

Medical History Report - Summary for Individual Specimen
KANSAS CITY ZOOLOGICAL PARK

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=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                           Female
Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
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.....2005.....

- 13.May Clinical note recorded. (WKS)

- 8.Jun Clinical note recorded. (TLH)
- 24.Jun Clinical note recorded. (WKS)
- 26.Jun Clinical note recorded. (KMP)

- 19.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.40 *10³/UL; HCT: 33.0%; BUN:7 MG/DL;
Clinical note recorded. (SKC)
- 21.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:8.10 *10³/UL; HCT: 32.0%; BUN:7 MG/DL;
Clinical note recorded. (SKC)
- 25.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:7.00 *10³/UL; HCT: 40.0%; BUN:7 MG/DL;
Hemolysis
- 27.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
- 28.Jul Clinical note recorded. (SKC)

- 2.Aug Clinical note recorded. (TLH)
- 11.Aug Clinical note recorded. (KMP)
- 30.Aug Clinical note recorded. (TLH)

- 6.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.90 *10³/UL; HCT: 42.0%; BUN:8 MG/DL;
Clinical note recorded. (SJV)
Clinical note recorded. (TLH)
- 7.Sep Clinical note recorded. (SJV)
Clinical note recorded. (WKS)
- 9.Sep Clinical note recorded. (WKS)
- 13.Sep Blood sample: Hematology/Chemistry/Serology results.
WBC:9.40 *10³/UL; HCT: 34.0%; BUN:8 MG/DL;
Clinical note recorded. (TLH)
- 14.Sep Blood sample: Chemistry results.
Clinical note recorded. (TLH)
Clinical note recorded. (WKS)
- 15.Sep Clinical note recorded. (TLH)
Clinical note recorded. (WKS)
- 16.Sep Clinical note recorded. (TLH)
Clinical note recorded. (WKS)
- 19.Sep Clinical note recorded. (TLH)
- 21.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:8.00 *10³/UL; HCT: 39.0%; BUN:9 MG/DL;
- 22.Sep Clinical note recorded. (SJV)

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Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
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-2005....
- 22.Sep Clinical note recorded. (TLH)
 - 26.Sep Clinical note recorded. (TLH)
 - 27.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:11.20 *10³/UL; HCT: 37.0%; BUN:8 MG/DL;
Clinical note recorded. (SJV)
 - Clinical note recorded. (TLH)
 - 28.Sep Clinical note recorded. (TLH)
 - 29.Sep Clinical note recorded. (TLH)
 - 30.Sep Blood sample: Chemistry results.
Clinical note recorded. (SJV)
 - Clinical note recorded. (TLH)
 - Clinical note recorded. (WKS)

 - 1.Oct Clinical note recorded. (TLH)
 - Clinical note recorded. (WKS)
 - 3.Oct Clinical note recorded. (TLH)
 - Clinical note recorded. (WKS)
 - 4.Oct Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:8.60 *10³/UL; HCT: 39.0%; BUN:10 MG/DL;
Clinical note recorded. (SJV)
 - Clinical note recorded. (TLH)
 - 5.Oct Clinical note recorded. (SJV)
 - 6.Oct Clinical note recorded. (SJV)
 - Clinical note recorded. (TLH)
 - 9.Oct Clinical note recorded. (TLH)
 - Clinical note recorded. (WKS)
 - 10.Oct Clinical note recorded. (TLH)
 - 11.Oct Blood sample: (EDTA) (9:00.0) Hematology/Chemistry/Serology results.
WBC:13.20 *10³/UL; HCT: 38.0%; BUN:7 MG/DL;
Clinical note recorded. (SJV)
 - 12.Oct Clinical note recorded. (TLH)
 - 13.Oct Clinical note recorded. (WKS)
 - 14.Oct Clinical note recorded. (TLH)
 - 16.Oct Clinical note recorded. (TLH)
 - 18.Oct Blood sample: Hematology results.
WBC:6.20 *10³/UL; HCT: 37.0%;
Clinical note recorded. (TLH)
 - 19.Oct Clinical note recorded. (TLH)
 - 20.Oct Clinical note recorded. (TLH)
 - 24.Oct Clinical note recorded. (TLH)
 - 25.Oct Blood sample: (EDTA) (9:00.0) Hematology/Chemistry/Serology results.
WBC:8.60 *10³/UL; HCT: 36.0%; BUN:7 MG/DL;
Clinical note recorded. (TLH)
 - 26.Oct Clinical note recorded. (TLH)

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Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
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.....2005....

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27.Oct Clinical note recorded. (TLH)
28.Oct Clinical note recorded. (TLH)

 4.Nov Clinical note recorded. (TLH)
15.Nov Clinical note recorded. (WKS)
16.Nov Clinical note recorded. (WKS)

22.Nov Clinical note recorded. (WKS)
29.Nov Clinical note recorded. (WKS)

 6.Dec Clinical note recorded. (TLH)
      Clinical note recorded. (WKS)
 7.Dec Clinical note recorded. (WKS)
 8.Dec Clinical note recorded. (WKS)
 9.Dec Clinical note recorded. (TLH)
14.Dec Clinical note recorded. (WKS)
19.Dec Clinical note recorded. (WKS)
27.Dec Clinical note recorded. (WKS)
28.Dec Clinical note recorded. (TLH)
      Clinical note recorded. (WKS)
29.Dec Clinical note recorded. (WKS)
30.Dec Clinical note recorded. (TLH)
      Clinical note recorded. (WKS)

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Weight: 3843 Kg (8470 Lb)

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 2.Jan Clinical note recorded. (WKS)
 3.Jan Clinical note recorded. (WKS)
 4.Jan Clinical note recorded. (TLH)
 6.Jan Clinical note recorded. (TLH)
      Clinical note recorded. (WKS)
 7.Jan Clinical note recorded. (WKS)
10.Jan Clinical note recorded. (WKS)
17.Jan Clinical note recorded. (ANL)
      Clinical note recorded. (TLH)
      Clinical note recorded. (WKS)

 2.Feb Clinical note recorded. (TLH)
 8.Feb Clinical note recorded. (WKS)

 1.Mar Parasitology examination: (ROUTINE EXAM) Fecal sample.
 2.Mar Clinical note recorded. (TLH)
 5.Mar Parasitology examination: (ROUTINE EXAM) Fecal sample.
21.Mar Clinical note recorded. (TLH)

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Common Name: African elephant                           Female
Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
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- 4.Apr Parasitology examination: (NOT SPECIFIED) Fecal sample.
- 6.Apr Clinical note recorded. (TLH)
- 14.Apr Clinical note recorded. (TLH)
- 15.Apr Clinical note recorded. (WKS)
- 18.Apr Clinical note recorded. (WKS)
- 27.Apr Clinical note recorded. (HRL)

- 4.May Clinical note recorded. (TLH)
- 5.May Clinical note recorded. (WKS)
- 13.May Clinical note recorded. (WKS)
- 19.May Clinical note recorded. (WKS)
- 27.May Clinical note recorded. (WKS)

- 28.Jun Clinical note recorded. (WKS)
- 29.Jun Clinical note recorded. (WKS)

- 19.Jul Blood sample: (EDTA) (10:30.0) Hematology/Chemistry/Serology results.
WBC:6.70 *10³/UL; HCT: 39.0%; BUN:7 MG/DL;
Clinical note recorded. (ANL)
- 21.Jul Clinical note recorded. (ERB)
- 24.Jul Urine sample analysis results:
- 27.Jul Clinical note recorded. (ERB)

- 2.Aug Parasitology examination: (ROUTINE EXAM) Fecal sample.
- 7.Aug Clinical note recorded. (ERB)
- 21.Aug Clinical note recorded. (GLT)

- 7.Sep Clinical note recorded. (ERB)
- 8.Sep Clinical note recorded. (ERB)
- 11.Sep Clinical note recorded. (ANL)
- 12.Sep Clinical note recorded. (ERB)
- 27.Sep Clinical note recorded. (AP)
- 29.Sep Clinical note recorded. (GLT)

- 4.Oct Clinical note recorded. (102)
- 19.Oct Clinical note recorded. (GLT)

- 2.Nov Clinical note recorded. (GLT)
- 9.Nov Clinical note recorded. (GLT)
- 24.Nov Clinical note recorded. (WKS)

- 1.Dec Clinical note recorded. (WKS)
- 3.Dec Clinical note recorded. (WKS)
- 6.Dec Blood sample: (EDTA) (8:00.0) Hematology/Chemistry/Serology results.

=====
Scientific Name: *LOXODONTA AFRICANA* (no subsp) Accession #: 1670
Common Name: African elephant Female
Name: LOIS Birth: 17.Sep.1978 (Estimated)
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Clinical Note: 13.May.2005
ERD restraint-ultrasounded left mammae via 3.5MHz curvilinear array probe.
Uniform echogenicity throughout with .16cm c/s vasculature, 1/4 the
diameter of conspecifics. Did well. To compare prints and video. (WKS)

Clinical Note: 8.Jun.2005
Printed medical history- skips a couple of page numbers, but doesn't appear
to be missing any data. WKS (TLH)

Clinical Note: 24.Jun.2005
Supervisor reported elephant group got ahold of and tore out hotwire and
fiberglass poles-ate poles. Hot wire had not been working properly
recently. Advised to bring up poles to examine what type of fiberglass
used-two crushed pieces presented. Advised to feed all elephants at least a
couple loaves of bread and feeding heavier this evening as an aid to
potentially bind and pass pieces more rapidly. Aware of at least one report
of ingested fiberglass causing the demise of a dog in the literature.
Fiberglass is undigestible and potential for intestinal
irritation/embedding. No practical method of retrieval. to watch for signs
of abdominal colic and chronic diarrhea. All animals normal in evening.
(WKS)

Clinical Note: 26.Jun.2005
Keepers reported loose stools in big yard uncertain from whom but suspect
is Lois. All are acting normally and eating well. (KMP)

Clinical Note: 19.Jul.2005
Keepers report swelling in the right axilla which was not seen yesterday.
Visual exam and palpation show a 15-20 cm diameter round, firm, pendulous
subcutaneous axillary mass cranial to the right thoracic limb. All mammae
are also firm and enlarged. Elephant is rubbing the mass, suggesting
discomfort. Differential diagnoses include hematoma from conspecific
trauma or abscess neoplasia unlikely due to rapid development. 1.5 tube of
flunixin pase PO sid (2250mg) for two days. (SKC)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 19.Jul.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: ANTECH
Date of Analysis: 20.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.4		*10 ³ /UL
RED BLOOD CELL COUNT	3.2		*10 ⁶ /UL
HEMOGLOBIN	13.4		GM/DL
HEMATOCRIT	< 33		%
MCV	<< 103		fL
MCH	41.9		uug
MCHC	>> 40.6		gm/dL
SEGMENTED NEUTROPHILS	40	(4.160)	% (*10 ³ /UL)
LYMPHOCYTES	27	(2.808)	% (*10 ³ /UL)
ABSOLUTE LYMPHOCYTES	2808		/UL
ABSOLUTE SEGS	4160		/UL
MEAN CORPUSCULAR HEMOGLOBIN	42.0		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	40		%
MEAN CORPUSCULAR VOLUME	103		U(3)

Comments >>

RBC Morph: Normal
(Missing page 2 of results)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

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Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                           Age: 27Y Est.
=====

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Collection Information >>

```

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Date of Collection: 19.Jul.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

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Chemistry >>

Analysis Information >>

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Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

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Laboratory: ANTECH
Date of Analysis: 20.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

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Tests and Results >>

GLUCOSE	88	MG/DL
BLOOD UREA NITROGEN	7	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	4.38	
CALCIUM	< 9.9	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.41	
SODIUM	130	MEQ/L
POTASSIUM	4.4	MEQ/L
sodium/potassium ratio	29.5	
CHLORIDE	87	MEQ/L
CHOLESTEROL	73	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.6	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
GLOBULIN (COLORIMETRY)	4.4	GM/DL
albumin/globulin ratio	0.727	
ASPARTATE AMINOTRANSFERASE	15	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	< 65	IU/L
LACTATE DEHYDROGENASE	< 336	IU/L
CREATINE PHOSPHOKINASE	319	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
BUN/CREATININE RATIO	4	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	30	RATIO

Comments >>

Slight decrease in Ca. Rest WNL. WKS

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Accession #: 1670

Common Name: African elephant

Female

Name: LOIS

Birth: 17.Sep.1978 (Estimated)

Age: 27Y Est.

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Clinical Note:

21.Jul.2005

Repalpated swelling, now is more fluctuant and diffusly spreading
cranially and caudally. Has been treated with 1.5 tube of flunixin
pase sid (2250mg) for two days. Does not appear painful. (SKC)

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Common Name: African elephant                           Female
Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
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```

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 21.Jul.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

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

Laboratory: ANTECH
Date of Analysis: 22.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	8.1		*10 ³ /UL
RED BLOOD CELL COUNT	3.0		*10 ⁶ /UL
HEMOGLOBIN	12.5		GM/DL
HEMATOCRIT	< 32		%
MCV	<< 107		fL
MCH	41.7		uug
MCHC	>> 39.1		gm/dL
SEGMENTED NEUTROPHILS	33	(2.673)	% (*10 ³ /UL)
LYMPHOCYTES	34	(2.754)	% (*10 ³ /UL)
MONOCYTES	32	(2.592)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.081)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	227		*10 ³ /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	81		\UL
ABSOLUTE LYMPHOCYTES	2754		/UL
ABSOLUTE MONOCYTES	2592		/UL
ABSOLUTE SEGS	2673		/UL
FIBRINOGEN	200		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	41.6		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	39		%
MEAN CORPUSCULAR VOLUME	107		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

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Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                           Age: 27Y Est.
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Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 21.Jul.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 22.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	97	MG/DL
BLOOD UREA NITROGEN	7	MG/DL
CREATININE	1.9	MG/DL
BUN/creatinine ratio	3.68	
CALCIUM	< 10.1	MG/DL
PHOSPHORUS	< 4.0	MG/DL
calcium/phosphorus ratio	2.53	
SODIUM	131	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.5	
CHLORIDE	89	MEQ/L
CHOLESTEROL	71	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.5	GM/DL
ALBUMIN (COLORIMETRY)	< 3.1	GM/DL
GLOBULIN (COLORIMETRY)	4.4	GM/DL
albumin/globulin ratio	0.705	
ASPARTATE AMINOTRANSFERASE	17	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	< 64	IU/L
LACTATE DEHYDROGENASE	< 325	IU/L
CREATINE PHOSPHOKINASE	>> 1080	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
BUN/CREATININE RATIO	4	MG/DL
GAMMA GLUTAMYLTRANSFERASE	8	IU/L
SODIUM/POTASSIUM RATIO	28	RATIO

Comments >>

Mild elevation of CPK compatible with trauma incurred. Decreased BUN,
Alk Phos may be related to hay quality. WKS

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Common Name: African elephant                           Female
Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
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Collection Information >>                               Date of Collection: 25.Jul.2005
Health Status: Normal                                  Time of Collection:
Fasting Time: < 8 hours                               Collected by:
Activity: Active                                       Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

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Hematology >>
Analysis Information >>                               Laboratory: ANTECH
Anticoagulant: EDTA                                   Date of Analysis: 26.Jul.2005
Storage: Refrigerated (<48 hours)                   Time of Analysis:
Sample Quality: hemolysis                             Analysis by:
                                                         Automated analysis.

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Tests and Results >>
WHITE BLOOD CELL COUNT < 7.0 *10^3/UL
RED BLOOD CELL COUNT 3.2 *10^6/UL
HEMOGLOBIN 13.6 GM/DL
HEMATOCRIT 40 %
MCV 125 fL
MCH 42.5 uug
MCHC 34.0 gm/dL
SEGMENTED NEUTROPHILS 35 (2.450) % (*10^3/UL)
LYMPHOCYTES 42 (2.940) % (*10^3/UL)
MONOCYTES 21 (1.470) % (*10^3/UL)
EOSINOPHILS 1 (0.070) % (*10^3/UL)
BASOPHILS 0 % (*10^3/UL)
ESTIMATED PLATELET COUNT ADEQ
PLATELET COUNT 218 *10^3/UL
ABSOLUTE BASOPHILS 0 /UL
ABSOLUTE EOSINOPHILS 70 \UL
ABSOLUTE LYMPHOCYTES 2940 /UL
ABSOLUTE MONOCYTES 1470 /UL
ABSOLUTE SEGS 2450 /UL
MEAN CORPUSCULAR HEMOGLOBIN 42.0 UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION 34 %
MEAN CORPUSCULAR VOLUME 125 U(3)

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Comments >>
RBC Morph: Normal

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Clinical Pathology Records - Specimen Report
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Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 25.Jul.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: ANTECH
Date of Analysis: 26.Jul.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

	GLUCOSE	90	MG/DL
	BLOOD UREA NITROGEN	7	MG/DL
	CREATININE	1.4	MG/DL
	BUN/creatinine ratio	5.00	
	CALCIUM	10.8	MG/DL
	PHOSPHORUS	4.9	MG/DL
	calcium/phosphorus ratio	2.20	
	SODIUM	128	MEQ/L
	POTASSIUM	4.4	MEQ/L
	sodium/potassium ratio	29.1	
	CHLORIDE	88	MEQ/L
	CHOLESTEROL	60	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.3	GM/DL
	ALBUMIN (COLORIMETRY)	< 3.1	GM/DL
	GLOBULIN (COLORIMETRY)	4.2	GM/DL
	albumin/globulin ratio	0.738	
	ASPARTATE AMINOTRANSFERASE	< 13	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	< 64	IU/L
	LACTATE DEHYDROGENASE	< 381	IU/L
	CREATINE PHOSPHOKINASE	> 534	IU/L
	ALBUMIN GLOBULIN RATIO	0.7	GM/DL
	BUN/CREATININE RATIO	5	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	8	IU/L
	SODIUM/POTASSIUM RATIO	29	RATIO

Comments >>

Essentially normal. WKS

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Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
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Parasitology Examination:

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

Sample id.: 2005-0261
 Date collected: 27.Jul.2005

Collected from:
 From an individual specimen.

Enclosure: EBC

Examination Data >>
 Storage: refrigerated
 Consistency: formed
 Gross appearance: Typical

Date examined: 27.Jul.2005
 by: SO

Tests & Results >>
 DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
 FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Note:

28.Jul.2005

Routine exam. Gait and confirmation WNL. LF foot has mild interdigital abrasions. Pads WNL, urogenital tract WNL. 2 holes in the pinna AD. Mild lenticular sclerosis OU. Focal iridial pigmentation (8 o'clock) OS. Cultures collected AU Pads WNL, vulva WNL. Pupillary light reflex

	OD	OS
Rest	5mm	8mm
Time from rest to max	11sec	12secs
Max constriction	2.5-3mm	3mm
Time Max to rest	73sec	35sec (SKC)

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
 Common Name: African elephant
 Name: LOIS

Accession #: 1670
 Female
 Birth: 17.Sep.1978 (Estimated)
 Age: 27Y Est.

Clinical Note:

2.Aug.2005

- #5= Enterococcus spp (1)
- #6= Moraxella spp (2)
- #7= Pseudomonas mendocina (2)

Organism ID-	s=susceptible		r=resistant		i=intermediate	
	#1	#2	#3	#4	#5	#6
Amikacin:		s	s	s	s	s
Amoxi/Clav:		r	s	s	i	s
Ampicillin:		r	i	r	r	s
Cefazolin:		r	r	r	r	s
Cefotaxime:						
Cefoxitin:						
Cefpodoxime:						
Ceftiofur:		r	s	r	i	s
Cephalexin:						
Cephalothin:						
Chloramphenicol:	s	s	s	s	s	s
Ciprofloxacin:						
Clindamycin:						
Doxycycline:						
Enrofloxacin:						
Erythromycin:	s	s	i	r	s	s
Gentamicin:		r	s	s	s	s
Imipenem:		r	s	s	s	s
Marbofloxacin:						
Neomycin:						
Novobiocin:						
Orbifloxacin/Orbax:						
Oxacil 2% NaCl:	r	s	r	r	s	s
Oxytetracycline:						
Penicillin:		r	i	r	r	s
Piperacillin:						
Rifampin:		s	s	i	r	s
Sarafloxacin:						
Spectinomycin:						
Streptomycin:						
Sulfadimethox:						
Sulfathiazole:						
Tetracycline:	s	s	s	s	s	s
Ticar/Clav Acid:	r	s	s	i	s	s
Ticarcillin:	r	s	s	i	s	s
Trimeth/Sulfa:	s	s	s	s	r	s
Tylosin:						

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                           Female
Name: LOIS                                             Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 6.Sep.2005
Health Status: Abnormal                               Time of Collection:
Fasting Time: < 8 hours                               Collected by: KPR
Activity: Active                                       Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Hematology >>
Analysis Information >>                               Laboratory: ANTECH
Anticoagulant: EDTA                                   Date of Analysis: 7.Sep.2005
Storage: Refrigerated (<48 hours)                   Time of Analysis:
Sample Quality: No quality problems.                 Analysis by:
                                                         Automated analysis.

```

```

Tests and Results >>
WHITE BLOOD CELL COUNT          12.9          *10^3/UL
RED BLOOD CELL COUNT            3.5          *10^6/UL
HEMOGLOBIN                      14.8          GM/DL
HEMATOCRIT                      42            %
MCV                              120           fL
MCH                              42.3          uug
MCHC                             35.2          gm/dL
SEGMENTED NEUTROPHILS          25           (3.225)      % (*10^3/UL)
LYMPHOCYTES                     55           (7.095)      % (*10^3/UL)
MONOCYTES                       20           (2.580)      % (*10^3/UL)
EOSINOPHILS                    0            % (*10^3/UL)
BASOPHILS                      0            % (*10^3/UL)
ESTIMATED PLATELET COUNT        ADEQ
PLATELET COUNT                  213          *10^3/UL
ABSOLUTE BASOPHILS              0            /UL
ABSOLUTE EOSINOPHILS            0            \UL
ABSOLUTE LYMPHOCYTES            7095         /UL
ABSOLUTE MONOCYTES              2580         /UL
ABSOLUTE SEGS                   3225         /UL
FIBRINOGEN                      300          MG/DL
MEAN CORPUSCULAR HEMOGLOBIN     42.9         UUG
MEAN CORPUSCULAR HEMOGLOBIN     35            %
CONCENTRATION
MEAN CORPUSCULAR VOLUME         120          U(3)

```

```

Comments >>
RBC Morph: Normal

```

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 6.Sep.2005
Health Status: Abnormal                                Time of Collection:
Fasting Time: < 8 hours                               Collected by: KPR
Activity: Active                                       Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Chemistry >>
Analysis Information >>                               Laboratory: ANTECH
Chemistry Sample: Serum                               Date of Analysis: 7.Sep.2005
Storage: Refrigerated (<48 hours)                   Time of Analysis:
Sample Quality: No quality problems.                  Analysis by:
                                                         Automated analysis.

```

Tests and Results >>

GLUCOSE	83	MG/DL
BLOOD UREA NITROGEN	8	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	6.15	
CALCIUM	10.5	MG/DL
PHOSPHORUS	4.8	MG/DL
calcium/phosphorus ratio	2.19	
SODIUM	130	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	27.7	
CHLORIDE	87	MEQ/L
CHOLESTEROL	65	MG/DL
TOTAL PROTEIN (COLORIMETRY) >>	9.0	GM/DL
ALBUMIN (COLORIMETRY)	3.4	GM/DL
GLOBULIN (COLORIMETRY) >>	5.6	GM/DL
albumin/globulin ratio	0.607	
ASPARTATE AMINOTRANSFERASE <	8	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	109	IU/L
LACTATE DEHYDROGENASE <	288	IU/L
CREATINE PHOSPHOKINASE	113	IU/L
ALBUMIN GLOBULIN RATIO	0.6	GM/DL
BUN/CREATININE RATIO	6	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	28	RATIO

Comments >>

Mild high normal WBC with potential lymphocytosis. Hyperglobulinemia in conjunction with clinical signs of WNL- to perform SPE- PCR pending. Mild increase in fibrinogen compatible with inflammatory

=====
Scientific Name: *LOXODONTA AFRICANA (no subsp)* Accession #: 1670
Common Name: African elephant Female
Name: LOIS Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.
=====

Clinical Note: 7.Sep.2005
Keepers reported a quiver in the trunk and concentrated urine. They
are not sure if she is drinking. (SJV)

Clinical Note: 7.Sep.2005
Keepers report OS is still swollen. Also report behaviour is more
normal. (WKS)

Clinical Note: 9.Sep.2005
Fecal to MU this am for salmonella culture. (WKS)

```

=====
Scientific Name: LOXODONTIA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Clinical Note:                                           13.Sep.2005
UMC Results      Accession #:05-18262

```

Bacteriology
Date rcv'd: 9/7/05
Date finalized: 9/13/05

Aerobic Culture
Sample: Swab/culturette
Specimen ID: Right eye swab-conjunctiva

Organism ID:
Aeromonas hydrophila
Acinetobacter calcoaceticus lwoffii

Comments: The growth of the isolates was heavy on direct culture.

Anaerobic Culture
Specimen ID: Right eye swab-conjunctiva
Organism ID:
No significant growth

Antimicrobial Agent
Specimen ID: Conjunctival swab- right eye
Organism ID: #1= Aeromonas hydrophila
#2= Acinetobacter calcoaceticus
#3=

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:	s	s	
Amoxi/Clav:			
Ampicillin:			
Bacitracin:		r	r
Cefazolin:			
Cefotaxime:			
Cefoxitin:			
Cefpodoxime:			
Ceftiofur:			
Cephalexin:			
Cephalothin:			
Chloramphenicol:	s	i	
Ciprofloxacin:			
Clindamycin:			

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

13.Sep.2005

Doxycycline:
 Enrofloxacin:
 Erythromycin: s r
 Gentamicin: s s
 Imipenem:
 Marbofloxacin:
 Neomycin: s s
 Novobiocin:
 Orbifloxacin/Orbax:
 Oxacil 2% NaCl:
 Oxytetracycline: s r
 Penicillin:
 Piperacillin:
 Polymixin B: s r
 Rifampin:
 Sarafloxacin:
 Spectinomycin:
 Streptomycin:
 Sulfadimethox:
 Sulfathiazole:
 Tetracycline:
 Ticar/Clav Acid:
 Ticarcillin: s r
 Tobramycin: s s
 Trimeth/Sulfa:
 Tylosin:

Small Animal Suscept

Specimen ID: Conjunctival swab- right eye
 Organism ID: #1= *Aeromonas hydrophila*
 #2= *Acinetobacter calcoaceticus* lwoffii
 #3=

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:	s	s	
Amoxi/Clav:	s	r	
Ampicillin:	s	r	
Bacitracin:			
Cefazolin:	r	r	
Cefotaxime:			
Cefoxitin:	i	r	
Cefpodoxime:	r	r	
Ceftiofur:	s	s	

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

13.Sep.2005

Cephalexin:		
Cephalothin:	r	r
Chloramphenicol:	s	i
Ciprofloxacin:		
Clindamycin:	r	r
Doxycycline:		
Enrofloxacin:	s	s
Erythromycin:	i	r
Gentamicin:		s s
Imipenem:	s	s
Marbofloxacin:	s	s
Neomycin:		
Novobiocin:		
Orbifloxacin/Orbax:	s	s
Oxacil 2% NaCl:	r	r
Oxytetracycline:		
Penicillin:	r	r
Piperacillin:		
Polymixin B:		
Rifampin:	s	i
Sarafloxacin:		
Spectinomycin:		
Streptomycin:		
Sulfadimethox:		
Sulfathiazole:		
Tetracycline:	s	i
Ticar/Clav Acid:	s	i
Ticarcillin:	s	r
Tobramycin:		
Trimeth/Sulfa:	s	s
Tylosin:		

PCR Results

Specimen: eye swab

Results: Positive (TLH)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 13.Sep.2005
Health Status: Normal                                   Time of Collection:
Fasting Time: < 8 hours                                Collected by: KPR
Activity: Active                                        Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Hematology >>
Analysis Information >>                               Laboratory: ANTECH
Anticoagulant:                                         Date of Analysis: 14.Sep.2005
Storage: Refrigerated (<48 hours)                    Time of Analysis:
Sample Quality: No quality problems.                   Analysis by:
                                                         Automated analysis.

```

```

Tests and Results >>
WHITE BLOOD CELL COUNT          9.4          *10^3/UL
RED BLOOD CELL COUNT           2.8          *10^6/UL
HEMOGLOBIN <                   11.9          GM/DL
HEMATOCRIT <                   34           %
MCV                             121          fL
MCH                             42.5         uug
MCHC                            35.0         gm/dL
SEGMENTED NEUTROPHILS         28          (2.632)    % (*10^3/UL)
LYMPHOCYTES                    68          (6.392)    % (*10^3/UL)
MONOCYTES                       1          (0.094)    % (*10^3/UL)
EOSINOPHILS                    1          (0.094)    % (*10^3/UL)
BASOPHILS                      0
ESTIMATED PLATELET COUNT       2
PLATELET COUNT                 335          *10^3/UL
ABSOLUTE BASOPHILS             0            /UL
ABSOLUTE EOSINOPHILS           94           \UL
ABSOLUTE LYMPHOCYTES           6392         /UL
ABSOLUTE MONOCYTES              94           /UL
ABSOLUTE SEGS                   2632         /UL
FIBRINOGEN                      300          MG/DL
MEAN CORPUSCULAR HEMOGLOBIN    42.3         UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION 35           %
MEAN CORPUSCULAR VOLUME        121          U(3)

```

```

Comments >>
RBC Morph: Normal

```

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 13.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

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

Laboratory: ANTECH
Date of Analysis: 14.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	<	68	MG/DL
BLOOD UREA NITROGEN		8	MG/DL
CREATININE		1.4	MG/DL
BUN/creatinine ratio		5.71	
CALCIUM	<	9.8	MG/DL
PHOSPHORUS		4.5	MG/DL
calcium/phosphorus ratio		2.18	
SODIUM		133	MEQ/L
POTASSIUM		4.6	MEQ/L
sodium/potassium ratio		28.9	
CHLORIDE		90	MEQ/L
CHOLESTEROL		56	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.5	GM/DL
ALBUMIN (COLORIMETRY)	<	2.9	GM/DL
GLOBULIN (COLORIMETRY)		4.6	GM/DL
albumin/globulin ratio		0.630	
ASPARTATE AMINOTRANSFERASE	<	13	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE		78	IU/L
LACTATE DEHYDROGENASE	<	323	IU/L
CREATINE PHOSPHOKINASE		152	IU/L
ALBUMIN GLOBULIN RATIO		0.6	GM/DL
BUN/CREATININE RATIO		6	MG/DL
GAMMA GLUTAMYLTRANSFERASE		8	IU/L
SODIUM/POTASSIUM RATIO		29	RATIO

Comments >>

Mild increas in fibrinogen and mild increase in NaCl compatible with slight dehydration- rest essentially WNL. WKS

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Clinical Note:                                           14.Sep.2005
UMC Results      Accession #:05-18264 and 05-18258

```

Bacteriology
Date rcv'd: 9/7/05
Date finalized: 9/14/05

Aerobic Culture
Specimen ID: Left eye swab

Organism ID:
Staphylococcus epidermidis
Acinetobacter calcoaceticus lwoffii
Enterococcus spp

Comments: The growth of the isolates was heavy on direct culture.

Anaerobic Culture
Specimen ID: Left eye swab
Organism ID:
No significant growth

Antimicrobial Agent
Specimen ID: Left eye swab
Organism ID: #1= Staphylococcus epidermidis
 #2= Acinetobacter calcoaceticus lwoffii
 #3= Enterococcus spp
 s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:	s	s	
Amoxi/Clav:			
Ampicillin:			
Bacitracin:		r	r
Cefazolin:			
Cefotaxime:			
Cefoxitin:			
Cefpodoxime:			
Ceftiofur:			
Cephalexin:			
Cephalothin:			
Chloramphenicol:	s	s	s
Ciprofloxacin:	s	s	s
Clindamycin:			

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

14.Sep.2005

Doxycycline:
 Enrofloxacin:
 Erythromycin: s s s
 Gentamicin: s s s
 Imipenem:
 Marbofloxacin:
 Neomycin: s s s
 Novobiocin:
 Orbifloxacin/Orbax:
 Oxacil 2% NaCl:
 Oxytetracycline: s s s
 Penicillin:
 Piperacillin:
 Polymixin B: r s s
 Rifampin:
 Sarafloxacin:
 Spectinomycin:
 Streptomycin:
 Sulfadimethox:
 Sulfathiazole:
 Tetracycline:
 Ticar/Clav Acid:
 Ticarcillin: s s s
 Tobramycin: s s s
 Trimeth/Sulfa:
 Tylosin:

Small Animal Suscept

Specimen ID: Left eye swab
 Organism ID: #1= Staphylococcus epidermidis (missing from report)
 #2= Acinetobacter calcoaceticus lwoffii
 #3= Enterococcus spp

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:		s	s
Amoxi/Clav:		s	s
Ampicillin:		s	s
Bacitracin:			
Cefazolin:		s	s
Cefotaxime:			
Cefoxitin:		s	s
Cefpodoxime:	s		i

Scientific Name: *LOXODONTA AFRICANA (no subsp)*
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

14.Sep.2005

Ceftiofur:	S	S
Cephalexin:		
Cephalothin:	S	S
Chloramphenicol:	S	S
Ciprofloxacin:		
Clindamycin:	S	S
Doxycycline:		
Enrofloxacin:	S	S
Erythromycin:	S	S
Gentamicin:	S	S
Imipenem:	S	S
Marbofloxacin:	S	i
Neomycin:		
Novobiocin:		
Orbifloxacin/Orbax:	S	i
Oxacil 2% NaCl:	r	r
Oxytetracycline:		
Penicillin:	S	S
Piperacillin:		
Polymixin B:		
Rifampin:	S	S
Sarafloxacin:		
Spectinomycin:		
Streptomycin:		
Sulfadimethox:		
Sulfathiazole:		
Tetracycline:	S	S
Ticar/Clav Acid:	S	S
Ticarcillin:	S	S
Tobramycin:		
Trimeth/Sulfa:	S	S
Tylosin:		

WNL. WKS

UMC Results Accession #:05-18258

Bacteriology
Date rcv'd: 9/7/05
Date finalized: 9/14/05

Aerobic Culture

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Clinical Note:                                           14.Sep.2005
Sample: Swab/culturette
Specimen ID: Discharge swab OS

```

```

Organism ID:
Staphylococcus epidermidis
Staphylococcus epidermidis
Corynebacterium spp

```

Comments: Two different colony types of S. epidermidis were recovered. Growth of the S. epidermidis and Corynebacterium was heavy on direct culture.

```

Anaerobic Culture
Specimen ID: Discharge swab OS
Organism ID:
No significant growth

```

```

Antimicrobial Agent
Specimen ID: Discharge swab OS
Organism ID: #1= Staphylococcus epidermidis
              #2= Staphylococcus epidermidis
              #3= Corynebacterium spp
              s=susceptible      r=resistant      i=intermediate
Organism ID-      #1      #2      #3
Amikacin:         s      r      s
Amoxi/Clav:
Ampicillin:
Bacitracin:         s      r      r
Cefazolin:
Cefotaxime:
Cefoxitin:
Cefpodoxime:
Ceftiofur:
Cephalexin:
Cephalothin:
Chloramphenicol:   s      s      s
Ciprofloxacin:     s      s      s
Clindamycin:
Doxycycline:
Enrofloxacin:
Erythromycin:     s      s      s
Gentamicin:       s      r      s

```

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

14.Sep.2005

Imipenem:
 Marbofloxacin:
 Neomycin: s r s
 Novobiocin:
 Orbifloxacin/Orbax:
 Oxacil 2% NaCl:
 Oxytetracycline: s r s
 Penicillin:
 Piperacillin:
 Polymixin B: s r r
 Rifampin:
 Sarafloxacin:
 Spectinomycin:
 Streptomycin:
 Sulfadimethox:
 Sulfathiazole:
 Tetracycline:
 Ticar/Clav Acid:
 Ticarcillin: s r s
 Tobramycin: s r s
 Trimeth/Sulfa:
 Tylosin:

Small Animal Suscept

Specimen ID: Discharge swab OS

Organism ID: #1= Staphylococcus epidermidis

Note resistance of the S. epidermidis to oxacillin.

This indicates the presence of a potent beta lactamase enzyme that will inactivate beta lactam drugs including those with inhibitors eventhough the MIC values may be low.

#2= Corynebacterium spp

#3= Staphylococcus epidermidis

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:	r	s	s
Amoxi/Clav:	r	s	s
Ampicillin:	r	s	r
Bacitracin:			
Cefazolin:	r	s	s
Cefotaxime:			
Cefoxitin:	r	s	s
Cefpodoxime:	r	s	i
Ceftiofur:	r	s	s

=====
Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.
=====

Clinical Note:

14.Sep.2005

Cephalexin:			
Cephalothin:	r	s	s
Chloramphenicol:	s	s	s
Ciprofloxacin:			
Clindamycin:	r	r	s
Doxycycline:			
Enrofloxacin:	r	s	i
Erythromycin:	r	s	s
Gentamicin:	r	s	s
Imipenem:	r	s	s
Marbofloxacin:	i	s	s
Neomycin:			
Novobiocin:			
Orbifloxacin/Orbax:	r	s	s
Oxacil 2% NaCl:	r	s	s
Oxytetracycline:			
Penicillin:	r	s	r
Piperacillin:			
Polymixin B:			
Rifampin:	s	s	s
Sarafloxacin:			
Spectinomycin:			
Streptomycin:			
Sulfadimethox:			
Sulfathiazole:			
Tetracycline:	r	s	s
Ticar/Clav Acid:	r	s	s
Ticarcillin:	r	s	r
Tobramycin:			
Trimeth/Sulfa:	s	s	s
Tylosin:			

Likely normal flora. WKS (TLH)

=====
Scientific Name: *LOXODONTA AFRICANA* (no subsp)

Accession #: 1670

Common Name: African elephant

Female

Name: LOIS

Birth: 17.Sep.1978 (Estimated)

Age: 27Y Est.

=====
Clinical Note:

14.Sep.2005

Results of conjunctival swabs reveal mostly normal flora, or organisms
not really considered that pathogenic. Results of PCR WNV +- informed
curator. (WKS)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

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=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

Date of Collection: 14.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ANTECH
Date of Analysis: 15.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

TOTAL PROTEIN (COLORIMETRY)	>>	9.4	GM/DL
ALBUMIN (COLORIMETRY)	>>	4.68	GM/DL
GLOBULIN (COLORIMETRY)	>	4.72	GM/DL
albumin/globulin ratio		0.992	
ALPHA-1 GLOBULIN (ELECTROPHORESIS)	<<	0.27	MG/DL
ALPHA-2 GLOBULIN (ELECTROPHORESIS)	>	1.50	MG/DL
BETA-1 GLOBULIN (ELECTROPHORESIS)		2.13	MG/DL
GAMMA GLOBULIN (ELECTROPHORESIS)	<	0.80	GM/DL

Comments >>

Increase in Beta, comparable to previous results on elephant when WNL.
WKS

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 1670
Common Name: African elephant                      Female
Name: LOIS                                         Birth: 17.Sep.1978 (Estimated)
                                                    Age: 27Y Est.
=====

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```

Clinical Note:                                     15.Sep.2005
UMC Results           Accession #:05-18442

```

```

Bacteriology
Date rcv'd: 9/9/05
Date finalized: 9/15/05

```

```

Aerobic Culture
Sample: Water
Specimen ID: Water from elephant barn

```

```

Organism ID:
  Salmonella spp, Group B

```

```

Comments: The Salmonella serogroup B isolate will be sent to NVSL for
speciation.

```

```

Small Animal Suscept
Specimen ID: Water from elephant barn
Organism ID: #1= Salmonella spp, Group B
              #2=
              #3=

```

	s=susceptible			r=resistant	i=intermediate
Organism ID-	#1	#2	#3		
Amikacin:	s				
Amoxi/Clav:		s			
Ampicillin:		s			
Cefazolin:	s				
Cefotaxime:					
Cefoxitin:		s			
Cefpodoxime:	s				
Ceftiofur:		s			
Cephalexin:					
Cephalothin:	s				
Chloramphenicol:	s				
Ciprofloxacin:					
Clindamycin:		r			
Doxycycline:					
Enrofloxacin:	s				
Erythromycin:		r			
Gentamicin:			s		
Imipenem:	s				
Marbofloxacin:	s				

=====
Scientific Name: *LOXODONTIA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.
=====

Clinical Note:

15.Sep.2005

Neomycin:
Novobiocin:
Orbifloxacin/Orbax: s
Oxacil 2% NaCl: r
Oxytetracycline:
Penicillin: r
Piperacillin:
Rifampin: r
Sarafloxacin:
Spectinomycin:
Streptomycin:
Sulfadimethox:
Sulfathiazole:
Tetracycline: s
Ticar/Clav Acid: s
Ticarcillin: s
Trimeth/Sulfa: s
Tylosin:

To evaluate other fecal results, speciates and samples. Two elephants on treatment. WKS (TLH)

Clinical Note:

15.Sep.2005

Doing well, though staff have noted that her stool never quite fully formed, though they had been in the past. (WKS)

=====
Scientific Name: *LOXODONTA AFRICANA (no subsp)*
Common Name: African elephant
Name: LOIS

=====
Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.
=====

Clinical Note:

16.Sep.2005

Ceftiofur s
Chloramphen s
Erythromycci r
Gentamicin s
Imipenem s
Oxacil-NaCl r
Penicillin r
Rifampin r
Tetracyclin s
Ticar/ClavA s
Ticarcillin s
Trimeth/Sul s

Expected result and same one as Penney elephant. WKS

Clinical Note:

16.Sep.2005

Cultured all stalls, refrigerator, prep table, wheelbarrow, and drains for salmonella. Elephants in outside stall so could not culture "big yard". (WKS)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 1670
Common Name: African elephant                      Female
Name: LOIS                                         Birth: 17.Sep.1978 (Estimated)
                                                    Age: 27Y Est.
=====

```

Collection Information >>

```

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Date of Collection: 21.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

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

```

```

Laboratory: ANTECH
Date of Analysis: 22.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.0		*10 ³ /UL
RED BLOOD CELL COUNT	3.2		*10 ⁶ /UL
HEMOGLOBIN	13.5		GM/DL
HEMATOCRIT	39		%
MCV	122		fL
MCH	42.2		uug
MCHC	34.6		gm/dL
SEGMENTED NEUTROPHILS	35	(2.800)	% (*10 ³ /UL)
LYMPHOCYTES	63	(5.040)	% (*10 ³ /UL)
MONOCYTES	1	(0.080)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.080)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	287		*10 ³ /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	80		\UL
ABSOLUTE LYMPHOCYTES	5040		/UL
ABSOLUTE MONOCYTES	80		/UL
ABSOLUTE SEGS	2800		/UL
FIBRINOGEN	100		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	42.3		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	35		%
MEAN CORPUSCULAR VOLUME	122		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

```

Collection Information >>                               Date of Collection: 21.Sep.2005
Health Status: Normal                                   Time of Collection:
Fasting Time: < 8 hours                                 Collected by: KPR
Activity: Active                                         Sample Collection Site: EAR VEIN
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Chemistry >>
Analysis Information >>                                Laboratory: ANTECH
Chemistry Sample: Serum                                 Date of Analysis: 22.Sep.2005
Storage: Refrigerated (<48 hours)                    Time of Analysis:
Sample Quality: deteriorated                           Analysis by:
                                                         Automated analysis.

```

Tests and Results >>

GLUCOSE	70	MG/DL
BLOOD UREA NITROGEN	9	MG/DL
CREATININE	1.2	MG/DL
BUN/creatinine ratio	7.50	
CALCIUM	10.4	MG/DL
PHOSPHORUS	4.4	MG/DL
calcium/phosphorus ratio	2.36	
SODIUM	132	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.7	
CHLORIDE	89	MEQ/L
CHOLESTEROL	54	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.2	GM/DL
ALBUMIN (COLORIMETRY)	< 2.9	GM/DL
GLOBULIN (COLORIMETRY)	4.3	GM/DL
albumin/globulin ratio	0.674	
ASPARTATE AMINOTRANSFERASE	< 13	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE	72	IU/L
LACTATE DEHYDROGENASE	< 320	IU/L
CREATINE PHOSPHOKINASE	202	IU/L
ALBUMIN GLOBULIN RATIO	0.7	GM/DL
BUN/CREATININE RATIO	8	MG/DL
GAMMA GLUTAMYLTRANSFERASE	8	IU/L
SODIUM/POTASSIUM RATIO	29	RATIO

Comments >>

Slight decrease in albumin may reflect diet. Decreased glucose more likely related to prolonged contact with RBCs. Globulins low normal.
WKS


```
=====
Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 1670
Common Name: African elephant                      Female
Name: LOIS                                         Birth: 17.Sep.1978 (Estimated)
                                                    Age: 27Y Est.
=====
```

Clinical Note:

27.Sep.2005

UMC Results Accession #:05-19512

Date rcv'd: 9/23/05

Date reported: 9/27/05

WNV PCR (Right eye): Positive

Expected result. WKS (TLH)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                           Age: 27Y Est.
=====

```

Collection Information >>

```

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Date of Collection: 27.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

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

```

```

Laboratory: ANTECH
Date of Analysis: 27.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	11.2		*10 ³ /UL
RED BLOOD CELL COUNT	3.0		*10 ⁶ /UL
HEMOGLOBIN	12.9		GM/DL
HEMATOCRIT	37		%
MCV	123		fL
MCH	43.0		uug
MCHC	34.9		gm/dL
SEGMENTED NEUTROPHILS	34	(3.808)	% (*10 ³ /UL)
LYMPHOCYTES	60	(6.720)	% (*10 ³ /UL)
MONOCYTES	5	(0.560)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.112)	% (*10 ³ /UL)
BASOPHILS	0		% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	261		*10 ³ /UL
ABSOLUTE BASOPHILS	0		/UL
ABSOLUTE EOSINOPHILS	112		\UL
ABSOLUTE LYMPHOCYTES	6720		/UL
ABSOLUTE MONOCYTES	560		/UL
ABSOLUTE SEGS	3808		/UL
FIBRINOGEN	100		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	42.9		UUG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	35		%
MEAN CORPUSCULAR VOLUME	123		U(3)

Comments >>

RBC Morph: Normal

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                           Age: 27Y Est.
=====

```

Collection Information >>

```

Health Status: Normal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Date of Collection: 27.Sep.2005
Time of Collection:
Collected by: KPR
Sample Collection Site: EAR VEIN

```

Chemistry >>

Analysis Information >>

```

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

```

```

Laboratory: ANTECH
Date of Analysis: 27.Sep.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	75	MG/DL
	BLOOD UREA NITROGEN	8	MG/DL
	CREATININE	1.4	MG/DL
	BUN/creatinine ratio	5.71	
	CALCIUM	10.3	MG/DL
	PHOSPHORUS	4.2	MG/DL
	calcium/phosphorus ratio	2.45	
	SODIUM	131	MEQ/L
	POTASSIUM	5.0	MEQ/L
	sodium/potassium ratio	26.2	
	CHLORIDE	89	MEQ/L
	CHOLESTEROL	73	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	8.2	GM/DL
	ALBUMIN (COLORIMETRY) <	3.0	GM/DL
	GLOBULIN (COLORIMETRY) >>	5.2	GM/DL
	albumin/globulin ratio	0.577	
	ASPARTATE AMINOTRANSFERASE <	13	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	75	IU/L
	LACTATE DEHYDROGENASE <	319	IU/L
	CREATINE PHOSPHOKINASE	151	IU/L
	ALBUMIN GLOBULIN RATIO	0.6	GM/DL
	BUN/CREATININE RATIO	6	MG/DL
	GAMMA GLUTAMYLTRANSFERASE <	2	IU/L
	SODIUM/POTASSIUM RATIO	26	RATIO

Comments >>

Hyperglobulinemia- ordered SPE. WKS

Scientific Name: *LOXODONTA AFRICANA (no subsp)*
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

28.Sep.2005

Date rcv'd: 9/16/05
Date finalized: 9/28/05

Aerobic Culture
Specimen ID: Fecal

Organism ID:
Salmonella spp, Group B

Comments: The Salmonella serogroup B isolate will be sent to NVSL for speciation.

Antimicrob Suscept/Equine

Specimen ID: Fecal
Organism ID: #1= Salmonella spp, Group B
#2=
#3=

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3
Amikacin:	s		
Amoxi/Clav:	s		
Ampicillin:	s		
Cefazolin:	s		
Cefotaxime:			
Cefoxitin:			
Cefpodoxime:			
Ceftiofur:	s		
Cephalexin:			
Cephalothin:			
Chloramphenicol:	s		
Ciprofloxacin:			
Clindamycin:			
Doxycycline:			
Enrofloxacin:			
Erythromycin:	r		
Gentamicin:	s		
Imipenem:	s		
Marbofloxacin:			
Neomycin:			
Novobiocin:			
Orbifloxacin/Orbax:			
Oxacil 2% NaCl:	r		

=====
Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

=====
Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.
=====

Clinical Note:

28.Sep.2005

Oxytetracycline:
Penicillin: r
Piperacillin:
Rifampin: r
Sarafloxacin:
Spectinomycin:
Streptomycin:
Sulfadimethox:
Sulfathiazole:
Tetracycline: s
Ticar/Clav Acid: s
Ticarcillin: s
Trimeth/Sulfa: s
Tylosin:

Similar sensitivity pattern as 116, indicates likely same pathogen.
WKS (TLH)

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Clinical Note: 29.Sep.2005

UMC Results Accession #:0519513 and 0519515

Bacteriology
Date rcv'd: 9/23/05
Date finalized: 9/29/05

Aerobic Culture
Sample: Swab/culturette
Specimen ID: Left ear swab

Organism ID:
Delftia acidovorans
Pseudomonas spp
Moraxella spp
Aeromonas caviae
Actinomyces spp

The growth of the isolates was heavy on direct culture.

Anaerobic Culture
Specimen ID: Left ear swab
Organism ID:
No significant growth

Antimicrob Suscept/Equine
Specimen ID: Left ear swab
Organism ID: #1= Delftia acidovorans
#2= Delftia acidovorans
Two different isolates of D. acidovorans were recovered
and the susceptibility patterns do vary.

#3= Pseudomonas spp
#4= Aeromonas caviae
#5= Moraxella osloensis
#6= Actinomyces spp

s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3	#4	#5	#6
Amikacin:	s	s	s	s	s	s
Amoxi/Clav:	s	s	r	i	s	s
Ampicillin:	s	s	r	r	s	s
Cefazolin:	s	r	r	r	s	s
Cefotaxime:						
Cefoxitin:						
Cefpodoxime:						

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

29.Sep.2005

Ceftiofur:	s	s	i	r	s	s
Cephalexin:						
Cephalothin:						
Chloramphenicol:	s	s	s	s	s	s
Ciprofloxacin:						
Clindamycin:						
Doxycycline:						
Enrofloxacin:						
Erythromycin:	i	s	r	r	s	s
Gentamicin:	s	s	s	s	s	s
Imipenem:	s	s	s	s	s	s
Marbofloxacin:						
Neomycin:						
Novobiocin:						
Orbifloxacin/Orbax:						
Oxacil 2% NaCl:	r	r	s	r	r	s
Oxytetracycline:						
Penicillin:	s	r	r	r	s	s
Piperacillin:						
Rifampin:	r	i	r	r	s	s
Sarafloxacin:						
Spectinomycin:						
Streptomycin:						
Sulfadimethox:						
Sulfathiazole:						
Tetracycline:	s	s	s	s	r	s
Ticar/Clav Acid:	s	s	s	i	s	s
Ticarcillin:	s	r	s	s	s	s
Trimeth/Sulfa:	s	r	s	s	s	r
Tylosin:						

WNV PCR: Negative

WNL. WKS

UMC Results Accession #:0519515

Bacteriology

Date rcv'd: 9/23/05

Date finalized: 9/29/05

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Clinical Note: 29.Sep.2005

Aerobic Culture
Sample: Swab/culturette
Specimen ID: Right ear swab

Organism ID:
Delftia acidovorans
Aeromonas caviae
Moraxella osloensis
Streptococcus spp, gamma hemolytic
Staphylococcus epidermidis

Comments: The growth of the isolates was heavy on direct culture with the exception of S. epidermidis which only produced a few colonies.

Anaerobic Culture
Specimen ID: Right ear swab
Organism ID:
No significant growth

Antimicrob Suscept/Equine
Specimen ID: Right ear swab
Organism ID: #1= Delftia acidovorans
#2= Aeromonas caviae
#3= Moraxella osloensis
#4= Streptococcus spp, gamma hemolytic
s=susceptible r=resistant i=intermediate

Organism ID-	#1	#2	#3	#4
Amikacin:	s	s	s	s
Amoxi/Clav:	s	s	s	s
Ampicillin:	s	i	s	r
Cefazolin:	i	i	r	s
Cefotaxime:				
Cefoxitin:				
Cefpodoxime:				
Ceftiofur:	s	i	s	s
Cephalexin:				
Cephalothin:				
Chloramphenicol:	s	s	s	s
Ciprofloxacin:				
Clindamycin:				
Doxycycline:				

Scientific Name: *LOXODONTA AFRICANA* (no subsp)
Common Name: African elephant
Name: LOIS

Accession #: 1670
Female
Birth: 17.Sep.1978 (Estimated)
Age: 27Y Est.

Clinical Note:

29.Sep.2005

Enrofloxacin:					
Erythromycin:	i	r	i	i	
Gentamicin:	s	s	s	s	s
Imipenem:	s	s	s	s	
Marbofloxacin:					
Neomycin:					
Novobiocin:					
Orbifloxacin/Orbax:					
Oxacil 2% NaCl:	r	r	r	s	
Oxytetracycline:					
Penicillin:	i	r	r	r	
Piperacillin:					
Rifampin:	r	r	s	i	
Sarafloxacin:					
Spectinomycin:					
Streptomycin:					
Sulfadimethox:					
Sulfathiazole:					
Tetracycline:	s	s	s	s	
Ticar/Clav Acid:	s	s	s	s	
Ticarcillin:	i	s	i	s	
Trimeth/Sulfa:	s	s	s	s	
Tylosin:					

WNV PCR: Negative

Defining normal flora (culture results) WNL(PCR results). WKS (TLH)

Clinical Note:

30.Sep.2005

Swabbed OU for WNV PCR at MU. Requested serum protein electrophoresis due to bloodwork results on 9/27/05. Performed Salmonella surveillance: swabbed elephant barn kitchen, stalls, drinkers, and big yard. Also took unk fecal sample from big yard and swabbed whellbarrows and truck. (SJV)

Clinical Pathology Records - Specimen Report
KANSAS CITY ZOOLOGICAL PARK

```

=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 1670
Common Name: African elephant                             Female
Name: LOIS                                               Birth: 17.Sep.1978 (Estimated)
                                                         Age: 27Y Est.
=====

```

Collection Information >>

```

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Active
Weight: 2948 Kg on 28.May.1997
Manual restraint used.

```

```

Date of Collection: 30.Sep.2005
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

```

Chemistry >>

Analysis Information >>

```

Chemistry Sample: Serum
Storage: Refrigerated (>48 hours)
Sample Quality: No quality problems.

```

```

Laboratory: ANTECH
Date of Analysis: 3.Oct.2005
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

TOTAL PROTEIN (COLORIMETRY)		8.2	GM/DL
ALBUMIN (COLORIMETRY)		3.92	GM/DL
GLOBULIN (COLORIMETRY)		4.28	GM/DL
albumin/globulin ratio		0.916	
ALPHA-1 GLOBULIN (ELECTROPHORESIS)	<<	0.18	MG/DL
ALPHA-2 GLOBULIN (ELECTROPHORESIS)	<	0.62	MG/DL
BETA-1 GLOBULIN (ELECTROPHORESIS)		0.84	MG/DL
GAMMA GLOBULIN (ELECTROPHORESIS)	>>	2.64	GM/DL

Comments >>

```

Suspect increase in Gamma fraction is related to re-exposure/infection
with WNV. WKS

```

