

Report Start Date
1/1/1900

Specimen Report for GREENVISC / XFA019

Report End Date
7/2/2008

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 - 38Y,6M,9D +/-1 Yr.	Hybrid:	Not a hybrid
Time since last Acq:	1Y,10M,10D 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>
22 Aug 2006	Purchase from W PALM BE / 000008	GREENVISC / XFA019		

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

<u>Date</u>	<u>Type</u>	<u>Value</u>	<u>Units</u>
31 Oct 2003	live animal weight	8890	pound
12 Aug 2006	live animal weight	9000	pound
28 Sep 2007	live animal weight	8600	pound

6 Jul 2007	Medical observation	Left nipple swelling reduced.
10 Jul 2007	Foot management	Footwork done on both front feet.
11 Jul 2007	Fecal check/worming	Bi-annual(2): Negative.

17 Jul 2007	Foot management	Footwork done on both rear feet.
21 Jul 2007	Foot management	Footwork done on both rear feet.
30 Jul 2007	Foot management	Footwork done on front right foot.
4 Aug 2007	Aggression	Lee directing her to "come around" she refused and caught him across the side with her tusk.
9 Aug 2007	Foot management	Footwork done on left rear foot.
11 Aug 2007	Medical observation	Small cut on trunk, also fluid building back up along sides of stomach.
16 Aug 2007	Foot management	Footwork done on both front feet.
24 Aug 2007	Foot management	Footwork done on right rear foot.
12 Sep 2007	Foot management	Footwork done on left rear foot.
13 Sep 2007	Foot management	Footwork done on both front feet.
4 Oct 2007	Foot management	Footwork done on front feet.
11 Oct 2007	Foot management	Footwork done on rear feet.
15 Oct 2007	Foot management	Koppertox applied to all nails.
19 Oct 2007	Foot management	Koppertox applied to nails.
6 Nov 2007	Aggression	Behaved badly in chute during training.
15 Nov 2007	Foot management	Footwork done.
4 Dec 2007	Aggression	Charged at keeper during soap bath.
20 Dec 2007	Foot management	Koppertox applied to all nails.
16 Jan 2008	Fecal check/worming	Bi-annual(1): Negative.

Date Enclosure

22 Aug 2006 AFRICA

Date Sex

22 Aug 2006 Female

Date Rearing

22 Aug 2006 Unknown

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

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□(s3B Medical History Report - Summary for Individual Specimen
 □(s0B

GREENVILLE ZOO

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□(s1SLOXODONTA AFRICANA (no subsp)   □(s0S   Sex: Female           Acc. #:
XFA019
□(s3BAfrican elephant               □(s0B   Age: 39Y Est.         Birth:
1.Jan.1970
Name: Ladybird
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□(s3B.....2007...□(s0B
  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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□(s3B.....2008...□(s0B
  7.Jan Urine sample analysis results: ( 9:00.0)
        Blood sample: (EDTA) (11:00.0) Hematology/Chemistry/Serology results.
          WBC:6.86 *10^3/UL; HCT: 23.5%; BUN:11 MG/DL;
          Fluid sample analysis results: (15:00.0)
          Purpose/Problem: Colic
          Rx: FLUNIXIN MEGLUMINE 1500.0mg IM SID (.367 mg/kg)
          Clinical note recorded. (CLP)
  
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ELEPHANT.TXT

8.Jan Clinical note recorded. (HCM)
 Blood sample: (EDTA) (14:45.0) Hematology results.
 WBC:5.20 *10^3/UL; HCT: 31.0%;
 Purpose/Problem: colic
 RX: FLUNIXIN MEGLUMINE 750.0mg IM SID (.184 mg/kg)
 Clinical note recorded. (CLP)
 Clinical note recorded. (HCM)
 12.Jan Clinical note recorded. (CLP)
 14.Jan Clinical note recorded. (CLP)
 15.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
 NO PARASITES SEEN
 Clinical note recorded. (CLP)

9.Apr Blood sample: (EDTA) (10:00.0) Hematology/Chemistry/Serology results.
 WBC:6.30 *10^3/UL; HCT: 36.0%; BUN:14 MG/DL;

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=====
(s1SLOXODONTA AFRICANA (no subsp)      (s0S   Sex: Female      Acc. #:
XFA019
(s3BAfrican elephant                    (s0B   Age: 39Y Est.      Birth:
1.Jan.1970
Name: Ladybird
=====
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(s3BClinical Note:
 2.Jul.2007(s0B
 Still pulling at left nipple. Edema on belly looks smaller. (CLP)
 (s0B
 (s0B

(s3BClinical Note:
 3.Jul.2007(s0B
 Left nipple about the same size. (CLP)
 (s0B
 (s0B

(s3BClinical Note:
 5.Jul.2007(s0B
 Has not pulled at left nipple for two days. Koppertox applied to all
 nails. (CLP)
 (s0B
 (s0B

(s3BClinical Note:
 6.Jul.2007(s0B
 Edema on belly about the same. Left nipple is less swollen. May be
 raw, she pulled at it a lot this am. (CLP)
 (s0B
 (s0B

Submission Data >>
2007-0315
Type: Fecal sample
9.Jul.2007
Purpose: ROUTINE EXAMINATION

Sample id.:
Date collected:
Collected by: WB
Enclosure: AFRICA

Collected from:
From an individual specimen.

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

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Clinical Note:
10.Jul.2007
Footwork done on both front feet. (CLP)
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SLOXODONTA AFRICANA (no subsp) S Sex: Female Acc. #:
XFA019
African elephant S Age: 39Y Est. Birth:
1.Jan.1970
Name: Ladybird
=====

Clinical Note:
17.Jul.2007
Footwork done on both back feet. (CLP)
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Clinical Note:
18.Jul.2007
Footwork done on right hind. (CLP)
@d

Clinical Note:
21.Jul.2007

Footwork done on left hind. Applied koppertox. (CLP)

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□(s3BClinical Note:

23.Aug.2007□(s0B

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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=====
□(s1SLOXODONTA AFRICANA (no subsp)      □(s0S   Sex: Female      Acc. #:
XFA019
□(s3BAfrican elephant                    □(s0B   Age: 39Y Est.      Birth:
1.Jan.1970
Name: Ladybird
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□(s3BClinical Note:

7.Jan.2008□(s0B

Blood drawn by JR from left ear vein and sent to Cleveland Park East. Fresh urine collected from floor.

Observations: Ladybird did not eat her hay last night. She has been depressed the entire day she has been very uncomfortable and laying on

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her side. She is also leaning a lot on the walls and seems to be stretching her right leg out behind her. She has refused food and water today. She has not had an episode of colic here at the greenville zoo previously. She has previously had ventral edema on a couple of occasions that seems to resolve on its own and lab work is unremarkable.

Visual exam revealed that her eyes would stay half-closed unless aroused, head and trunk leaning towards the ground. She has mild bloating dorsally on the right which seems to be where a lot of the discomfort was originating. Mild mucoid discharge in both eyes, likely a little dehydrated. Bloodwork revealed an increased CK and anemia. Urinalysis was unremarkable.

Findings: Colic - anemia could be secondary to shunting blood, other differentials include hemolytic anemia, blood loss, immune-mediated. Increased CPK likely due to her being down throughout the night and day. Gas colic is the most likely differential because she has passed three piles of manure today, cannot rule out sand or mild impaction colic.

Recommendations: Supportively treat with Banamine, (today gave 30cc IM) recommend feeding only 1/2 of her hay this evening, recommend recheck bloodwork in the morning and if still enemic recommend Coombs test and further diagnostics. HC Miller, DVM (CLP)

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(s3BClinical Note:

7.Jan.2008(s0B

Rx: FLUNIXIN MEGLUMINE 1500.0 mg IM SID for 1 dose. (122088) (HCM)

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Clinical Pathology Records - Specimen Report

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GREENVILLE ZOO

(s1SLOXODONTA AFRICANA (no subsp)
XFA019

(s0S Sex: Female

Acc. #:

(s3BAfrican elephant

(s0B Age: 39Y Est.

Birth:

1.Jan.1970

Name: Ladybird

(s3BCollection Information >>(s0B

7.Jan.2008(s0B

Date of Collection:(s3B

ELEPHANT.TXT

Health Status: Abnormal

Time of Collection: 9:00.0
Collected by: JR
Sample Collection Site: from Floor

Weight: 3901 Kg on 28.Sep.2007

Analysis Information >>
CLEVELAND PK ES
Sample type: Urine
7.Jan.2008
Storage: Fresh
Sample Quality: No quality problems.

Laboratory:
Date of Analysis:
Time of Analysis:
Analysis by:
Manual analysis.

Comments >>
Urinalysis at Cleveland Park East
Glu - neg
Nit - pos
Ph - 8.5
S.G. - 1.010
Blood - mod
Everything else neg
Too much trash in stained - did not see any crystals
WBC - 1 to 2 per high powered field

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	Age: 39Y Est.	Birth:
African elephant		
1.Jan.1970		
Name: Ladybird		

ELEPHANT.TXT

Collection Information >>
7.Jan.2008
Health Status: Abnormal
Fasting Time: 8-24 hours
Activity: Active
Weight: 3901 Kg on 28.Sep.2007
Manual restraint used.

Date of Collection:
Time of Collection: 11:00.0
Collected by: JR
Sample Collection Site: EAR VEIN

Hematology >>
Analysis Information >>
CLEVELAND PK EAS
Anticoagulant: EDTA
7.Jan.2008
Storage: Fresh
Sample Quality: No quality problems.

Laboratory:
Date of Analysis:
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>
(s0B

WHITE BLOOD CELL COUNT	<	6.86		*10 ³ /UL
RED BLOOD CELL COUNT		2.93		*10 ⁶ /UL
HEMOGLOBIN	>	15.7		GM/DL
HEMATOCRIT	<<	23.5		%
MCV	<<	80.2		fL
MCH	>>	53.6		uug
MCHC	>>	66.8		gm/dL
SEGMENTED NEUTROPHILS		52.6	(3.608)	% (*10 ³ /UL)
LYMPHOCYTES	<	30.1	(2.065)	% (*10 ³ /UL)
MONOCYTES		14.4	(0.988)	% (*10 ³ /UL)
EOSINOPHILS		2.4	(0.165)	% (*10 ³ /UL)
BASOPHILS		0.5	(0.034)	% (*10 ³ /UL)
PLATELET COUNT		206		*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) (s05 Sex: Female Acc. #: XFA019

(s3BAfrican elephant (s0B Age: 39Y Est. Birth:
 1.Jan.1970
 Name: Ladybird

(s3BCollection Information >>(s0B Date of Collection:(s3B
 7.Jan.2008(s0B
 Health Status: Abnormal Time of Collection: 11:00.0
 Fasting Time: 8-24 hours Collected by: JR
 Activity: Active Sample Collection Site: EAR VEIN
 Weight: 3901 Kg on 28.Sep.2007
 Manual restraint used.

(s3BChemistry >>(s0B Laboratory:
 (s3BAnalysis Information >>(s0B Date of Analysis:
 (s3BCLEVELAND PK EAS(s0B Chemistry Sample: Serum Time of Analysis:
 (s3B7.Jan.2008(s0B Storage: Fresh Analysis by:
 Sample Quality: No quality problems. Automated analysis.

(s3B Tests and Results >>
 (s0B

GLUCOSE	98	MG/DL
BLOOD UREA NITROGEN	11	MG/DL
CREATININE	1.0	MG/DL
BUN/creatinine ratio	11.0	
CALCIUM	11.2	MG/DL
SODIUM	132	MEQ/L
POTASSIUM	> 5.4	MEQ/L
sodium/potassium ratio	24.4	
TOTAL PROTEIN (COLORIMETRY)	> 8.5	GM/DL
ALBUMIN (COLORIMETRY)	3.5	GM/DL
GLOBULIN (COLORIMETRY)	> 5.0	GM/DL
albumin/globulin ratio	0.700	
ASPARTATE AMINOTRANSFERASE	>> 61	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
CREATINE PHOSPHOKINASE	>> 767	IU/L
GAMMA GLUTAMYLTRANSFERASE	17	IU/L

ISIS reference values are for LOXODONTA AFRICANA
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ELEPHANT.TXT
GREENVILLE ZOO

=====
XFA019 (S1SLOXODONTA AFRICANA (no subsp) (S0S Sex: Female Acc. #:
(S3BAfrican elephant (S0B Age: 39Y Est. Birth:
1.Jan.1970
Name: Ladybird
=====

(S3BCollection Information >>(S0B Date of Collection:(S3B
7.Jan.2008(S0B
Health Status: Abnormal Time of Collection: 15:00.0
Collected by: JR
Sample Collection Site: NIPPLE EXUDATE
Weight: 3901 Kg on 28.Sep.2007

(S3BAnalysis Information >>(S0B Laboratory:
(S3BANTECH(S0B
Sample type: Other Date of Analysis:
(S3B13.Jan.2008(S0B
Storage: Refrigerated (<48 hours) Time of Analysis:
Sample Quality: No quality problems. Analysis by:
Automated analysis.

(S3B Comments >>(S0B
Culture and Sensitivites
Staphylococcus Epidermidis - heavy growth - Sensitivities: Clavamox,
Chloramphenicol, Clindamycin, Cephalothin, Methicillin, Erythromycin,
Baytril, Gentamicin, Neomycin, Trimethoprim/Sulfa, Tetracycline,
Marbofloxacin.

Medical History Report - Individual Specimen
GREENVILLE ZOO

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=====
  (s1SLOXODONTA AFRICANA (no subsp)      (s0S   Sex: Female           Acc. #:
XFA019
  (s3BAfrican elephant                    (s0B   Age: 39Y Est.         Birth:
1.Jan.1970
  Name: Ladybird
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(s3BPurpose:(s0B Colic

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  (s3BPrescription Data >>                (s0BStarting date:
(s3B7.Jan.2008(s0B
  Drug: FLUNIXIN MEGLUMINE 1500.0 mg IM SID
  Formulation: 50.00 mg/ml injectable      Bottle/Lot #: 122088
  Prescribed by: HCM (7.Jan.2008)         Filled by: HCM (7.Jan.2008)
  Drug dosage: .367 mg/kg                 Treatment weight: 4082 kg
  Clinical response to treatment: Good

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(s3BComments >>(s0B Tradename of drug used is BANAMINE SOLUTION.

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  (s3BDaily Treatment Notes >>(s0B
  (s0B Date      Time  Success  By      Comments
  (s0B-----
  (s0B 7.Jan.2008 17:00  100%    HCM

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  (s3BClinical Note:
8.Jan.2008(s0B
  S - Ladyburd started eating on Mon pm. She still seems mildly
  uncomfortable but is moving around well and has a good appetite.
  O - Visual exam revealed no abnormalities.
  A - Resolving colic.
  P - We gave another 15cc banamine IM.
  HC Miller, DVM (CLP)
  (s0B

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  (s3BClinical Note:
8.Jan.2008(s0B
  Rx: FLUNIXIN MEGLUMINE 750.0 mg IM SID for 1 dose. (122088) (HCM)
  (s0B

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□(s3B Clinical Pathology Records - Specimen Report

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GREENVILLE ZOO

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=====
□(s1SLOXODONTA AFRICANA (no subsp)   □(s0S   Sex: Female           Acc. #:
XFA019
□(s3BAfrican elephant               □(s0B   Age: 39Y Est.         Birth:
1.Jan.1970
Name: Ladybird
=====
    
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□(s3BCollection Information >>□(s0B   Date of Collection:□(s3B
8.Jan.2008□(s0B
Health Status: Abnormal               Time of Collection: 14:45.0
Fasting Time: < 8 hours              Collected by: JR
Activity: Active                       Sample Collection Site: EAR VEIN
Weight: 3901 Kg on 28.Sep.2007
Manual restraint used.
    
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□(s3BHematology >>□(s0B
□(s3BAnalysis Information >>□(s0B   Laboratory:
□(s3BANTECH□(s0B
Anticoagulant: EDTA                  Date of Analysis:
□(s3B9.Jan.2008□(s0B
Storage: Fresh                        Time of Analysis:
Sample Quality: No quality problems.  Analysis by:
                                         Automated analysis.
    
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□(s3B Tests and Results >>
□(s0B
WHITE BLOOD CELL COUNT << 5.2           *10^3/UL
RED BLOOD CELL COUNT >> 5.63          *10^6/UL
HEMOGLOBIN >> 25.8                GM/DL
HEMATOCRIT < 31.0                 %
MCV << 55.1                       fL
MCH 45.8                          uug
MCHC >> 83.2                       gm/dL
SEGMENTED NEUTROPHILS 36 (1.872) % (*10^3/UL)
NEUTROPHILIC BANDS < 0 % (*10^3/UL)
LYMPHOCYTES < 14 (0.728) % (*10^3/UL)
MONOCYTES 49 (2.548) % (*10^3/UL)
EOSINOPHILS 1 (0.052) % (*10^3/UL)
BASOPHILS 0 % (*10^3/UL)
ESTIMATED PLATELET COUNT ADEQU
PLATELET COUNT 290 *10^3/UL
    
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ISIS reference values are for LOXODONTA AFRICANA
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 (s3B/ISIS/MedARKS/5.53(s0B
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Medical History Report - Individual Specimen
 GREENVILLE ZOO

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(s1SLOXODONTA AFRICANA (no subsp)      (s0S   Sex: Female          Acc. #:
XFA019
(s3BAfrican elephant                   (s0B   Age: 39Y Est.          Birth:
1.Jan.1970
Name: Ladybird
=====
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(s3BPurpose:(s0B colic

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(s3BPrescription Data >>                (s0BStarting date:
(s3B8.Jan.2008(s0B
  Drug: FLUNIXIN MEGLUMINE 750.0 mg IM SID
  Formulation: 50.00 mg/ml injectable      Bottle/Lot #: 122088
  Prescribed by: HCM (8.Jan.2008)         Filled by: HCM (8.Jan.2008)
  Drug dosage: .184 mg/kg                 Treatment weight: 4082 kg
  Clinical response to treatment: Good
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(s3BComments >>(s0B
 Tradename of drug used is BANAMINE SOLUTION.

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(s3BDaily Treatment Notes >>(s0B
  (s0BDate      Time  Success  By      Comments
(s0B
(s0B8.Jan.2007 14:00  100%    HCM
```

(s3BClinical Note:
 12.Jan.2008(s0B
 Not bending her front right knee joint, walking stiffly. Will move
 entire leg at shoulder and swing it rather than bend knee. (CLP)
 (s0B

(s0B

(s3BClinical Note:
 14.Jan.2008(s0B
 Reluctant to lift right front leg for cleaning, even being aggressive.
 will move entire leg at shoulder and swing it rather than bend knee.
 (CLP)
 (s0B

(s0B

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(s3B/ISIS/MedARKS/5.53(s0B

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=====
(s1SLOXODONTA AFRICANA (no subsp)      (s0S   Sex: Female           Acc. #:
XFA019
(s3BAfrican elephant                    (s0B   Age: 39Y Est.           Birth:
1.Jan.1970
Name: Ladybird
=====

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(s3BClinical Note:
15.Jan.2008(s0B
S - Starting 1/12/08 she has not been bending her front right knee
joint, walking stiffly. Reluctant to lift leg for cleaning, even
being aggressive. Will move entire leg at shoulder and swing it
rather than bend knee.
O - No swelling or lumps noted. Grade 2/5 lame on R front.
A - Arthritis. Soft tissue injury when she was laying down a lot.
Already mildly improved from Sat.
P - Monitor for now, if no more improvement by Sat may start
ibuprofen.
HC Miller, DVM (CLP)
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(s3BSubmission Data >>(s0B                               Sample id.:
2008-0056
Type: Fecal sample                                         Date collected:
(s3B15.Jan.2008(s0B                                       Collected by: ALF
Purpose: ROUTINE EXAMINATION
(s3BCollected from:(s0B                               Enclosure: AFRICA
From an individual specimen.
(s3BExamination Data >>(s0B                               Date examined: 15.Jan.2008
Storage: room temperature                                  by: ALF
Consistency: Not specified
Gross appearance: Typical
(s3BTests & Results >>(s0B                               NO PARASITES SEEN
FLOATATION - ZINC SULFATE

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□(s3B Clinical Pathology Records - Specimen Report
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GREENVILLE ZOO

=====
 □(s1SLOXODONTA AFRICANA (no subsp) □(s0S Sex: Female Acc. #:
 XFA019 □(s3BAfrican elephant □(s0B Age: 39Y Est. Birth:
 1.Jan.1970
 Name: Ladybird
 =====

□(s3BCollection Information >>□(s0B Date of Collection:□(s3B
 9.Apr.2008□(s0B Time of Collection: 10:00.0
 Health Status: Abnormal Collected by: JR
 Fasting Time: < 8 hours Sample Collection Site: EAR VEIN
 Activity: Active
 Weight: 3901 Kg on 28.Sep.2007
 Manual restraint used.

□(s3BHematology >>□(s0B Laboratory:
 □(s3BAnalysis Information >>□(s0B
 □(s3BANTECH□(s0B Date of Analysis:
 Anticoagulant: EDTA Time of Analysis:
 □(s3B12.Apr.2008□(s0B Analysis by:
 Storage: Fresh Automated analysis.
 Sample Quality: No quality problems.

□(s3B Tests and Results >>
 □(s0B

WHITE BLOOD CELL COUNT	<	6.3		*10 ³ /UL
RED BLOOD CELL COUNT		3.09		*10 ⁶ /UL
HEMOGLOBIN		13.0		GM/DL
HEMATOCRIT		36.0		%
MCV	<	117		fL
MCH		42.1		ug
MCHC		36.1		gm/dL
SEGMENTED NEUTROPHILS	<	23	(1.449)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	<	0		% (*10 ³ /UL)
LYMPHOCYTES	<	37	(2.331)	% (*10 ³ /UL)
MONOCYTES		38	(2.394)	% (*10 ³ /UL)
EOSINOPHILS		2	(0.126)	% (*10 ³ /UL)
BASOPHILS		0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT			ADEQU	

ISIS reference values are for LOXODONTA AFRICANA
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ISIS/ISIS/MedARKS/5.53

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Clinical Pathology Records - Specimen Report

GREENVILLE ZOO

LOXODONTA AFRICANA (no subsp) Sex: Female Acc. #: XFA019
African elephant Age: 39Y Est. Birth: 1.Jan.1970
Name: Ladybird

Collection Information >> Date of Collection: 9.Apr.2008
Health Status: Abnormal Time of Collection: 10:00.0
Fasting Time: < 8 hours Collected by: JR
Activity: Active Sample Collection Site: EAR VEIN
Weight: 3901 Kg on 28.Sep.2007
Manual restraint used.

Chemistry >> Laboratory:
Analysis Information >> Date of Analysis:
BANTECH Chemistry Sample: Serum
12.Apr.2008 Storage: Fresh Time of Analysis:
Sample Quality: No quality problems. Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	76	MG/DL
BLOOD UREA NITROGEN	> 14	MG/DL
CREATININE	1.2	MG/DL
BUN/creatinine ratio	11.7	
CALCIUM	11.1	MG/DL
PHOSPHORUS	4.4	MG/DL
calcium/phosphorus ratio	2.52	
SODIUM	126	MEQ/L
POTASSIUM	4.9	MEQ/L
sodium/potassium ratio	25.7	

ELEPHANT.TXT		
CHLORIDE	87	MEQ/L
MAGNESIUM	1.9	MG/DL
CHOLESTEROL	68	MG/DL
TRIGLYCERIDE	48	MG/DL
TOTAL PROTEIN (COLORIMETRY)	> 8.4	GM/DL
ALBUMIN (COLORIMETRY)	3.5	GM/DL
GLOBULIN (COLORIMETRY)	> 4.9	GM/DL
albumin/globulin ratio	0.714	
ASPARTATE AMINOTRANSFERASE	< 13	IU/L
ALANINE AMINOTRANSFERASE	3	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
AMYLASE	>>10418	U/L
ALKALINE PHOSPHATASE	< 47	IU/L
CREATINE PHOSPHOKINASE	405	IU/L
GAMMA GLUTAMYLTRANSFERASE	13	IU/L
LIPASE	7	U/L

ISIS reference values are for LOXODONTA AFRICANA

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□(s3B Clinical Pathology Records Report - ISIS/In-House Reference Values

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GREENVILLE ZOO

Scientific name: □(s3B□(s1SLOXODONTA AFRICANA □(s0B□(s0S
Common Name: □(s3BAfrican elephant □(s0B

□(s3BISIS values □(s0B
□(s3BMean S.D. Min. Max. (N)□(s0B

WBC	*10 ³ /UL	10.50	□&d0D+□&d@	2.648	4.500	22.10	(1544)
RBC	*10 ⁶ /UL	3.15	□&d0D+□&d@	0.40	2.05	4.80	(1480)
HGB	GM/DL	13.7	□&d0D+□&d@	1.6	7.0	26.1	(1522)
HCT	%	39.5	□&d0D+□&d@	4.6	27.0	56.0	(1984)
MCH	MG/DL	43.6	□&d0D+□&d@	3.0	34.8	66.8	(1454)
MCHC	uug	34.7	□&d0D+□&d@	2.0	18.4	57.9	(1501)
MCV	fL	125.8	□&d0D+□&d@	8.1	91.1	190.0	(1466)
SEGS	*10 ³ /UL	3.146	□&d0D+□&d@	1.695	0.000	11.80	(1224)
BANDS	*10 ³ /UL	0.843	□&d0D+□&d@	0.799	0.000	6.530	(605)
LYMPHOCYTES	*10 ³ /UL	4.913	□&d0D+□&d@	2.532	0.022	17.40	(1236)
MONOCYTES	*10 ³ /UL	1.513	□&d0D+□&d@	1.651	0.000	9.480	(1175)
EOSINOPHILS	*10 ³ /UL	0.225	□&d0D+□&d@	0.273	0.000	2.898	(885)
BASOPHILS	*10 ³ /UL	0.049	□&d0D+□&d@	0.081	0.000	0.525	(464)
NRBC	/100 WBC	0	□&d0D+□&d@	1	0	3	(92)
PLATE. CNT.	*10 ³ /UL	417	□&d0D+□&d@	245	74	1380	(215)
RETICS	%	0.0	□&d0D+□&d@	0.0	0.0	0.0	(7)
GLUCOSE	MG/DL	84	□&d0D+□&d@	15	38	174	(1437)
BUN	MG/DL	10	□&d0D+□&d@	3	0	22	(1458)
CREAT.	MG/DL	1.5	□&d0D+□&d@	0.5	0.0	11.0	(1405)
URIC ACID	MG/DL	0.2	□&d0D+□&d@	0.4	0.0	5.1	(466)
CA	MG/DL	10.9	□&d0D+□&d@	0.6	8.1	15.3	(1434)
PHOS	MG/DL	4.9	□&d0D+□&d@	0.8	2.8	8.2	(1291)
NA	MEQ/L	129	□&d0D+□&d@	4	107	182	(1353)

		ELEPHANT.TXT				
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	0.8	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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