

MEDICAL RECORDS FOR  
TANYA Abilene Zoo

26 pages



Taxonomic name: *Loxodonta africana*  
Common name: AFRICAN ELEPHANT

Family: Elephantidae  
Order: Proboscidea

TANYA

**Current information**

Sex: Female Sire ID:  
Birth type: Wild Born Dam ID:  
Birth Location: MANICALAND Rearing: Unknown  
Birthdate-Age: ~ 1979 - ~25Y Hybrid: Not a hybrid  
Time since last Acq: 23Y,1M,10D as of report end date

<u>Date in</u>	<u>Acquisition - Vendor/local id</u>	<u>Holder</u>	<u>Disposition - Recipient/local id</u>	<u>Date out</u>
24 Nov 1981	Purchase from J SCHULZ / UNK	ABILENE / 356		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
24 Nov 1979	Regional Studbook #	185	AZA	185 "International Studbook Number" from ARKS 2 records
29 Oct 2004	House Name	TANYA		

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
9 Oct 2002	Behavior note	Tanya did not go out well.
11 Oct 2002	Behavior note	She swung at keeper with trunk and showed aggression this a.m.
13 Oct 2002	Medical note	Worked on foot trimming.
18 Oct 2002	Behavior note	Did not want to go outside today. Was aggressive toward keepers as well as to female #1237, who once outside knocked her down. She threw a big fit inside the house, throwing feces and ramming doors.
21 Oct 2002	Animal management note	Worked on preventing her from scooting up and reaching out during a.m. grain delivery. No problems.
22 Oct 2002	Behavior note	Took a swing at keeper in the chute this a.m.
23 Oct 2002	Behavior note	Very uncooperative, nervous. Probable cause arrival of new tigers last night.
24 Oct 2002	Behavior note	Very non responsive to commands again.
26 Oct 2002	Medical note	Pads of feet really looking great.
28 Oct 2002	Behavior note	She took a swing at keeper with her trunk.
9 Nov 2002	Medical note	Being difficult about going out on exhibit. Ignoring her is starting not to work as a deterrent to the behavior.
10 Nov 2002	Behavior note	Did not cooperate in going out. Gave her a long time out. Tanzy (#1237) was very angry. Eventually did go out.
15 Dec 2002	Animal management note	Trimmed feet.
19 Dec 2002	Animal management note	Collected urine sample to determine progesterone level.
23 Dec 2002	Medical note	Received superficial scrape on back from Tanzy's tusk.
20 May 2003	Medical note	Broke off part of left tusk
20 Jun 2003	Behavior note	Visitor dropped umbrella. Tanya got it and ingested some of it before it was able to be removed.
21 Jun 2003	Behavior note	Laying down in AM acting like she had a stomach ache. Keeper was able to get her to get up and she appeared to act fine, but somewhat sluggish. Director instructed to supplement diet with alfalfa hay for the day.
22 Jun 2003	Behavior note	Seems to be doing much better today.
18 Nov 2003	Medical note	Doing very well with foot trimming sessions. Feet now doing so well, will now only require maintenance trimming. Back right foot does have nail damage; have treated by placing cross groove across nail to allow to grow normally. Animal is also allowing keepers to stop in chute; can get to kneel, close chute doors, responds to commands. Working on allowing alcohol treatment to ear (cleaning), then touching medial side of ear with wire to mimic blood draws.
8 Dec 2003	Behavior note	Elephants wouldn't go on exhibit initially due to commotion w/ tigers leaving. RDH
8 Jan 2004	Medical note	Performed mock blood draw session in preparation of blood draw tomorrow. Keepers stopped elephant in ERC, had her kneel; we then cleaned ear with alcohol and used wire to mimic needle stick. Elephant did well-no problems encountered.
9 Jan 2004	Medical note	Performed blood draw for first time this morning. Used 21 gauge butterfly catheter with 12 ml syringe. Got



		blood in catheter, but apparently went through vein and did not get any blood in syringe. Overall session went very well- elephant did not object to stopping in ERC, responded well to commands and did not flinch with needle stick. Other elephant also did not interfere with session.
13 Jan 2004	Medical treatment	Successful blood draw performed today. Blood taken from ear vein on medial side of ear flap. No problems encountered. Elephant responded positively to procedure. Will freeze serum collected. Plan on weekly blood draws for serum progesterone values in anticipation of charting estrus cycle.
19 Jan 2004	Behavior note	Keepers report elephant would not respond to commands today. Keepers believe animal may be coming into season.
20 Jan 2004	Medical treatment	Successful blood draw. Blood taken from medial side of right ear. Keepers to work on stopping elephant in ERC during afternoon let-ins to allow blood draws on left ear.
22 Jan 2004	Animal management note	Keepers stopped elephant in ERC during afternoon let in. Some minor confusion by both elephants, but overall session went well.
28 Jan 2004	Medical note	Blood drawn for progesterone assay (banked in clinic freezer w/ other samples) and CBC w/ Chem profile. Blood sent to TVMDL for results. CBC: WBC-10,100 (N-45,L-19,M-36); RBC-2.85x10e6; Hb-13.0; PCV-36.4; platelet estimate-1164x10e3; RBC morph-Normal; WBC morph-Normal; Hemoparasites-None seen. Chem panel: TSP-8.3; Alb-3.1; Ca-12.4; Phos-3.0; Glu-82; BUN-5.1; Creat-0.9; Tot Bil-0.1; ALP-80; CK-165; AST-10; Globulins-5.2; GGT-11.
4 Feb 2004	Medical note	Blood draw performed for progesterone assay. Serum kept in clinic freezer.
10 Feb 2004	Medical note	Blood draw performed for progesterone assay.
17 Feb 2004	Medical note	Blood draw performed for progesterone
26 Feb 2004	Medical note	Blood draw performed for progesterone assay.
1 Mar 2004	Medical observation	Keepers noticed superficial scrape to dorsal L hip. No treatment needed, keepers will continue to watch.
2 Mar 2004	Medical note	Blood draw from left ear. First time to attempt blood draw from left side. All went well. Tanya was a little nervous with Tanzy being close by, but Tanzy did not try to really interfere. Seemed more curious than aggressive.
2 Mar 2004	Fecal check/worming	Fecal flotation: Negative
3 Mar 2004	Medical procedure	Weekly progesterone blood draw performed.
9 Mar 2004	Medical note	Performed weekly blood draw. All went well; elephant #1237 somewhat aggressive and made #356 a little nervous.
12 Mar 2004	Medical note	Serum sent to TVMDL for vitamin E levels reveals total vitamin E levels of 0.28 ug/ml and vitamin E/Cholesterol Ratio of 0.5. Normal serum vitamin E for adult elephants is reported to be between 0.25 and 1.60 ug/ml. Sub adults reported to have somewhat lower concentrations.
16 Mar 2004	Behavior note	Keepers report public saw elephant ingest plastic bag which had blown onto exhibit. No apparent ill effects. Will continue to monitor.
22 Mar 2004	Medical observation	Keepers report elephant broke off chunk of tusk when slammed into hydraulic door.
23 Mar 2004	Medical procedure	Performed blood draw in afternoon after elephant didn't stop in ERC during morning let out. Blood draw went fine, but elephant became agitated after other elephant (#1237) charged ERC.
26 Mar 2004	Medical observation	Elephant has apparently minor wound to dorsal right hip caused by elephant #1237 becoming agitated and swinging on #356 resulting in skin wound. Keepers to monitor, but no treatment expected.
28 Mar 2004	Medical treatment	Added 8 cups bran to diet after adding new dirt to exhibit in case elephants ingest dirt.
28 Mar 2004	Medical note	Added 8 cups bran to diet due to dirt work/new dirt added to exhibit in case elephants ingested some of dirt.
6 Apr 2004	Medical procedure	Performed weekly blood draw for Progesterone analysis. Blood draw went well, without incident.
28 Apr 2004	Medical treatment	Blood draw performed for progesterone assay.
4 May 2004	Medical treatment	Blood draw performed for weekly progesterone analysis. Blood draw went well, no problems.
11 May 2004	Medical note	Blood draw performed for progesterone assay. Blood draw went well with no complications.
12 May 2004	Foot management	Keepers worked on both rear feet today.
18 May 2004	Medical procedure	Blood draw performed for progesterone assay. Procedure went well-no problems encountered.



2 Jun 2004	Medical procedure	Blood draw performed for progesterone assay.
8 Jun 2004	Medical procedure	Weekly blood draw for progesterone assay.
9 Jun 2004	Animal management note	Performed mock blood draw to help train primary elephant keeper in being able to perform blood draws.
11 Jun 2004	Individual behavior	Keeper reports didn't want to go out today. Maybe in season.
15 Jun 2004	Medical procedure	Blood drawn from right ear for progesterone assay. Blood draw went well-no aggressive from other cow.
15 Jun 2004	Animal management note	Training session between keepers and 0.2 elephants went well. Both responded well to commands keepers introduced basketball to this female for enrichment. At first keepers report tried to eat basketball, then responded well.
17 Jun 2004	Behavior note	Keepers report didn't want to leave barn and go on exhibit today.
18 Jun 2004	Behavior note	Keepers report elephants worked well for training session.
20 Jun 2004	Behavior note	Elephant would not respond to back-up keeper commands
22 Jun 2004	Medical procedure	Blood draw performed for progesterone assay.
22 Jun 2004	Foot management	Foot session went well.
23 Jun 2004	Behavior note	Training session with both elephants today.
26 Jun 2004	Animal management note	Began training session today in conditioning animal to stand on TX DPS scales to determine weight.
29 Jun 2004	Medical procedure	Blood draw performed for progesterone assay. This sample completed 6 months worth of sampling (once weekly x 6 months). All samples sent off for progesterone assay to help determine elephant's heat cycles.
29 Jun 2004	Individual behavior	Keepers began training sessions to get animal to lift foot, then set down on TX DPS vehicle scale in order to eventually obtain weight.
1 Jul 2004	Foot management	Foot session went well today; worked on all 4 feet.
1 Jul 2004	Individual behavior	0.1 elephant brought car tire into barn from exhibit tonight when brought off exhibit. Suspect elephant may be cycling, because she will periodically mount and "ride" tire which keepers have attributed to heat cycle.
4 Jul 2004	Medical treatment	Elephants given 8 cups wheat bran once daily to diet 7/04 through 7/10 to help prevent sand colic.
6 Jul 2004	Medical procedure	Blood draw performed for weekly progesterone assay.
6 Jul 2004	Foot management	Foot session reveals feet have definite signs of standing in excess water for extended periods of time.
14 Jul 2004	Medical treatment	Blood draw performed for weekly progesterone assay. Blood draw went well with no problems, although other female elephant (#1237) was somewhat aggressive.
15 Jul 2004	Weight/Length	Training performed to get elephant to stand on DPS scales in order to determine weight went well. Continue to work on getting elephant to stand correctly on scales to obtain proper weight.
20 Jul 2004	Breeding management note	Received results of progesterone levels from lab-results indicate elephant is cycling normally. Will continue weekly blood draws for progesterone levels and submit samples every 6 months to lab for continued mapping of results.
20 Jul 2004	Collection data	Received progesterone blood values from lab. Animal appears to be cycling normally; will continue weekly blood draws and submit samples to lab every 6 months to continue mapping progesterone levels.
21 Jul 2004	Individual behavior	Keepers report elephant threw "tantrum" today and would not go out initially. Keepers finally gave 15 minute time out; after which animal went out, stopped in ERC for blood draw and did not cause any further problems.
21 Jul 2004	Medical procedure	Blood draw performed for progesterone assay.
22 Jul 2004	Animal management note	Training session w/ DPS scales in effort to obtain weight.
23 Jul 2004	Behavior note	Elephant slow to go onto exhibit during morning let out.
27 Jul 2004	Individual behavior	Elephant didn't want to go out on exhibit this morning. When she finally went on exhibit, wouldn't stop in ERC to allow blood draw.
28 Jul 2004	Medical treatment	Blood draw performed for progesterone assay.
29 Jul 2004	Foot management	Keepers performed foot trim. Reported this elephant has very thin moist pads to rear feet.
31 Jul 2004	Individual behavior	Slow to come out in am.
1 Aug 2004	Medical treatment	8 cups bran added to diet daily for next week as laxative.
3 Aug 2004	Individual behavior	Elephant would not go out on exhibit initially this am; given time out, then when finally went on exhibit wouldn't stop in ERC to allow blood draw. Keepers will try again tomorrow for blood collection.
4 Aug 2004	Medical procedure	Keepers able to stop elephant in ERC this morning and obtain blood sample for progesterone assay.



5 Aug 2004	Individual behavior	Took 45 minutes to get elephant to stop in ERC this am. Used alfalfa, monkey biscuits, and other produce as primary enrichment.
6 Aug 2004	Individual behavior	Elephant still not wanting to go out on exhibit. Gave short time out, then longer time out (45min) before finally going out onto exhibit.
7 Aug 2004	Individual behavior	Elephant went out on exhibit this am, didn't attempt to stop her in ERC. Keepers stayed back and let her go out on own. No interference w/ other elephant (#1237).
9 Aug 2004	Individual behavior	Elephant out onto exhibit in am with little or no hesitation.
10 Aug 2004	Medical procedure	Progesterone assay blood draw performed.
24 Aug 2004	Medical note	Progesterone assay blood draw performed.
29 Aug 2004	Medical note	Broke tip off of left tusk. No cracks, but sharp edge on top.
31 Aug 2004	Medical treatment	Blood draw for progesterone test
7 Sep 2004	Medical note	Blood for progesterone taken today.
21 Sep 2004	Medical note	Blood Draw
22 Sep 2004	Behavior note	Due to problems with ERD, both elephants left out on exhibit overnight. Keepers on hand and observed throughout the night. No problems recorded.
29 Sep 2004	Medical note	Blood Draw.
5 Oct 2004	Medical note	Blood Draw.
28 Oct 2004	Medical procedure	Blood Draw.
28 Oct 2004	Animal management note	Gate on north side of elephant barn was cut open so that it could be used as access for Tonya. She was chained at the front of the stall on her RF ankle while the gate was secured open and locked in ERD to close the gate. She was able to go out on exhibit for the first time since Oct 24 when she got a couple of hours out after passing through Tanzy's stall with Tanzy there. She has been trapped in barn since Friday Oct 22 due to Tanzy refusing to go through ERD. With this gate on the North side she will be allowed to go out on her own daily until Tanzy gets over her fear of the ERD again.
28 Oct 2004	Note	DUE TO TANZY'S RESISTANCE TO GO OUT, THE BAR GATE ON THE NORTH SIDE OF THE BARN WAS CUT OPEN. TANYA WAS CHAINED DURING THE PROCESS ON ONE LEG CHAIN. ONCE THE YARD WAS CLEARED, SHE WAS GIVEN ACCESS TO THE EXHIBIT.
29 Oct 2004	Behavior note	While the ERD was open, Tanya began pushing on it and bent the shaft of the hydraulic cylinder.
31 Oct 2004	Behavior note	Seems to be getting more aggressive with other female Tanzy (1237) Broke off 2 pieces of tusk fighting through the fence.
19 Nov 2004	Behavior note	Became aggitated in yard towards the end of the day.
24 Nov 2004	Medical note	Blood draw.
26 Nov 2004	Medical observation	Had mucus in her eyes.
12 Dec 2004	Medical observation	Lots of mucus in eyes.
14 Dec 2004	Medical observation	Shivering a bit and has mucus in her eyes. Blood draw on right ear.
21 Dec 2004	Medical treatment	Blood Draw.

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
24 Nov 1981	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
24 Nov 1981	Unknown	

LOXODONTA AFRICANA  
AFRICAN ELEPHANT  
SPEC ID 356  
HOUSE NAME



TAXONOMIC CODE (1) 1415001002001001  
TATTOO NO. TAG NO. LOCATION COLOR

INSTITUTION CODE (2) 310544001  
SPECIMEN ID (3) 356  
TRANSACTION DATE (4) 241181

DEATH DATA  
CC33 (5) SEX 0  
CC34 (6) HYB B  
CC35 (7) DAM ID  
CC36 (8) SIRE ID  
CC37 (9) DAM INSTITUTION  
CC38 (10) SIRE INSTITUTION

VITAL STATISTICS DATA  
CC39 (11) TAXONOMIC CODE  
CC40 (12) B  
CC41 (13) LOCATION  
CC42 (14) HI/DEPTH  
CC43 (15) AGE/BIRTH DATE Y002

TRANSACTION DATA  
CC44 (16) VENDOR/RECIPIENT CODE 31053358  
CC45 (17) V/R SPEC ID  
CC46 (18) PRICE \$  
CC47 (19) DELIVERY \$

DEATH DATA  
CC48 (20) CIRCUMSTANCE OF DEATH  
CC49 (21) CARCASS DISPOSITION  
CC50 (22) AUTOPSY  
CC51 (23) CARCASS RECIPIENT

SPECIAL DATA

STUDBOOK SPECIMEN	TATTOO NUMBER/HOUSE NAME	MARINE MAMMAL/MISRATORY BIRD PERMITS	POSTENTRY QUARANTINE	ENDANGERED SPECIES PERMIT	INDIVIDUAL ANIMAL PERMIT	COLOR PHASE	TAG NUMBER	NUMBER	SPECIAL

CC53 NAME

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INSTITUTION: Ashline Zoo  
Date: 7 Dec 81  
Recorded By: Michael Hopkins  
284884

PURCHASE

J.C. SCHULTZ  
CATSKILL, N.Y.

ROUTINE  STAT  ASAP  TODAY

PREDATE: \_\_\_\_\_  
 DATE: 10/7  
 FORM COMPLETED BY: MA

CALL TO NURSES SERVICE  
 INITIAL DATE & TIME  
 REQUEST RECEIVED  
 SPECIMEN COLLECTED  
 RESULT COMPLETED  
10/7/82  
 REPORT CHARTED

TANYA ELEPHANT  
 VET OF  
 DR BLACKWELL

PROCEDURE	RESULT	NORM	PROCEDURE	RESULT	PROCEDURE	RESULT
<input checked="" type="checkbox"/> Routine Urine					<input type="checkbox"/> Pregnancy	NEG POS
<input type="checkbox"/> Color	<u>TURBID</u>	YELLOW	<input type="checkbox"/> Microscopic		<input type="checkbox"/> Wet Mt. Smear	
<input type="checkbox"/> Appearance	CLEAR	CLEAR	<input type="checkbox"/> Epith Cells		<input type="checkbox"/> Glucose Tst. Urines	
<input type="checkbox"/> Sp. Gravity	<u>1.015</u>	1.001-1.020	<input type="checkbox"/> WBC		<input checked="" type="checkbox"/> Comp. Casts	
<input type="checkbox"/> pH	<u>8</u>	5-8	<input type="checkbox"/> RBC			
<input type="checkbox"/> Albumin	<u>NEG</u>	NEGATIVE	<input type="checkbox"/> Cast			
<input type="checkbox"/> Sugar	<u>NEG</u>	NEGATIVE	<input type="checkbox"/> Crystals			
<input type="checkbox"/> Acetone	<u>NEG</u>	NEGATIVE	<input type="checkbox"/> Bacteria/HPF			
<input type="checkbox"/> Occult Blood	<u>NEG</u>	NEGATIVE	<input type="checkbox"/> Mucous			
<input type="checkbox"/> Bile	<u>NEG</u>	NEGATIVE				
<input type="checkbox"/> Urobilinogen	<u>NEG</u>	NEGATIVE				

*Many Amorphous  
 debris - reactions  
 Chemistry as  
 Carbonate buff*

WEST TEXAS MEDICAL CENTER L-4 REVISED 8-77

ROUTINE  STAT  ASAP  TODAY  
 PREDATE: \_\_\_\_\_  
 DATE: 6/17/82  
 FORM COMPLETED BY: \_\_\_\_\_  
 TEST REQ. BY DR. \_\_\_\_\_

CALL TO NURSES SERVICE  
 INITIAL DATE & TIME  
 REQUEST RECEIVED  
 SPECIMEN COLLECTED  
 RESULT COMPLETED  
6/17/82  
 REPORT CHARTED

TANYA (ELEPHANT)  
 READING TOO  
 DR. BLACKWELL

PROCEDURE	RESULT	NORM	PROCEDURE	RESULT	NORM	PROCEDURE	RESULT	NORM
<input checked="" type="checkbox"/> HEMATOLOGY ROUTINE PANEL			<input type="checkbox"/> Differential			<input type="checkbox"/> Platelets	<u>100</u>	150,000-450,000
<input type="checkbox"/> WBC	<u>7.9</u>	5-10T	<input type="checkbox"/> MONO		2-10	<input type="checkbox"/> Retic		0.2-2.0
<input type="checkbox"/> RBC	<u>3.16</u>	M 4.5-6.5 F 3.8-5.0	<input type="checkbox"/> LYMPH	<u>46</u>	20-40	<input type="checkbox"/> Sed. Rate		M 0-9 F 0-15
<input type="checkbox"/> HGB	<u>11.7</u>	M 12.5-18	<input type="checkbox"/> SEG	<u>26</u>	50-75	<input type="checkbox"/> CSR		
<input type="checkbox"/> HCT	<u>36</u>	M 40-54 F 37-47	<input type="checkbox"/> STAB	<u>5</u>	0-3			
<input type="checkbox"/> Indices			<input type="checkbox"/> META		0			
MCV	<u>113</u>	76-96	<input type="checkbox"/> MYEL		0			
MCH	<u>37</u>	27-32	<input type="checkbox"/> EOS	<u>3</u>	1-6	<input checked="" type="checkbox"/> Anisocytosis	<u>SI</u>	Poikilocytosis
MCHC	<u>33</u>	32-36	<input type="checkbox"/> BAS		0-1	<input checked="" type="checkbox"/> Macrocytosis		Hypochromia
						<input type="checkbox"/> Microcytosis		Polychromasia

Comments: Few target cells

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DOCTOR'S COPY

URINALYSIS

HEMATOLOGY

Parasitology Examination Worksheet

Sample #: \_\_\_\_\_

SAMPLE SUBMISSION INFORMATION:

Genus/species: Loxostoma affricanum or Common name: African Stepwren "Tanya"

Accession number(s): \_\_\_\_\_

Enclosure: \_\_\_\_\_

Type of sample:

- Fecal sample
- Rectal swab
- Skin scraping
- Ear swab or wash
- Oral swab or wash
- Nasal swab or wash
- Tracheal wash/sample
- Gastric wash/sample
- Intestinal wash/sample
- Blood sample
- Urine sample
- Tissue or organ
- Whole or partial parasite
- Other \_\_\_\_\_
- Unknown

Date collected: 15/01/02

d d m m y y

Time collected: 8:45

Collected by: JEL

Purpose of examination:

- 1.  Routine or scheduled
- 2.  Quarantine
- 3.  Diagnostic (problem or illness)
- 4.  Follow-up or recheck
- 5.  Shipping or preshipment
- 6.  Quarantine #1
- 7.  Quarantine #2
- 8.  Quarantine #3
- 9.  Post-mortem
- Other \_\_\_\_\_

Gross Appearance

- 1.  Typical
- 2.  Atypical

>>> For Laboratory Use Only <<< ( below this line)

EXAMINATION DATA:

Date examined: 16/01/02

d d m m y y

Time examined: \_\_\_\_\_

Examination by: BPA

Storage condition:

- 1.  Room/ambient temperature
- 2.  Refrigerated
- 3.  Frozen
- 4.  Formalin
- 5.  Alcohol
- 6.  Merthiolate-Iodine-Formalin
- 7.  Polyvinyl alcohol
- 8.  Other \_\_\_\_\_

Consistency of stool:

- 1.  Liquid or watery
- 2.  Soft
- 3.  Formed
- 4.  Hard or dry

Unusual Characteristics:

- 1.  Fresh blood
- 2.  Excessive mucus
- 3.  Melena or tarry stool
- 4.  Foamy - excess gas
- 5.  Adult/larval parasites grossly visible

Description: Normal

TESTS AND RESULTS:

Codes for Test Performed:

- 1) Direct microscopic exam.
- 2) Floatation - Na nitrate
- 3) Formalin concentration
- 4) Baermann sedimentation
- 5) Centrifugation
- 6) Floatation- zinc sulfate
- 7) Floatation- sugar
- 8) Gross examination
- 9) McMasters quantitative

Quantity Codes:

- 1) +
- 2) ++
- 3) +++
- 4) ++++
- 5) Other

TEST

2

RESULTS

Negative

QUANTITY

N/A

Comments: Re - Test 16 April 02

Repeat Submission:  Yes  No

## SAMPLE SUBMISSION INFORMATION:

Genus/species: Loa loa or Common name: African elephantAccession number(s): 350

Enclosure: \_\_\_\_\_

## Type of sample:

- Fecal sample  
 Rectal swab  
 Skin scraping  
 Ear swab or wash  
 Oral swab or wash  
 Nasal swab or wash  
 Tracheal wash/sample  
 Gastric wash/sample  
 Intestinal wash/sample  
 Blood sample  
 Urine sample  
 Tissue or organ  
 Whole or partial parasite  
 Other  
 Unknown

Date collected: 19, 02, 02

d d m m y y

Time collected: 9:05Collected by: SMD

## Purpose of examination:

- 1) Routine or scheduled  
 2) Quarantine  
 3) Diagnostic (problem or illness)  
 4) Follow-up or recheck  
 5) Shipping or preshipment  
 6) Quarantine #1  
 7) Quarantine #2  
 8) Quarantine #3  
 9) Post-mortem  
 Other

## Gross Appearance

- 1) Typical  
 2) Atypical

&gt;&gt;&gt; For Laboratory Use Only &lt;&lt;&lt; (below this line)

## EXAMINATION DATA:

Date examined: 19, 02, 02

d d m m y y

Time examined: 11:20Examination by: TKE & SMD

## Storage condition:

- 1) Room/ambient temperature  
 2) Refrigerated  
 3) Frozen  
 4) Formalin  
 5) Alcohol  
 6) Merthiolate-Iodine-Formalin  
 7) Polyvinyl alcohol  
 8) Other

## Consistency of stool:

- 1) Liquid or watery  
 2) Soft  
 3) Formed  
 4) Hard or dry

## Unusual Characteristics:

- 1) Fresh blood  
 2) Excessive mucus  
 3) Melena or tarry stool  
 4) Foamy - excess gas  
 5) Adult/larval parasites grossly visible

Description: \_\_\_\_\_

## TESTS AND RESULTS:

## Codes for Test Performed:

- 1) Direct microscopic exam.  
 2) Floatation - Na nitrate  
 3) Formalin concentration  
 4) Baermann sedimentation  
 5) Centrifugation  
 6) Floatation - zinc sulfate  
 7) Floatation - sugar  
 8) Gross examination  
 9) McMasters quantitative

## Quantity Codes:

- 1) +  
 2) ++  
 3) +++  
 4) ++++  
 5) Other

## TEST

## RESULTS

## QUANTITY

TEST	RESULTS	QUANTITY
<u>2</u>	<del>no parasites seen</del> <u>no parasites seen</u>	<del>+</del>

Comments: recheck 3 monthsRepeat Submission:  Yes  No

PARASITOLOGY EXAMINATION WORKSHEET

SUBMISSION DATA:

Genus/species: Loxodonta africana

Or

Common name: Elephant  
Tanya

Accession number(s): \_\_\_\_\_

<u>356</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Type of sample:

- A. Fecal sample
- B. Rectal swab
- C. Skin scraping
- D. Ear swab or wash
- E. Oral swab or wash
- F. Nasal swab or wash
- G. Tracheal wash/sample
- H. Gastric wash/sample
- I. Intestinal wash/sample
- J. Blood sample
- K. Urine sample
- L. Tissue or organ
- M. Whole or partial parasite
- N. Not specified
- O. Other \_\_\_\_\_
- P. Unknown
- Q. Feather

Date collected: 07/05/02  
                          d d m m y y

Time collected: \_\_\_\_\_

Collected by: SB/TB

Enclosure: \_\_\_\_\_

Purpose of examination:

- 1. Routine or scheduled
- 2. Quarantine
- 3. Follow-up or recheck
- 4. Shipping or preshipment
- 5. Diagnostic (problem or illness)
- 6. Post-mortem
- 7. Not specified
- 8. Other \_\_\_\_\_

Gross appearance: 1.  Typical  
                          2.  Atypical

EXAMINATION DATA:

Date examined: 07/05/02  
                          d d m m y y

Time examined: 01:15

Examination by: aw

Storage conditions:

- 1. Room/ambient temperature
- 2. Refrigerated
- 3. Frozen
- 4. Formalin
- 5. Alcohol
- 6. Merthiolate-Iodine-Formalin
- 7. Polyvinyl alcohol
- 8. Other \_\_\_\_\_

Consistency of stool:

- 1. Liquid or watery
- 2. Soft
- 3. Formed
- 4. Hard or dry

Unusual Characteristics

- 1. Fresh Blood
- 2. Excessive mucus
- 3. melana or tarry
- 4. Foamy
- 5. visible adult/larval parasites

Description: \_\_\_\_\_

Resubmit sample:  Yes  No

For Laboratory Use only < < < (below this line)

TESTS AND RESULTS:

- Test performed codes:
- 1. Direct microscopic exam.
  - 2. Flotation - Na nitrate
  - 3. Formalin concentration
  - 4. Baermann Sedimentation
  - 5. Centrifugation

- 6. Flotation - Zinc sulfate
- 7. Flotation - sugar
- 8. Gross microscopic exam
- 9. McMaster
- A. Knotts

Quantity codes:

- 1. 1+
- 2. 2+
- 3. 3+
- 4. 4+

TEST PERFORMED

RESULTS

QUANTITY

<u>2</u>	<u>negative</u>	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## SAMPLE SUBMISSION INFORMATION:

"Janya"

Genus/species:

Coxsackia africana

Common name:

African elephant

Accession number(s):

#356

Enclosure: \_\_\_\_\_

## Type of sample:

- Fecal sample  
 Rectal swab  
 Skin scraping  
 Ear swab or wash  
 Oral swab or wash  
 Nasal swab or wash  
 Tracheal wash/sample  
 Gastric wash/sample  
 Intestinal wash/sample  
 Blood sample  
 Urine sample  
 Tissue or organ  
 Whole or partial parasite  
 Other \_\_\_\_\_  
 Unknown

Date collected:

10/08/02

d d m m y y

Time collected:

9:40

Collected by:

IE

## Purpose of examination:

1. Routine or scheduled  
 2. Quarantine  
 3. Diagnostic (problem or illness)  
 4. Follow-up or recheck  
 5. Shipping or preshipment  
 6. Quarantine #1  
 7. Quarantine #2  
 8. Quarantine #3  
 9. Post-mortem  
 Other \_\_\_\_\_

## Gross Appearance

1. Typical  
 2. Atypical

&gt;&gt;&gt; For Laboratory Use Only &lt;&lt;&lt; ( below this line)

## EXAMINATION DATA:

Date examined:

10/08/02

d d m m y y

Time examined:

2:50

Examination by:

IE

## Storage condition:

1. Room/ambient temperature  
 2. Refrigerated  
 3. Frozen  
 4. Formalin  
 5. Alcohol  
 6. Merthiolate-iodine-Formalin  
 7. Polyvinyl alcohol  
 8. Other \_\_\_\_\_

## Consistency of stool:

1. Liquid or watery  
 2. Soft  
 3. Formed  
 4. Hard or dry

## Unusual Characteristics:

1. Fresh blood  
 2. Excessive mucus  
 3. Melena or tarry stool  
 4. Foamy - excess gas  
 5. Adult/larval parasites grossly visible

Description: \_\_\_\_\_

## TESTS AND RESULTS:

## Codes for Test Performed:

- 1) Direct microscopic exam.  
 2) Floatation - Na nitrate  
 3) Formalin concentration  
 4) Baermann sedimentation  
 5) Centrifugation  
 6) Floatation - zinc sulfate  
 7) Floatation - sugar  
 8) Gross examination  
 9) McMaster quantitative

## Quantity Codes:

- 1) +  
 2) ++  
 3) +++  
 4) ++++  
 5) Other

TEST

2

RESULTS

negative

QUANTITY

Comments: \_\_\_\_\_

Repeat Submission: [ ] Yes

[ ] No





Annual Elephant Tuberculosis Surveillance Report Form for 2003

Institution: Abilene Zoological Gardens

Submitter: Stephanie DeGesero- Mammal Supervisor

Address: 2070 Zoo Lane, Abilene, TX 79602

Tel: (325) 676-6087 Fax: (325) 676-6084 email: sdegeseo@abilenetx.com

Asian  African  ISIS # 356 Studbook # 185 Name Tanya

Age: 24 yrs  actual  estimate Sex:  male  female

EXPOSURE STATUS:

Known infected animal

Known exposure to culture positive source within the past 12 months

Known exposure to a culture positive within the past 1-5 years

No known exposure to a culture positive source in the last 5 years

CULTURE RESULTS

Source (trachea; trunk; oropharynx; other): Trunk

Method: (swab; trunk wash; other): Trunk Wash

Test date: week of August 6, 2003 (three consecutive days)

Laboratory: NVSL

Results: (negative; M.tb complex; M.tb; M. bovis; M. avium; other (list): Negative

Send completed form to:

Dr. Wilbur Amand

American Association of Zoo Veterinarians

6 North Pennell Rd

Media PA 19063

T: 610-892-4812; F: 610-891-4813; email: aazv@aol.com

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)  
1-800-877-8339

Accession: 270380

Date Received: 8/20/2003

Establishment No.: TXDEGE1  
STEPHANIE DEGESERO  
2070 ZOO LANE

Referral Number:  
Owner: ABILENE ZOOLOGICAL GARDENS

City: ABILENE

State: TX

ABILENE, TX 79602  
Fax: 9156766084

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
---------	-------	-----------	-----------

828667	036256	8/10/03	TANYA 356
		Tissues	
		TRUNK WASH	

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:  
Submitter  
10/21/2003

Approved By: Jeffrey T. Nelson  
National Veterinary Services Laboratories

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)  
1-800-877-8339

Accession: 270381

Date Received: 8/20/2003

Establishment No.: TXDEGE1  
STEPHANIE DEGESERO  
2070 ZOO LANE

Referral Number:  
Owner: ABILENE ZOOLOGICAL GARDENS  
City: ABILENE

State: TX

ABILENE, TX 79602  
Fax: 9156766084

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
828668	035657	8/11/03	#356 TANYA

Tissues  
TRUNK WASH

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:  
Submitter  
10/21/2003

Approved By: Jeffrey T. Nelson  
National Veterinary Services Laboratories

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)  
1-800-877-8339

Accession: 270382

Date Received: 8/20/2003

Establishment No.: TXDEGE1  
STEPHANIE DEGESERO  
2070 ZOO LANE

Referral Number:  
Owner: ABILENE ZOOLOGICAL GARDENS  
City: ABILENE

State: TX

ABILENE, TX 79602  
Fax: 9156766084

Preservation:

Retain Tag:

Species: Elephant

NVSL ID	Case#	Sample ID	Animal ID
828669	036258	8/12/03	#356 TANYA

Tissues  
TRUNK WASH

Mycobacteria Isolation  
Diagnosis: No Isolation Made

DISTRIBUTION:  
Submitter  
10/22/2003

Approved By: Jeffrey T. Nelson  
National Veterinary Services Laboratories



# Texas Veterinary Medical Diagnostic Laboratory System



## Final Report

P.O. Drawer 3040, College Station, TX 77841-3040  
Phone: (979)845-3414 Fax: (979)845-1794 <http://tvmdlweb.tamu.edu/>

**Owner's Name:**  
African Elephant / #356

**Veterinarian/Submitter:**  
Abilene Zoological Gardens  
2070 ZOO LANE  
Abilene, TX 79602

(325)676-6085  
Account#: 13826

**Date specimens received:** 1/28/04

**Preliminary reports:** Fax 1/28/04

**Phone reports:**

**Final report:** Fax 1/29/04

**Species:** Exotic      **Age:** 24.00 Years  
**Breed:** Elephant      **Weight:** 8500 Pounds

**Animal ID:** African Elephant #356  
**Sex:** Female

**Tests Requested:** CBC and chem panel

**Specimens Submitted:** Serum; blood in EDTA tube, slides

**Clinical History:** 01/27/04, Dr. Dale Hembree. Abilene Zoo is exhibiting two female elephants. This elephant is having weekly blood draws to determine progesterone levels in effort to plot out estrous cycles. Keepers requested CBC and chem panel for baseline data. Elephant is presumed healthy. /sw

**Clinical Diagnosis:**

**Previous Cases:**

**Treatment:**

**Conclusion/Interpretation of Lab Findings:**

Laboratory results as listed

J. A. Akins, DVM/kn

**LABORATORY TEST STATUS:****Ordered    Current Status**

Complete Blood Count (Mammalian) (C)  
Chem panel (Equine) (C)

1/28/04    Completed 1/28/04  
1/28/04    Completed 1/29/04

**Clinical Pathology**

Completed: 1/28/04

Animal ID: African Elephant #356

**Complete Blood Count (Mammalian)**

Total WBC's	10,100	/ul
Differential/%		
Neutrophils	45	%
Lymphocytes	19	%
Monocytes	36	%
Absolute/ul		
Neutrophils	4545	/ul
Lymphocytes	1919	/ul
Monocytes	3636	/ul
Red blood cells	2.85	X10e6/ul
Hemoglobin, blood	13.0	g/dl
PCV	36.4	0%
MCV	127.7	fl
MCH	45.6	pg
MCHC	35.7	g/dl
Platelet estimate	1164	X10e3/ul
Platelet comment	Estimate	

**RBC Morphology**  
Normal

**WBC Morphology**  
Normal

**Hemoparasites**  
None seen

**Comments:**  
--J. A. Akins, DVM/kn

Completed: 1/29/04

Test: Chem panel (Equine)

Animal ID: African Elephant #356

Test	Results	Reference Range	Relative Result Indication		
			Low	Normal	High

Total Serum Protein	8.3	g/dl
Albumin	3.1	g/dl
Calcium, serum	12.4	mg/dl
Phosphorus, serum	3.0	mg/dl
Glucose	82	mg/dl
BUN	5.1	mg/dl
Creatinine	0.9	mg/dl
Total bilirubin	0.1	mg/dl
Direct bilirubin	0.0	mg/dl
ALP	80	U/l
CK	165	U/l
AST (SGOT)	10	U/l
Globulins	5.2	g/dl
A/G Ratio	0.60	
GGT	11	U/l

---

**Veterinary Bulletin:**

Effective January 1, 2004, TVMDL will routinely run the ELISA test for equine infectious anemia (EIA). The ELISA test is an official test for EIA and the turn-around time is at least 24 hours shorter than the AGID test. We will no longer run the AGID test unless it is specifically requested. You should specify that the AGID test is requested on the TVMDL submittal form that must accompany VS Form 10-11. We will confirm all positive ELISA tests with the AGID test at no additional cost. The cost of the ELISA or the AGID test is \$4.50 in-state and \$5.50 out-of-state.

---

**Salmonella Serotyping:**

Effective January 1, 2004 TVMDL will no longer send Salmonella spp. isolates to NVSL for serotyping as a routine part of our Salmonella culture. You will continue to receive the Salmonella group report and the isolates will be held approximately 2 weeks. If you want them sent for serotyping please specify "Salmonella serotyping requested" on the submission form or contact us within that 2 week time frame.

**LABORATORY TEST STATUS:**

Complete Blood Count (Mammalian) (C)  
Chem panel (Equine) (C)

Ordered    Current Status

1/28/04    Partial 1/28/04  
1/28/04    Partial

**◆ Clinical Pathology****Completed:****Test:** Chem panel (Equine)**Animal ID:** African Elephant #356

Test	Results	Reference Range	Relative Result Indication		
			Low	Normal	High
Total Serum Protein	8.3	g/dl			
Albumin	3.1	0 g/dl			
Calcium, serum	12.4	0 mg/dl			
Phosphorus, serum	3.0	0 mg/dl			
Glucose	82	0 mg/dl			
BUN	5.1	0 mg/dl			
Creatinine	0.9	0 mg/dl			
Total bilirubin	0.1	mg/dl			
Direct bilirubin	0.0	mg/dl			
ALP	80	0 U/l			
CK	165	0 U/l			
AST (SGOT)	10	0 U/l			
Globulins	5.2	0 g/dl			
A/G Ratio	0.60				
GGT	11	0 U/l			

**Completed:** 1/28/04**Animal ID:** African Elephant #356**Complete Blood Count (Mammalian)**

Total WBC's	10,100	/ul
<b>Differential/%</b>		
Neutrophils	19	%
Lymphocytes	40	%
Eosinophils	41	%
<b>Absolute/ul</b>		
Neutrophils	1919	/ul
Lymphocytes	4040	/ul
Eosinophils	4141	/ul
Red blood cells	2.85	X10e6/ul
Hemoglobin, blood	13.0	g/dl

36.4	0%
127.7	f
45.6	pg
35.7	g/dl
1164	X10e3/uI
Platelet estimate	
Platelet comment	Estimate

**RBC Morphology**  
Normal

**WBC Morphology**  
Normal

**Hemoparasites**  
None seen

**Comments:**  
-ch/kn

**Veterinary Bulletin:**

Effective January 1, 2004, TVMDL will routinely run the ELISA test for equine infectious anemia (EIA). The ELISA test is an official test for EIA and the turn-around time is at least 24 hours shorter than the AGID test. We will no longer run the AGID test unless it is specifically requested. You should specify that the AGID test is requested on the TVMDL submittal form that must accompany VS Form 10-11. We will confirm all positive ELISA tests with the AGID test at no additional cost. The cost of the ELISA or the AGID test is \$4.50 in-state and \$5.50 out-of-state.

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# Texas Veterinary Medical Diagnostic Laboratory System



## Final Report

P.O. Drawer 3040, College Station, TX 77841-3040  
Phone: (979)845-3414 Fax: (979)845-1794 <http://tvmdlweb.tamu.edu/>

(325)676-6085

Owner's Name:  
African Elephant

Veterinarian/Submitter: Account#: 13826  
Abilene Zoological Gardens  
2070 ZOO LANE  
Abilene, TX 79602

Date specimens received: 3/4/04

Preliminary reports:

Phone reports:

Final report: Fax 3/12/04

Species: Exotic

Age: 25.00 Years

Animal ID: 356

Breed: Elephant

Weight: 8000 Pounds

Sex: Female

Tests Requested: serum vitamin E

Specimens Submitted: serum /mb

Clinical History: 3/2/04. Animal is one of 2 owned by Abilene Zoological Gardens. Recently we have been able to draw blood for weekly progesterone levels and have submitted blood recently for routine CBC and chemistry panel. Request Vitamin E level to determine if supplementation is needed. FAX

Clinical Diagnosis:

Previous Cases:

Treatment:

Conclusion/Interpretation of Lab Findings:

Laboratory results as listed.

**LABORATORY TEST STATUS:**

	Ordered	Current Status
Vitamin E (serum) (T)	3/4/04	Completed 3/12/04

**\*Toxicology**

**Analysis:** Vitamin E (serum)  
**Method:** HPLC  
**Basis:** As received basis  
**Completed:** 3/12/04

Specimen/Animal ID	Specimen	Total Vitamin E	Vitamin E/Cholesterol Ratio
356	Serum	0.28 ug/ml	0.5

**Comments:**

Normal serum vitamin E for adult elephants is between 0.25 and 1.60 ug/ml. Sub adults have somewhat lower concentrations. -- Dr. Barr

**Veterinary Bulletin:**

Effective January 1, 2004, TVMDL will routinely run the ELISA test for equine infectious anemia (EIA). The ELISA test is an official test for EIA and the turn-around time is at least 24 hours shorter than the AGID test. We will no longer run the AGID test unless it is specifically requested. You should specify that the AGID test is requested on the TVMDL submittal form that must accompany VS Form 10-11. We will confirm all positive ELISA tests with the AGID test at no additional cost. The cost of the ELISA or the AGID test is \$4.50 in-state and \$5.50 out-of-state.

**ATTENTION:**

On February 17, 2004 TVMDL diagnosed Avian Influenza in Gonzales County. Even though a State/Federal program is currently underway to eliminate this disease, it will cost Texas poultry producers millions of dollars in lost revenue. TVMDL is providing much of the molecular based testing required the eradication effort and the increased workload may cause delays in routine PCR testing. We are making adjustments to limit the impact of these delays on our clients and we ask for your cooperation as we work to eliminate this virus from Texas.



Abilene Zoo - Tanya - African Elephant

