

Lee Richardson 200

Medical History Reports
10 Pages

CHANA APPEARS TO HAVE
DIED IN 2001

"Vessel Collapse"

MOKI - SCABS FROM SELF
TRAUMA

Medical History Report - Summary for Individual Specimen
LEE RICHARDSON ZOO

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: M30033
Common Name: East African bush elephant Female
Name: MSICHANA /CHANA Birth: 15.Apr.1982
Tag/Band: LONGER TAIL
=====

.....2000...

12.Feb Clinical note recorded. (LMH)
29.Mar Clinical note recorded. (LMH)
15.Apr Clinical note recorded. (LMH)

.....2001...

2.Jun PROBLEM: husbandry problem (onset)
Clinical note recorded. (FRV)
3.Jun Clinical note recorded. (FRV)
24.Aug Clinical note recorded. (FRV)
6.Dec Clinical note recorded. (FRV)

.....2002...

20.Feb Clinical note recorded. (FRV)

/ISIS/MedARKS/5.32a

Printed on: 16.Feb.2005

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: MSICHANA /CHANA

=====
Accession #: M30033
Female
Birth: 15.Apr.1982
Tag/Band: LONGER TAIL
=====

Clinical Note: 12.Feb.2000
Problem: vessel collapse - left ear (Confirmed)
thin normal range
Vit (LMH)

Clinical Note: 29.Mar.2000
Problem: vessel collapse - left ear (Confirmed)

Clinical Note: 15.Apr.2000
Problem: vessel collapse - left ear (Confirmed)

Clinical Note: 2.Jun.2001
Problem: vessel collapse - left ear (Confirmed); husbandry problem
(Suspected)

Clinical Note: 3.Jun.2001
Problem: vessel collapse - left ear (Confirmed); husbandry problem
(Suspected)
Per phone consultations with keeper, incision dehiscd 12/24, keeper
kept clean and bandaged over the course of the week. Today's exam
revealed a partially necrotic foot. Rebandaged pending decision to
euthanize. Died within 15 minutes of exam. (FRV)

Clinical Note: 24.Aug.2001
Problem: vessel collapse - left ear (Confirmed); husbandry problem
(Suspected)
USDA has ordered TB testing annually. (FRV)

Clinical Note: 6.Dec.2001
Problem: vessel collapse - left ear (Confirmed); husbandry problem
(Suspected)
Results of CBC and blood chemistry. Mild increase in triglygerides
and cholesterol, likely due to rich diet. Mild lymphocytosis and
monocytosis, suggestive of chronic low grade infection. This is
presumably chronic infections infect due to substrate issues and long
term foot problems. (FRV)

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: MSICHANA /CHANA

Accession #: M30033
Female
Birth: 15.Apr.1982
Tag/Band: LONGER TAIL
=====

Clinical Note:

20.Feb.2002

Problem: vessel collapse - left ear (Confirmed); husbandry problem
(Suspected)
Weight = 9150#. (FRV)

Clinical Pathology Records Report - ISIS/In-House Reference Values
LEE RICHARDSON 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 (1358)
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)

/ISIS/MedARKS/5.32a

- page 4 -

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

=====
 Scientific name: **LOXODONTA AFRICANA**
 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)

Medical History Report - Summary for Individual Specimen
LEE RICHARDSON ZOO

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: M59033
Common Name: East African bush elephant Female
Name: MOKALA OR MOKI Birth: 15.Jul.1982
=====

.....2000...

7.Feb Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.30 *10³/UL; HCT: 33.5%; BUN:6 MG/DL;
12.Feb Clinical note recorded. (LMH)
29.Mar Clinical note recorded. (LMH)
15.Apr Clinical note recorded. (LMH)
25.Apr Clinical note recorded. (LMH)
15.Nov Clinical note recorded. (LMH)

.....2001...

24.Aug Clinical note recorded. (FRV)
6.Dec Clinical note recorded. (FRV)
14.Dec Clinical note recorded. (FRV)

.....2002...

2.Feb Clinical note recorded. (FRV)
15.Feb Clinical note recorded. (FRV)
20.Feb Clinical note recorded. (FRV)
8.May Clinical note recorded. (FRV)
17.Jul Clinical note recorded. (FRV)

Clinical Pathology Records - Specimen Report
LEE RICHARDSON ZOO

```

=====
Scientific Name: LOXODONTA AFRICANA KNOCHENHAUERI      Accession #: M59033
Common Name: East African bush elephant                Female
Name: MOKALA OR MOKI                                  Birth: 15.Jul.1982
                                                        Age: 17Y 6M 24D
=====

```

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 1452 Kg on 1.Nov.1990
Manual restraint used.

Date of Collection: 7.Feb.2000
Time of Collection:
Collected by: IMH
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ST. CATHERINES
Date of Analysis: 7.Feb.2000
Time of Analysis:
Analysis by:
Manual analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	12.3		*10 ³ /UL
RED BLOOD CELL COUNT	< 2.68		*10 ⁶ /UL
HEMOGLOBIN	< 12.0		GM/DL
HEMATOCRIT	< 33.5		%
MCV	125		fL
MCH	44.8		ug
MCHC	35.8		gm/dL
SEGMENTED NEUTROPHILS	27	(3.321)	% (*10 ³ /UL)
LYMPHOCYTES	49	(6.027)	% (*10 ³ /UL)
MONOCYTES	23	(2.829)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.123)	% (*10 ³ /UL)
PLATELET COUNT	< 161		*10 ³ /UL
MEAN CORPUSCULAR HEMOGLOBIN	44.8		
MEAN CORPUSCULAR HEMOGLOBIN CONTENT	35.8		
MEAN CORPUSCULAR VOLUME	125.1		
MEAN PLATELET VALUE	4.5		
RDW	15.5		

Clinical Pathology Records - Specimen Report
LEE RICHARDSON ZOO

Scientific Name: *LOXODONTA AFRICANA KROCHENHAUERI*
Common Name: East African bush elephant
Name: MOKALA OR MOKI

Accession #: M59033
Female
Birth: 15 Jul 1982
Age: 17Y 6M 24D

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 1452 Kg on 1.Nov.1990
Manual restraint used.

Date of Collection: 7.Feb.2000
Time of Collection:
Collected by: LMH
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: ST. CATHERINES
Date of Analysis: 7.Feb.2000
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	>	102	MG/DL
BLOOD UREA NITROGEN	<	6	MG/DL
CREATININE		1.6	MG/DL
BUN/creatinine ratio		3.75	
CALCIUM		11.0	MG/DL
SODIUM		130	MEQ/L
POTASSIUM		4.3	MEQ/L
sodium/potassium ratio		30.2	MEQ/L
CHLORIDE	>	93	GM/DL
TOTAL PROTEIN (COLORIMETRY)		7.6	GM/DL
ALBUMIN (COLORIMETRY)	<<	1.8	IU/L
ALANINE AMINOTRANSFERASE	>>	20	MG/DL
TOTAL BILIRUBIN		0.2	IU/L
ALKALINE PHOSPHATASE		125	GM/DL
ALBUMIN GLOBULIN RATIO		0.3	MMOL/L
CARBON DIOXIDE		26	

ISIS reference values are for *LOXODONTA AFRICANA*
Printed on: 16.Feb.2005

/ISIS/medARKS/5.32a

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: MOKALA OR MOKI

Accession #: M59033
Female
Birth: 15.Jul.1982
Age: 17Y 6M 24D
=====

Clinical Note: 12.Feb.2000

Clinical Note: 29.Mar.2000

Clinical Note: 15.Apr.2000

Clinical Note: 25.Apr.2000

Clinical Note: 15.Nov.2000

Clinical Note: 24.Aug.2001
USDA has ordered TB testing annually. (FRV)

Clinical Note: 6.Dec.2001
Results of CBC and blood chemistry. Mild increase in cholesterol and triglycerides, presumably due to rich diet. Mild lymphocytosis and neutrophilia, suggestive of a low grade chronic infection. This is presumably chronic infections inf the feet due to substrate issues and chronic foot problems. (FRV)

Clinical Note: 14.Dec.2001
Scabs on face resulting from self trauma. Superficial. (FRV)

Clinical Note: 2.Feb.2002
Keeper (Osborn) reports blood at this morning's phlebotomy was especially dark. This is presumably due to physiologic responses to the cold. Will KUO. (FRV)

Clinical Note: 15.Feb.2002
Keeper (Kuker) reports plasma clot in tube after spinning blood. (FRV)

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: MOKALA OR MOKI

Accession #: M59033
Female
Birth: 15 Jul 1982
Age: 17Y 6M 24D
=====

Clinical Note:

20.Feb.2002

Weight = 7900#. (FRV)

Clinical Note:

8.May.2002

Center nail on left front cracked. Crack is horizontal, near proximal margin of nail. (FRV)

Clinical Note:

17.Jul.2002

Episode of significant agitation and damage to the perimeter fence. Multiple superficial skin lesions to head as a result. No sequelae anticipated. (FRV)
