

Dallas Zoo
Jenny Medical Records
Part IV 16 pages

=====
Scientific Name: LOXODONTA AFRICANA (no subsp) Accession #: 864858
Common Name: AFRICAN ELEPHANT Female
Name: JENNY Birth: 16.Dec.1976 (Estimated)
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Parasitology Examination:

Submission Data >>
Type: Fecal sample
Purpose: VET REQUEST

Sample id.: 2003-1071
Date collected: 18.Sep.2003
Time collected: 11:00
Collected by: MC

Collected from:
From an individual specimen.

Enclosure: ZNMLM7B

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

Date examined: 18.Sep.2003
at: 15:00
by: CJP

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Comments >>
PC-1+

Clinical Note:

19.Sep.2003

Problem: behavioral modification - ACEPROMAZINE
Observation:
"Jenny" was BAR and cooperative for blood collection today. She
received 200 mg BID of Acepromazine today. (GPL)

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Common Name: AFRICAN ELEPHANT                           Female
Name: JENNY                                             Birth: 16.Dec.1976 (Estimated)
                                                         Age: 27Y Est.
=====

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Collection Information >>
 Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Manual restraint used.

Date of Collection: 22.Sep.2003
 Time of Collection: 13:34.0
 Collected by:

Hematology >>

Analysis Information >>

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

Laboratory: IDEXX
 Date of Analysis: 22.Sep.2003
 Time of Analysis: 13:34
 Analysis by:
 Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	8.4		*10 ³ /UL
SEGMENTED NEUTROPHILS	36	(3.024)	% (*10 ³ /UL)
LYMPHOCYTES	59	(4.956)	% (*10 ³ /UL)
MONOCYTES	3	(0.252)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.168)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	566		

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Name: JENNY                                         Birth: 16.Dec.1976 (Estimated)
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Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

Date of Collection: 22.Sep.2003
Time of Collection: 13:34.0
Collected by:

Chemistry >>

Analysis Information >>
Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: IDEXX
Date of Analysis: 22.Sep.2003
Time of Analysis: 13:34
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	>	112	MG/DL
BLOOD UREA NITROGEN		7	MG/DL
CREATININE		1.5	MG/DL
BUN/creatinine ratio		4.67	
CALCIUM		10.7	MG/DL
PHOSPHORUS		4.7	MG/DL
calcium/phosphorus ratio		2.28	
SODIUM		130	MEQ/L
POTASSIUM		5.0	MEQ/L
sodium/potassium ratio		26.0	
CHLORIDE		90	MEQ/L
MAGNESIUM		2.6	MG/DL
BICARBONATE		25	MMOL/L
CHOLESTEROL		59	MG/DL
TRIGLYCERIDE		64	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.7	GM/DL
ALBUMIN (COLORIMETRY)	<	2.8	GM/DL
GLOBULIN (COLORIMETRY)	>	4.9	GM/DL
albumin/globulin ratio		0.571	
ASPARTATE AMINOTRANSFERASE	<	7	IU/L
TOTAL BILIRUBIN	<	0.0	MG/DL
DIRECT BILIRUBIN		0.0	MG/DL
ALKALINE PHOSPHATASE		87	IU/L
CREATINE PHOSPHOKINASE		144	IU/L
GAMMA GLUTAMYLTRANSFERASE		12	IU/L
OSMOLALITY		278.7	MOSMOL/KG
SORBITOL DEHYDROGENASE		7.8	SFU

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Name: JENNY                                         Birth: 16.Dec.1976 (Estimated)
                                                    Age: 27Y Est.
=====

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Collection Information >>
 Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Manual restraint used.

Date of Collection: 1.Oct.2003
 Time of Collection: 15:12.0
 Collected by:

Hematology >>

Analysis Information >>

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

Laboratory: IDEXX
 Date of Analysis: 1.Oct.2003
 Time of Analysis: 15:12
 Analysis by:
 Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	8.7		*10 ³ /UL
SEGMENTED NEUTROPHILS	39	(3.393)	% (*10 ³ /UL)
LYMPHOCYTES	59	(5.133)	% (*10 ³ /UL)
MONOCYTES	1	(0.087)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.087)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	579		

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Name: JENNY                                         Birth: 16.Dec.1976 (Estimated)
                                                    Age: 27Y Est.
=====
  
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Collection Information >>
 Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Calm
 Manual restraint used.

Date of Collection: 1.Oct.2003
 Time of Collection: 15:12.0
 Collected by:

Chemistry >>

Analysis Information >>
 Chemistry Sample: Serum
 Storage: Fresh
 Sample Quality: No quality problems.

Laboratory: IDEXX
 Date of Analysis: 1.Oct.2003
 Time of Analysis: 15:12
 Analysis by:
 Automated analysis.

Tests and Results >>

	GLUCOSE	97	MG/DL
	BLOOD UREA NITROGEN	8	MG/DL
	CREATININE	1.7	MG/DL
	BUN/creatinine ratio	4.71	
	CALCIUM	11.0	MG/DL
	PHOSPHORUS	5.3	MG/DL
	calcium/phosphorus ratio	2.08	
	SODIUM	130	MEQ/L
	POTASSIUM	4.8	MEQ/L
	sodium/potassium ratio	27.1	
	CHLORIDE	88	MEQ/L
	MAGNESIUM	2.4	MG/DL
	BICARBONATE	< 20	MMOL/L
	CHOLESTEROL	63	MG/DL
	TRIGLYCERIDE	73	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.7	GM/DL
	ALBUMIN (COLORIMETRY)	< 2.9	GM/DL
	GLOBULIN (COLORIMETRY)	> 4.8	GM/DL
	albumin/globulin ratio	0.604	
	ASPARTATE AMINOTRANSFERASE	< 8	IU/L
	TOTAL BILIRUBIN	0.2	MG/DL
	DIRECT BILIRUBIN	0.2	MG/DL
	ALKALINE PHOSPHATASE	98	IU/L
	CREATINE PHOSPHOKINASE	250	IU/L
	GAMMA GLUTAMYLTRANSFERASE	15	IU/L
	OSMOLALITY	277.8	MOSMOL/KG
	SORBITOL DEHYDROGENASE	0.6	SFU

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Name: JENNY                                             Birth: 16.Dec.1976 (Estimated)
                                                         Age: 27Y Est.
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Collection Information >>
Health Status: Normal

Date of Collection: 3.Oct.2003
Time of Collection: 9:00.0
Collected by:

Sample Collection Site: Mid-stream catch

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

Laboratory: DALLAS ZOO LAB
Date of Analysis: 3.Oct.2003
Time of Analysis: 14:30
Analysis by: SDW
Manual analysis.

Tests and Results >>

SPECIFIC GRAVITY (REFRACTOMETER)	1.035	
URINE - GLUCOSE	NEG	MG/DL
URINE APPEARANCE	SANDY	
URINE COLOR	YELLOW	
URINE, BILIRUBIN	NEG	
URINE, BLOOD	NEG	ERY/UL
URINE, KETONE	NEG	MG/DL
URINE, LEUKOCYTES	NEG	LEUCO/UL
URINE, NITRITE	POS	
URINE, PH	8.0	
URINE, PROTEIN	TRACE	MG/DL
URINE, UROBILINOGEN	0.2	MG/DL

Comments >>

Examined unstained and stained with Sedi-Stain

Calcium carbonate crystals - few

Debris - TNTC
Bacteria - few

Clinical Notes - Individual Specimen Report
DALLAS ZOO

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.....2004....

3.Aug.2004

Problem: annual examination ; TRUNK WASH ; vaccination - VEWT

Procedure:

Positive reinforcement session

Annual physical exam

Rectal swab: AAF culture + Salmonella/Campy

Vaccination: VEWT

Trunk wash #1: NVSL MB culture

Observation:

Very cooperative, good session. No abnormalities noted on external, ophthalmic, otic, oral, dental, or foot exams, or on thoracic or abdominal auscultation. All feet in very good condition.

Rx:

VEWT vaccine: 2.0 ml IM (TNS)

5.Aug.2004

Problem: TRUNK WASH

Procedure:

Positive reinforcement session

Trunk wash #2: NVSL MB culture (TNS)

7.Aug.2004

Problem: TRUNK WASH

Procedure:

Positive reinforcement session

Trunk wash #3: NVSL MB culture (TNS)

9.Aug.2004

Problem: abnormal behavior (Confirmed); BLOOD COLLECTION ; physical examination

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Common Name: AFRICAN ELEPHANT                           Female
Name: JENNY                                             Birth: 16.Dec.1976 (Estimated)
                                                         Age: 28Y Est.
=====

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Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

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Date of Collection: 9.Aug.2004
Time of Collection: 12:23.0
Collected by:

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Hematology >>

Analysis Information >>

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

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Laboratory: ANTECH-SUPER
Date of Analysis: 9.Aug.2004
Time of Analysis: 12:23
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.7		*10 ³ /UL
RED BLOOD CELL COUNT	2.8		*10 ⁶ /UL
HEMOGLOBIN	12.5		GM/DL
HEMATOCRIT	< 31		%
MCV	< 111		fL
MCH	44.6		uug
MCHC	>> 40.3		gm/dL
SEGMENTED NEUTROPHILS	30	(2.610)	% (*10 ³ /UL)
LYMPHOCYTES	28	(2.436)	% (*10 ³ /UL)
MONOCYTES	> 41	(3.567)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.087)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	295		*10 ³ /UL
MEAN CORPUSCULAR HEMOGLOBIN	44.7		PG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	40		%
MEAN CORPUSCULAR VOLUME	31		fL

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Morphology Results >>
ANISOCYTOSIS +2

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Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Name: JENNY                                         Birth: 16.Dec.1976 (Estimated)
                                                    Age: 28Y Est.
=====

```

```

Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

```

```

Date of Collection: 9.Aug.2004
Time of Collection: 12:23.0
Collected by:

```

Chemistry >>

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Analysis Information >>
Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

```

```

Laboratory: ANTECH-SUPER
Date of Analysis: 9.Aug.2004
Time of Analysis: 12:23
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	91	MG/DL
	BLOOD UREA NITROGEN	11	MG/DL
	CREATININE	1.1	MG/DL
	BUN/creatinine ratio	10.0	
	CALCIUM	10.7	MG/DL
	PHOSPHORUS	5.0	MG/DL
	calcium/phosphorus ratio	2.14	
	SODIUM	126	MEQ/L
	POTASSIUM	5.0	MEQ/L
	sodium/potassium ratio	25.2	
	CHLORIDE	86	MEQ/L
	MAGNESIUM	1.9	MG/DL
	CHOLESTEROL	63	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	8.2	GM/DL
	ALBUMIN (COLORIMETRY)	3.2	GM/DL
	GLOBULIN (COLORIMETRY)	> 5.0	GM/DL
	albumin/globulin ratio	0.640	
	ASPARTATE AMINOTRANSFERASE	< 11	IU/L
	ALANINE AMINOTRANSFERASE	5	IU/L
	TOTAL BILIRUBIN	0.2	MG/DL
	ALKALINE PHOSPHATASE	85	IU/L
	CREATINE PHOSPHOKINASE	161	IU/L
	ALBUMIN GLOBULIN RATIO	0.6	
	BUN/CREATININE RATIO	10	
	GAMMA GLUTAMYLTRANSFERASE	< 3	IU/L
	SODIUM/POTASSIUM RATIO	25	

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

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

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

=====
 Scientific name: LOXODONTA AFRICANA
 Common Name: AFRICAN ELEPHANT
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		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)