

HEALTH HISTORY SUMMARY

May 1, 2006

African Elephant "Lady Bird" ISIS # 000008 Studbook # 115

Year of Birth: 1971

Place of Birth: South Africa

Year of Acquisition to Lion Country Safari in Loxahatchee, Florida: 1972

SUMMARY*:

*(More detailed information will be sent as this elephant's MEDARKS record, plus copies of laboratory reports).

General "Lady Bird" has had an unremarkable health history at Lion Country Safari. Available medical records dating back to 1981 are essentially devoid of reports detailing any significant bout of illness or injury. "Lady Bird" is trained for routine foot care, radiography of her feet, plus blood collection from her lower rear legs (medial saphenous veins). In January of 2005, the ends of Lady Bird's tusks were trimmed with gigli wire. Her tusks had not required any such care for at least several years prior. Lady Bird's body weight has fluctuated between approximately 8,950# and 9,330# during regular checks conducted since June 2004. Lady Bird accomplishes routine preventive medicine behaviors in a protected contact situation. To the best of our knowledge, she has not been sedated or anesthetized during her years at Lion Country Safari.

Vaccinations: Lady Bird has been routinely vaccinated for tetanus and has more recently received rabies vaccinations. The following information is pertinent to other potential vaccination decisions: "LadyBird" has a strong positive titer to encephalomyocarditis virus due to her presumed exposure to this organism during an outbreak of this illness at the park in the 1970's. Other African elephants at our park that were present here in the 1970's also have high titers for this agent. "LadyBird" has not been vaccinated for West Nile Virus; she has significant serologic evidence of exposure to encephalitides which may include West Nile Virus.

Fecal Parasite Checks: Lady Bird has not shown evidence of gastrointestinal parasites as repetitive fecal tests for parasitic forms have been negative. She is not routinely dewormed.

Tuberculosis Testing: Lady Bird has had required trunk wash cultures for tuberculosis testing each year since 1999. 3 samples each year were analyzed. Lady Bird has not had any positive cultures for Mycobacterium tuberculosis complex. A single culture in year 2003 cultured positive for Mycobacterium sp. which was not M. tuberculosis complex or M. avium. A single culture in year 1999 cultured positive for Mycobacterium sp. which was not M. tuberculosis complex.

Reproduction: Samples for reproductive hormone analysis on "Lady Bird" have been regularly sent to the Smithsonian National Zoological Park Conservation and Research Center. This elephant is not believed to be reproductively cycling.

Other: Information on "Lady Bird's" diet will be sent under separate cover.

Please feel free to contact me should any questions arise.

Rose Borkowski, DVM

Rose Borkowski, DVM
Attending Veterinarian, Lion Country Safari

Date	Wgt	Difference from Average
12/30/2005	9078	-64
11/9/2005	9120	-22
9/16/2005	9120	-22
8/19/2005	9150	8
1/24/2005	9336	194
1/17/2005	9245	103
1/12/2005	9230	88
1/2/2005	9132	-10
12/19/2004	9140	-2
12/2/2004	9186	44
11/7/2004	8958	-184
10/24/2004	8957	-185
10/17/2004	8946	-196
10/10/2004	9123	-19
8/26/2004	9182	40
8/18/2004	9257	115
8/11/2004	9123	-19
7/20/2004	9112	-30
6/22/2004	9312	170

Report Start Date
1/1/1900

Specimen Report for W PALM BE / 000008

Report End Date
6/28/2006



Taxonomic name: *Loxodonta africana*

Family: Elephantidae

Common name: African elephant

Order: Proboscidea

Current information

Sex: Female Sire ID:
Birth type: Wild Born Dam ID:
Birth Location: SOUTH AFRICA Rearing: Unknown
Birthdate-Age: Unknown Birthdate Hybrid: Not a hybrid
Time since last Acq: 33Y,9M,4D as of report end date

<u>Date in</u>	<u>Acquisition - Vendor/local Id</u>	<u>Holder</u>	<u>Disposition - Recipient/local Id</u>	<u>Date out</u>
1 Oct 1972	Purchase from FERNDAL / UNK	W PALM BE / 000008		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
1 Oct 1972	House Name	LADYBIRD		
21 Dec 2000	Global Studbook #	115		Studbook #115

<u>Date</u>	<u>Type</u>	<u>Value</u>	<u>Units</u>	<u>Comments</u>
23 Oct 2003	live animal weight	8900	pound	
24 Oct 2003	live animal weight	9080	pound	
31 Oct 2003	live animal weight	8890	pound	

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
15 May 1986	Medical note	Fecal=Negative
16 Jul 1989	Medical note	Lost tooth on lower jaw.
8 Jul 1992	Breeding management	Bred by 1.0 "Bulwagi". 07/08-07/12
28 Nov 1992	Breeding management	Bred by 1.0 "Bulwagi".
26 Jan 1993	Breeding management	Bred by 1.0 "Bulwagi".

<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
1 Oct 1972	SECTION5	Exhibit

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
1 Oct 1972	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
1 Oct 1972	Unknown	

Report Start Date
1/1/1601

Specimen Report for GREENVISC / XFA019

Report End Date
12/5/2007



Taxonomic name: *Loxodonta africana*

Family: Elephantidae

Common name: African elephant

Order: Proboscidea

Current information

Sex: Female Sire ID: UNK at Unknown Location
Birth type: Wild Born Dam ID: UNK at Unknown Location
Birth Location: SOUTH AFRICA Rearing: Unknown
Birthdate-Age: ~ 1970 - 37Y,11M,12D +/-1 Yr. Hybrid: Not a hybrid
Time since last Acq: 1Y,3M,13D as of report end date

Date in	Acquisition - Vendor/local Id	Holder	Disposition - Recipient/local Id	Date out
22 Aug 2006	Purchase from W PALM BE / 000008	GREENVISC / XFA019		

Date	Identifier type	Identifier	Location	Comments
1 Oct 1972	House Name	Ladybird		
21 Dec 2000	Global Studbook #	115		

Date	Type	Value	Units	Comments
31 Oct 2003	live animal weight	8890	pound	
12 Aug 2006	live animal weight	9000	pound	

Date	Note type	Comments
22 Aug 2006	Acquisition note	Purchased from Lion Country Safari, West Palm Beach, FL. Placed in barn with 880002.
22 Aug 2006	Medical observation	Left front leg stiff and swollen. Puss coming from right front leg.
23 Aug 2006	Medical observation	Left front leg still swollen, puss coming from front right leg.
25 Aug 2006	Medical observation	No change in either front legs.
28 Aug 2006	Medical observation	Left front leg less stiff, puss still coming from right front leg.
29 Aug 2006	Behavior note	No problems seen b/w her and 880002 in barn or on exhibit.
30 Aug 2006	Medical observation	Left front leg moving freely, puss still coming from right front leg.
2 Sep 2006	Medical procedure	Blood taken from rear left leg.
3 Sep 2006	Foot management	Footwork done on all feet.
10 Sep 2006	Foot management	Footwork done on front right foot.
24 Sep 2006	Foot management	Footwork done on all feet.
29 Sep 2006	Foot management	Footwork done on both front feet. Applied Koppertox to nails.
1 Oct 2006	Foot management	Footwork done on both rear feet.
3 Oct 2006	Medical procedure	Attempted to take blood from rear left leg, unsuccessful.
7 Oct 2006	Foot management	Koppertox applied to nails on both front feet.
21 Oct 2006	Foot management	Footwork done on both rear feet.
22 Oct 2006	Foot management	Footwork done on both front feet. Koppertox applied to nails on front left foot.
23 Oct 2006	Foot management	Footwork done on rear left foot.
31 Oct 2006	Foot management	Footwork done on all feet.
1 Nov 2006	Foot management	Koppertox applied to crack on outside nail of rear right foot.
2 Nov 2006	Foot management	Koppertox applied to crack on outside nail of rear right foot.
3 Nov 2006	Foot management	Koppertox applied to crack on outside nail of rear right foot.
4 Nov 2006	Foot management	Koppertox applied to crack on outside nail of rear right foot. Footwork done on rear left foot.
6 Nov 2006	Foot management	Koppertox applied to crack on outside nail of rear right foot. Footwork done on both rear feet.
11 Nov 2006	Foot management	Footwork done on both rear feet.
13 Nov 2006	Foot management	Footwork done on both front feet.
14 Nov 2006	Foot management	Footwork done on rear right foot.
25 Nov 2006	Medical procedure	Attempted to take blood form rear left leg, unsuccessful.



27 Nov 2006	Foot management	Footwork done on both rear feet.
1 Dec 2006	Foot management	Koppertox applied to all nails.
2 Dec 2006	Medical procedure	Attempted to take blood form rear left leg, unsuccessful.
7 Dec 2006	Medical procedure	7cc blood taken form left ear, stored in freezer.
10 Dec 2006	Foot management	Footwork done on all feet. Applied Aquaphor ointment to all cuticles.
16 Dec 2006	Foot management	Footwork done on both rear feet.
2 Jan 2007	Foot management	Rear right foot pad has soft spot.
3 Jan 2007	Foot management	Spot on rear right foot pad decreasing.
4 Jan 2007	Foot management	Elephant manager assessed and states pad is just thin in that spot, no problems.
13 Jan 2007	Foot management	Footwork done on both rear feet.
18 Jan 2007	Foot management	Footwork done on front right foot.
19 Jan 2007	Foot management	Footwork done on both front feet. Koppetox applied to all nails.
20 Jan 2007	Fecal check/worming	Bi-annual(1): Negative.
25 Jan 2007	Medical observation	Abrasion over left tusk, applied aquaphor.
27 Jan 2007	Medical observation	Abrasion on over left tusk re-opened and new abrasion over right tusk. Applied neosporin to both.
28 Jan 2007	Medical observation	Both abrasions healing well, applied neosporin.
2 Feb 2007	Note	Abrasions on both may be due to interactions between bars of stall.
		This comment was added to the following specimens: 880002, XFA019.
2 Feb 2007	Medical observation	Abrasion on underside of trunk.
4 Feb 2007	Aggression	Both charging bars in stall in am. and locking tusks. Bird initiated encounter.
		This comment was added to the following specimens: XFA019, 880002.
6 Feb 2007	Medical observation	All abrasions healing well, applied neosporin. Applied aquaphor to raw spots on ears.
9 Feb 2007	Behavior note	Both went in mud yard together, no problems.
		This comment was added to the following specimens: 880002, XFA019.
12 Feb 2007	Foot management	Footwork done on both rear feet. Koppertox applied to all nails.
13 Feb 2007	Foot management	Footwork done on both rear feet. Koppertox applied to all nails.
24 Feb 2007	Foot management	Footwork done on all feet.
27 Feb 2007	Medical procedure	Blood collected from left ear, sent to Antech.
4 Mar 2007	Medical observation	Cut above right tusk re-opened, applied neosporin.
4 Mar 2007	Foot management	Koppertox applied to all nails.
5 Mar 2007	Foot management	Koppertox applied to all nails.
6 Mar 2007	Medical procedure	Tried to collect blood unsuccessfully.
6 Mar 2007	Medical observation	Abrasions over left and right tusks re-opened.
7 Mar 2007	Medical procedure	WBC count on last CBC high. Blood collected from left ear for re-check, sent to Antech.
8 Mar 2007	Medical note	Results from blood ok.
13 Mar 2007	Foot management	Footwork done on both rear feet.
17 Mar 2007	Medical observation	New abrasion over right tusk.
22 Mar 2007	Medical observation	New abrasion on left side of face near tusk, applied neosporin to all cuts.
24 Mar 2007	Aggression	Continue to ram bars in stall daily in a.m.
		This comment was added to the following specimens: 880002, XFA019.
25 Mar 2007	Foot management	Footwork done on all feet.
27 Mar 2007	Foot management	Footwork done on both front feet.
30 Mar 2007	Medical observation	Inside skin of right tusk bleeding.
3 Apr 2007	Foot management	Footwork done on both rear feet.
11 Jul 2007	Fecal check/worming	Bi-annual(2): Negative.



<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
22 Aug 2006	AFRICA	

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
22 Aug 2006	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
22 Aug 2006	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
22 Aug 2006	Sire	UNK	UNKNOWN	
22 Aug 2006	Dam	UNK	UNKNOWN	

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Medical History Report - Summary for Individual Specimen
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

.....2006...

- 22.Aug Obtained from another institution.
- 22.Aug Clinical note recorded. (CLP)
- 23.Aug Clinical note recorded. (CLP)
- 24.Aug Clinical note recorded. (CLP)
- 25.Aug Clinical note recorded. (CLP)
- 26.Aug Clinical note recorded. (CLP)
- 28.Aug Clinical note recorded. (CLP)
- 29.Aug Clinical note recorded. (CLP)
- 30.Aug Clinical note recorded. (CLP)

- 2.Sep Clinical note recorded. (CLP)
- 10.Sep Clinical note recorded. (CLP)
- 19.Sep Clinical note recorded. (CLP)
- 24.Sep Clinical note recorded. (CLP)
- 29.Sep Clinical note recorded. (CLP)

- 1.Oct Clinical note recorded. (CLP)
- 3.Oct Clinical note recorded. (CLP)
- 7.Oct Clinical note recorded. (CLP)
- 22.Oct Clinical note recorded. (CLP)
- 23.Oct Clinical note recorded. (CLP)
- 31.Oct Clinical note recorded. (CLP)

- 1.Nov Clinical note recorded. (CLP)
- 2.Nov Clinical note recorded. (CLP)
- 3.Nov Clinical note recorded. (CLP)
- 4.Nov Clinical note recorded. (CLP)
- 6.Nov Clinical note recorded. (CLP)
- 11.Nov Clinical note recorded. (CLP)
- 13.Nov Clinical note recorded. (CLP)
- 14.Nov Clinical note recorded. (CLP)
- 25.Nov Clinical note recorded. (CLP)
- 27.Nov Clinical note recorded. (CLP)

- 1.Dec Clinical note recorded. (CLP)
- 2.Dec Clinical note recorded. (CLP)
- 7.Dec Clinical note recorded. (CLP)
- 10.Dec Clinical note recorded. (CLP)
- 16.Dec Clinical note recorded. (CLP)

.....2007...

- 2.Jan Clinical note recorded. (CLP)
- 3.Jan Clinical note recorded. (CLP)

JB-LBIRD.TXT
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

.....2007....

4.Jan Clinical note recorded. (CLP)
13.Jan Clinical note recorded. (CLP)
18.Jan Clinical note recorded. (CLP)
19.Jan Clinical note recorded. (CLP)
21.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
25.Jan Clinical note recorded. (CLP)
27.Jan Clinical note recorded. (CLP)
28.Jan Clinical note recorded. (CLP)

2.Feb Clinical note recorded. (CLP)
6.Feb Clinical note recorded. (CLP)
12.Feb Clinical note recorded. (CLP)
13.Feb Clinical note recorded. (CLP)
18.Feb Clinical note recorded. (CLP)
24.Feb Clinical note recorded. (CLP)
27.Feb Blood sample: (EDTA) (10:00.0) Hematology/Chemistry/Serology results.
WBC:20.20 *10³/UL; HCT: 33.3%; BUN:13 MG/DL;
Hemolysis
Clinical note recorded. (CLP)

4.Mar Clinical note recorded. (CLP)
5.Mar Clinical note recorded. (CLP)
6.Mar Clinical note recorded. (CLP)
7.Mar Blood sample: (EDTA) (10:00.0) Hematology/Chemistry/Serology results.
WBC:12.10 *10³/UL; HCT: 32.6%; BUN:11 MG/DL;
Hemolysis
Clinical note recorded. (CLP)
13.Mar Clinical note recorded. (CLP)
17.Mar Clinical note recorded. (CLP)
22.Mar Clinical note recorded. (CLP)
25.Mar Clinical note recorded. (CLP)
27.Mar Clinical note recorded. (CLP)
30.Mar Clinical note recorded. (CLP)
31.Mar Clinical note recorded. (CLP)

3.Apr Clinical note recorded. (CLP)
9.Apr Clinical note recorded. (CLP)
21.Apr Clinical note recorded. (CLP)
25.Apr Clinical note recorded. (CLP)
29.Apr Clinical note recorded. (CLP)

3.May Clinical note recorded. (CLP)
4.May Clinical note recorded. (CLP)

Printed on: 10.Dec.2007

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Medical History Report - Summary for Individual Specimen
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)

Sex: Female
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Acc. #: XFA019

African elephant
Name: Ladybird

JB-LBIRD.TXT
Age: 38Y Est.

Birth: 1.Jan.1970

.....2007....

5.May Clinical note recorded. (CLP)
6.May Clinical note recorded. (CLP)
8.May Clinical note recorded. (CLP)
9.May Clinical note recorded. (CLP)
10.May Clinical note recorded. (CLP)
11.May Clinical note recorded. (CLP)
12.May Clinical note recorded. (CLP)
13.May Clinical note recorded. (CLP)
14.May Clinical note recorded. (CLP)
15.May Clinical note recorded. (CLP)
16.May Clinical note recorded. (CLP)
17.May Clinical note recorded. (CLP)
18.May Clinical note recorded. (CLP)
19.May Clinical note recorded. (CLP)
20.May Clinical note recorded. (CLP)
21.May Clinical note recorded. (CLP)
22.May Clinical note recorded. (CLP)
23.May Clinical note recorded. (CLP)
24.May Clinical note recorded. (CLP)
25.May Clinical note recorded. (CLP)
26.May Clinical note recorded. (CLP)
27.May Clinical note recorded. (CLP)
28.May Clinical note recorded. (CLP)
29.May Clinical note recorded. (CLP)
30.May Clinical note recorded. (CLP)
31.May Clinical note recorded. (CLP)

1.Jun Clinical note recorded. (CLP)
2.Jun Clinical note recorded. (CLP)
3.Jun Clinical note recorded. (CLP)
4.Jun Clinical note recorded. (CLP)
5.Jun Clinical note recorded. (CLP)
6.Jun Clinical note recorded. (CLP)
7.Jun Clinical note recorded. (CLP)
8.Jun Clinical note recorded. (CLP)
9.Jun Clinical note recorded. (CLP)
10.Jun Clinical note recorded. (CLP)
11.Jun Clinical note recorded. (CLP)
12.Jun Clinical note recorded. (CLP)
13.Jun Clinical note recorded. (CLP)
14.Jun Clinical note recorded. (CLP)

15.Jun Urine sample analysis results: (10:00.0)
Blood sample: (EDTA) (10:20.0) Hematology/Chemistry/Serology results.
WBC:6.70 *10³/UL; HCT: 34.5%; BUN:11 MG/DL;

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Medical History Report - Summary for Individual Specimen
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)
African elephant
Name: Ladybird

Sex: Female
Age: 38Y Est.

Acc. #: XFA019
Birth: 1.Jan.1970

.....2007...

15.Jun Hemolysis
 Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
 NO PARASITES SEEN
 Clinical note recorded. (CLP)

16.Jun Clinical note recorded. (CLP)

17.Jun Clinical note recorded. (CLP)

19.Jun Clinical note recorded. (CLP)

20.Jun Clinical note recorded. (CLP)

21.Jun Clinical note recorded. (CLP)

22.Jun Clinical note recorded. (CLP)

24.Jun Clinical note recorded. (CLP)

25.Jun Clinical note recorded. (CLP)

27.Jun Clinical note recorded. (CLP)

28.Jun Clinical note recorded. (CLP)

29.Jun Clinical note recorded. (CLP)

30.Jun Clinical note recorded. (CLP)

2.Jul Clinical note recorded. (CLP)

3.Jul Clinical note recorded. (CLP)

5.Jul Clinical note recorded. (CLP)

6.Jul Clinical note recorded. (CLP)

9.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
 NO PARASITES SEEN

10.Jul Clinical note recorded. (CLP)

17.Jul Clinical note recorded. (CLP)

18.Jul Clinical note recorded. (CLP)

21.Jul Clinical note recorded. (CLP)

23.Aug Clinical note recorded. (CLP)

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LOXODONTA AFRICANA (no subsp)
 African elephant
 Name: Ladybird

Sex: Female
 Age: 38Y Est.

Acc. #: XFA019
 Birth: 1.Jan.1970

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Clinical Note: 22.Aug.2006
 Has a stiff/swollen left front leg. Has pus coming from her right front
 elbow. (CLP)

Clinical Note:

23.Aug.2006

Front left leg still stiff/swollen. Pus still coming from front right elbow. (CLP)

Clinical Note: 24.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front elbow. (CLP)

Clinical Note: 25.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front elbow. (CLP)

Clinical Note: 26.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front elbow. (CLP)

Clinical Note: 28.Aug.2006
 Left front leg seems less stiff today. (CLP)

Clinical Note: 29.Aug.2006
 Front left leg seems less stiff today, pus still coming from right front elbow. (CLP)

Clinical Note: 30.Aug.2006
 Front left leg moving more freely, not as stiff today. Front right elbow still producing pus. (CLP)

Clinical Note: 2.Sep.2006
 Blood sample taken (1ml) from left hind leg (practice). (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 10.Sep.2006
 Dead skin removed from outside of front right foot. (CLP)

Clinical Note: 19.Sep.2006
 Right hind foot seemed tender, removed some of the pad. (CLP)

Clinical Note: 24.Sep.2006
 Foot work done on all four foot pads, black tissue removed. (CLP)

Clinical Note: 29.Sep.2006
 Foot work done on both front feet pads, black tissue removed, Koppertox applied to all nails. (CLP)

Clinical Note: 1.Oct.2006
 Foot work done on both back feet pads, black tissue removed. (CLP)

Clinical Note: 3.Oct.2006
 Worked on blood draw from back left leg vein. Back feet look better after trimming, less old/dead tissue. (CLP)

Clinical Note: 7.Oct.2006
 Koppertox applied to both front feet-nails. (CLP)

Clinical Note: 22.Oct.2006
 Footwork done on both front feet, removal of black tissue from pads. Koppertox applied to cracks on left front foot-nails. (CLP)

Clinical Note: 23.Oct.2006
 Footwork done on left hind foot pad, removal of old/dead tissue. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 31.Oct.2006
 Footwork done on both back feet, removal of old/dead tissue. Found traveling crack on right hind, outside nail. Applied koppertox to right hind nails and all front nails. (CLP)

Clinical Note: 1.Nov.2006
 Koppertox applied to crack on right hind foot, outside nail. (CLP)

Clinical Note: 2.Nov.2006
 Koppertox applied to crack on right hind foot, outside nail. (CLP)

Clinical Note: 3.Nov.2006
Koppertox applied to crack on right hind foot, outside nail. (CLP)

Clinical Note: 4.Nov.2006
Koppertox applied to crack on right hind foot, outside nail. Footwork done on left hind foot, removal of old/dead tissue. (CLP)

Clinical Note: 6.Nov.2006
Koppertox applied to crack on right hind foot, outside nail. Footwork done on both hind feet, removal of old/dead tissue. (CLP)

Clinical Note: 11.Nov.2006
Foot work done on both hind feet pads, removal of old/dead tissue. (CLP)

Clinical Note: 13.Nov.2006
Footwork done on both front feet, removal of old/dead tissue. (CLP)

Clinical Note: 14.Nov.2006
Foot work done on back right foot, removal of old/dead tissue on pad and between nails. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 25.Nov.2006
Worked on blood draw from left hind leg. (CLP)

Clinical Note: 27.Nov.2006
Footwork done on both back feet, removal of old dead tissue. (CLP)

Clinical Note: 1.Dec.2006
Koppertox applied to all nails for prevention of cracks. (CLP)

Clinical Note: 2.Dec.2006
Worked on blood draw from left hind leg. (CLP)

Clinical Note: 7.Dec.2006
Blood drawn from left ear - 7cc. Spun and placed in freezer for storage.

(CLP)

Clinical Note: 10.Dec.2006
 Footwork done on both front feet, removal of old/dead tissue on pads and cuticles. Aquaphor applied to all cuticles, front and back. (CLP)

Clinical Note: 16.Dec.2006
 Footwork done on both back feet, removal of old/dead tissue at cuticles. (CLP)

Clinical Note: 2.Jan.2007
 Soft spot on right hind foot pad, may contain fluid. (CLP)

Clinical Note: 3.Jan.2007
 Soft spot on right hind foot pad seems smaller. (CLP)

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 4.Jan.2007
 Right hind foot pad checked by JR - pad is thin in that area, do not feel any fluid moving, believe she is fine. (CLP)

Clinical Note: 13.Jan.2007
 Footwork done on both back feet, removal of old dead tissue. (CLP)

Clinical Note: 18.Jan.2007
 Footwork done on right front foot by CD inside barn at center shelf. Removal of old dead tissue around nails and edge of foot. (CLP)

Clinical Note: 19.Jan.2007
 Footwork done on both front feet, removal of old dead tissue. Koppertox applied to all toes for prevention and cracks. (CLP)

Submission Data >>
 Type: Fecal sample
 Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0056
 Date collected: 21.Jan.2007
 Collected by: KAC

Collected from:
From an individual specimen.

Enclosure: AFRICA

Examination Data >>

Storage: room temperature
Consistency: Not specified
Gross appearance: Not specified

Date examined: 21.Jan.2007

by: KAC

Tests & Results >>

FLOATATION - ZINC SULFATE NO PARASITES SEEN

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: Ladybird

Sex: Female
Age: 38Y Est.

Acc. #: XFA019
Birth: 1.Jan.1970

=====

Clinical Note: 25.Jan.2007
Abrasion on left side of face over her tusk. Aquaphor applied to area. (CLP)

Clinical Note: 27.Jan.2007
New abrasion on right side of face over her tusk and a cut on left side where tusk goes into cavity. Applied Neosporin to all abrasions/cuts. Looked at by JSH. (CLP)

Clinical Note: 28.Jan.2007
Neosporin applied to both abrasions, healing nicely. (CLP)

Clinical Note: 2.Feb.2007
New abrasion on underside of trunk. (CLP)

Clinical Note: 6.Feb.2007
All abrasions healing, Neosporin applied. Aquaphor applied to ears due to cold weather. (CLP)

Clinical Note: 12.Feb.2007
Foot work done on both back feet, removal of old dead tissue.

JB-LBIRD.TXT

Koppertox applied to all nails for cracks and prevention. (CLP)

Clinical Note: 13.Feb.2007
Foot work done on both back feet, removal of old dead tissue.
Koppertox applied to all nail for cracks and prevention. (CLP)

Clinical Note: 18.Feb.2007
Abrasions near both tusks are healing well. (CLP)

Clinical Note: 24.Feb.2007
Footwork done on all four feet. Removal of old dead tissue. (CLP)

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 27.Feb.2007
Blood taken from left ear vein by JR. Sent to Antech. (CLP)

Printed on: 10.Dec.2007

/ISIS/MedARKS/5.53

Clinical Pathology Records - Specimen Report
GREENVILLE ZOO

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=====
LOXODONTA AFRICANA (no subsp)      Sex: Female      Acc. #: XFA019
African elephant                   Age: 38Y Est.   Birth: 1.Jan.1970
Name: Ladybird
=====
    
```

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 4082 Kg on 12.Aug.2006
Manual restraint used.

Date of Collection: 27.Feb.2007
Time of Collection: 10:00.0
Collected by: JR
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>
Anticoagulant: EDTA
Storage: Refrigerated (<48 hours)
Sample Quality: hemolysis

Laboratory: ANTECH
Date of Analysis: 28.Feb.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

```

WHITE BLOOD CELL COUNT >> 20.2      *10^3/UL
RED BLOOD CELL COUNT < 2.56      *10^6/UL
HEMOGLOBIN < 10.7      GM/DL
HEMATOCRIT < 33.3      %
MCV 130      fL
MCH 41.8      uug
MCHC < 32.1      gm/dL
SEGMENTED NEUTROPHILS >> 35      (7.070) % (*10^3/UL)
NEUTROPHILIC BANDS < 0      % (*10^3/UL)
LYMPHOCYTES > 43      (8.686) % (*10^3/UL)
MONOCYTES > 20      (4.040) % (*10^3/UL)
EOSINOPHILS 2      (0.404) % (*10^3/UL)
BASOPHILS 0      % (*10^3/UL)
PLATELET COUNT >> 958      *10^3/UL
    
```

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 27.Feb.2007
 Time of Collection: 10:00.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>
 Chemistry Sample: Serum
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 28.Feb.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

GLUCOSE <<	40	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	9.29	
CALCIUM	10.7	MG/DL
PHOSPHORUS	5.0	MG/DL
calcium/phosphorus ratio	2.14	
SODIUM	129	MEQ/L
POTASSIUM	5.3	MEQ/L
sodium/potassium ratio	24.3	
CHLORIDE	87	MEQ/L
MAGNESIUM	2.0	MG/DL
CHOLESTEROL	68	MG/DL
TRIGLYCERIDE	52	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.8	GM/DL
ALBUMIN (COLORIMETRY)	3.3	GM/DL
GLOBULIN (COLORIMETRY)	4.5	GM/DL
albumin/globulin ratio	0.733	
ASPARTATE AMINOTRANSFERASE	14	IU/L
ALANINE AMINOTRANSFERASE	3	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
AMYLASE >>	10558	U/L

	JB-LBIRD.TXT		
ALKALINE PHOSPHATASE	<	55	IU/L
CREATINE PHOSPHOKINASE		313	IU/L
GAMMA GLUTAMYLTRANSFERASE		14	IU/L
LIPASE		5	U/L

ISIS reference values are for LOXODONTA AFRICANA
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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 4.Mar.2007
 Reopened cut on face near right tusk this am. Applied Neosporin.
 Koppertox applied to all nails for cracks and prevention. (CLP)

Clinical Note: 5.Mar.2007
 Koppertox applied to all nails for cracks and prevention.
 cut on right side of face near tusk is healing. (CLP)

Clinical Note: 6.Mar.2007
 Abrasions on both left and right side of face near tusks have
 reopened. No pus. (CLP)

Clinical Note: 7.Mar.2007
 Blood taken from left ear by JR. Sent to Antech. (CLP)

Printed on: 10.Dec.2007

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Clinical Pathology Records - Specimen Report
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 4082 kg on 12.Aug.2006
Manual restraint used.

Date of Collection: 7.Mar.2007
Time of Collection: 10:00.0
Collected by: JR
Sample Collection Site: EAR VEIN

Hematology >>

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

Laboratory: ANTECH
Date of Analysis: 8.Mar.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	12.1		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.69		*10 ⁶ /UL
HEMOGLOBIN	12.2		GM/DL
HEMATOCRIT	< 32.6		%
MCV	121		fL
MCH	45.4		ug
MCHC	> 37.4		gm/dL
SEGMENTED NEUTROPHILS	> 43	(5.203)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	< 0		% (*10 ³ /UL)
LYMPHOCYTES	< 11	(1.331)	% (*10 ³ /UL)
MONOCYTES	>> 45	(5.445)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.121)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
PLATELET COUNT	> 903		*10 ³ /UL

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp) African elephant Name: Ladybird	Sex: Female Age: 38Y Est.	Acc. #: XFA019 Birth: 1.Jan.1970
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Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 7.Mar.2007
 Time of Collection: 10:00.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>
 Chemistry Sample: Serum
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 8.Mar.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

GLUCOSE	<	67	MG/DL
BLOOD UREA NITROGEN		11	MG/DL
CREATININE		1.4	MG/DL
BUN/creatinine ratio		7.86	
CALCIUM		11.0	MG/DL
PHOSPHORUS		5.0	MG/DL
calcium/phosphorus ratio		2.20	
SODIUM	<	124	MEQ/L
POTASSIUM	>	5.6	MEQ/L
sodium/potassium ratio		22.1	
CHLORIDE		85	MEQ/L
MAGNESIUM		1.9	MG/DL
CHOLESTEROL		71	MG/DL
TRIGLYCERIDE	<	28	MG/DL
TOTAL PROTEIN (COLORIMETRY)		8.0	GM/DL
ALBUMIN (COLORIMETRY)		3.4	GM/DL
GLOBULIN (COLORIMETRY)		4.6	GM/DL
albumin/globulin ratio		0.739	
ASPARTATE AMINOTRANSFERASE		17	IU/L
ALANINE AMINOTRANSFERASE		4	IU/L
TOTAL BILIRUBIN		0.3	MG/DL
AMYLASE	>>	9649	U/L
ALKALINE PHOSPHATASE	<	52	IU/L
CREATINE PHOSPHOKINASE	>	494	IU/L
GAMMA GLUTAMYLTRANSFERASE		14	IU/L
LIPASE		4	U/L

ISIS reference values are for LOXODONTA AFRICANA
 Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 13.Mar.2007
Footwork done on both back feet. Removal of old dead tissue. (CLP)

Clinical Note: 17.Mar.2007
New abrasion on face near right tusk. (CLP)

Clinical Note: 22.Mar.2007
New abrasion on face near left tusk. Applied Neosporin to abrasions on left and right side. (CLP)

Clinical Note: 25.Mar.2007
Footwork done on all four feet, removal of old, dead tissue. (CLP)

Clinical Note: 27.Mar.2007
Footwork done on both front feet. Removed overgrowth of front pads. (CLP)

Clinical Note: 30.Mar.2007
Blood coming from right tusk, where tusk meets skin (inside). (CLP)

Clinical Note: 31.Mar.2007
No blood on tusk, no visible sign of infection. (CLP)

Clinical Note: 3.Apr.2007
Footwork done on both hind feet, removal of old, dead tissue. (CLP)

Clinical Note: 9.Apr.2007
Footwork done on both hind feet, removal of old, dead tissue. (CLP)

Clinical Note: 21.Apr.2007
Footwork done on both back feet - removal of old, dead tissue. (CLP)

LOXODONTA AFRICANA (no subsp)
African elephant
Name: Ladybird

JB-LBIRD.TXT
Sex: Female
Age: 38Y Est.

Acc. #: XFA019
Birth: 1.Jan.1970

Clinical Note: 25.Apr.2007
Footwork done on both front feet. (CLP)

Clinical Note: 29.Apr.2007
Scrape on face above right tusk. (CLP)

Clinical Note: 3.May.2007
Bi-lateral swelling on ventral surface. (CLP)

Clinical Note: 4.May.2007
Swelling about the same as yesterday, took photos. (CLP)

Clinical Note: 5.May.2007
Same amount of swelling on belly, bi-lateral. (CLP)

Clinical Note: 6.May.2007
Bi-lateral swelling at lowest point of belly, about the same size/amount. (CLP)

Clinical Note: 8.May.2007
S - Keepers noticed ventral edema on Lady Bird 4 days ago. It has gone down in size since yesterday and keepers have been cold hosing it.
O - Ventral edema at the lowest portion of her underbelly, not involving mammary glands. The skin is hanging down symmetrically on both sides of midline approx 6-8 inches on both sides.
A - Ventral edema of unknown origin, low protein, positional.
P - Continue cold hosing once a day and montior.
HC Miller, DVM (CLP)

Clinical Note: 9.May.2007
Swelling on belly is smaller. (CLP)

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: Ladybird

Sex: Female
Age: 38Y Est.

Acc. #: XFA019
Birth: 1.Jan.1970

- Clinical Note: 10.May.2007
 Footwork done on both front feet. Swelling is same size. (CLP)
- Clinical Note: 11.May.2007
 Swelling on belly is smaller. Loose stools - because of new hay? (CLP)
- Clinical Note: 12.May.2007
 Swelling has moved caudally and more central. Pus coming from around the inside skin of left tusk - flushed with hydrogen peroxide per L Sims. (CLP)
- Clinical Note: 13.May.2007
 Pus still present on inside of left tusk - flushed with hydrogen peroxide. (CLP)
- Clinical Note: 14.May.2007
 Small amount of pus on inside of left tusk - flushed with water and hydrogen peroxide. Belly swelling is now central and caudal. (CLP)
- Clinical Note: 15.May.2007
 O - The edema is approx 20% smaller in size but has moved approx 12 inch caudally.
 A - Blocked lymphatics, ddf; lack of moving, overweight. Hypoproteinemia? But bloodwork was normal.
 P - Monitor - if it ruptures we may put her on some antibiotics.
 HC Miller, DVM
 No pus on inside of left tusk. (CLP)
- Clinical Note: 16.May.2007
 Footwork done on right hind foot and nails. Applied Koppertox to nails. Pus on inside of left tusk - flushed with water. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

- Clinical Note: 17.May.2007
 Footwork done on left hind foot and nails. Koppertox applied to nails.
 Small amount of pus on inside of left tusk - flushed with water.

Found several infected hair follicles on tail. Skin and pus removed and cleaned. JR (CLP)

Clinical Note: 18.May.2007
More skin and 4 hairs removed from tail. (CLP)

Clinical Note: 19.May.2007
Very little pus on left inside tusk.
Cleaned tail and removed dead tissue. (CLP)

Clinical Note: 20.May.2007
Swelling on belly has decreased.
No pus on inside of left tusk.
Infected hair follicles on tail looking better. (CLP)

Clinical Note: 21.May.2007
Footwork done on both front feet, removal of old/dead tissue on pads and nails. Cleaned tail - pus still coming from infected follicles. (CLP)

Clinical Note: 22.May.2007
Chipped a jagged four inch piece off of tip of left tusk. No pus on inside of tusk. (CLP)

Clinical Note: 23.May.2007
Cleaned tail and removed pus. (CLP)

Clinical Note: 24.May.2007
Belly swelling about the same. Cleaned pus from tail. Chipped another piece off from left tusk tip. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 25.May.2007
Removed more hairs from tail. (CLP)

Clinical Note: 26.May.2007
Cleaned pus from tail, sprayed with Nolvasan. (CLP)

Clinical Note: 27.May.2007
 Belly swelling has decreased in size. Cleaned pus from tail. (CLP)

Clinical Note: 28.May.2007
 Cleaned tail, applied Nolvasan. (CLP)

Clinical Note: 29.May.2007
 O - Healing folliculitis on her tail - no evidence of infection.
 A - Healing tissue.
 P - Continue cleaning by hosing and spraying with Nolvasan.
 HC Miller, DVM (CLP)

Clinical Note: 30.May.2007
 Cleaned tail, applied Nolvasan. Both tail and belly look better. (CLP)

Clinical Note: 31.May.2007
 Very little pus on tail today, applied Nolvasan.
 New abraison on right front foot, near outside nail. Pulled off skin
 about 1.5 inches squared. Cleaned and applied Nolvasan. (CLP)

Clinical Note: 1.Jun.2007
 Belly swelling looks better. Very small amount of pus on tail -
 applied Nolvasan. Pulled more dead skin from right front foot near
 outer nail, applied hydrogen peroxide. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 2.Jun.2007
 Some pus on tail. Applied Nolvasan ointment to wound on right front
 foot. (CLP)

Clinical Note: 3.Jun.2007
 Swelling on belly is smaller. Some pus on tail, applied Nolvasan.
 Pulled more dead tissue from right front foot and applied Nolvasan
 ointment. (CLP)

- Clinical Note: 4.Jun.2007
 Nolvasan applied to tail and right front foot.
 Footwork on both front feet, removed dead tissue and filed nails. (CLP)
- Clinical Note: 5.Jun.2007
 Nolvasan ointment applied to tail and right front foot. (CLP)
- Clinical Note: 6.Jun.2007
 Outer nail on right front foot is starting to slough off. JR cut top
 part of nail, flushed with water and hydrogen peroxide. (CLP)
- Clinical Note: 7.Jun.2007
 Three inches of left tusk removed (where chipped) with gigly wire and
 hack saw. (CLP)
- Clinical Note: 8.Jun.2007
 New abcess forming on tail. Removed hairs, flushed with Nolvasan.
 Flushed wound on right front foot/outer nail with Nolvasan. (CLP)
- Clinical Note: 9.Jun.2007
 Applied Nolvasan to tail and right front outer nail. Switch to
 hydrogen peroxide per L Sims. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

- Clinical Note: 10.Jun.2007
 Hydrogen peroxide applied to tail and outer nail on right front. (CLP)
- Clinical Note: 11.Jun.2007
 New fluid accumulating on bi-lateral sides of belly. Central/caudal
 area of swelling is smaller. Nolvasan applied to tail and right front
 foot. (CLP)
- Clinical Note: 12.Jun.2007
 Outer nail on right front looks OK.

0 - Ventral edema - it just appears in 2 distinct lines down each side
 of her ventrum. The old area of edema is very caudally and centrally

located.

A - Ventral edema of unknown origin.

P - Bloodwork, fecal, may try ibuprofen if bloodwork & fecal are negative.

HC Miller, DVM (CLP)

Clinical Note: 13.Jun.2007
 Outer nail of right front flushed with hydrogen peroxide. No pus on tail. (CLP)

Clinical Note: 14.Jun.2007
 Outer nail of right front flushed with hydrogen peroxide. Edema on sides of belly is moving lower. (CLP)

Clinical Note: 15.Jun.2007
 Blood taken from ear vein at 10:20 by JR for annual physical. Fecal and urine samples collected from floor and sent to Antech. (CLP)

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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>	Date of Collection: 15.Jun.2007
Health Status: Normal	Time of Collection: 10:00.0
	Collected by: JR
Weight: 4082 Kg on 12.Aug.2006	Sample Collection Site: from Floor

Analysis Information >>	Laboratory: ANTECH
Sample type: Urine	Date of Analysis: 16.Jun.2007
Storage: Refrigerated (<48 hours)	Time of Analysis:
Sample Quality: No quality problems.	Analysis by:
	Manual analysis.

Comments >>

Urinalysis	
pH	8.5
Specific Gravity	1.014
Appearance	Turbid
Color	Yellow

Protein Neg
 Glucose Neg
 Ketone Neg
 Bilirubin Neg
 Blood Neg
 WBC 0-3
 RBC 0-3
 Bacteria Rods 3+
 Epithelia Few
 Amorphous Phosphates Few
 None seen for the following: Renal Epithelia Cells, Transitional epithelia cells, Triple phosphate crystals, Calcium phosphate crystals, Calcium carbonate crystals, Ammonium biurate crystals, Amorphous urate, Calcium oxalate crystals, Uric acid crystals, Mucous, Hyaline casts, Granular casts, RBC casts, Waxy casts, WBC casts, Budding yeast, Oval fat body

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >> Date of Collection: 15.Jun.2007
 Health Status: Normal Time of Collection: 10:20.0
 Fasting Time: < 8 hours Collected by: JR
 Activity: Excited Sample Collection Site: EAR VEIN
 Weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Hematology >> Laboratory: ANTECH
 Analysis Information >> Date of Analysis: 16.Jun.2007
 Anticoagulant: EDTA Time of Analysis:
 Storage: Refrigerated (<48 hours) Analysis by:
 Sample Quality: No quality problems. Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	6.7	*10 ³ /UL
RED BLOOD CELL COUNT		3.1	*10 ⁶ /UL
HEMOGLOBIN		13.5	GM/DL
HEMATOCRIT	<	34.5	%
MCV	<	111	fL
MCH		43.5	uug
MCHC >>		39.1	gm/dL

JB-LBIRD.TXT
 SEGMENTED NEUTROPHILS 43 (2.881) % (*10^3/UL)
 NEUTROPHILIC BANDS < 0 % (*10^3/UL)
 LYMPHOCYTES 60 (4.020) % (*10^3/UL)
 MONOCYTES 4 (0.268) % (*10^3/UL)
 EOSINOPHILS 0 % (*10^3/UL)
 BASOPHILS 0 % (*10^3/UL)
 PLATELET COUNT 333 *10^3/UL

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp) Sex: Female Acc. #: XFA019
 African elephant Age: 38Y Est. Birth: 1.Jan.1970
 Name: Ladybird

Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Excited
 weight: 4082 kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 15.Jun.2007
 Time of Collection: 10:20.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 16.Jun.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

GLUCOSE	93	MG/DL
BLOOD UREA NITROGEN	11	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	8.46	
CALCIUM	10.8	MG/DL
PHOSPHORUS	5.2	MG/DL
calcium/phosphorus ratio	2.08	
SODIUM	126	MEQ/L
POTASSIUM >	5.5	MEQ/L
sodium/potassium ratio	22.9	
CHLORIDE	89	MEQ/L

	JB-LBIRD.TXT		
	MAGNESIUM	1.8	MG/DL
	CHOLESTEROL	63	MG/DL
	TRIGLYCERIDE	44	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.7	GM/DL
	ALBUMIN (COLORIMETRY)	3.4	GM/DL
	GLOBULIN (COLORIMETRY)	4.3	GM/DL
	albumin/globulin ratio	0.791	
	ASPARTATE AMINOTRANSFERASE	15	IU/L
	ALANINE AMINOTRANSFERASE	2	IU/L
	TOTAL BILIRUBIN	0.3	MG/DL
	AMYLASE >>10279		U/L
	ALKALINE PHOSPHATASE <	43	IU/L
	CREATINE PHOSPHOKINASE	282	IU/L
	GAMMA GLUTAMYLTRANSFERASE	11	IU/L
	LIPASE	8	U/L

ISIS reference values are for LOXODONTA AFRICANA
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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Parasitology Examination:

Submission Data >>
 Type: Fecal sample
 Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0307
 Date collected: 15.Jun.2007
 Time collected: 10:00
 Collected by: CLP

Collected from:
 From an individual specimen.

Enclosure: AFRICA

Examination Data >>
 Storage: refrigerated
 Consistency: Not specified
 Gross appearance: Typical

Date examined: 16.Jun.2007
 by: LAB

Tests & Results >>
 CENTRIFUGATION

NO PARASITES SEEN

Comments >>
 Tested by Antech

Clinical Note: 16.Jun.2007
 Outer nail of right front flushed with hydrogen peroxide. (CLP)

Clinical Note: 17.Jun.2007
 Edema on belly about the same. Infected hair follicles on tail

appear resolved. Outer nail of right front flushed with hydrogen peroxide. (CLP)

Clinical Note: 19.Jun.2007
Outer nail of right front flushed with hydrogen peroxide. (CLP)

Clinical Note: 20.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	ACC. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 21.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

Clinical Note: 22.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

Clinical Note: 24.Jun.2007
Pulling on left nipple with trunk a lot lately. (CLP)

Clinical Note: 25.Jun.2007
Footwork done on both hind feet - pads and nails. Edema on belly looks smaller.

Trunk wash samples sent to USDA, APHIS, VS lab in Ames, Iowa. (CLP)

Clinical Note: 27.Jun.2007
Left nipple swollen, twice the size of right nipple. (CLP)

Clinical Note: 28.Jun.2007
Footwork done on left hind foot pad and nails. (CLP)

Clinical Note: 29.Jun.2007
Footwork done on middle nail of right hind. (CLP)

Clinical Note: 30.Jun.2007
Left nipple a little less swollen. Still pulling at it with trunk. (CLP)

Clinical Note: 2.Jul.2007
 Still pulling at left nipple. Edema on belly looks smaller. (CLP)

Clinical Note: 3.Jul.2007
 Left nipple about the same size. (CLP)

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 5.Jul.2007
 Has not pulled at left nipple for two days. Koppertox applied to all nails. (CLP)

Clinical Note: 6.Jul.2007
 Edema on belly about the same. Left nipple is less swollen. May be raw, she pulled at it a lot this am. (CLP)

Submission Data >>
 Type: Fecal sample
 Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0315
 Date collected: 9.Jul.2007
 Collected by: WB

Collected from:
 From an individual specimen.

Enclosure: AFRICA

Examination Data >>
 Storage: room temperature
 Consistency: Not specified
 Gross appearance: Typical

Date examined: 9.Jul.2007
 by: WB

Tests & Results >>
 FLOATATION - ZINC SULFATE NO PARASITES SEEN

Clinical Note: 10.Jul.2007
 Footwork done on both front feet. (CLP)

Clinical Note: 17.Jul.2007
 Footwork done on both back feet. (CLP)

Clinical Note: 18.Jul.2007

Footwork done on right hind. (CLP) JB-LBIRD.TXT

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 21.Jul.2007
Footwork done on left hind. Applied koppertox. (CLP)

Clinical Note: 23.Aug.2007
Tb Results from NVSL: Trunk wash samples taken on 06/20, 06/21 & 06/22
submitted on 06/26/07 - all negative for Mycobacteria - no isolation
made. (CLP)

Printed on: 10.Dec.2007

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

Scientific name: LOXODONTA AFRICANA
Common Name: African elephant

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	10.50	+ 2.648	4.500	22.10	(1544)
RBC	*10 ⁶ /UL	3.15	+ 0.40	2.05	4.80	(1480)
HGB	GM/DL	13.7	+ 1.6	7.0	26.1	(1522)
HCT	%	39.5	+ 4.6	27.0	56.0	(1984)
MCH	MG/DL	43.6	+ 3.0	34.8	66.8	(1454)
MCHC	uug	34.7	+ 2.0	18.4	57.9	(1501)
MCV	fL	125.8	+ 8.1	91.1	190.0	(1466)
SEGS	*10 ³ /UL	3.146	+ 1.695	0.000	11.80	(1224)
BANDS	*10 ³ /UL	0.843	+ 0.799	0.000	6.530	(605)
LYMPHOCYTES	*10 ³ /UL	4.913	+ 2.532	0.022	17.40	(1236)
MONOCYTES	*10 ³ /UL	1.513	+ 1.651	0.000	9.480	(1175)
EOSINOPHILS	*10 ³ /UL	0.225	+ 0.273	0.000	2.898	(885)
BASOPHILS	*10 ³ /UL	0.049	+ 0.081	0.000	0.525	(464)
NRBC	/100 WBC	0	+ 1	0	3	(92)
PLATE. CNT.	*10 ³ /UL	417	+ 245	74	1380	(215)
RETICS	%	0.0	+ 0.0	0.0	0.0	(7)
GLUCOSE	MG/DL	84	+ 15	38	174	(1437)
BUN	MG/DL	10	+ 3	0	22	(1458)
CREAT.	MG/DL	1.5	+ 0.5	0.0	11.0	(1405)
URIC ACID	MG/DL	0.2	+ 0.4	0.0	5.1	(466)
CA	MG/DL	10.9	+ 0.6	8.1	15.3	(1434)
PHOS	MG/DL	4.9	+ 0.8	2.8	8.2	(1291)
NA	MEQ/L	129	+ 4	107	182	(1353)
K	MEQ/L	4.8	+ 0.5	3.3	7.6	(1368)
CL	MEQ/L	88	+ 4	67	129	(1323)
IRON	MCG/DL	79	+ 42	8	174	(54)
MG	MG/DL	1.97	+ 0.75	0.65	4.20	(98)
HCO3	MMOL/L	25.1	+ 3.6	13.0	31.0	(44)
CHOL	MG/DL	68	+ 17	0	234	(1290)
TRIG	MG/DL	64	+ 31	0	179	(1124)
T.PROT. (C)	GM/DL	7.7	+ 0.6	5.8	10.5	(1261)
T.PROT. (R)	GM/DL	8.0	+ 0.4	7.4	8.6	(8)
ALBUMIN (C)	GM/DL	3.6	+ 0.4	2.4	5.2	(1145)
GLOBULIN (C)	GM/DL	4.1	+ 0.5	2.6	6.4	(1135)
AST (SGOT)	IU/L	24	+ 10	6	93	(1398)
ALT (SGPT)	IU/L	7	+ 6	0	40	(547)
T. BILI.	MG/DL	0.2	+ 0.1	0.0	1.0	(1187)
D. BILI	MG/DL	0.1	+ 0.1	0.0	0.3	(154)
I. BILI.	MG/DL	0.1	+ 0.1	0.0	0.9	(152)
AMYLASE	U/L	3075	+ 1552	0	7918	(241)
ALK.PHOS.	IU/L	128	+ 61	32	441	(1404)
LDH	IU/L	988	+ 568	157	4306	(1099)

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

Scientific name: LOXODONTA AFRICANA
Common Name: African elephant

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
CPK	IU/L	256 +	196	18	1884	(247)
OSMOLARITY	MOSMOL/L	259 +	4	246	272	(689)
ALPHA GLOB.	MG/DL	0.7 +	0.0	0.7	0.7	(1)
ALPHA-1 GLOB	MG/DL	0.7 +	0.2	0.2	0.8	(8)
ALPHA-2 GLOB	MG/DL	1.0 +	0.3	0.8	1.6	(8)
BETA GLOB.	MG/DL	1.2 +	0.8	0.6	1.7	(2)
Body Temperature:		39.0 +	0.0	39.0	39.0	(1)
CO2	MMOL/L	27.0 +	3.1	12.0	61.4	(840)
ESR	MM/HR	27 +	0	27	27	(1)
FIBRINOGEN	MG/DL	238 +	139	0	600	(70)
GGT	IU/L	12 +	5	0	37	(389)
LIPASE	U/L	7 +	7	0	45	(66)
PROGESTERONE	NG/DL	144.8 +	216.4	0.060	1005	(266)
TESTOSTERONE	NG/ML	1.010 +	1.117	0.220	1.800	(2)
TOTAL T4	MCG/DL	8.2 +	1.3	6.9	9.5	(3)
T3 (RIA)	NG/ML	209.0 +	0.0	209.0	209.0	(1)
ALBUMIN (E)	GM/DL	4.4 +	0.3	4.1	4.9	(7)
GAMMA GLOB	GM/DL	1.6 +	0.4	0.7	1.9	(7)

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Medical History Report - Summary for Individual Specimen
GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp) African elephant Name: Ladybird	Sex: Female Age: 38Y Est.	Acc. #: XFA019 Birth: 1.Jan.1970
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.....2006...

22.Aug Obtained from another institution.
Clinical note recorded. (CLP)
23.Aug Clinical note recorded. (CLP)
24.Aug Clinical note recorded. (CLP)
25.Aug Clinical note recorded. (CLP)
26.Aug Clinical note recorded. (CLP)
28.Aug Clinical note recorded. (CLP)
29.Aug Clinical note recorded. (CLP)
30.Aug Clinical note recorded. (CLP)

2.Sep Clinical note recorded. (CLP)
10.Sep Clinical note recorded. (CLP)
19.Sep Clinical note recorded. (CLP)
24.Sep Clinical note recorded. (CLP)
29.Sep Clinical note recorded. (CLP)

1.Oct Clinical note recorded. (CLP)
3.Oct Clinical note recorded. (CLP)
7.Oct Clinical note recorded. (CLP)
22.Oct Clinical note recorded. (CLP)
23.Oct Clinical note recorded. (CLP)
31.Oct Clinical note recorded. (CLP)

1.Nov Clinical note recorded. (CLP)
2.Nov Clinical note recorded. (CLP)
3.Nov Clinical note recorded. (CLP)
4.Nov Clinical note recorded. (CLP)
6.Nov Clinical note recorded. (CLP)
11.Nov Clinical note recorded. (CLP)
13.Nov Clinical note recorded. (CLP)
14.Nov Clinical note recorded. (CLP)
25.Nov Clinical note recorded. (CLP)
27.Nov Clinical note recorded. (CLP)

1.Dec Clinical note recorded. (CLP)
2.Dec Clinical note recorded. (CLP)
7.Dec Clinical note recorded. (CLP)
10.Dec Clinical note recorded. (CLP)
16.Dec Clinical note recorded. (CLP)

.....2007...

2.Jan Clinical note recorded. (CLP)
3.Jan Clinical note recorded. (CLP)

Printed on: 10.Dec.2007

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Medical History Report - Summary for Individual Specimen
GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

.....2007...

4.Jan Clinical note recorded. (CLP)
 13.Jan Clinical note recorded. (CLP)
 18.Jan Clinical note recorded. (CLP)
 19.Jan Clinical note recorded. (CLP)
 21.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
 NO PARASITES SEEN
 25.Jan Clinical note recorded. (CLP)
 27.Jan Clinical note recorded. (CLP)
 28.Jan Clinical note recorded. (CLP)

2.Feb Clinical note recorded. (CLP)
 6.Feb Clinical note recorded. (CLP)
 12.Feb Clinical note recorded. (CLP)
 13.Feb Clinical note recorded. (CLP)
 18.Feb Clinical note recorded. (CLP)
 24.Feb Clinical note recorded. (CLP)
 27.Feb Blood sample: (EDTA) (10:00.0) Hematology/Chemistry/Serology results.
 WBC:20.20 *10³/UL; HCT: 33.3%; BUN:13 MG/DL;
 Hemolysis
 Clinical note recorded. (CLP)

4.Mar Clinical note recorded. (CLP)
 5.Mar Clinical note recorded. (CLP)
 6.Mar Clinical note recorded. (CLP)
 7.Mar Blood sample: (EDTA) (10:00.0) Hematology/Chemistry/Serology results.
 WBC:12.10 *10³/UL; HCT: 32.6%; BUN:11 MG/DL;
 Hemolysis
 Clinical note recorded. (CLP)

13.Mar Clinical note recorded. (CLP)
 17.Mar Clinical note recorded. (CLP)
 22.Mar Clinical note recorded. (CLP)
 25.Mar Clinical note recorded. (CLP)
 27.Mar Clinical note recorded. (CLP)
 30.Mar Clinical note recorded. (CLP)
 31.Mar Clinical note recorded. (CLP)

3.Apr Clinical note recorded. (CLP)
 9.Apr Clinical note recorded. (CLP)
 21.Apr Clinical note recorded. (CLP)
 25.Apr Clinical note recorded. (CLP)
 29.Apr Clinical note recorded. (CLP)

3.May Clinical note recorded. (CLP)
 4.May Clinical note recorded. (CLP)

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Medical History Report - Summary for Individual Specimen
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

.....2007...

5.May Clinical note recorded. (CLP)
 6.May Clinical note recorded. (CLP)
 8.May Clinical note recorded. (CLP)
 9.May Clinical note recorded. (CLP)
 10.May Clinical note recorded. (CLP)
 11.May Clinical note recorded. (CLP)
 12.May Clinical note recorded. (CLP)
 13.May Clinical note recorded. (CLP)
 14.May Clinical note recorded. (CLP)
 15.May Clinical note recorded. (CLP)
 16.May Clinical note recorded. (CLP)
 17.May Clinical note recorded. (CLP)
 18.May Clinical note recorded. (CLP)
 19.May Clinical note recorded. (CLP)
 20.May Clinical note recorded. (CLP)
 21.May Clinical note recorded. (CLP)
 22.May Clinical note recorded. (CLP)
 23.May Clinical note recorded. (CLP)
 24.May Clinical note recorded. (CLP)
 25.May Clinical note recorded. (CLP)
 26.May Clinical note recorded. (CLP)
 27.May Clinical note recorded. (CLP)
 28.May Clinical note recorded. (CLP)
 29.May Clinical note recorded. (CLP)
 30.May Clinical note recorded. (CLP)
 31.May Clinical note recorded. (CLP)

1.Jun Clinical note recorded. (CLP)
 2.Jun Clinical note recorded. (CLP)
 3.Jun Clinical note recorded. (CLP)
 4.Jun Clinical note recorded. (CLP)
 5.Jun Clinical note recorded. (CLP)
 6.Jun Clinical note recorded. (CLP)
 7.Jun Clinical note recorded. (CLP)
 8.Jun Clinical note recorded. (CLP)
 9.Jun Clinical note recorded. (CLP)
 10.Jun Clinical note recorded. (CLP)
 11.Jun Clinical note recorded. (CLP)
 12.Jun Clinical note recorded. (CLP)
 13.Jun Clinical note recorded. (CLP)
 14.Jun Clinical note recorded. (CLP)

15.Jun Urine sample analysis results: (10:00.0)
 Blood sample: (EDTA) (10:20.0) Hematology/Chemistry/Serology results.
 WBC:6.70 *10³/UL; HCT: 34.5%; BUN:11 MG/DL;

Printed on: 10.Dec.2007

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Medical History Report - Summary for Individual Specimen
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)
 African elephant
 Name: Ladybird

Sex: Female
 Age: 38Y Est.

Acc. #: XFA019
 Birth: 1.Jan.1970

.....2007...

15.Jun Hemolysis

Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN

Clinical note recorded. (CLP)
16.Jun Clinical note recorded. (CLP)
17.Jun Clinical note recorded. (CLP)
19.Jun Clinical note recorded. (CLP)
20.Jun Clinical note recorded. (CLP)
21.Jun Clinical note recorded. (CLP)
22.Jun Clinical note recorded. (CLP)
24.Jun Clinical note recorded. (CLP)
25.Jun Clinical note recorded. (CLP)
27.Jun Clinical note recorded. (CLP)
28.Jun Clinical note recorded. (CLP)
29.Jun Clinical note recorded. (CLP)
30.Jun Clinical note recorded. (CLP)

2.Jul Clinical note recorded. (CLP)
3.Jul Clinical note recorded. (CLP)
5.Jul Clinical note recorded. (CLP)
6.Jul Clinical note recorded. (CLP)
9.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
10.Jul Clinical note recorded. (CLP)
17.Jul Clinical note recorded. (CLP)
18.Jul Clinical note recorded. (CLP)
21.Jul Clinical note recorded. (CLP)

23.Aug Clinical note recorded. (CLP)

Printed on: 10.Dec.2007

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=====
LOXODONTA AFRICANA (no subsp)      Sex: Female      Acc. #: XFA019
African elephant                  Age: 38Y Est.    Birth: 1.Jan.1970
Name: Ladybird
=====
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Clinical Note: 22.Aug.2006
Has a stiff/swollen left front leg. Has pus coming from her right
front elbow. (CLP)

Clinical Note: 23.Aug.2006
Front left leg still stiff/swollen. Pus still coming from front right
elbow. (CLP)

Clinical Note: 24.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front
 elbow. (CLP)

Clinical Note: 25.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front
 elbow. (CLP)

Clinical Note: 26.Aug.2006
 Left front leg still stiff/swollen. Pus still coming from right front
 elbow. (CLP)

Clinical Note: 28.Aug.2006
 Left front leg seems less stiff today. (CLP)

Clinical Note: 29.Aug.2006
 Front left leg seems less stiff today, pus still coming from right
 front elbow. (CLP)

Clinical Note: 30.Aug.2006
 Front left leg moving more freely, not as stiff today. Front right
 elbow still producing pus. (CLP)

Clinical Note: 2.Sep.2006
 Blood sample taken (1ml) from left hind leg (practice). (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 10.Sep.2006
 Dead skin removed from outside of front right foot. (CLP)

Clinical Note: 19.Sep.2006
 Right hind foot seemed tender, removed some of the pad. (CLP)

Clinical Note: 24.Sep.2006
 Foot work done on all four foot pads, black tissue removed. (CLP)

- Clinical Note: 29.Sep.2006
 Foot work done on both front feet pads, black tissue removed,
 Koppertox applied to all nails. (CLP)
- Clinical Note: 1.Oct.2006
 Foot work done on both back feet pads, black tissue removed. (CLP)
- Clinical Note: 3.Oct.2006
 Worked on blood draw from back left leg vein. Back feet look better
 after trimming, less old/dead tissue. (CLP)
- Clinical Note: 7.Oct.2006
 Koppertox applied to both front feet-nails. (CLP)
- Clinical Note: 22.Oct.2006
 Footwork done on both front feet, removal of black tissue from pads.
 Koppertox applied to cracks on left front foot-nails. (CLP)
- Clinical Note: 23.Oct.2006
 Footwork done on left hind foot pad, removal of old/dead tissue. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

- Clinical Note: 31.Oct.2006
 Footwork done on both back feet, removal of old/dead tissue. Found
 traveling crack on right hind, outside nail. Applied koppertox to
 right hind nails and all front nails. (CLP)
- Clinical Note: 1.Nov.2006
 Koppertox applied to crack on right hind foot, outside nail. (CLP)
- Clinical Note: 2.Nov.2006
 Koppertox applied to crack on right hind foot, outside nail. (CLP)
- Clinical Note: 3.Nov.2006
 Koppertox applied to crack on right hind foot, outside nail. (CLP)

Clinical Note: 4.Nov.2006
Koppertox applied to crack on right hind foot, outside nail. Footwork done on left hind foot, removal of old/dead tissue. (CLP)

Clinical Note: 6.Nov.2006
Koppertox applied to crack on right hind foot, outside nail. Footwork done on both hind feet, removal of old/dead tissue. (CLP)

Clinical Note: 11.Nov.2006
Foot work done on both hind feet pads, removal of old/dead tissue. (CLP)

Clinical Note: 13.Nov.2006
Footwork done on both front feet, removal of old/dead tissue. (CLP)

Clinical Note: 14.Nov.2006
Foot work done on back right foot, removal of old/dead tissue on pad and between nails. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 25.Nov.2006
worked on blood draw from left hind leg. (CLP)

Clinical Note: 27.Nov.2006
Footwork done on both back feet, removal of old dead tissue. (CLP)

Clinical Note: 1.Dec.2006
Koppertox applied to all nails for prevention of cracks. (CLP)

Clinical Note: 2.Dec.2006
Worked on blood draw from left hind leg. (CLP)

Clinical Note: 7.Dec.2006
Blood drawn from left ear - 7cc. Spun and placed in freezer for storage. (CLP)

Clinical Note: 10.Dec.2006
 Footwork done on both front feet, removal of old/dead tissue on pads and cuticles. Aquaphor applied to all cuticles, front and back. (CLP)

Clinical Note: 16.Dec.2006
 Footwork done on both back feet, removal of old/dead tissue at cuticles. (CLP)

Clinical Note: 2.Jan.2007
 Soft spot on right hind foot pad, may contain fluid. (CLP)

Clinical Note: 3.Jan.2007
 Soft spot on right hind foot pad seems smaller. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 4.Jan.2007
 Right hind foot pad checked by JR - pad is thin in that area, do not feel any fluid moving, believe she is fine. (CLP)

Clinical Note: 13.Jan.2007
 Footwork done on both back feet, removal of old dead tissue. (CLP)

Clinical Note: 18.Jan.2007
 Footwork done on right front foot by CD inside barn at center shelf. Removal of old dead tissue around nails and edge of foot. (CLP)

Clinical Note: 19.Jan.2007
 Footwork done on both front feet, removal of old dead tissue. Koppertox applied to all toes for prevention and cracks. (CLP)

Submission Data >>
 Type: Fecal sample
 Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0056
 Date collected: 21.Jan.2007
 Collected by: KAC

Collected from:

Enclosure: AFRICA

From an individual specimen.

Examination Data >>

Storage: room temperature
Consistency: Not specified
Gross appearance: Not specified

Date examined: 21.Jan.2007

by: KAC

Tests & Results >>

FLOATATION - ZINC SULFATE NO PARASITES SEEN

Printed on: 10.Dec.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 25.Jan.2007
Abrasion on left side of face over her tusk. Aquaphor applied to area. (CLP)

Clinical Note: 27.Jan.2007
New abrasion on right side of face over her tusk and a cut on left side where tusk goes into cavity. Applied Neosporin to all abrasions/cuts. Looked at by JSH. (CLP)

Clinical Note: 28.Jan.2007
Neosporin applied to both abrasions, healing nicely. (CLP)

Clinical Note: 2.Feb.2007
New abrasion on underside of trunk. (CLP)

Clinical Note: 6.Feb.2007
All abrasions healing, Neosporin applied. Aquaphor applied to ears due to cold weather. (CLP)

Clinical Note: 12.Feb.2007
Foot work done on both back feet, removal of old dead tissue. Koppertox applied to all nails for cracks and prevention. (CLP)

Clinical Note: 13.Feb.2007
 Foot work done on both back feet, removal of old dead tissue.
 Koppertox applied to all nail for cracks and prevention. (CLP)

Clinical Note: 18.Feb.2007
 Abrasions near both tusks are healing well. (CLP)

Clinical Note: 24.Feb.2007
 Footwork done on all four feet. Removal of old dead tissue. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 27.Feb.2007
 Blood taken from left ear vein by JR. Sent to Antech. (CLP)

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Clinical Pathology Records - Specimen Report
GREENVILLE ZOO

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=====
LOXODONTA AFRICANA (no subsp)      Sex: Female      Acc. #: XFA019
African elephant                   Age: 38Y Est.    Birth: 1.Jan.1970
Name: Ladybird
=====

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Collection Information >>
 Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 27.Feb.2007
 Time of Collection: 10:00.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Hematology >>
 Analysis Information >>
 Anticoagulant: EDTA
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 28.Feb.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

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WHITE BLOOD CELL COUNT >> 20.2      *10^3/UL
RED BLOOD CELL COUNT < 2.56      *10^6/UL
HEMOGLOBIN < 10.7      GM/DL
HEMATOCRIT < 33.3      %
MCV 130      fL
MCH 41.8      uug
MCHC < 32.1      gm/dL
SEGMENTED NEUTROPHILS >> 35      (7.070) % (*10^3/UL)
NEUTROPHILIC BANDS < 0      % (*10^3/UL)
LYMPHOCYTES > 43      (8.686) % (*10^3/UL)
MONOCYTES > 20      (4.040) % (*10^3/UL)
EOSINOPHILS 2      (0.404) % (*10^3/UL)
BASOPHILS 0      % (*10^3/UL)
PLATELET COUNT >> 958      *10^3/UL

```

ISIS reference values are for LOXODONTA AFRICANA
 Printed on: 10.Dec.2007

/ISIS/MedARKS/5.53

Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 27.Feb.2007
 Time of Collection: 10:00.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 28.Feb.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

GLUCOSE	<< 40	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	9.29	
CALCIUM	10.7	MG/DL
PHOSPHORUS	5.0	MG/DL
calcium/phosphorus ratio	2.14	
SODIUM	129	MEQ/L
POTASSIUM	5.3	MEQ/L
sodium/potassium ratio	24.3	
CHLORIDE	87	MEQ/L
MAGNESIUM	2.0	MG/DL
CHOLESTEROL	68	MG/DL
TRIGLYCERIDE	52	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.8	GM/DL
ALBUMIN (COLORIMETRY)	3.3	GM/DL
GLOBULIN (COLORIMETRY)	4.5	GM/DL
albumin/globulin ratio	0.733	
ASPARTATE AMINOTRANSFERASE	14	IU/L
ALANINE AMINOTRANSFERASE	3	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
AMYLASE	>>10558	U/L
ALKALINE PHOSPHATASE	< 55	IU/L
CREATINE PHOSPHOKINASE	313	IU/L

JB-LBIRD.TXT
GAMMA GLUTAMYLTRANSFERASE 14 IU/L
LIPASE 5 U/L

ISIS reference values are for LOXODONTA AFRICANA
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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 4.Mar.2007
Reopened cut on face near right tusk this am. Applied Neosporin.
Koppertox applied to all nails for cracks and prevention. (CLP)

Clinical Note: 5.Mar.2007
Koppertox applied to all nails for cracks and prevention.
Cut on right side of face near tusk is healing. (CLP)

Clinical Note: 6.Mar.2007
Abrasions on both left and right side of face near tusks have
reopened. No pus. (CLP)

Clinical Note: 7.Mar.2007
Blood taken from left ear by JR. Sent to Antech. (CLP)

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Clinical Pathology Records - Specimen Report
GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>

Date of Collection: 7.Mar.2007
Time of Collection: 10:00.0
Collected by: JR
Sample Collection Site: EAR VEIN

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 4082 Kg on 12.Aug.2006
Manual restraint used.

Hematology >>

Analysis Information >>

Laboratory: ANTECH
Date of Analysis: 8.Mar.2007
Time of Analysis:
Analysis by:
Automated analysis.

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

Tests and Results >>

WHITE BLOOD CELL COUNT	12.1		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.69		*10 ⁶ /UL
HEMOGLOBIN	12.2		GM/DL
HEMATOCRIT	< 32.6		%
MCV	121		fL
MCH	45.4		ug
MCHC	> 37.4		gm/dL
SEGMENTED NEUTROPHILS	> 43	(5.203)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	< 0		% (*10 ³ /UL)
LYMPHOCYTES	< 11	(1.331)	% (*10 ³ /UL)
MONOCYTES	>> 45	(5.445)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.121)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
PLATELET COUNT	> 903		*10 ³ /UL

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GREENVILLE ZOO

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LOXODONTA AFRICANA (no subsp) Sex: Female Acc. #: XFA019
African elephant Age: 38Y Est. Birth: 1.Jan.1970
Name: Ladybird

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 4082 Kg on 12.Aug.2006
Manual restraint used.

Date of Collection: 7.Mar.2007
Time of Collection: 10:00.0
Collected by: JR
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>
Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: hemolysis

Laboratory: ANTECH
Date of Analysis: 8.Mar.2007
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	<	67	MG/DL
BLOOD UREA NITROGEN		11	MG/DL
CREATININE		1.4	MG/DL
BUN/creatinine ratio		7.86	
CALCIUM		11.0	MG/DL
PHOSPHORUS		5.0	MG/DL
calcium/phosphorus ratio		2.20	
SODIUM	<	124	MEQ/L
POTASSIUM	>	5.6	MEQ/L
sodium/potassium ratio		22.1	
CHLORIDE		85	MEQ/L
MAGNESIUM		1.9	MG/DL
CHOLESTEROL		71	MG/DL
TRIGLYCERIDE	<	28	MG/DL
TOTAL PROTEIN (COLORIMETRY)		8.0	GM/DL
ALBUMIN (COLORIMETRY)		3.4	GM/DL
GLOBULIN (COLORIMETRY)		4.6	GM/DL
albumin/globulin ratio		0.739	
ASPARTATE AMINOTRANSFERASE		17	IU/L
ALANINE AMINOTRANSFERASE		4	IU/L
TOTAL BILIRUBIN		0.3	MG/DL
AMYLASE	>>	9649	U/L
ALKALINE PHOSPHATASE	<	52	IU/L
CREATINE PHOSPHOKINASE	>	494	IU/L
GAMMA GLUTAMYLTRANSFERASE		14	IU/L
LIPASE		4	U/L

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 13.Mar.2007
 Footwork done on both back feet. Removal of old dead tissue. (CLP)

Clinical Note: 17.Mar.2007
 New abrasion on face near right tusk. (CLP)

Clinical Note: 22.Mar.2007
 New abrasion on face near left tusk. Applied Neosporin to abrasions on left and right side. (CLP)

Clinical Note: 25.Mar.2007
 Footwork done on all four feet, removal of old, dead tissue. (CLP)

Clinical Note: 27.Mar.2007
 Footwork done on both front feet. Removed overgrowth of front pads. (CLP)

Clinical Note: 30.Mar.2007
 Blood coming from right tusk, where tusk meets skin (inside). (CLP)

Clinical Note: 31.Mar.2007
 No blood on tusk, no visible sign of infection. (CLP)

Clinical Note: 3.Apr.2007
 Footwork done on both hind feet, removal of old, dead tissue. (CLP)

Clinical Note: 9.Apr.2007
 Footwork done on both hind feet, removal of old, dead tissue. (CLP)

Clinical Note: 21.Apr.2007
 Footwork done on both back feet - removal of old, dead tissue. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970

Name: Ladybird

Clinical Note: 25.Apr.2007
Footwork done on both front feet. (CLP)

Clinical Note: 29.Apr.2007
Scrape on face above right tusk. (CLP)

Clinical Note: 3.May.2007
Bi-lateral swelling on ventral surface. (CLP)

Clinical Note: 4.May.2007
Swelling about the same as yesterday, took photos. (CLP)

Clinical Note: 5.May.2007
Same amount of swelling on belly, bi-lateral. (CLP)

Clinical Note: 6.May.2007
Bi-lateral swelling at lowest point of belly, about the same size/amount. (CLP)

Clinical Note: 8.May.2007
S - Keepers noticed ventral edema on Lady Bird 4 days ago. It has gone down in size since yesterday and keepers have been cold hosing it.
O - Ventral edema at the lowest portion of her underbelly, not involving mammary glands. The skin is hanging down symmetrically on both sides of midline approx 6-8 inches on both sides.
A - Ventral edema of unknown origin, low protein, positional.
P - Continue cold hosing once a day and monitor.
HC Miller, DVM (CLP)

Clinical Note: 9.May.2007
Swelling on belly is smaller. (CLP)

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LOXODONTA AFRICANA (no subsp)
African elephant
Name: Ladybird

Sex: Female
Age: 38Y Est.

Acc. #: XFA019
Birth: 1.Jan.1970

Clinical Note:

10.May.2007

Footwork done on both front feet. Swelling is same size. (CLP)

Clinical Note: 11.May.2007
Swelling on belly is smaller. Loose stools - because of new hay? (CLP)

Clinical Note: 12.May.2007
Swelling has moved caudally and more central. Pus coming from around the inside skin of left tusk - flushed with hydrogen peroxide per L Sims. (CLP)

Clinical Note: 13.May.2007
Pus still present on inside of left tusk - flushed with hydrogen peroxide. (CLP)

Clinical Note: 14.May.2007
Small amount of pus on inside of left tusk - flushed with water and hydrogen peroxide. Belly swelling is now central and caudal. (CLP)

Clinical Note: 15.May.2007
O - The edema is approx 20% smaller in size but has moved approx 12 inch caudally.
A - Blocked lymphatics, ddf: lack of moving, overweight. Hypoproteinemia? But bloodwork was normal.
P - Monitor - if it ruptures we may put her on some antibiotics.
HC Miller, DVM
No pus on inside of left tusk. (CLP)

Clinical Note: 16.May.2007
Footwork done on right hind foot and nails. Applied Koppertox to nails. Pus on inside of left tusk - flushed with water. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 17.May.2007
Footwork done on left hind foot and nails. Koppertox applied to nails. Small amount of pus on inside of left tusk - flushed with water. Found several infected hair follicles on tail. Skin and pus removed and cleaned. JR (CLP)

Clinical Note: 18.May.2007
 More skin and 4 hairs removed from tail. (CLP)

Clinical Note: 19.May.2007
 Very little pus on left inside tusk.
 Cleaned tail and removed dead tissue. (CLP)

Clinical Note: 20.May.2007
 Swelling on belly has decreased.
 No pus on inside of left tusk.
 Infected hair follicles on tail looking better. (CLP)

Clinical Note: 21.May.2007
 Footwork done on both front feet, removal of old/dead tissue on pads
 and nails. Cleaned tail - pus still coming from infected follicles. (CLP)

Clinical Note: 22.May.2007
 Chipped a jagged four inch piece off of tip of left tusk. No pus on
 inside of tusk. (CLP)

Clinical Note: 23.May.2007
 Cleaned tail and removed pus. (CLP)

Clinical Note: 24.May.2007
 Belly swelling about the same. Cleaned pus from tail. Chipped another
 piece off from left tusk tip. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 25.May.2007
 Removed more hairs from tail. (CLP)

Clinical Note: 26.May.2007
 Cleaned pus from tail, sprayed with Nolvasan. (CLP)

Clinical Note: 27.May.2007

Belly swelling has decreased in size. Cleaned pus from tail. (CLP)

Clinical Note: 28.May.2007
Cleaned tail, applied Nolvasan. (CLP)

Clinical Note: 29.May.2007
O - Healing folliculitis on her tail - no evidence of infection.
A - Healing tissue.
P - Continue cleaning by hosing and spraying with Nolvasan.
HC Miller, DVM (CLP)

Clinical Note: 30.May.2007
Cleaned tail, applied Nolvasan. Both tail and belly look better. (CLP)

Clinical Note: 31.May.2007
Very little pus on tail today, applied Nolvasan.
New abraison on right front foot, near outside nail. Pulled off skin
about 1.5 inches squared. Cleaned and applied Nolvasan. (CLP)

Clinical Note: 1.Jun.2007
Belly swelling looks better. Very small amount of pus on tail -
applied Nolvasan. Pulled more dead skin from right front foot near
outer nail, applied hydrogen peroxide. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 2.Jun.2007
Some pus on tail. Applied Nolvasan ointment to wound on right front
foot. (CLP)

Clinical Note: 3.Jun.2007
Swelling on belly is smaller. Some pus on tail, applied Nolvasan.
Pulled more dead tissue from right front foot and applied Nolvasan
ointment. (CLP)

Clinical Note: 4.Jun.2007
Nolvasan applied to tail and right front foot.

Footwork on both front feet, removed dead tissue and filed nails. (CLP)

Clinical Note: 5.Jun.2007
Nolvasan ointment applied to tail and right front foot. (CLP)

Clinical Note: 6.Jun.2007
Outer nail on right front foot is starting to slough off. JR cut top part of nail, flushed with water and hydrogen peroxide. (CLP)

Clinical Note: 7.Jun.2007
Three inches of left tusk removed (where chipped) with gigly wire and hack saw. (CLP)

Clinical Note: 8.Jun.2007
New abcess forming on tail. Removed hairs, flushed with Nolvasan. Flushed wound on right front foot/outer nail with Nolvasan. (CLP)

Clinical Note: 9.Jun.2007
Applied Nolvasan to tail and right front outer nail. Switch to hydrogen peroxide per L Sims. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 10.Jun.2007
Hydrogen peroxide applied to tail and outer nail on right front. (CLP)

Clinical Note: 11.Jun.2007
New fluid accumulating on bi-lateral sides of belly. Central/caudal area of swelling is smaller. Nolvasan applied to tail and right front foot. (CLP)

Clinical Note: 12.Jun.2007
Outer nail on right front looks OK.

O - Ventral edema - it just appears in 2 distinct lines down each side of her ventrum. The old area of edema is very caudally and centrally located.

A - Ventral edema of unknown origin.

P - Bloodwork, fecal, may try ibuprofen if bloodwork & fecal are negative.
 HC Miller, DVM (CLP)

Clinical Note: 13.Jun.2007
 Outer nail of right front flushed with hydrogen peroxide. No pus on tail. (CLP)

Clinical Note: 14.Jun.2007
 Outer nail of right front flushed with hydrogen peroxide. Edema on sides of belly is moving lower. (CLP)

Clinical Note: 15.Jun.2007
 Blood taken from ear vein at 10:20 by JR for annual physical. Fecal and urine samples collected from floor and sent to Antech. (CLP)

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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp) African elephant Name: Ladybird	Sex: Female Age: 38Y Est.	Acc. #: XFA019 Birth: 1.Jan.1970
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Collection Information >>
 Health Status: Normal

Date of Collection: 15.Jun.2007
 Time of Collection: 10:00.0
 Collected by: JR
 Sample Collection Site: from Floor

Weight: 4082 Kg on 12.Aug.2006

Analysis Information >>
 Sample type: Urine
 Storage: Refrigerated (<48 hours)
 Sample Quality: No quality problems.

Laboratory: ANTECH
 Date of Analysis: 16.Jun.2007
 Time of Analysis:
 Analysis by:
 Manual analysis.

Comments >>

Urinalysis	
pH	8.5
Specific Gravity	1.014
Appearance	Turbid
Color	Yellow
Protein	Neg
Glucose	Neg

Ketone Neg
 Bilirubin Neg
 Blood Neg
 WBC 0-3
 RBC 0-3
 Bacteria Rods 3+
 Epithelia Few
 Amorphous Phosphates Few
 None seen for the following: Renal Epithelia Cells, Transitional epithelia cells, Triple phosphate crystals, Calcium phosphate crystals, Calcium carbonate crystals, Ammonium biurate crystals, Amorphous urate, Calcium oxalate crystals, Uric acid crystals, Mucous, Hyaline casts, Granular casts, RBC casts, Waxy casts, WBC casts, Budding yeast, Oval fat body

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>
 Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Excited
 Weight: 4082 Kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 15.Jun.2007
 Time of Collection: 10:20.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

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

Laboratory: ANTECH
 Date of Analysis: 16.Jun.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	6.7		*10 ³ /UL
RED BLOOD CELL COUNT		3.1		*10 ⁶ /UL
HEMOGLOBIN		13.5		GM/DL
HEMATOCRIT	<	34.5		%
MCV	<	111		fL
MCH		43.5		uug
MCHC	>>	39.1		gm/dL
SEGMENTED NEUTROPHILS		43	(2.881)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	<	0		% (*10 ³ /UL)

JB-LBIRD.TXT			
LYMPHOCYTES	60	(4.020)	% (*10 ³ /UL)
MONOCYTES	4	(0.268)	% (*10 ³ /UL)
EOSINOPHILS	0		% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
PLATELET COUNT	333		*10 ³ /UL

ISIS reference values are for LOXODONTA AFRICANA
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Clinical Pathology Records - Specimen Report
 GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Excited
 Weight: 4082 kg on 12.Aug.2006
 Manual restraint used.

Date of Collection: 15.Jun.2007
 Time of Collection: 10:20.0
 Collected by: JR
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>
 Chemistry Sample: Serum
 Storage: Refrigerated (<48 hours)
 Sample Quality: hemolysis

Laboratory: ANTECH
 Date of Analysis: 16.Jun.2007
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

GLUCOSE	93	MG/DL
BLOOD UREA NITROGEN	11	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	8.46	
CALCIUM	10.8	MG/DL
PHOSPHORUS	5.2	MG/DL
calcium/phosphorus ratio	2.08	
SODIUM	126	MEQ/L
POTASSIUM	> 5.5	MEQ/L
sodium/potassium ratio	22.9	
CHLORIDE	89	MEQ/L
MAGNESIUM	1.8	MG/DL
CHOLESTEROL	63	MG/DL

	JB-LBIRD.TXT		
	TRIGLYCERIDE	44	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.7	GM/DL
ALBUMIN (COLORIMETRY)		3.4	GM/DL
GLOBULIN (COLORIMETRY)		4.3	GM/DL
albumin/globulin ratio		0.791	
ASPARTATE AMINOTRANSFERASE		15	IU/L
ALANINE AMINOTRANSFERASE		2	IU/L
TOTAL BILIRUBIN		0.3	MG/DL
AMYLASE	>>10279		U/L
ALKALINE PHOSPHATASE	< 43		IU/L
CREATINE PHOSPHOKINASE	282		IU/L
GAMMA GLUTAMYLTRANSFERASE	11		IU/L
LIPASE	8		U/L

ISIS reference values are for LOXODONTA AFRICANA
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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Parasitology Examination:

Submission Data >>
 Type: Fecal sample
 Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0307
 Date collected: 15.Jun.2007
 Time collected: 10:00
 Collected by: CLP

Collected from:
 From an individual specimen.

Enclosure: AFRICA

Examination Data >>
 Storage: refrigerated
 Consistency: Not specified
 Gross appearance: Typical

Date examined: 16.Jun.2007
 by: LAB

Tests & Results >>
 CENTRIFUGATION

NO PARASITES SEEN

Comments >>
 Tested by Antech

Clinical Note:
 Outer nail of right front flushed with hydrogen peroxide. (CLP)

16.Jun.2007

Clinical Note:
 Edema on belly about the same. Infected hair follicles on tail appear resolved. Outer nail of right front flushed with hydrogen peroxide. (CLP)

17.Jun.2007

Clinical Note: 19.Jun.2007
Outer nail of right front flushed with hydrogen peroxide. (CLP)

Clinical Note: 20.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 21.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

Clinical Note: 22.Jun.2007
Collected trunk wash sample for TB testing. (CLP)

Clinical Note: 24.Jun.2007
Pulling on left nipple with trunk a lot lately. (CLP)

Clinical Note: 25.Jun.2007
Footwork done on both hind feet - pads and nails. Edema on belly looks smaller.
Trunk wash samples sent to USDA, APHIS, VS lab in Ames, Iowa. (CLP)

Clinical Note: 27.Jun.2007
Left nipple swollen, twice the size of right nipple. (CLP)

Clinical Note: 28.Jun.2007
Footwork done on left hind foot pad and nails. (CLP)

Clinical Note: 29.Jun.2007
Footwork done on middle nail of right hind. (CLP)

Clinical Note: 30.Jun.2007
Left nipple a little less swollen. Still pulling at it with trunk. (CLP)

Clinical Note: 2.Jul.2007
Still pulling at left nipple. Edema on belly looks smaller. (CLP)

Clinical Note:
Left nipple about the same size. (CLP)

3.Jul.2007

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 5.Jul.2007
Has not pulled at left nipple for two days. Koppertox applied to all
nails. (CLP)

Clinical Note: 6.Jul.2007
Edema on belly about the same. Left nipple is less swollen. May be
raw, she pulled at it a lot this am. (CLP)

Submission Data >>
Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2007-0315
Date collected: 9.Jul.2007
Collected by: WB

Collected from:
From an individual specimen.

Enclosure: AFRICA

Examination Data >>
Storage: room temperature
Consistency: Not specified
Gross appearance: Typical

Date examined: 9.Jul.2007
by: WB

Tests & Results >>
FLOATATION - ZINC SULFATE NO PARASITES SEEN

Clinical Note: 10.Jul.2007
Footwork done on both front feet. (CLP)

Clinical Note: 17.Jul.2007
Footwork done on both back feet. (CLP)

Clinical Note: 18.Jul.2007
Footwork done on right hind. (CLP)

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LOXODONTA AFRICANA (no subsp)	Sex: Female	Acc. #: XFA019
African elephant	Age: 38Y Est.	Birth: 1.Jan.1970
Name: Ladybird		

Clinical Note: 21.Jul.2007
Footwork done on left hind. Applied koppertox. (CLP)

Clinical Note: 23.Aug.2007
Tb Results from NVSL: Trunk wash samples taken on 06/20, 06/21 & 06/22
submitted on 06/26/07 - all negative for Mycobacteria - no isolation
made. (CLP)

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

Scientific name: LOXODONTA AFRICANA
Common Name: African elephant

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	10.50	+ 2.648	4.500	22.10	(1544)
RBC	*10 ⁶ /UL	3.15	+ 0.40	2.05	4.80	(1480)
HGB	GM/DL	13.7	+ 1.6	7.0	26.1	(1522)
HCT	%	39.5	+ 4.6	27.0	56.0	(1984)
MCH	MG/DL	43.6	+ 3.0	34.8	66.8	(1454)
MCHC	uug	34.7	+ 2.0	18.4	57.9	(1501)
MCV	fL	125.8	+ 8.1	91.1	190.0	(1466)
SEGS	*10 ³ /UL	3.146	+ 1.695	0.000	11.80	(1224)
BANDS	*10 ³ /UL	0.843	+ 0.799	0.000	6.530	(605)
LYMPHOCYTES	*10 ³ /UL	4.913	+ 2.532	0.022	17.40	(1236)
MONOCYTES	*10 ³ /UL	1.513	+ 1.651	0.000	9.480	(1175)
EOSINOPHILS	*10 ³ /UL	0.225	+ 0.273	0.000	2.898	(885)
BASOPHILS	*10 ³ /UL	0.049	+ 0.081	0.000	0.525	(464)
NRBC	/100 WBC	0	+ 1	0	3	(92)
PLATE. CNT.	*10 ³ /UL	417	+ 245	74	1380	(215)
RETICS	%	0.0	+ 0.0	0.0	0.0	(7)
GLUCOSE	MG/DL	84	+ 15	38	174	(1437)
BUN	MG/DL	10	+ 3	0	22	(1458)
CREAT.	MG/DL	1.5	+ 0.5	0.0	11.0	(1405)
URIC ACID	MG/DL	0.2	+ 0.4	0.0	5.1	(466)
CA	MG/DL	10.9	+ 0.6	8.1	15.3	(1434)
PHOS	MG/DL	4.9	+ 0.8	2.8	8.2	(1291)
NA	MEQ/L	129	+ 4	107	182	(1353)
K	MEQ/L	4.8	+ 0.5	3.3	7.6	(1368)
CL	MEQ/L	88	+ 4	67	129	(1323)
IRON	MCG/DL	79	+ 42	8	174	(54)
MG	MG/DL	1.97	+ 0.75	0.65	4.20	(98)
HCO3	MMOL/L	25.1	+ 3.6	13.0	31.0	(44)
CHOL	MG/DL	68	+ 17	0	234	(1290)
TRIG	MG/DL	64	+ 31	0	179	(1124)
T.PROT. (C)	GM/DL	7.7	+ 0.6	5.8	10.5	(1261)
T.PROT. (R)	GM/DL	8.0	+ 0.4	7.4	8.6	(8)
ALBUMIN (C)	GM/DL	3.6	+ 0.4	2.4	5.2	(1145)
GLOBULIN (C)	GM/DL	4.1	+ 0.5	2.6	6.4	(1135)
AST (SGOT)	IU/L	24	+ 10	6	93	(1398)
ALT (SGPT)	IU/L	7	+ 6	0	40	(547)
T. BILI.	MG/DL	0.2	+ 0.1	0.0	1.0	(1187)
D. BILI	MG/DL	0.1	+ 0.1	0.0	0.3	(154)
I. BILI.	MG/DL	0.1	+ 0.1	0.0	0.9	(152)
AMYLASE	U/L	3075	+ 1552	0	7918	(241)
ALK. PHOS.	IU/L	128	+ 61	32	441	(1404)
LDH	IU/L	988	+ 568	157	4306	(1099)

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Common Name: African elephant

		ISIS Values		Min.	Max.	(N)
		Mean	S.D.			
CPK	IU/L	256 +	196	18	1884	(247)
OSMOLARITY	MOSMOL/L	259 +	4	246	272	(689)
ALPHA GLOB.	MG/DL	0.7 +	0.0	0.7	0.7	(1)
ALPHA-1 GLOB	MG/DL	0.7 +	0.2	0.2	0.8	(8)
ALPHA-2 GLOB	MG/DL	1.0 +	0.3	0.8	1.6	(8)
BETA GLOB.	MG/DL	1.2 +	0.8	0.6	1.7	(2)
Body Temperature:		39.0 +	0.0	39.0	39.0	(1)
CO2	MMOL/L	27.0 +	3.1	12.0	61.4	(840)
ESR	MM/HR	27 +	0	27	27	(1)
FIBRINOGEN	MG/DL	238 +	139	0	600	(70)
GGT	IU/L	12 +	5	0	37	(389)
LIPASE	U/L	7 +	7	0	45	(66)
PROGESTERONE	NG/DL	144.8 +	216.4	0.060	1005	(266)
TESTOSTERONE	NG/ML	1.010 +	1.117	0.220	1.800	(2)
TOTAL T4	MCG/DL	8.2 +	1.3	6.9	9.5	(3)
T3 (RIA)	NG/ML	209.0 +	0.0	209.0	209.0	(1)
ALBUMIN (E)	GM/DL	4.4 +	0.3	4.1	4.9	(7)
GAMMA GLOB	GM/DL	1.6 +	0.4	0.7	1.9	(7)