, eyes bright and clear, normal ambulation, no abnormal behavioral changes, good food/water intake, appropriate urine/fecal production, all other findings during visual inspections WNL. Reviewed medical history and provided summary of transport and visual inspection findings to OKCZ.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 13D



Test Request Detail	
Date Requested	14/05/2015
Requested By	Gretchen Cole
Analysis Start Date & Time	14/05/2015 00:00
Analysis By	Liz McCrae
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Brown/Tan
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments
~

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
Direct Exam.	No parasites found	~	~	~	~	~	No
Sheather's/Centrifug	Other Result - Coccidia-like organisms; probably pollen (4+)	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038300)			
Collection Date/Time	14/05/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Liz McCrae
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 13D

Test Request Detail	
Date Requested	14/05/2015
Requested By	Jennifer D'Agostino
Laboratory	ANTECH
Analysis Start Date	14/05/2015
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Brown/Tan
Color Intensity	~
Clarity	~
Consistency	formed
Additional Characteristics	~
Degraded	No

Notes/Comments
Antech Accession Number: DLBC41830906
Canine enteric coronavirus PCR: Negative
Campylobacter jejuni/coli PCR: Negative
Clostridium perfringens enterotoxin PCR: Negative
Canine Parvovirus PCR: Negative



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Crypto. PCR	negative	~	~	~	~	~	No
Salmonella PCR	negative	~	~	~	~	~	No
Giardia PCR	negative	~	~	~	~	~	No
C diff toxin A/B PCR	negative	~	~	~	~	~	No
Campylobacter cultur	No clinically significant microorganism was isolated	~	~	~	~	~	~
Salmonella culture	No clinically significant microorganism was isolated	~	~	~	~	~	~
Salmonella/Shigella	No clinically significant microorganism was isolated	~	~	~	~	~	~
Yersinia culture	No clinically significant microorganism was isolated	~	~	~	~	~	~

Sample Detail (GSN: S-WCD15-038300-S01)

Collection Date/Time	14/05/2015 00:00	Collection Method	Obtained off substrate
Sample Type	Feces	Collected By	Liz McCrae
Anatomical Source/Tissue	~	Reason	Other
Additives/Preservatives	~	Exclude from reference intervals	No

13/05/2015

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D

Date	Time	Note Author
13/05/2015	00:00	Gretchen Cole
Significant	Private	Active Problems
No	No	<input type="checkbox"/> NEOPLASIA, UTERUS, LEIOMYOMA <input type="checkbox"/> EYE (RIGHT), Mass <input type="checkbox"/> FOLLICULITIS, TAIL <input type="checkbox"/> HYPERKERATOSIS, TAIL

Note Subtype: General

Notes/Comments

Results of fecal testing.
 Gastrointestinal disease PCR panel: all test were negative
 Fecal culture: negative for salmonella, shigella, and yersinia
 Campylobacter: negative at 72 hours.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Clinical note



Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D

Date 13/05/2015
Time 00:00
Note Author Jennifer D'Agostino

Significant No
Private No
Active Problems
 NEOPLASIA, UTERUS, LEIOMYOMA
 EYE (RIGHT), Mass
 FOLLICULITIS, TAIL
 HYPERKERATOSIS, TAIL

Note Subtype: General

Notes/Comments

Proc: Quarantine entry and visual exam

Animal arrived into the zoo from San Diego this morning at 3am with conspecific "Chai". Unloading was uneventful and both animals were together in the stall by 4:30am.

Visual exam: Animal is bright and alert in the stall. No external lesions are noted. Ambulation and gait are normal, no sign of stiffness or lameness. Mucous membranes are pink and moist. Eyes are clear. Appetite remains very good. Elephant immediately began exploring surroundings and responded to keepers appropriately. Normal vocalizations. Drank water from the hose. Urination and defecation not witnessed but was noted to be normal during transport. Proceed with quarantine as planned.

Addendum 9am: USDA vet inspection. Both animals are alert and active. Both appear normal and appear to be settling in well. Both have been outside in yard 1 and have access. Bamboo continues to eat well and interact normally with keepers. Normal urination observed but no defecation yet. Instructed keepers to administer firocoxib per prescription and to give 1 gallon mineral oil mixed in bran prophylactically to help keep the GI tract moving. Keepers were also instructed to obtain a blood sample if possible for routine CBC/Chemistry and trunk wash for routine EEHV screening.

Addendum 4pm: Bamboo readily took the entire dose of mineral oil and bran mixture and firocoxib. Bloodwork is unremarkable. CPK is mildly elevated at 3,000 which is not unexpected after transport. Appetite continues to be good. Animal did defecate a small amount of feces and continues to urinate normally. Fecal bolus size is good and is slightly dry.

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Prescription/Treatment

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age (at the start date)
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D

Basic Info

Date Written 13/05/2015
Start Date 13/05/2015 00:00
Prescribed By Jennifer D'Agostino
Prescribed For 1 animal
Reason For Terminate ~
Terminate Date ~
Reason For Treatment ~



Treatment Detail

Treatment Item/Drug	MINERAL OIL	Frequency	once	Form Of Drug ~
Dose Amount	1 gal liq (US)	Duration	1doses	Concentration Of Drug
Dosage Amount	~	Delivery Route	Oral (p.o.)	~
Administrated Dose Quantity	1 gal liq (US)	Loading Dose	~	

Treatment Response

Clinical Response	~
Adverse Effects	~
Adverse Effects Note:	~

Staff Instructions

Give 1 gallon orally mixed in bran prophylactically to help with GI motility.

Prescription Notes/Comments

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Dispensing Records

Date Dispensed	Dispensed By	Quantity Dispensed
~	~	~

Administration Records

Administration Date/Time	Administered By	Success	Notes
13/05/2015 00:00	Jennifer D'Agostino	Complete	Administered by Woodland Park keepers in bran.

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D

Test Request Detail

Date Requested	13/05/2015
Requested By	Jennifer D'Agostino
Analysis Start Date & Time	13/05/2015 15:51
Analysis By	Liz McCrae
Analysis Equipment	VetScan VS2
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

~



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl'd. from RI	Reviewed
Albumin	3.4 g/dL	~	2.3	4.2	~	No	No
Albumin	5.0 g/dL	~	2.3	4.2	High	No	No
Alk. Phos. [a]	66 U/L	~	44	270	~	No	No
Alk. Phos. [a]	66 U/L	~	44	270	~	No	No
ALT	9 U/L	~	0	31	~	No	No
AST [a]	55 U/L	~	6	38	High	No	No
Ca	10.1 mg/dL	~	9.2	12.0	~	No	No
Amylase [a]	0 U/L	~	414	7,023	Low	No	No
Tot. Bili.	0.3 mg/dL	~	0.1	0.6	~	No	No
GGT [a]	3 U/L	~	1	15	~	No	No
BUN	6 mg/dL	~	6.0	20.0	~	No	No
Total Protein	8.6 g/dL	~	6.5	9.6	~	No	No
Globulin	3.6 g/dL	~	3.0	6.5	~	No	No
Ca	10.3 mg/dL	~	9.2	12.0	~	No	No
Phos	1.6 mg/dL	~	3.1	7.4	Low	No	No
BUN	6 mg/dL	~	6.0	20.0	~	No	No
Creat [a]	2.0 mg/dL	~	0.8	2.3	~	No	No
CK [a]	3,040 U/L	~	53	461	High	No	No
Glucose	137 mg/dL	~	51	131	High	No	No
Phos	2.0 mg/dL	~	3.1	7.4	Low	No	No
Mg	2.1 mg/dL	~	1.62	2.94	~	No	No
Na	128 mmol/L	~	123	141	~	No	No
K	4.2 mmol/L	~	3.8	5.8	~	No	No
Total Protein (R)	9.2 g/dL	~	6.5	9.6	~	No	No
Total Protein	8.7 g/dL	~	6.5	9.6	~	No	No
Globulin	5.4 g/dL	~	3.0	6.5	~	No	No

Sample Detail (GSN: S-WCD15-038321)

Collection Date/Time	13/05/2015 00:00	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Liz McCrae
Anatomical Source/Tissue	EAR VEIN	Reason	Preventative Health
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D



Test Request Detail	
Date Requested	13/05/2015
Requested By	Julia Jones
Laboratory	National Zoo Departm
Analysis Start Date	13/05/2016
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
repli-g with EEHV6

Test Requests & Test Results							
Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Excl. from RI	Reviewed
EEHV 1 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 2 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 3/4 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 5 qPCR	0 ge/ml	~	~	~	~	~	No
EEHV 6 qPCR	1 ge/ml	~	~	~	~	~	No

Sample Detail (GSN: S-WCD16-041467)			
Collection Date/Time	13/05/2015 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Keeper Staff
Anatomical Source/Tissue	TRUNK	Reason	Routine
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result						
Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date	Age
Individual	13130699	776313	Elephas maximus/Asian elephant	Female	~ from 01/11/1965 to 01/11/1967	48Y 6M 12D

Test Request Detail	
Date Requested	13/05/2015
Requested By	Jennifer D'Agostino
Analysis Start Date & Time	13/05/2015 15:23
Analysis By	Liz McCrae
Analysis Equipment	VetScan HM5
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
bi-lobed Monocytes: 2%



Test Requests & Test Results

Test	Primary Result	Secondary Result	Low RI	High RI	Evaluation	Exclud. from RI	Reviewed
WBC	14.91 *10 ⁹ cells/L	~	7.1	19.9	~	No	No
RBC [a]	3.43 *10 ¹² cells/L	~	2.15	3.98	~	No	No
HGB [a]	13.6 g/dL	~	8.7	16.5	~	No	No
HCT [a]	38.46 %	~	25.6	47.9	~	No	No
MCV	112 fL	~	94.8	143.9	~	No	No
MCH [a]	39.7 pg	~	31	50	~	No	No
MCHC	35.4 g/dL	~	28.0	40.1	~	No	No
RDW	18.2 %	~	~	~	~	~	No
Platelets	421 *10 ⁹ cells/L	~	~	~	~	No	No
Mean Plate. Vol.	7.3 fL	~	~	~	~	No	No
PDW-cv	28.5 %	~	~	~	~	~	No
Neutrophil % [m]	49 %	~	~	~	~	No	No
Lymphocyte % [m]	13 %	~	~	~	~	No	No
Monocyte % [m]	36 %	~	~	~	~	No	No
Eosinophil % [m]	0 %	~	~	~	~	No	No
Basophil % [m]	0 %	~	~	~	~	No	No
HCT [m]	37 %	~	25.6	47.9	~	No	No
Anisocytosis	moderate (3+)	~	~	~	~	~	No
Poikilocytosis	rare (1+)	~	~	~	~	~	No
Target Cells	few (2+)	~	~	~	~	~	No

Sample Detail (GSN: S-WCD15-038320)

Collection Date/Time	13/05/2015 00:00	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Liz McCrae
Anatomical Source/Tissue	EAR VEIN	Reason	Preventative Health
Additives/Preservatives	EDTA	Exclude from reference intervals	No