

Report Start Date
1/1/1900

Specimen Report for NORFOLK / 000029

Report End Date
12/27/2006



30 May 2004	Fecal check/worming	2 piles of very sandy feces observed
9 Jun 2004	Foot management	routine: trimmed both front feet, opened up cracks and pitted areas
13 Jun 2004	Fecal check/worming	2 piles of sandy feces found from overnight
14 Jun 2004	Foot management	routine: trimmed left front foot pad
15 Jun 2004	Foot management	routine: trimmed both rear feet
16 Jun 2004	Diet	appetite: refused about 1/2 scoop
22 Jun 2004	Foot management	routine: footwork on both rear pads
23 Jun 2004	Fecal check/worming	2 piles of sandy feces found in enclosure
25 Jun 2004	Conditioning/Training	training session in pool went very well. both elephants went all the way in the pool and given ice block as reinforcement
5 Jul 2004	Animal management note	FOUND 1 PILE OF SANDY FECES FROM OVERNIGHT. This comment was added to the following specimens: 000028, 000029.
6 Jul 2004	Animal management note	FOUND 2 PILES OF SANDY FECES FROM OVERNIGHT. This comment was added to the following specimens: 000028, 000029.
7 Jul 2004	Animal management note	found 1 pile of sandy feces in AM
8 Jul 2004	Medical note	DREW BLOOD FROM L/EAR ON LISA AND R/EAR ON MONICA. FOUND 1 PILE SANDY FECES WITH DIME SIZED ROCKS EMBEDDED. This comment was added to the following specimens: 000028, 000029.
14 Jul 2004	Medical note	sandy feces
16 Jul 2004	Animal management note	BOTH ELEPHANTS IN POOL TODAY ALMOST TO THE BRIDGE. This comment was added to the following specimens: 000028, 000029.
17 Jul 2004	Animal management note	BOTH ELEPHANTS IN POOL TODAY, GIVEN WATERMELON. LISA WAS BEING VERY SUBMISSIVE TOWARD MONICA. This comment was added to the following specimens: 000028, 000029.
18 Jul 2004	Medical note	FOUND 3 PILES SANDY FECES FROM OVERNIGHT. This comment was added to the following specimens: 000028, 000029.
21 Jul 2004	Medical note	TOOK 8cc BLOOD FROM R/EAR OF EACH SPECIMEN. This comment was added to the following specimens: 000028, 000029.
23 Jul 2004	Animal management note	OBSERVEDE BOTH SPECIMENS IN POOL TODAY. FIRST TIME THEY HAVE ENTERED POOL OF THEIR OWN ACCORD. This comment was added to the following specimens: 000028, 000029.
14 Feb 2005	Change Log	Taxonomic name changed from <i>Loxodonta africana</i> to <i>Loxodonta africana africana</i> . Records indicate both animals wild caught in Namibia, Africa in the year 1975. This comment was added to the following specimens: 000028, 000029.
9 Sep 2005	Medical note	ALL GIVEN RABIES AND EWT VACCINES. This comment was added to the following specimens: 000028, 000029, 205003.
19 Sep 2005	Medical note	PILE OF SANDY FECES WITH ROCKS.

Monica - 000029
5/1/05 to present
Medical + Specimen
Reports

Report Start Date
1/1/1900

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13 Dec 2005	Medical note	TX TAIL WITH BETADINE.
19 Dec 2005	Medical note	OBSERVED LAYING DOW 2 TIMES IN AM, 5 MINUTES AND 15 MINUTES. FECES NORMAL, ATE ALL DIET BUT SLOWER THAN NORMAL.
20 Dec 2005	Medical note	SOAKED TAIL IN BETADINE ~15 MINUTES.
6 Jan 2006	Medical note	TAIL LOOKS VERY GOOD WITH NO EVIDENCE OF ABSCESSATION. THE BETADINE SOAKS HAVE BEEN AN EFFECTIVE TREATMENT. CONTINUE WITH BETADINE SOAKS FOR ANOTHER WEEK AND THEN STOP TREATMENT.
10 May 2006	Medical note	COLLECTED 8CC BLOOD FOR BANKING
11 May 2006	Foot management	TRIMMED BACK FEET
15 May 2006	Foot management	TRIMMED FRONT FEET
24 May 2006	Group Note	STARTED EXERCISE PROGRAM
26 May 2006	Medical note	EXAMINED TAIL. SHE HAS THE START OF AN ABSCESS ON THE LEFT SIDE OF HER TAIL. START BETADINE PACKS SID UFN
4 Jun 2006	Medical note	SEVERAL PILES OF SANDY FECES WITH ROCKS FOUND FROM OVERNIGHT AND DURING THE DAY.
6 Jun 2006	Foot management	TRIMMED R FEET
7 Jun 2006	Medical note	Drew 8cc blood for banking
10 Jun 2006	Behavior Note	A LITTLE MOODY THIS AM WHILE PULLING FECES OUT. FACED OFF WITH EARS OUT. THEN LISTENED AND BACKED UP. DRAINING HEAVY FROM TEMPORAL FOR LAST WEEK.
20 Jun 2006	Foot management	TRIMMED R FEET
21 Jun 2006	Medical note	Drew 8cc blood for banking
30 Jun 2006	Medical note	Discontinue soaking tail. Appears better.
1 Jul 2006	Medical note	DID NOT EAT MOST OF PM GRAIN AND WAS LAYING DOWN IN HOLDING YARD.
4 Jul 2006	Medical note	Blood taken, 8cc, for banking
10 Jul 2006	Behavior Note	000029 SHE WAS VERY FRIGHTENED TODAY. WAS DISPLACING 000028 AND 205003 THIS MORNING, AND SPUN ON 000028 IN THE SHIFT AND BUTTED HER AND WHEN IN THE STALL WITH 000028 SHE LOOKED AT HER AND PUT HER HEAD UP AND 000028 STARTED TO STRETCH SO KEEPER WENT AND CALLED HER OVER AND SEPERATED THEN TO START BATHS. COMMENT ADDED TO 000028,000029,205003
12 Jul 2006	Note	Sanded tusks
29 Jul 2006	Foot management	Trimmed R Feet
30 Aug 2006	Medical note	Took 8cc blood for banking
14 Sep 2006	Medical note	8cc blood taken for banking
15 Sep 2006	Note	Found clear discharge in Stall
		This comment was added to the following specimens: 000028, 000029, 205003.
18 Sep 2006	Foot management	Trimmed RF foot.
28 Sep 2006	Medical note	8cc blood taken for banking
11 Oct 2006	Medical note	Blood taken for banking. 8cc
29 Oct 2006	Medical note	8cc blood taken for banking.
31 Oct 2006	Note	Sand added to holding yard
3 Nov 2006	Foot management	Trimmed RL foot and FR foot
8 Nov 2006	Medical note	8cc blood taken for banking.
29 Nov 2006	Medical note	Blood taken, 8cc, for banking
30 Nov 2006	Foot management	Trimmed R feet
1 Dec 2006	Behavior Note	Very hightened and more sensitive than normal. Being overly submissive to Elephant Manager.
5 Dec 2006	Medical note	8cc blood taken for banking
12 Dec 2006	Weight/Length	9862 pounds

		ELEPHANT			
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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/ISIS/MedARKS/5.53

Medical History Report - Summary for Individual Specimen - page 1 -
 VIRGINIA ZOOLOGICAL PARK

=====
 LOXODONTA AFRICANA AFRICANA Sex: Female Acc. #: 000029
 South African bush elephant Age: 33Y 4M 30D Birth: 28.Jul.1973
 Name: MONICA
 =====

.....2005....

- 4.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
 NO OVA/PARASITES SEEN
- 15.Mar Clinical note recorded. (LDR)
- 18.Mar Clinical note recorded. (LDR)
- 22.Mar Clinical note recorded. (LDR)
- 25.Mar Clinical note recorded. (LDR)

- 19.Apr Clinical note recorded. (LDR)
- 26.Apr Clinical note recorded. (LDR)

- 13.May Clinical note recorded. (LDR)
- 24.May Clinical note recorded. (LDR)

ELEPHANT

16.Jun Clinical note recorded. (LDR)
 24.Jun Clinical note recorded. (LDR)
 12.Jul Clinical note recorded. (LDR)
 19.Jul Clinical note recorded. (LDR)
 3.Aug Clinical note recorded. (LDR)
 8.Sep Clinical note recorded. (LDR)
 9.Sep Purpose/Problem: vaccine
 Vaccination: IMRAB 2ml IM once
 ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2ml IM once
 RABIES VACCINE (KILLED - 3 YEAR) 2ml IM once
 EWT-WNV COMBO 2ml IM once
 Clinical note recorded. (JS)
 12.Oct Clinical note recorded. (LDR)
 13.Oct Clinical note recorded. (LDR)

.....2006...

6.Jan Clinical note recorded. (LDR)
 24.Jan Clinical note recorded. (LDR)
 26.Jan Clinical note recorded. (LDR)
 30.Mar Blood sample: (Heparin) Hematology/Chemistry/Serology results.
 HCT: 31.0%; BUN:3 MG/DL;
 15.Jun Clinical note recorded. (LDR)
 20.Jun Clinical note recorded. (LDR)

12.Dec weight: 4475 Kg (9863 Lb)

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=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 33Y 4M 30D  Birth: 28.Jul.1973
Name: MONICA
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Parasitology Examination:
  Submission Data >>
    Type: Fecal sample
    Purpose: ROUTINE EXAMINATION
    Sample id.: 2005-0076
    Date collected: 4.Mar.2005
    Collected by: JW
  Collected from:
    From an individual specimen.
    Enclosure: ELEPHANT
  Examination Data >>
    Storage: room temperature
    Consistency: Not specified
    Gross appearance: Typical
    Date examined: 4.Mar.2005
    by: LDR
  Tests & Results >>
    FLOATATION
    NO OVA/PARASITES SEEN

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ELEPHANT

Clinical Note: 15.Mar.2005
1st TB trunk wash observed by vet performed using 60 mls sterile saline poured into the trunk and then allowing saline to pour out into a sterile container. Fecal culture submitted; results pending. Has an abscess on her tail. Abscess is ~2 1/2" x 1/2" in diameter. Vet hosed off the area and picked off the scabs. It appears to involve the hair follicles. Continue to clean the scabs off and apply Nolvasan cream SID to the abscess until further notice. (LDR)

Clinical Note: 18.Mar.2005
Performed 2nd TB trunk wash. Recheck tail abscess: abscess is healing, but two other areas of abscessation were found. Vet scrubbed the area with Betadine solution 1:10, removed the additional scabs, and applied Nolvasan cream to the area. Continue to remove scabs, scrub with betadine, and apply Nolvasan cream until further notice. (LDR)

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 33Y 4M 30D	Birth: 28.Jul.1973
Name: MONICA		

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Clinical Note: 22.Mar.2005
Performed 3rd TB trunk wash. Vet observed. Rechecked abscess: Abscess continues to show improvement. Area has reduced in size with less scabs, and now has new gray skin underneath. Vet cleaned, scrubbed, and applied Nolvasan cream to tail. Continue treatment until Friday 3/25/05. (LDR)

Clinical Note: 25.Mar.2005
Rechecked tail abscess: looks like it has healed. Discontinue treatment. Fecal culture results - no salmonella, shigella, campylobacter, excessive staph or yeast found on culture. (LDR)

Clinical Note: 19.Apr.2005
Monica had another tail abscess rupture on the end of her tail. Keepers have been treating it by scrubbing it with Betadine and applying Nolvasan cream. Vet approved this treatment, in addition to using Bag Balm on the tail to soften the skin. (LDR)

Clinical Note: 26.Apr.2005

ELEPHANT

Checked progress of tail abscess. It appears to have some hair folliculitis. Continue to use Bag Balm to soften the skin, and treat the individual areas of abscessation with Nolvasan cream. (LDR)

Clinical Note: 13.May.2005
Rechecked tail abscess: Tail looks like it is healing, though there is one area that looks like it is going to lift up from the abscess. Continue to apply Nolvasan cream and bag balm. (LDR)

Clinical Note: 24.May.2005
Rechecked tail abscess: It appears to be healing well. vet pulled off a layer of dead skin, revealing healthy skin underneath. The upper layer of skin continues to be pushed off by healthy skin growing underneath it. Continue with current treatment of Nolvasan cream and Bag Balm.
Fecal culture submitted; results pending. (LDR)

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 33Y 4M 30D	Birth: 28.Jul.1973
Name: MONICA		

Clinical Note: 16.Jun.2005
Abscess on neck: Keepers reported that Monica has a wound/abscess on her neck behind her left ear. Vet examined; it is ~2 1/2" long by ~1/2" wide with a flap of vital skin ~1/2" in diameter still attached. He would like to leave the skin flap attached until it dies completely, as it will be less painful for her when it is removed. The flap of skin is keeping the area underneath moist, creating an area for bacteria and pus to accumulate. Apply # 2 ointment (nitrofurazone, scarlet oil, and Preparation H ointment) to the area SID, after her daily bath. (LDR)

Clinical Note: 24.Jun.2005
Recheck wound on back: Vet rechecked wound. It looks good; it is drier, the skin flap is gone, and there is a good bed of granulation tissue. Continue treatment as discussed previously until the wound is healed completely. (LDR)

Clinical Note: 12.Jul.2005
Recheck wound on back: The wound has healed. Discontinue treatment. (LDR)

Clinical Note: 19.Jul.2005
Question about changes to diets/Koppertox treatment: Elephant manager talked with vet about adding beet pulp to the elephant's diet; vet

ELEPHANT

approved diet change. Also discussed using Koppertox foot soaks to treat foot problems in the elephants; vet approved this regimen as well. (LDR)

Clinical Note: 3.Aug.2005
Drew 8 mls blood (LDR)

Clinical Note: 8.Sep.2005
8 mls blood drawn (LDR)

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LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant     Age: 33Y 4M 30D  Birth: 28.Jul.1973
Name: MONICA
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Clinical Note: 9.Sep.2005
 Rx: IMRAB 2 ml IM once for 1 day.
 Rx: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once for 1 day.
 Rx: RABIES VACCINE (KILLED - 3 YEAR) 2 ml IM once for 1 day. (12497B)
 Rx: EWT-WNV COMBO VACCINE 2 ml IM once for 1 day. (JS)

Purpose: vaccine

Prescription Data >> Starting date: 9.Sep.2005
 Drug: IMRAB 2 ml IM once
 Formulation: injectable
 Prescribed by: JS (9.Sep.2005) Filled by: JS (9.Sep.2005)
 Treatment weight: 4991 kg

Comments >>
 given IM in her right semis with a 4" 14 g needle

Purpose: vaccine

Prescription Data >> Starting date: 9.Sep.2005
 Drug: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once
 Formulation: 68.0 mg/ml injectable
 Prescribed by: JS (9.Sep.2005) Filled by: JS (9.Sep.2005)
 Treatment weight: 4991 kg

Comments >>

ELEPHANT

given in right semis IM
ENCEPHALOMYELITIS EWV/TETANUS TOXOI = ENCEPHALOMYELITIS,
EASTERN (KILLED) + ENCEPHALOMYELITIS, WESTERN (KILLED) +
ENCEPHALOMYELITIS, VENEZUELAN + TETANUS TOXOID

Purpose: vaccine

Prescription Data >> Starting date: 9.Sep.2005
Drug: RABIES VACCINE (KILLED - 3 YEAR) 2 ml IM once
Formulation: injectable Bottle/Lot #: 12497B
Prescribed by: JS (9.Sep.2005) Filled by: LDR (9.Sep.2005)
Treatment weight: 4991 kg

Comments >>

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Medical History Report - Individual Specimen
VIRGINIA ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 33Y 4M 30D	Birth: 28.Jul.1973
Name: MONICA		

Prescription Record (continued):
given in right semis

Purpose: vaccine

Prescription Data >> Starting date: 9.Sep.2005
Drug: EWT-WNV COMBO 2 ml IM once
Formulation: injectable
Prescribed by: JS (9.Sep.2005) Filled by: LDR (9.Sep.2005)
Treatment weight: 4991 kg

Comments >>

given in right semis

Clinical Note: 12.Oct.2005
Foot work done on both back feet and left front foot. (LDR)

Clinical Note: 13.Oct.2005
8 mls blood withdrawn from ear. (LDR)

Clinical Note: 6.Jan.2006
Checked abscess on tail: Tail looks very good with no evidence of
abscessation. The betadine soaks have been an effective treatment.
Continue with betadine soaks for another week and then stop
treatment. (LDR)

ELEPHANT

Clinical Note:

Stopped Betadine treatments on tail as it looks healed. (LDR)

24.Jan.2006

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LOXODONTA AFRICANA AFRICANA
South African bush elephant
Name: MONICA

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Sex: Female
Age: 33Y 4M 30D

Acc. #: 000029
Birth: 28.Jul.1973

Clinical Note:

Fecal culture results: No enteric pathogens isolated - this includes
Salmonella, shigella, pleisomonas, edwardsiella, and aeromonas sp. No
campylobacter isolated. (LDR)

26.Jan.2006

ELEPHANT

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Clinical Pathology Records - Specimen Report
VIRGINIA ZOOLOGICAL PARK

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 33Y 4M 30D	Birth: 28.Jul.1973
Name: MONICA		

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Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 4468 Kg on 12.Jan.2006
Manual restraint used.

Date of Collection: 30.Mar.2006
Time of Collection:
Collected by: JT
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>
Anticoagulant: Heparin
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: IN HOUSE
Date of Analysis: 30.Mar.2006
Time of Analysis: 12:55
Analysis by: LDR
Automated analysis.

Tests and Results >>

HEMOGLOBIN	<	10.5	GM/DL
HEMATOCRIT	<	31	%
MCHC		33.9	gm/dL

Chemistry >>

Analysis Information >>
Chemistry Sample: Whole Blood (Heparin)
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: IN HOUSE
Date of Analysis: 30.Mar.2006
Time of Analysis: 12:55
Analysis by: LDR
Automated analysis.

Tests and Results >>

GLUCOSE		78	MG/DL
BLOOD UREA NITROGEN	<<	3	MG/DL
CREATININE		1.6	MG/DL
BUN/creatinine ratio		1.88	
SODIUM		126	MEQ/L
POTASSIUM		4.9	MEQ/L
sodium/potassium ratio		25.7	
CHLORIDE		91	MEQ/L
TOTAL PROTEIN (COLORIMETRY)		7.9	GM/DL
ASPARTATE AMINOTRANSFERASE		<10	IU/L
ALANINE AMINOTRANSFERASE		<10	IU/L
ALKALINE PHOSPHATASE	<	32	IU/L
GAMMA GLUTAMYLTRANSFERASE		<10	IU/L

ELEPHANT

ISIS reference values are for LOXODONTA AFRICANA
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=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 33Y 4M 30D  Birth: 28.Jul.1973
Name: MONICA
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Clinical Note: 15.Jun.2006
TB Trunk Wash Results: No Mycobacteria isolated (three samples
collected over 1 week - 3/24/06, 3/27/06, 3/31/06). (LDR)

Clinical Note: 20.Jun.2006
Recheck Tail: Tail is healing , but still has some discharge.
Continue current treatment. (LDR)

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Clinical Pathology Records Report - ISIS/In-House Reference Values
 VIRGINIA ZOOLOGICAL PARK

Scientific name: LOXODONTA AFRICANA
 Common Name: African elephant

		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)

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Clinical Pathology Records Report - ISIS/In-House Reference Values
 VIRGINIA ZOOLOGICAL PARK

Scientific name: LOXODONTA AFRICANA
 Common Name: African elephant

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

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Medical History Report - Summary for Individual Specimen
 VIRGINIA ZOOLOGICAL PARK