

Abitene Zoo

Medical Records

Tanzu

28 pages

Report Start Date
1/1/1601

Specimen Report for ABILENE / 1237

Report End Date
12/29/2004



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

TANZY

Family: Elephantidae
Order: Proboscidea

Current information

Sex: Female Sire ID:
Birth type: Wild Born Dam ID:
Birth Location: TANGANYIKA (unknown location) Rearing: Unknown
Birthdate-Age: ~ 1958 - ~46Y Hybrid: Not a hybrid
Time since last Acq: 6Y,2M,1D 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>
30 Oct 1998	Loan In from OKLAHOMA / 022101	ABILENE / 1237		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
9 Nov 1958	House Name	TANZY		
9 Nov 1958	Regional Studbook #	29	AZA	29 "International Studbook Number" from ARKS 2 records

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
8 Oct 2002	Animal management note	Worked on getting her to lift rear feet to target during lean in, went great.
13 Oct 2002	Medical note	Worked on foot trimming; still having trouble getting her to present hind feet.
14 Oct 2002	Behavior note	She acted very aggressive to #356 Tanya and keeper this a.m.
18 Oct 2002	Behavior note	Did not want to go outside today. Was aggressive toward keepers and female #356, even knocking her down once outside.
23 Oct 2002	Behavior note	Very uncooperative and nervous, would never face keeper during commands. Probable cause arrival of new tigers last night.
23 Oct 2002	Medical note	Had green mucous in corner of left eye.
24 Oct 2002	Behavior note	Very non responsive to commands again this a.m.
24 Oct 2002	Medical note	Left eye is red, same eye that had mucous in it yesterday.
26 Oct 2002	Medical note	Worked on foot trimming.
28 Oct 2002	Animal management note	She turned today. Reintroduced laser pointer to her and she did great.
2 Nov 2002	Medical note	Has green mucus around right eye.
17 Nov 2002	Behavior note	Worked well with laser pointer today. Turned and presented back feet.
18 Nov 2002	Behavior note	Would not present back feet today.
25 Nov 2002	Behavior note	She was very aggressive today.
25 Nov 2002	Medical note	Applied bag balm to two superficial wounds on right flank area.
15 Dec 2002	Animal management note	Trimmed feet. Let keepers trim hind right foot and also turned for them.
22 Dec 2002	Animal management note	Presented hind left foot and keepers trimmed some of the pad. She would put it all the way on foot bar but could not hold it up there very long. She turned great.
13 Feb 2003	Medical note	Left rear foot appears to have broken off a part of the nail on the inside toe. Treated w/Koppertox.
12 May 2003	Behavior note	Has not been drinking water in the barn past 2 days. Not interested in grain and appears moody.
13 May 2003	Behavior note	Concerned about small amount of fecal matter. Cut grain and increased hay. Seems to help. She is eating all hay. Also she is drinking from pool outside, but not much in barn still.
18 May 2003	Note	COLLECTED URINE OFF FLOOR AM FOR TESTINGS.
19 May 2003	Behavior note	Seems to be back to normal
14 Nov 2003	Medical treatment	During foot training session deep hole found to pad adjacent to nail bed (approx. 1 to 2 inch from anterior border) on central-lateral portion of pad. Wound was cleaned out, but animal seemed tender before could completely clean lesion. Had director (JB) examine lesion; recommendation to clean lesion daily with Novasan solution, then apply Betadine solution. Flushed lesion with 10% Nolvasan solution using 60 ml syringe (5 to 6 syringes) and then coated lesion with betadine solution. Will continue treatment daily until healed.

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20 Nov 2003	Medical note	Keepers report lesion to foot pad doing well. Seems to be healing in; no longer painful or tender to treatment. Continue treatment as previously.
2 Dec 2003	Foot management	Nolvasan and Betadine treatment to foot. RDH
8 Dec 2003	Behavior note	Elephants wouldn't go on exhibit initially due to commotion with tigers leaving. RDH
10 Dec 2003	Animal management note	Elephant has been working well for foot trim sessions. Feet are improving and animal is allowing longer and longer sessions for trims. Animal has been on Glyco-flex Equine II nutraceutical for past several months (May 2003, 8 months or so), and significant improvement has been noted. Today, keepers noticed overgrowth of tissue at junction of sole of foot and skin edge. Keepers are concerned that animal maybe developing thrush type lesion, but examination reveals animal maybe developing hyperkeratosis to skin secondary to chronic irritation from water and urine pooling in floor of elephant floor. Maintenance has cut opening to den leading to outside which should allow liquid to drain better. Will begin symptomatic treatment, including rasping done extra tissue and using betadine solution to help keep lesion dry. RDH
12 Dec 2003	Medical observation	Keepers report noticing large amount of ocular discharge bilaterally. In afternoon, no discharge seen, but elephant was noticed to be rubbing at eyes with trunk.
15 Dec 2003	Medical observation	Keepers report eyes seem normal. No discharge seen, elephant is not rubbing at eyes with trunk, and no discomfort was observed.
1 Jan 2004	Medical treatment	Keepers report elephant has continued to develop hyperkeratotic lesion to left rear foot. Will start scrubbing foot with Oxy Gel, then cover foot with betadine following scrubbing. Will attempt to obtain corona cream to help moisturize and softer skin around foot.
1 Jan 2004	Behavior note	Keepers report elephant appears to be in a "sour" mood today. Keepers will monitor and maintain vigilance in protecting themselves as well as public during "tantrums".
1 Jan 2004	Behavior note	Keepers report elephant was very "grouchy" today. Wouldn't respond to commands.
11 Jan 2004	Foot management	Scrubbed LR foot w/ Nolvasan and poured Betadine over hyperkeratotic lesion after cleaning. Will continue daily treatment due to hyperkeratotic lesion.
12 Jan 2004	Medical note	Keeper noticed elephant was rubbing right side of jaw/mouth on post for several minutes today. Concerned there might be a problem since eleph is missing tusk from right side. Elephant did respond to commands and opened mouth for visual examination. No problems were seen, although small abrasion was present to skin over L tusk (no treatment needed).
15 Jan 2004	Foot management	Scrubbed back feet with Dermapet Gel due to hyperkeratotic lesion on feet, then covered lesions with corona cream. Will continue daily foot treatments until can get hyperkeratotic lesion to respond. Elephant is responding better overall. Temperment seems to be better. Presents feet for cleaning when directed by keepers. Overall behaviour is vastly improved.
17 Jan 2004	Foot management	Scrubbed and cleaned both back feet. Applied corona ointment to each foot.
22 Jan 2004	Foot management	Scrubbed foot with Dermapet shampoo, then applied corona cream to hyperkeratotic lesions around sole of each rear foot. Will continue daily treatment, as possible, until lesions are clear.
22 Jan 2004	Foot management	Continuing treatment to hind foot due to hyperkeratotic lesions, using Dermapet to scrub foot, then applying corona cream after cleaning.
28 Jan 2004	Animal management note	Keepers report could not perform foot treatment session as animal was very uncooperative.
30 Jan 2004	Medical note	In afternoon animal was found to be very restless and uncomfortable. Would not respond to any of usual commands. Seemed bloated to left flank, but was passing feces. Animal had not eaten all of morning hay, refused produce treats. Animal would stretch rear legs behind her, or lean against barn pole supports and kept trunk down with drops of liquid seen dripping off of trunk. During urination, she voided only a small amount of foamy urine, she also seemed to strain after voiding without passing anymore urine. Talked w/ Dr. Flanagan @ Houston, Dr. Gary West @ Oklahoma City, and Dr. Dennis Schmidt in Southwest Missouri State. Suggested possible cystitis or uteran tumor, as well as possible gastrointestinal/bloat involvement but all agreed bloat was unlikely since she is passing feces. Recommended prophylactic treatment w/ Banamine until more diagnostics are available. Urinalysis was performed and revealed; Blood-Neg; Bill-Neg; Urobilinogen-Neg; Ketones-Neg; Glu-Neg; Protein-Neg; Nitrite-Pos (was contaminated sample from barn floor); Leukocytes-Neg; pH-8; sp. gr. 1.020. Sedimentation revealed too much debris to be diagnostic; did not recognize any RBC, WBC, or any smooth muscle cells, indicative of uteran tumor. Dr. Schmidt reported most uteran tumors seen on Asian, not African Elephants and is usually accompanied by blood in urine as well.



Animal was let on exhibit, she would stretch rear legs, and acted uncomfortable. Left flank remained distended. Keeper came back and checked in late evening and reported no improvement. Water consumption had been normal, only change had been 2 grapefruits given as enrichment.

31 Jan 2004	Medical note	Keepers report animal seems back to normal. Responded well to commands. Allowed foot session for rear foot treatment. Ate all of hay given-withheld pelleted foods and gave few handfuls of produce. Normal feces and urination.
1 Feb 2004	Medical observation	Keepers report animal is back to normal. No evidence of gastrointestinal upset, no strainuria. Normal fecal output; normal appetite; normal water consumption.
5 Feb 2004	Behavior note	Keepers report elephant has been fairly aggressive all week. Is responding to commands, but will charge at keepers, or swing trunk at keepers through stall bars.
10 Feb 2004	Foot management	Foot session performed today. Keepers are trying to work on feet by scrubbing with Dermapet medicated shampoo, then covering with Corona cream. Today were able to remove portion of overgrown cuticle.
18 Feb 2004	Foot management	Keepers continue to perform daily (as possible) foot treatments to manage foot problems
18 Feb 2004	Behavior note	Keepers report de-sensitizing animal to ERC by getting animal to eat hay next to open chute doors.
24 Feb 2004	Behavior note	Keepers report would not go on exhibit today due to weather (cold, rain-1.13", north wind)
2 Mar 2004	Fecal check/worming	Fecal flotation; Negative
9 Mar 2004	Behavior note	Didn't respond to commands well today. Seemed agitated. Was aggressive towards other elephant and keepers during weekly blood draw on elephant #356.
10 Mar 2004	Medical note	Keepers reported elephant was very listless and uncomfortable in morning. Wouldn't eat morning grains. Did eat hay overnight and had normal amount of stool present in stall. Did go outside, but didn't eat any hay or produce. Stood and would rock back and forth and rear legs. Would cock leg up and stand on other 3, then shift to other rear leg. Would hold trunk motionless on ground. Didn't interact w/ other elephant. Didn't appear bloated. Hard to tell if she was having intestinal pain or arthritic problems. Discussed problem with elephant manager and director. Decided to go ahead and give Banamine as anti-inflammatory to treat either/or intestinal discomfort or arthritic problems. Gave 0.2mg/kg orally of 50mg/ml Banamine injectable by hiding in peanut butter, then giving w/ Cola. Received 20 ml or 1 gm of Banamined. Seemed more comfortable in afternoon. More responsive, did eat some ry crisps offered by public. Gave only hay in evening. Ate hay. Did respond better for commands.
11 Mar 2004	Medical note	Animal seems less uncomfortable this am. Did eat all of hay during night; fed only hay this am and ate normally. Had only one fecal pile in barn, but didn't eat much yesterday. Repeated 20ml injectable Banamine by giving orally in a banana (1gm). Fed 8 cups wheat bran mixed with 4 cups whole oats, 2 cups rolled oats, and mixed with small amount of Karo syrup and Molasses. More responsive this morning. Responded to commands, went outside, seemed much more alert.
11 Mar 2004	Fecal check/worming	Repeated fecal flotation this morning. Fecal-Negative.
11 Mar 2004	Medical note	Elephant seems to be feeling better today. More responsive to commands, more active, appetite is improving. Still not having normal amount of bowel movements but stool being passed does appear normal. Repeated Banamine medication; gave 15 ml in an orange and additional 5 ml in a banana. Gave 8 cups wheat bran in small amount (approx. 6 cups) whole and processed oats along with some molasses and karo syrup. Gave glyco-flex w/ 2 cups ADF 16 in pm. Ate 2 bales coastal hay.
12 Mar 2004	Medical note	Elephant continues to appear in improving. Is much more alert and visually seems to feel better. Appetite continues to be good, still not passing normal amount of feces, but stool being passed does appear normal. Repeat fecal flotation is negative. Discontinued Banamine, gave 8 cups wheat bran in 6 cups ADF 16 and gave pm glyco-flex in 2 cups ADF 16. Continued increased coastal hay.
12 Mar 2004	Medical note	Elephant continues to improve and return to normal. Much more alert and responsive to commands. Has good appetite, fed small amount of ADF 16 w/ 8 cups of bran this am and another small amount in evening w/ Glyco-flex. Gave 1&1/2 bales of hay in pm.
23 Mar 2004	Behavior note	Elephant charged ERC this afternoon during blood draw on elephant #356. Also much disruption due to old exhibit destruction and wind blowing.
28 Mar 2004	Medical treatment	Added 8 cups of bran to diet after added new dirt to exhibit in case elephants ingested dirt due to new enrichment.
28 Mar 2004	Medical note	Added 8 cups of bran to diet due to dirt work/new dirt added to exhibit in case elephants ingested any dirt.



1 Apr 2004	Medical observation	In evening elephant was very reluctant to come in off exhibit. On observation she was seen to be stiff to LR leg and would not bend leg and was favoring leg. Leg at ankle seemed swollen medially. Took 45 min. to get in off exhibit. Keepers came back at 9:30 pm to check on elephant. She had not had a bowel movement but did finally have a loose stool while observing. Elephant seemed agitated and would sway back and forth and swish tail constantly.
2 Apr 2004	Medical treatment	Animal was still very stiff and favoring left rear leg. Begin to double Glyco-flex by giving with grains am and pm (1 cup each) instead of just pm. Will also give 20 cc Banamine orally for the next 3 days.
3 Apr 2004	Medical treatment	Animal seems better today. Still stiff to left rear leg, but did respond to commands, eating well, normal bowel movements. Will give last dose banamine tomorrow and continue Glyco-flex bid to assess response.
4 Apr 2004	Medical treatment	Last day of 20 ml Banamine orally. Keepers are hiding 10 ml orange and elephant is taking well. Keepers report elephant is using leg better, is still a little stiff to LR leg, but doesn't seem as swollen and animal is definitely using leg better, and bearing more weight on leg. Responding better to commands. Keepers are planning to perform foot session tomorrow in attempt to examine leg more closely.
5 Apr 2004	Medical treatment	Keepers are maintaining elephant on 1 cup glyco-flex in grains bid as nutritional support due to arthritis. Keepers do report that elephant seems to continue to improve and return to normal. Swelling is down in leg, and elephant is responding well to commands, however elephant is still favoring leg a little.
7 Apr 2004	Medical observation	Keepers report elephant has small superficial laceration to top of trunk. Visitor reported seeing blood present. Scrape is not serious and should not require medication. Will continue to monitor.
7 Apr 2004	Foot management	Keepers began treating feet once again. Elephant still has hyperkeratosis type lesion around back foot pads. Keepers are using Corona cream for treatment.
20 Apr 2004	Behavior note	Wouldn't respond to commands given by back-up keeper.
28 Apr 2004	Medical observation	Elephant is again lame to left rear leg-had rain over past several days and exhibit is muddy; may have injured leg while siding in mud.
2 May 2004	Medical treatment	Keepers report elephant is again lame to left rear leg. Not willing to bend at knee; cocks leg up to take weight off of leg while standing. Will start on oral Banamine again, due to presumed arthritis at 20 ml (1 gram) injectable Banamine (Flunixin meglumine) orally hidden in 3 oranges for administration.
3 May 2004	Medical treatment	Keepers report elephant is improved, but still lame to left rear leg. Will repeat Banamine administration (1 gm injectable Banamine hidden in 3 oranges for oral administration).
5 May 2004	Medical treatment	Keepers report elephant is no longer lame to left rear leg. Will discontinue oral Banamine at this time and maintain on oral Glyco-flex twice daily to help control arthritis.
7 May 2004	Medical observation	Keeper reports elephant is still favoring LR leg slightly, has slight limp noted.
12 May 2004	Foot management	Keepers worked on both rear feet today. No problems reported.
16 May 2004	Behavior note	Elephant wouldn't leave barn and go on exhibit w/o other 0.1 elephant (#356) with her.
18 May 2004	Aggression	Elephant acted aggressive during blood draw on elephant #356; this animal has been off of glyco-flex supplementation for 3 days (out-has been re-ordered) and may have arthritis pain.
25 May 2004	Behavior note	Did not want to go out w/o 356 (Tanya)
2 Jun 2004	Individual behavior	Keeper reports became upset, possibly due to large zoo teen volunteer group coming through on tour. Threw branches into Secretary bird exhibit.
15 Jun 2004	Animal management note	Keepers report did training session w/ 0.2 elephants. Report training session went well, with both 0.2 elephants responding well to commands.
18 Jun 2004	Behavior note	Keepers report elephants worked well for training session.
23 Jun 2004	Behavior note	Training session with both elephants done today.
27 Jun 2004	Medical observation	Animal noted to be stiff to left rear leg today. Unsure of reason-maybe related to increased rain, causing mud in exhibit and resulting in animal slipping or sliding more.
1 Jul 2004	Foot management	Foot session went well today; able to trim all 4 feet.
2 Jul 2004	Medical treatment	Consulted with Dr. Michele Miller @ Disney (elephant tag veterinary advisor) over use of NDAID's in elephants for the treatment of arthritis. Dr. Miller recommended using (1) Flunixin meglumine: 0.7-1.0 mg/kg PO q 24-48 hr; (2) Ibuprofen: 0.5-4 mg/kg PO q 24 hr; (3) Phenybutazone: 1-2 mg/kg PO q 24 hr up to 2.5 mg/kg q 48 hr. Also stated there was a report of using Adequan (polysulfated glycosaminoglycan) in performing elephants at a dosage of 0.5-1.0 mg/kg im weekly for 4 to 8 weeks. Due to this animal's aggression, unable to give



injections, will start on 1 mg/kg Phenylbutazone orally q 24 hrs due to lameness seen to left rear leg along with some swelling to lower leg. RX: 5 grams Phenylbutazone orally po q 24 hrs, mixed in ADF 16 powder and molasses or honey until no longer lame.

5 Jul 2004	Medical observation	Keepers report animal is no longer limping. Seems to be back to normal. NSAID medication discontinued for now. Will continue to give Glyco-flex to help keep symptoms of arthritis under control.
6 Jul 2004	Foot management	Foot session reveals return of hyperkeratosis or "feathering" signs to LR foot. Applied corona cream to LR foot to help reduce signs of hyperkeratosis.
8 Jul 2004	Individual behavior	Keepers report elephant did not want to leave barn in am.
14 Jul 2004	Individual behavior	Elephant aggressive towards other female elephant (#356) during blood draw on #356.
29 Jul 2004	Foot management	Keepers performed foot trim. Reported this elephant has deep ridge along outside edge of RR foot.
30 Jul 2004	Medical observation	Elephant seen slightly favoring LR leg during day.
1 Aug 2004	Medical treatment	8 cups bran added to diet daily for next week as laxative.
1 Aug 2004	Medical note	Lots of fecal matter found in stall today (2.5 barrels compared to 1 barrel w/ other elephant) that had a very pungent odor. Keepers report seemed normal yesterday, may have been stressed from zoo serenade.
9 Aug 2004	Medical treatment	Gave 10,000 mg (10 gm) Phenylbutazone orally mixed with ADF 16 dust and honey because keepers noticed elephant was somewhat lame to left rear leg.
10 Aug 2004	Medical treatment	Keepers report elephant is not lame to rear leg, is moving well and seems to be feeling good. Discontinue Phenylbutazone.
15 Aug 2004	Medical note	Limping some on LR leg
19 Aug 2004	Medical treatment	Given 10,000mg Phenylbutazone PO
20 Aug 2004	Medical treatment	Given 10,000mg Phenylbutazone PO in PM
21 Aug 2004	Medical treatment	Given 10,000mg Phenylbutazone PO
24 Aug 2004	Behavior note	Tanzy charged the ERD and broke the weld at the top of the north east door where it is attached to the hydraulic cylinder. Door repaired by maintenance staff and Park Staff. Tanzy sustained no injury.
29 Aug 2004	Behavior note	Tanzy seemed distant and listless today. Standing with left rear leg propped on toes.
29 Aug 2004	Medical treatment	Given 10,000 mg Bute
1 Sep 2004	Medical note	Limping on left rear leg and in a bad mood. Seemed very agitated today. Aggressive to Tanya. Took a swing at keeper (James O'Brien).
2 Sep 2004	Behavior note	Very aggressive toward Tanya today. Hitting her and knocking her down.
3 Sep 2004	Medical treatment	Given 10,000mg Bute
7 Sep 2004	Behavior note	Still aggressive to Tanya.
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.
20 Oct 2004	Behavior note	On Wednesday, October 20, Tanzy, our 48-year old female African elephant was locked in the elephant restraint device (ERD) for the first time since she was unloaded into it upon her arrival. Since that time, she had been weary of it and would pass through it quickly. The elephant staff has been working to succeed in getting her more accustomed to and comfortable in this space. This is what made Wednesday's accomplishment such a big deal. She was held and rewarded for this over the duration of about 10 minutes that she was kept in the ERD. She showed some stress in her behavior, but no severe stress.
21 Oct 2004	Behavior note	On Thursday, October 21, staff attempted again to stop her in the ERD. Their first attempt was rebuffed by Tanzy and she was given a time out for about 30 minutes. The second time they tried, she did come out and was again secured in the ERD.
22 Oct 2004	Behavior note	On Friday, October 22, she totally refused to leave the barn and enter the ERD. She would step out with her front feet, but her back feet never left the barn. Keepers tried treats and browse to coax her out to no avail. Due to severe weather on that day, staff did not push it. Later in the day, they tried again without success.
23 Oct 2004	Behavior note	On Saturday, October 23, Tanzy's attitude was pretty much the same. She shows no sign of stress nor discomfort but Jeff Bullock, Director approved giving her some Bute in case we were dealing with some arthritic pain as we had in the past. She was again given several opportunities to leave the stall but continued to refuse.

**ABILENE ZOOLOGICAL GARDENS
SPECIMEN MEDICAL RECORD**

NAME African Elephant

GENUS SPECIES Loxodonta africana

GIVEN NAME Tarry I.D. 1237

BORN/HATCHED/REC'D. _____

HISTORY: (Hereditry, Condition, behavior problems, patterns, etc..) _____

FECAL EXAM:

991

DATE	RESULTS	TREATMENT	DOSAGE	DATE	PROCEDURE/COMMENTS/RESULTS
June 10	Positive for Strongyles & Ascarids				
June 15		Strongid T	490ml	15 June 99	Recheck on 22 June 99
June 22					Float. Recheck on 20 July 99
July 13	negative				Float. Recheck on 24 Aug. 99
Aug 31	negative				Float. Recheck on 26 Oct. 99
Oct 26	negative				Float. Recheck 27 April 2000.
2000					
May 2	negative				float. Recheck 17 Nov. 2000.
June 27	negative	strongid T	500ml		Did not treat - ran out of strongid float. Recheck 25 July 00
Aug 15	negative				float. Recheck 17 Nov. 00.
Nov 7	negative				float. Recheck in May 01
1001					
May 8	negative				float. Recheck 11 Sept. 01
Sept 11	Positive Strongyles	Strongid T	500ml		float. Recheck 2 Oct. 01
Oct 9	Positive for Strongyles & Ascarids	strongid T	500ml	11 Oct 01	Common sample
23 Oct 2001	positive ascarids				Common sample
6 Nov 2001	negative	strongid T	500ml	6 Nov 01	Common sample
5 Dec 2001	negative				float.

ABILENE ZOOLOGICAL GARDENS

SPECIMEN MEDICAL RECORD

NAME Ornith. ELIMPH
 GENUS SPECIES Leucosticte t. t.
 GIVEN NAME 11-11 I.D. 1239
 BORN/HATCHED/REC'D. _____

HISTORY: (Hereditry, Condition, behavior problems, patterns, etc..) _____

FECAL EXAM:

DATE	RESULTS	TREATMENT	DOSAGE	DATE	PROCEDURE/COMMENTS/RESULTS
June 10	Positive Asc. & S. sp.				
June 15		Strongid T	500ml	17 June 99	Recheck on 22 June 99
June 22					float. Recheck on 26 June 99
July 13	Negative				float. Recheck on 24 July 99
Aug 21	Negative				float. Recheck on 26 Oct 99
Oct 26	Negative				float. Recheck 27 April 2000
2000 May 2	Negative				float. Recheck 17 Nov 2000
June 27	Negative	Strongid T	500ml		Did not treat. ran out of Strongid T. float. Recheck 35 July 00
Aug 15	Negative				float. Recheck 17 Nov 00
Nov 7	Negative				float. Recheck on May 01
May 8	Negative				float. Recheck 11 Sept 01
Sept 11	Positive Strongyles	Strongid T	500ml		float. Recheck 2 Oct 01
OCT 9	Positive Strongyles Asc. sp.	Strongid T	500ml	11 Oct 01	Common - sample
2001 Jan 2001	positive ascaris				Common sample
2001 5 Dec 2001	negative	Strongid T	500ml	10 Nov 01	Common sample
	negative				float

SAMPLE SUBMISSION INFORMATION:

Genus/species: Loxodonta africana or Common name: African elephantAccession number(s): 1237 "Tawny"

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 10 21 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

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

EXAMINATION DATA:

Date examined: 19 10 21 02

d d m m y y

Time examined: 11:40Examination by: 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) McMaster quantitative

Quantity Codes:

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

TEST

2

RESULTS

No parasites seen

QUANTITY

Comments: recheck 3 months

Repeat Submission: [] Yes [] No

PARASITOLOGY EXAMINATION WORKSHEET

SUBMISSION DATA:

Genus/species: Loxodontia africana
 Or
 Common name: Elephant tanzu

Accession number(s):
637

- 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/TE

- 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: AO

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

TEST PERFORMED	RESULTS	QUANTITY
<u>2</u>	<u>negative</u>	

Comments: _____

Glucosamine trial

ABILENE ZOOLOGICAL GARDENS

DAILY TREATMENT RECORD

* Stool
 N - Normal H - Hard
 L - Loose W - Watery

NAME Janny SPECIMEN/ISIS ID# 1237 Stud bk # 29

DIAGNOSIS: POSS. Arthritis

DATE	TIME	TREATMENT/METHOD	BEHAVIOR RESPONSE, COMMENTS	*STOOL				Initials WEIGHT
				N	L	H	W	
		6 scoops SID for 1wk						
		9 Scoops SID for 1wk						
		12 scoops SID for 2wks						
		then 6 scoops SID as maintenance						
5/21	4:30pm	6 scoops added to pm grains						SD
5/22	4:30pm	6 scoops added to PM grains						SD
5/23	4:30pm	6 scoops added to P.M. grains						SD
5/24	4:30pm	6 scoops added to P.M. grains						SD
5/25	4:30pm	6 scoops added to P.M. grains						SD
5/26	4:30pm	6 scoops added to P.M. grains						SD
5/27	4:30	6 scoops added to PM grains						SD
5/29	4:30	6 scoops added to PM grains						SD
5/30	4:30	6 scoops added to P.M. grains						SD
5/31	4:30	6 scoops added to P.M. grains						SD
6/1	4:30	9 scoops added to P.M. grains						SD
6/2	4:30	9 scoops added to P.M. grains						SD
6/3	4:30	9 scoops added to P.M. grains						SD
6/4	4:30	9 scoops added to P.M. grains						SD
6/5	4:30	9 scoops added to P.M. grains						SD
6/6	4:30	9 scoops added to P.M. grains						SD
6/7	4:30	9 scoops added to P.M. grains						SD
6/8	4:30	12 Scoops added to pm grains						SD
6/9	4:30	12 Scoops added to PM grains						SD
6/10	4:30	12 scoops added to PM grains						SD
6/11	4:30	12 scoops added to PM grains						SD
6/12	4:30	12 scoops added to P.M. grains						SD

DAILY TREATMENT RECORD (Page 2)

DATE	TIME	TREATMENT/METHOD	BEHAVIOR RESPONSE, COMMENTS	*STOOL N L H W	WEIGHT
6/13	4:30	12 scoops in P.M.	Diets		702
6/14	4:30	6 scoops in P.M.	Diets		709
6/15	4:30	12 scoops in	pm grains (day 7 of 14)		810
6/16	4:30	12 scoops in	pm grains (day 8 of 14)		810
6/17	4:30	12 scoops in	pm grains (9 of 14)		803
6/18	4:30	12 scoops in	pm grains (10 of 14)		809
6/19	4:30	12 scoops in	pm grains (11 of 14)		803
6/20	4:30	12 scoops in	pm grains (12 of 14)		803
6/21	4:30	12 scoops in	pm grains (13 of 14)		809
6/22	4:30	12 scoops in	pm grains (14 of 14)		810
<p>6 scoops SID as maintenance</p>					
6/23	Continue indefinitely w/ 6 scoops SID.				

Parasitology Examination Worksheet

Sample #: _____

SAMPLE SUBMISSION INFORMATION: ¹⁹Genus/species: Leishmania gambiense or Common name: African trypan

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: 10,08,02

dd mm yy

Time collected: 9:30Collected 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

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

EXAMINATION DATA:

Date examined: 10,08,02

dd mm yy

Time examined: 2:45Examination 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/jarval parasites grossly visible

Description: _____

TESTS AND RESULTS:

Codes for Test Performed:

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

Quantity Codes:

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

TEST

RESULTS

QUANTITY

2negative

Comments: _____

Repeat Submission: Yes No

Parasitology Examination Worksheet

Sample #: _____

SAMPLE SUBMISSION INFORMATION:

Genus/species: Loxodonta africana or Common name: African elephantAccession number(s): 1237 "Tanning"

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: 19102102

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

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

EXAMINATION DATA:

Date examined: 19102102

d d m m y y

Time examined: 11:40Examination by: 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) Flootation - Na nitrate
 3) Formalin concentration
 4) Baermann sedimentation
 5) Centrifugation
 6) Flootation - zinc sulfate
 7) Flootation - sugar
 8) Gross examination
 9) McMasters quantitative

Quantity Codes:

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

TEST

RESULTS

QUANTITY

2No parasites seenComments: recheck 3 monthsRepeat Submission: Yes No

CLIENT NAME: Abilene Zoo PATIENT NAME: Tangy ~~DREAM~~DATE: 5-21-03

VOIDed sample on 5-18-03

HEMOGLOBIN:

BLOOD: neg

BILIRUBIN: Pos gold

UROBILINOGEN: neg

KETONES: neg

GLUCOSE: neg

PROTEIN: neg

NITRITE: Pos dark pink

LEUKOCYTES: neg

pH: 9

SPECIFIC GRAVITY: 1032 on Refractometer

SEDIMENTATION: WBC, few rbc, bacteria

COLOR: dark amber

TURBIDITY: clear

Vet said Bili & Nitr. Pos caused by cleaner mixed w/ urine

Hembree, Dale

From: Miller, Michele [Michele.Miller@disney.com]
Sent: Friday, July 02, 2004 6:55 AM
To: Hembree, Dale
Subject: RE: elephant health question

Hi Dale,

It sounds like the Glyco-flex is helping. We also use this product and it seems to help. You can use NSAIDs but just like with horses or any other mammals, there is a risk of gastric ulcers and renal toxicity especially with prolonged use. Typically, we use it intermittently with flare-ups. Here are a few empirically derived dosages that have been used with elephants.

Flunixin 0.7-1.0 mg/kg PO q 24-48 hr
Ibuprofen 0.5-4 mg/kg PO q 24 hr
Phenylbutazone 1-2 mg/kg PO q 24 hr up to 2.5 mg/kg q 48 hr

There is also a report of Adequan (polysulfated glycosaminoglycan) being used in performing elephants with good response. IM injections were given weekly for 4-8 weeks at 0.5-1.0 mg/kg IM.

Hope this helps.

Michele

-----Original Message-----

From: Hembree, Dale [mailto:Dale.Hembree@AbileneTX.com]
Sent: Thursday, July 01, 2004 7:17 PM
To: Miller, Michele
Subject: elephant health question

Hi Dr. Miller-

We have a 46 yr old female African elephant here at the Abilene Zoo ("Janey", studbook #29) who has quite a lot of arthritis problems. The keepers started her on Glyco-flex equine supplementation over a year ago, and we have seen a lot of improvement in her activity as well as an improved behavior response. We have noticed she has periods of arthritic flare-ups just like a person, and on several occasions she has become quite lame. We have in the past given her Banamine when she has had additional problems, but the keepers want to know if we can use Butazolidin or any other NSAID that might be safe and efficacious. Do you have a list of NSAID's that can be used on elephants and their dosages? I would appreciate any help you could provide for us.
Thanks.

Dale Hembree, D.V.M.
General Curator/Abilene Zoological Gardens
2070 Zoo Lane
Abilene, Tx 79601
325/676-6451
e-mail: dale.hembree@abilenetx.com

ok

(R)

CLIENT NAME: A Z G

PATIENT NAME: Tanzy

DATE: 1/30/04

HEMOGLOBIN:

BLOOD: Neg

BILIRUBIN: Neg

UROBILINOGEN: Neg

KETONES: Neg

GLUCOSE: Neg

PROTEIN: Neg

NITRITE: Pos (cont. sample)

LEUKOCYTES: Neg

pH: 8

SPECIFIC GRAVITY: 1.020

SEDIMENTATION:

COLOR:

TURBIDITY:

PARASITOLOGY EXAMINATION WORKSHEET

SUBMISSION DATA:

Genus/species: _____
 Or
 Common name: African elephant

Accession number(s): 1237

- 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: 11/03/04
 d d m m y y

Time collected: 11:15

Collected by: JOB

Enclosure: elephant barn

- 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: 11/03/04
 d d m m y y

Time examined: 11:45

Examination by: RDA

- 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

6

RESULTS

Negative

QUANTITY

Comments: _____

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 # 1237 Studbook # 29 Name Tanzy

Age: 44yrs 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- sample collected consecutively for three 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: 270383

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
---------	-------	-----------	-----------

828670	036259	8/10/03 Tissues TRUNK WASH	#1237 TANZY
--------	--------	----------------------------------	-------------

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:
Submitter
10/22/2003

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories

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

Accession: 270384

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
828671	036260	8/11/03 Tissues TRUNK WASH	#1237 TANZY

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:
Submitter
10/22/2003

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories

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

Accession: 270385

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
828672	036261	8/12/03	#1237 TANZY

Tissues
TRUNK WASH

Mycobacteria Isolation
Diagnosis: No Isolation Made

DISTRIBUTION:
Submitter
10/22/2003

Approved By: Jeffrey T. Nelson
National Veterinary Services Laboratories