



Taxonomic name: *Loxodonta africana africana*

Family: Elephantidae

Common name: South African bush elephant

Order: Proboscidea

Current information

Sex: Female Sire ID:
 Birth type: Wild Born Dam ID:
 Birth Location: S.W. AFRICA (unknown location) Rearing: Unknown
 Birthdate-Age: 28 Jul 1973 - 35Y,0M,30D Hybrid: Not a hybrid
 Time since last Acq: 32Y,1M,0D 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>
27 Jul 1976	Purchase from ANIMALES / NONE	NORFOLK / 000029		

<u>Date</u>	<u>Type</u>	<u>Value</u>	<u>Units</u>	<u>Comments</u>
10 Jul 2007	live animal weight	9970	pound	
30 Apr 2008	live animal weight	9920	pound	

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
2 Apr 2007	Medical note	Four piles of sandy feces form overnight.
3 Apr 2007	Medical note	This comment was added to the following specimens: 000028, 000029. First of 3 of TB trunk washes.
4 Apr 2007	Medical treatment	This comment was added to the following specimens: 000028, 000029, 205003. 8 cc's of blood taken from right ear.
5 Apr 2007	Behavior Note	This comment was added to the following specimens: 000028, 000029, 205003. Observed to be a little lathargic. She was given Equisyl in PM.
6 Apr 2007	Medical note	Second of three TB trunk washes.
10 Apr 2007	Medical treatment	This comment was added to the following specimens: 000028, 000029, 205033. Last of TB trunk washes.
11 Apr 2007	Medical treatment	This comment was added to the following specimens: 000028, 000029, 205003. 8 cc's blood taken.
18 Apr 2007	Note	This comment was added to the following specimens: 000028, 000029. Drew 8 cc's blood for banking from right ear of each.
25 Apr 2007	Medical note	This comment was added to the following specimens: 000028, 000029, 205003. 8 cc's blood taken and banked.
26 Apr 2007	Foot management	This comment was added to the following specimens: 000028, 000029, 205003. Trimmed the pad on her front right foot.
2 May 2007	Medical procedure	8cc's blood taken to be banked.
4 May 2007	Foot management	This comment was added to the following specimens: 000028, 000029, 205003. Keeper trimmed front feet in AM after bath.
7 May 2007	Exhibit	Installation began on shade structure in main yard.
9 May 2007	Medical note	This comment was added to the following specimens: 000028, 000029, 205003. 8cc's blood taken from each to be banked.



		This comment was added to the following specimens: 000028, 000029, 205003.
9 May 2007	Foot management	Foot work done on both front feet.
12 May 2007	Foot management	Keeper trimmed on her front feet today.
15 May 2007	Animal management note	Elephants are locked in the building and holding yard until the shade structure is complete.
		This comment was added to the following specimens: 000028, 000029, 205003.
18 May 2007	Foot management	Keeper trimmed back feet and manager trimmed nails.
23 May 2007	Medical note	Drew 8cc of blood from the left ear of each elephant and collected fecal samples from each. Soaked 000028's left front foot in warm water for 15min BID and WonderDusted BID. Manager trimmed out her nail. 000029 had clear discharge in her urine today.
		This comment was added to the following specimens: 000028, 000029, 205003.
24 May 2007	Foot management	Trimmed both front feet and back right foot.
5 Jun 2007	Medical treatment	Vet examined her back feet. Diagnosed fungus growth and we are now applying Monistat to back feet.
6 Jun 2007	Medical treatment	Flaking skin on inside of back feet. Applied Clotrimazole.
10 Jun 2007	Note	Loose, sandy stool found in stalls in AM. Observed 000029 defecating in PM, feces was not loose but very pungent.
		This comment was added to the following specimens: 000028, 000029, 205003.
14 Jun 2007	Foot management	Trimmed nails on front feet.
24 Jun 2007	Note	Found one pile of sandy feces in stall.
27 Jun 2007	Foot management	Trimmed front right nail and both back pads.
29 Jun 2007	Foot management	Rinsed her back feet in the PM and applied Clotrimazole.
30 Jun 2007	Foot management	Rinsed her back feet in the PM and applied Clotrimazole.
3 Jul 2007	Medical treatment	Vet: discontinue treatment on rear feet.
8 Jul 2007	Medical note	Collected urine samples for hyperprolactinemia study. Will collect urine 1x week for 1 year, start today. Several piles of sandy feces were found from overnight.
		This comment was added to the following specimens: 000028, 000029, 205003.
9 Jul 2007	Note	Had several piles of sandy feces throughout the day.
11 Jul 2007	Medical note	Collected 8cc blood from right ears. Spun down to collect serum for hyperprolactinemia study (along with urine samples taken 1x week for 1 year).
		This comment was added to the following specimens: 000028, 000029, 205003.
16 Jul 2007	Medical note	Collected urine sample for study.
18 Jul 2007	Medical note	8ccs blood taken from all three. Hydrotherapy done for 15 minutes BID on 000028.
		This comment was added to the following specimens: 000028, 000029, 205003.
22 Jul 2007	Medical note	Urine collected from all. 000028: Hydrotherapy done on her right side for 15 minutes BID. Soaked front left foot in warm water for 15 minutes SID.
		This comment was added to the following specimens: 000028, 000029, 205003.
24 Jul 2007	Behavior Note	After PM feeding, she laid down in the stall and only got back up when manager went over.
25 Jul 2007	Foot management	Pads on both back feet trimmed.
26 Jul 2007	Foot management	Did foot work on both back feet.
27 Jul 2007	Note	Found 3 piles of sandy feces in AM, not sure which animal.
		This comment was added to the following specimens: 000028, 000029, 205003.



29 Jul 2007	Note	One pile of sandy /rocky feces found from overnight. This comment was added to the following specimens: 000028, 000029, 205003.
30 Jul 2007	Note	Collected urine sample for study. This comment was added to the following specimens: 000029, 205003.
31 Jul 2007	Medical note	Drew 8cc of blood from left ear for banking. This comment was added to the following specimens: 000029, 205003.
8 Aug 2007	Exhibit	Shade structure was completed today including misting system. Elephants were locked out all day. This comment was added to the following specimens: 000028, 000029, 205003.
20 Aug 2007	Note	Collected urine samples for study. This comment was added to the following specimens: 000028, 000029, 205003.
23 Aug 2007	Foot management	Trimmed all 4 feet and manager worked on her nails in AM.
26 Aug 2007	Note	Urine samples collected for study. This comment was added to the following specimens: 000028, 000029, 205003.
29 Aug 2007	Medical note	8cc blood taken. This comment was added to the following specimens: 000028, 000029, 205003.
2 Sep 2007	Note	Ingested about 1 foot of red rubber hose in AM.
3 Sep 2007	Note	Found bits of chewed hose in feces in yard today.
5 Sep 2007	Medical note	8cc blood taken from each. Footwork done on both front feet of 000028 and all 4 feet of 000029. This comment was added to the following specimens: 000028, 000029, 205003.
11 Sep 2007	Note	Urine collected.
12 Sep 2007	Medical note	8cc blood taken from each. Soaked left front foot of 000028 in warm water for 15 minutes SID. This comment was added to the following specimens: 000028, 000029, 205003.
19 Sep 2007	Foot management	Manager trimmed on her right rear foot and her front left foot.
25 Sep 2007	Fecal check/worming	No pathogenic bacteria isolated from fecal samples. This comment was added to the following specimens: 000028, 000029, 205003.
26 Sep 2007	Note	Collecte blood from all three elephants. This comment was added to the following specimens: 000028, 000029, 205003.
2 Oct 2007	Medical treatment	Elephants received their annual vaccines. They each received 2 mls rabies IM and 1 ml EWT-WNV IM in the left semis. This comment was added to the following specimens: 000028, 000029, 205003.
5 Oct 2007	Foot management	Keeper trimmed on both of her front feet in the AM.
11 Oct 2007	Medical note	Drew 8cc of blood.
16 Oct 2007	Medical note	Collected 8cc blood from right ear to be banked. Collected urine sample for study. This comment was added to the following specimens: 000029, 205003.
23 Oct 2007	Exhibit	Doors 7 and 8 were painted today. Elephants spent morning in main yard. This comment was added to the following specimens: 000028, 000029, 205003.
24 Oct 2007	Medical note	Collected 8cc blood to bank from each elephant.



		This comment was added to the following specimens: 000028, 000029, 205003.
31 Oct 2007	Foot management	Manager and keeper trimmed on her back right foot.
2 Nov 2007	Foot management	Has flaps of skin on her back feet on the inside. Vet wants to culture it to see if it is fungal.
2 Nov 2007	Foot management	The skin around the bottom of elephant's back feet is flaking/peeling off, similar to earlier in the year. Plan to test skin for dermatophytes (fungus) with special agar. Do not treat skin with anything until after fungal culture completed (betadine, fungal cream, etc.).
6 Nov 2007	Medical note	Elephant was placed in ERD to facilitate sample collection. Flaking skin was collected from both the right and left hind foot and placed in dermatophyte testing agar to see if elephant has a fungal infection. Waiting on results of test before initiating any treatment.
7 Nov 2007	Medical note	8cc blood taken.
11 Nov 2007	Note	Collected urine from all three elephants for study.
		This comment was added to the following specimens: 000028, 000029, 205003.
13 Nov 2007	Diet	Discussion with elephant manager, vet and curators-give straw with hay to elephants as a weight reducer.
		This comment was added to the following specimens: 000028, 000029, 205003.
14 Nov 2007	Foot management	In AM, foot work done on both back feet.
14 Nov 2007	Medical note	Drew 8cc of blood from the right ear of all three elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.
18 Nov 2007	Note	Collected urine from all three elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.
20 Nov 2007	Diet	Elephant manager asked about feeding elephants straw to keep their weights down. Vet approved doing this.
		This comment was added to the following specimens: 000028, 000029, 205003.
21 Nov 2007	Medical note	Drew blood from each elephant.
		This comment was added to the following specimens: 000028, 000029, 205003.
21 Nov 2007	Medical note	Drew 8cc blood from each.
		This comment was added to the following specimens: 000028, 000029, 205003.
25 Nov 2007	Note	Collected urine from all elephants for study.
		This comment was added to the following specimens: 000028, 000029, 205003.
26 Nov 2007	Diet	Increasing straw amount from 1/4 bale to 1/2 bale each at night.
		This comment was added to the following specimens: 000028, 000029.
26 Nov 2007	Physical condition	Skin on inside of both back feet is flaking off. Skin underneath looks good. Will have vet recheck.
27 Nov 2007	Foot management	Manager trimmed on front right foot.
28 Nov 2007	Medical note	Collected 8cc blood.
4 Dec 2007	Medical observation	Rechecked feet of elephant. Condition has improved. Cultures taken on 11/6/07 were examined. No growth was observed.
9 Dec 2007	Note	Collected urine samples from each.
		This comment was added to the following specimens: 000028, 000029, 205003.
10 Dec 2007	Exhibit	Cleaned exhibit pool today.
		This comment was added to the following specimens: 000028, 000029, 205003.
12 Dec 2007	Medical note	Drew 8cc blood from right ear of each.



		This comment was added to the following specimens: 000028, 000029, 205003.
14 Dec 2007	Foot management	Keeper trimmed on both front feet today.
16 Dec 2007	Note	Urine collected.
18 Dec 2007	Medical treatment	Vet approved use of Keratex hoof hardener on the elephants' nails. Brush on nail SID for one week, then twice weekly UFN. Do not get the liquid on skin (human or elephant). Allow to dry before letting elephants have access to their feet with their trunks.
		This comment was added to the following specimens: 000028, 000029, 205003.
19 Dec 2007	Medical treatment	Applied Keratex to all of their toenails and used a blowdryer to dry the front toenails.
		This comment was added to the following specimens: 000029, 205003.
20 Dec 2007	Foot management	Applied Karatex to the nails on all 4 feet.
21 Dec 2007	Foot management	Cleaned feet and applied Karatex to the edge of the nail on all four feet.
23 Dec 2007	Note	Collected urine.
26 Dec 2007	Note	Collected 8cc blood.
26 Dec 2007	Medical treatment	Discontinue applying keratex everyday, as has been done over the past week. UFN it will be applied twice a week on Sunday and Wednesday.
		This comment was added to the following specimens: 000029, 205003.
2 Jan 2008	Note	Collected urine from each.
		This comment was added to the following specimens: 000028, 000029, 205003.
3 Jan 2008	Medical treatment	Cleaned feet and applied Karatex to the edge of the nail on all four feet.
7 Jan 2008	Note	Collected urine sample for study.
8 Jan 2008	Foot management	Filed nails and trimmed pads on both back feet.
9 Jan 2008	Foot management	Trimmed both back feet.
13 Jan 2008	Note	Collected urine from all three elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.
16 Jan 2008	Medical treatment	Applied Karetex along bottom edge of nails on all four feet. Dried nails on front feet with hair drier.
		This comment was added to the following specimens: 000029, 205003.
20 Jan 2008	Note	Collected urine from all elephants for study.
		This comment was added to the following specimens: 000028, 000029, 205003.
20 Jan 2008	Medical treatment	Applied Keratex to all four feet.
		This comment was added to the following specimens: 000029, 205003.
22 Jan 2008	Foot management	Manager did footwork.
23 Jan 2008	Medical note	Collected 8cc of blood for study/bank.
27 Jan 2008	Note	Collected urine for study.
		This comment was added to the following specimens: 000028, 000029, 205003.
30 Jan 2008	Medical note	Drew 8cc blood.
7 Feb 2008	Medical note	Drew 8cc blood from her right ear.
7 Feb 2008	Note	Collected urine from all elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.
11 Feb 2008	Note	Collected urine samples.
12 Feb 2008	Medical observation	Lateral and A/P radiograph views of all four feet taken. (LDR)



13 Feb 2008	Medical note	Drew 8cc blood from each. This comment was added to the following specimens: 000029, 205003.
17 Feb 2008	Note	Collected urine from all three. This comment was added to the following specimens: 000028, 000029, 205003.
19 Feb 2008	Foot management	Did follow up trimming on all four feet.
20 Feb 2008	Medical note	Collected 8cc blood.
24 Feb 2008	Note	Collected urine sample.
27 Feb 2008	Medical note	Collected 8cc blood. This comment was added to the following specimens: 000028, 000029, 205003.
7 Mar 2008	Note	Grain withheld due in AM due to not laying down. In PM, during radio interview, she grabbed an umbrella and ate the nylon off.
8 Mar 2008	Note	One pile of lightly sandy feces.
9 Mar 2008	Note	Collected urine sample.
16 Mar 2008	Note	Collected urine.
19 Mar 2008	Medical note	Collected 8ccs blood.
31 Mar 2008	Note	Collected urine sample.
6 Apr 2008	Note	Collected urine.
7 Apr 2008	Foot management	Trimmed both back feet and started to trim on front left foot.
7 Apr 2008	Diet	Began 3-day hay consumption evaluation for nutrition study at PM feeding. This comment was added to the following specimens: 000028, 000029, 205003.
8 Apr 2008	Aggression	000028 chased 000029 to far end of yard. 000029 stretched and 000028 pushed her through the hotwire into perimeter fence. 000029 had tusk marks on back in a few places. Elephants were separated and 000029 was treated with Betadine and warm water on scrapes, then chlorhexadine cream was applied. Observed 000028 checking urine and vulva from 205003 and placing trunk on her vomeronasal gland. This comment was added to the following specimens: 000028, 000029, 205003.
8 Apr 2008	Medical observation	Elephant sustained full thickness abrasions through to the dermal layer on the caudal aspect of her back during an altercation with her herdmate. Also appears to be a possible puncture through the epidermis high along her right hip.
8 Apr 2008	Medical treatment	Wounds were cleaned with betadine solution and warm water before application of chlorhexidine ointment TO: Continue application of chlorhexidine ointment SID UFN. (LDR) Rx: CHLORHEXIDINE OINTMENT ad lib gm topically SID until further notice. (KIZ1109) (JS)
9 Apr 2008	Medical note	8cc blood taken from 000028 and 205003. 4cc taken from 000029. This comment was added to the following specimens: 000028, 000029, 205003.
9 Apr 2008	Behavior Note	000029 came to the door and stuck trunk in 1 time, but never came inside. 000029 was displaced by 000028 through bars in AM. This comment was added to the following specimens: 000029, 205003.
10 Apr 2008	Medical treatment	Hosed off back in ERD. Used gauze to wipe off wounds then applied chlorhexadine cream.
10 Apr 2008	Behavior Note	000029 and 205003 had main yard while 000028 was in holding yard. Fed all 3 in runway together. Much more relaxed today. 000028 and 000029 took turns stealing bamboo from each other. This comment was added to the following specimens: 000028, 000029, 205003.
11 Apr 2008	Medical observation	Wounds are healing on elephant's back and hip. Continue current treatment until wounds have completely healed. (LDR)



11 Apr 2008	Physical condition	Wound healing on hip and back. Continue current treatment until wounds heal completely.
12 Apr 2008	Medical treatment	Wounds were cleaned with betadine solution and warm water before application of chlorhexidine ointment TO.
12 Apr 2008	Behavior Note	000029 displaced 000028 over hay through bars in AM. 000029 building confidence and was near 000028 85% of the day. This comment was added to the following specimens: 000028, 000029.
13 Apr 2008	Foot management	Treated frong left foot while in ERD. Back appears to be drying up.
13 Apr 2008	Behavior Note	000029 was displacing 000028 over hay and displaced 205003 at AM and PM grain. This comment was added to the following specimens: 000028, 000029, 205003.
14 Apr 2008	Medical observation	Rechecked wounds on back. Healing well. Have scabbed over nicely. Discontinue chlorhexidine ointment treatment.
14 Apr 2008	Introduction Note	Put 000028 and 205003 together in barn (stalls 1,2,3 and ERD - to make a loop) for first time since 8 April. 000028 mildly displaced 205003 with trunk over the back of 205003 (went well). 000029 into ERD and stretched without problems. Overnight: 000028 in stall 4, 000029 in stalls 2,3 (middle) and 205003 in stall 1. 000029 and 205003 greeted 000028 at door 8 when 000029 let out to holding yard. This comment was added to the following specimens: 000028, 000029, 205003.
15 Apr 2008	Medical treatment	Treated the wounds on back with chlorhexidine.
15 Apr 2008	Introduction Note	Put 000029 and 205003 together again inside in the AM with all doors and ERD opened (went well). 000028 was in the holding yard today. The elephants were fed on the runway and were seen eating together several times throughout the day. This comment was added to the following specimens: 000028, 000029, 205003.
16 Apr 2008	Introduction Note	Put 000028 and 000029 together in AM for 1 hour. 000029 displaced 000028 a few times over food. 000029 and 205003 spent the day in the main yard with 000028 in the holding yard. They were fed on the runway and were seen eating together several times throughout the day. This comment was added to the following specimens: 000028, 000029, 205003.
16 Apr 2008	Medical note	Collected 8cc blood from each.
17 Apr 2008	Introduction Note	This comment was added to the following specimens: 000028, 000029, 205003. 000028 and 000029 were put together in teh holding yard and had access to the building. 000029 was unsure at first but they both calmed down quickly. Will continue watching them during the day while they are together. At 2:30pm, put 000028 in main yard with 000029 and 205003 in holding until closing. 000028 locked into stall 4 overnight. 000029 and 205003 given access to holding yard, and stalls 1,2 and 3. This comment was added to the following specimens: 000028, 000029, 205003.
18 Apr 2008	Introduction Note	000029 still very unsure of herself. 000028 and 000029 in together in building and holding yard until 1:30pm. Put together with food piled in holding yard. 000029 dominant at first but went back and forth submitting to each other. Settled down by afternoon. This comment was added to the following specimens: 000028, 000029, 205003.
20 Apr 2008	Introduction Note	000028 took hay from 000029 in AM while in seperate stalls. In AM, put 000028 and 205003 in main yard. 000029 was in holding yard and stalls 1 and 2. In the afternoon, locked 000029 in stall 2 and brought 000028 into stall 1. Opened up ERD to make loop inside and gave them access to holding yard. Once door between 000029 and 000028 was opened, 000029 went outside immediately and stretched out in the holding yard. 000028 followed her out and began pushing and shoving 000029 into fence. After about 5-10 minutes, let 205003 out into holding yard with other two. She acted as a buffer and 000028 began to settle down and elephant manager called her over and fed her produce and alfalfa. All



the elephants begin to calm down but 000028 continued to position herself so 000029 couldn't leave the holding yard. After about 20-30 minutes, brought all three inside to their own stall. 000029 and 000028 were next to each other. They were observed eating hay next to each other at the bars.

This comment was added to the following specimens: 000028, 000029, 205003.

21 Apr 2008 Physical condition
21 Apr 2008 Introduction Note

Had small superficial scrape on right side from 000028 on 20 April 2008
000029 and 205003 in main yard. 000028 in holding yard and stall #1. 000029 went to far end of main yard when let out. Observed 000029 and 000028 eating and gate 8. When brought inside 000028 in stall 4 and 000028 and 205003 submitted to 000028 twice (put her rear end to her).

This comment was added to the following specimens: 000028, 000029, 205003.

26 Apr 2008 Behavior Note

000029 very unsure of herself in PM. 000029 and 205003 were in runway with 000028 in holding yard. 000029 ran inside to get away.

This comment was added to the following specimens: 000028, 000029, 205003.

27 Apr 2008 Behavior Note

000029 and 205003 were in the main yard and runway. 000028 was in holding yard. They were fed on the runway and were seen eating together throughout the day. In the PM, 205003 was in stall 4 and 000029 was reaching through the ERD with her trunk and hit it with her head and put her foot on the side.

This comment was added to the following specimens: 000028, 000029, 205003.

28 Apr 2008 Behavior Note

In AM, 000028 put on long leg chain connected to a longer chain in the holding yard to give her more movement. All 3 elephants were put together in holding yard. 000029 spent the day in holding yard and 000028 and 205003 were in the main yard and the runway. They were seen eating together several times throughout the day.

This comment was added to the following specimens: 000028, 000029, 205003.

29 Apr 2008 Note

Collected urine.

29 Apr 2008 Behavior Note

In AM, 000028 was on a leg chain in the holding yard with 000029 and 205003. 000028 spent the day in the holding yard. 205003 and 000029 had the main yard and the runway. They were eating together several times throughout the day. While 000028 was in the ERD for her PM treatment, 000029 was reaching through with trunk and hit the ERD twice with head.

This comment was added to the following specimens: 000028, 000029, 205003.

30 Apr 2008 Medical note

Collected blood from all three elephants.

This comment was added to the following specimens: 000028, 000029, 205003.

30 Apr 2008 Behavior Note

In AM, 000028 was put on a leg chain in holding yard with 000029 and 205003. 000029 and 000028 went for a pad of hay, 000029 was scared of 000028 and stretched, 000028 stood over 000029 but did nothing else. 000029 and 205003 spent the day in the holding yard, 000028 had the runway and 3 stalls in the building. All observed eating together throughout the day.

This comment was added to the following specimens: 000028, 000029, 205003.

1 May 2008 Behavior Note

When elephants were brought in from holding yard in AM. 000029 did not want to walk past 000028. Leg chain on 000028 shortened so there was plenty of room to get by without touching. 000029 still did not want to walk past. Rope placed on front foot of 000029, then walked up to door 7 and came through it when opened with no problems.

This comment was added to the following specimens: 000028, 000029, 205003.

5 May 2008 Note

Collected urine.

7 May 2008 Medical note

Took 8cc blood.

This comment was added to the following specimens: 000028, 000029, 205003.

9 May 2008 Foot management

Keeper trimmed both front feet and worked on nails.



11 May 2008	Note	Collected urine.
14 May 2008	Foot management	Keeper trimmed back right foot in stall 3, in AM.
26 May 2008	Note	Collected urine from both.
		This comment was added to the following specimens: 000028, 000029.
28 May 2008	Medical note	Drew 8cc blood from all elephants today.
		This comment was added to the following specimens: 000028, 000029, 205003.
30 May 2008	Foot management	Footwork done on both back feet.
2 Jun 2008	Foot management	Filed nails on both back feet.
3 Jun 2008	Foot management	Footwork done on both rear feet. Nails filed as well.
8 Jun 2008	Note	Urine collected from all elephants today.
		This comment was added to the following specimens: 000028, 000029, 205003.
11 Jun 2008	Medical note	8cc blood collected from all elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.
12 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
13 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
13 Jun 2008	Medical observation	Keepers reported elephant had a cracked area of skin on her trunk near her mouth. Examined. Area is healing and no longer red. No treatment unless it gets worse, then apply triple antibiotic ointment TO ad lib SID. Also examined edema on elephant's right side ventrum. Treat with hydrotherapy and DMSO topical spray application SID UFN. (LDR)
14 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
15 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
16 Jun 2008	Note	Collected urine.
16 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
17 Jun 2008	Medical treatment	Hydrotherapy for 10 minutes on right side edema and applied DMSO in PM.
18 Jun 2008	Medical note	8cc blood taken.
		This comment was added to the following specimens: 000028, 000029, 205003.
20 Jun 2008	Medical observation	Rechecked edema; has resolved. Discontinue treatment. (LDR)
25 Jun 2008	Medical note	Collected 8cc blood from each.
		This comment was added to the following specimens: 000028, 000029, 205003.
29 Jun 2008	Note	Collected urine today.
3 Jul 2008	Introduction Note	Put together off chains in holding yard. 000029 ran once, 000028 hovered over her, but didn't engage. First day of using hotwire barrier in the yard. 000029 backed up to it where 000028 was standing.
		This comment was added to the following specimens: 000028, 000029.
3 Jul 2008	Introduction Note	Put together off chains in holding yard. 000029 ran once, 000028 hovered over her, but didn't engage. First day of using hotwire barrier in the yard. 000029 backed up to it where 000028 was standing.
		This comment was added to the following specimens: 000028, 000029.
10 Jul 2008	Medical note	Collected 8cc blood from each.
		This comment was added to the following specimens: 000028, 000029, 205003.
24 Jul 2008	Medical note	Blood taken from all 3 elephants.
		This comment was added to the following specimens: 000028, 000029, 205003.



29 Jul 2008	Foot management	Footwork on both back and front right feet.
31 Jul 2008	Foot management	Keeper did footwork on back right foot today.
6 Aug 2008	Medical note	Collected 16cc blood for serum research project.
6 Aug 2008	Note	This comment was added to the following specimens: 000028, 000029, 205003. Collected 100mL urine for research project.
8 Aug 2008	Foot management	This comment was added to the following specimens: 000028, 000029. Footwork done.
13 Aug 2008	Medical note	8cc blood taken.
19 Aug 2008	Medical note	Drew 8cc blood from each.
		This comment was added to the following specimens: 000028, 000029, 205003.

ELEMEDHX

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

.....2007...

- 2.Apr Clinical note recorded. (LDR)
- 3.Apr PROBLEM: annual tb trunk washes (onset)
Clinical note recorded. (LDR)
- 5.Apr Clinical note recorded. (LDR)
- 6.Apr Clinical note recorded. (LDR)
- 10.Apr PROBLEM: annual tb trunk washes (resolved)
Clinical note recorded. (LDR)

- 2.May Clinical note recorded. (LDR)
- 9.May Clinical note recorded. (LDR)
- 23.May Clinical note recorded. (LDR)

- 5.Jun Rx: CLOTRIMAZOLE ad libmg topically SID for 29 days.
Clinical note recorded. (JS)
Clinical note recorded. (LDR)
- 6.Jun Clinical note recorded. (LDR)
- 10.Jun Clinical note recorded. (LDR)
- 11.Jun Clinical note recorded. (LDR)
- 24.Jun Clinical note recorded. (LDR)
- 26.Jun Clinical note recorded. (LDR)

- 3.Jul Clinical note recorded. (LDR)
- 8.Jul Clinical note recorded. (LDR)
- 10.Jul Weight: 4524 Kg (9971 Lb)
- 11.Jul Clinical note recorded. (LDR)
- 16.Jul Clinical note recorded. (LDR)
- 22.Jul Clinical note recorded. (LDR)
- 27.Jul Clinical note recorded. (LDR)
- 30.Jul Clinical note recorded. (LDR)
- 31.Jul Clinical note recorded. (LDR)

- 5.Aug Clinical note recorded. (LDR)
- 17.Aug Clinical note recorded. (LDR)
- 18.Aug Clinical note recorded. (LDR)
- 20.Aug Clinical note recorded. (LDR)
- 26.Aug Clinical note recorded. (LDR)
- 29.Aug Clinical note recorded. (LDR)

- 2.Sep Clinical note recorded. (LDR)
- 3.Sep Clinical note recorded. (LDR)
- 5.Sep Clinical note recorded. (LDR)
- 11.Sep Clinical note recorded. (LDR)

12.Sep Clinical note recorded. (LDR)
26.Sep Clinical note recorded. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 2 -

Medical History Report - Summary for Individual Specimen
VIRGINIA ZOOLOGICAL PARK

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

.....2007...

2.Oct Vaccination: IMRAB 2ml IM q365d
EWT-WNV COMBO 2ml IM q365d

Clinical note recorded. (JS)
Clinical note recorded. (LDR)

11.Oct Clinical note recorded. (LDR)
16.Oct Clinical note recorded. (LDR)
24.Oct Clinical note recorded. (LDR)

2.Nov Clinical note recorded. (LDR)
6.Nov Clinical note recorded. (LDR)
7.Nov Clinical note recorded. (LDR)
11.Nov Clinical note recorded. (LDR)
13.Nov Clinical note recorded. (LDR)
14.Nov Clinical note recorded. (LDR)
18.Nov Clinical note recorded. (LDR)
20.Nov Clinical note recorded. (LDR)
26.Nov Clinical note recorded. (LDR)
28.Nov Clinical note recorded. (LDR)

4.Dec Clinical note recorded. (LDR)
12.Dec Clinical note recorded. (LDR)
16.Dec Clinical note recorded. (LDR)
18.Dec Clinical note recorded. (LDR)
19.Dec Purpose/Problem: harden nails

Rx: KERATEX HOOF HARDENER ad libml topically SID for 7 days.
Clinical note recorded. (JS)
Clinical note recorded. (LDR)

23.Dec Clinical note recorded. (LDR)

26.Dec Purpose/Problem: harden nails

Rx: KERATEX HOOF HARDENER ad libml topically q72h until further notice.

Clinical note recorded. (JS)
Clinical note recorded. (LDR)

.....2008...

- 2.Jan Clinical note recorded. (LDR)
- 7.Jan Clinical note recorded. (LDR)
- 13.Jan Clinical note recorded. (LDR)
- 19.Jan Clinical note recorded. (LDR)
- 23.Jan Clinical note recorded. (LDR)
- 27.Jan Clinical note recorded. (LDR)
- 30.Jan Clinical note recorded. (LDR)

7.Feb Clinical note recorded. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 3 -

Medical History Report - Summary for Individual Specimen
 VIRGINIA ZOOLOGICAL PARK

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

.....2008...

- 11.Feb Clinical note recorded. (LDR)
- 12.Feb Clinical note recorded. (LDR)
- 13.Feb Clinical note recorded. (LDR)
- 17.Feb Clinical note recorded. (LDR)
- 21.Feb Clinical note recorded. (LDR)
- 24.Feb Clinical note recorded. (LDR)
- 27.Feb Clinical note recorded. (LDR)

- 7.Mar Clinical note recorded. (LDR)
- 9.Mar Clinical note recorded. (LDR)
- 10.Mar Clinical note recorded. (LDR)
- 16.Mar Clinical note recorded. (LDR)
- 19.Mar Clinical note recorded. (LDR)
- 24.Mar Clinical note recorded. (LDR)
- 31.Mar Clinical note recorded. (LDR)

- 8.Apr Rx: CHLORHEXIDINE OINTMENT ad libgm topically SID for 8 days.
 Clinical note recorded. (JS)
 Clinical note recorded. (LDR)
- 9.Apr Clinical note recorded. (LDR)
- 11.Apr Clinical note recorded. (LDR)
- 15.Apr Clinical note recorded. (LDR)
- 30.Apr

Weight: 4501 Kg (9920 Lb)

ELEMEDHX

5.May Clinical note recorded. (LDR)
7.May Clinical note recorded. (LDR)
11.May Clinical note recorded. (LDR)
25.May Clinical note recorded. (LDR)
28.May Clinical note recorded. (LDR)

8.Jun Clinical note recorded. (LDR)
11.Jun Clinical note recorded. (LDR)
13.Jun Clinical note recorded. (LDR)
16.Jun Clinical note recorded. (LDR)
18.Jun Clinical note recorded. (LDR)
20.Jun Clinical note recorded. (LDR)
25.Jun Clinical note recorded. (LDR)
29.Jun Clinical note recorded. (LDR)

10.Jul Clinical note recorded. (LDR)
22.Jul Clinical note recorded. (LDR)
24.Jul Clinical note recorded. (LDR)

6.Aug Clinical note recorded. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 4 -

Medical History Report - Summary for Individual Specimen
VIRGINIA ZOOLOGICAL PARK

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

.....2008...

19.Aug Clinical note recorded. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 1 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 2.Apr.2007
4 piles of sandy feces from overnight in stall. (LDR)

Clinical Note: 3.Apr.2007
Problem: annual tb trunk washes
First TB trunk wash was collected today. 60 mls sterile sodium chloride was introduced into the trunk, and then collected as it drained out. 50 mls was placed into a sample vial and frozen; all 3

ELEMEDHX

samples will be sent to National Veterinary Services Laboratory when TB trunk washes completed.

First TB trunk wash was collected today. 60 mls sterile sodium chloride was introduced into the trunk, and then collected as it drained out. 50 mls was placed into a sample vial and frozen; all 3 samples will be sent to National Veterinary Services Laboratory when TB trunk washes completed. (LDR)

Clinical Note: 5.Apr.2007
Problem: annual tb trunk washes
Observed to be slightly lethargic. Keepers gave Equisyl PO in the evening. (LDR)

Clinical Note: 6.Apr.2007
Problem: annual tb trunk washes
Second TB trunk wash was collected today. (LDR)

Clinical Note: 10.Apr.2007
Problem: annual tb trunk washes
Third TB trunk wash was collected today. (LDR)

Clinical Note: 2.May.2007
8 mls of blood collected from ear to be banked. (LDR)

Clinical Note: 9.May.2007
8 mls blood collected from ear for banking. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 2 -

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

ELEMEDHX
23.May.2007

Clinical Note:

8 mls of blood was drawn from left ear of elephant. Samples banked.
Clear discharge observed in urine today. (LDR)

Clinical Note:

5.Jun.2007

Rx: CLOTRIMAZOLE ad lib mg topically SID until further notice. (JS)

Clinical Note:

5.Jun.2007

Elephant has loosening and flaking of the skin on the medial sides of her back legs. Treat this as if it is fungal, using an ad lib amount of clotrimazole on the affected areas. Rub the clotrimazole in well SID UFN (at least one month). (LDR)

Prescription Data >>

Starting date: 5.Jun.2007

Drug: CLOTRIMAZOLE ad lib mg topically SID for 29 days

Formulation: 10.0 mg/gm cream

Prescribed by: JS (5.Jun.2007)

Filled by: LDR (5.Jun.2007)

Treatment weight: 4475 kg

Comments >>

Topical treatment: Apply to inside of back feet

Originally prescribed until further notice.

Discontinued on 3.Jul.2007

Daily Treatment Notes >>

Date	Time	Success	By	Comments
5.Jun.2007	:	100%	DM	
6.Jun.2007	:	100%	DM	
7.Jun.2007	:	100%	DM	
8.Jun.2007	:	100%	DM	
9.Jun.2007	:	100%	DM	
10.Jun.2007	:	100%	DM	
11.Jun.2007	:	100%	DM	
12.Jun.2007	:	100%	DM	
13.Jun.2007	:	100%	DM	

ELEMEDHX

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 6.Jun.2007

BACTERIOLOGY RESULTS FOR FECAL CULTURE:

Completed: 5-30-07/1:41p

AEROBIC CULTURE 5-30-07/1:41P

SAMPLE	ORGANISM
Feces	No pathogenic bacteria isolated

SALMONELLA CULTURE 5-30-07/1:41p Negative (LDR)

Clinical Note: 10.Jun.2007

Loose sandy feces found in stalls in am. Observed #000029 defecating in pm, feces were not loose, but very pungent. (LDR)

Clinical Note: 11.Jun.2007

Feces all appeared normal today. (LDR)

Clinical Note: 24.Jun.2007

One pile of sandy feces found in her stall. (LDR)

ELEMEDHX

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 4 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 26.Jun.2007
TRUNK WASH RESULTS FROM NATIONAL VETERINARY SERVICES LABORATORIES:

NVSL ID	CASE #	SAMPLE ID	ANIMAL ID
1674248	0708189	1/4-3-7	MONICA 000029
		Mycobacteria Isolation -	
		Diagnosis: No isolation made	
		Specimen submitted: Trunk Wash	
1674249	0708170	1/4-6-07	MONICA 000029
		Mycobacteria Isolation	
		Diagnosis: No isolation made	
		Specimen submitted: trunk wash	
1674250	0708171	1/4-10-07	MONICA 000029
		Mycobacteria Isolation	
		Diagnosis: No isolation made	
		Specimen submitted: trunk wash	

DISTRIBUTION	Approved by: Janet Payeur
Submitter	National Veterinary Services
6/25/07	Laboratories (LDR)

Clinical Note: 3.Jul.2007
Rechecked the skin on the medial sides of her hind feet. Suspected fungal infection is clearing up. Can discontinue clotrimazole antifungal treatment. (LDR)

ELEMEDHX

Clinical Note: 8.Jul.2007
Collected urine samples for hyperprolactinemia study. Urine will be collected once a week for one year, with a start date of 7/8/07. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 5 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 11.Jul.2007
8 mls blood was taken from the right ear and spun down to collect serum for the hyperprolactemia study (collecting urine samples as well). (LDR)

Clinical Note: 16.Jul.2007
Urine sample collected for study. (LDR)

Clinical Note: 22.Jul.2007
Urine collected for study. (LDR)

Clinical Note: 27.Jul.2007
Found three piles of sandy feces in the morning. Not sure which elephant defecated this. (LDR)

Clinical Note: 30.Jul.2007
Urine samples collected for study. (LDR)

Clinical Note: 31.Jul.2007
8 mls blood was drawn from elephant's left ear for banking serum, (LDR)

ELEMEDHX

Clinical Note: 5.Aug.2007
Urine sample collected for study. (LDR)

Clinical Note: 17.Aug.2007
Fecal cultures submitted for routine culture. (LDR)

Clinical Note: 18.Aug.2007
Two piles of sandy feces observed. (LDR)

Clinical Note: 20.Aug.2007
Urine samples collected for study. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 6 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 26.Aug.2007
Urine samples collected for study. (LDR)

Clinical Note: 29.Aug.2007
8 mls of blood withdrawn from ear. (LDR)

Clinical Note: 2.Sep.2007
Elephant ingested about 1 foot of red rubber hose. (LDR)

Clinical Note: 3.Sep.2007
Found several sections of chewed fire hose in feces. (LDR)

Clinical Note: ELEMEDHX
8 mls blood taken from ear for study. (LDR) 5.Sep.2007

Clinical Note: 11.Sep.2007
Urine collected for study. (LDR)

Clinical Note: 12.Sep.2007
8 mls blood collected from ear for study. (LDR)

Clinical Note: 26.Sep.2007
BACTERIOLOGY FECAL CULTURE, IVOR REGIONAL LAB:
Accession: 24452-07 Sample: Feces
Completed: 8-31-2007/9:20a

AEROBIC CULTURE: No pathogenic bacteria isolated.

SALMONELLA CULTURE: Negative (LDR)

Clinical Note: 2.Oct.2007
Rx: IMRAB 2 ml IM q365d for 1 day.
Rx: EWT-WNV COMBO VACCINE 2 ml IM q365d for 1 day. (JS)

Printed on: 27.Aug.2008 /ISIS/MedARKS/5.53.a

- page 7 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 2.Oct.2007
Annual vaccinations given. Received 2 mls rabies IM and 2 mls EWT-WNV
IM once in left semis. (LDR)

Prescription Data >>

Starting date: 2.Oct.2007
Page 79

ELEMEDHX

Drug: IMRAB 2 ml IM q365d
Formulation: injectable
Prescribed by: JS (2.Oct.2007) Filled by: JS (2.Oct.2007)
Treatment weight: 4524 kg
Retreatment scheduled for 1.Oct.2008

Prescription Data >> Starting date: 2.Oct.2007
Drug: EWT-WNV COMBO 2 ml IM q365d
Formulation: injectable
Prescribed by: JS (2.Oct.2007) Filled by: JS (2.Oct.2007)
Treatment weight: 4524 kg
Retreatment scheduled for 1.Oct.2008

Clinical Note: 11.Oct.2007
Drew 8 mls blood from ear vein. (LDR)

Clinical Note: 16.Oct.2007
Collected 8 mls blood from right ear for banking.
Collected urine sample for study. (LDR)

Clinical Note: 24.Oct.2007
8 mls of blood collected to bank. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 8 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====

ELEMEDHX

=====

Clinical Note: 2.Nov.2007
The skin around the bottom of elephant's back feet is flaking/peeling off, similar to earlier in the year. Plan to test skin for dermatophytes (fungus) with special agar. Do not treat skin with anything until after fungal culture completed (betadine, fungal cream, etc.). (LDR)

Clinical Note: 6.Nov.2007
Elephant was placed in ERD to facilitate sample collection. Flaking skin was collected from both the right and left hind foot and placed in dermatophyte testing agar to see if elephant has a fungal infection. Waiting on results of test before initiating any treatment. (LDR)

Clinical Note: 7.Nov.2007
8 mls blood collected for banking. (LDR)

Clinical Note: 11.Nov.2007
Urine collected for study. (LDR)

Clinical Note: 13.Nov.2007
Discussion with elephant manager, veterinarian, and curators: Start giving straw with hay to the elephants as a weight reducer. (LDR)

Clinical Note: 14.Nov.2007
8 mls of blood withdrawn from the right ear for banking. (LDR)

Clinical Note: 18.Nov.2007
Urine collected for study. (LDR)

Clinical Note: 20.Nov.2007
Elephant manager asked about feeding elephants straw to keep their weights down. Vet approved doing this. (LDR)

ELEMEDHX

- page 9 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 26.Nov.2007
Skin on medial aspect of both hind feet is flaking off. Skin underneath appears within normal limits.
Increased straw amount fed to elephant from 1/4 bale to 1/2 bale per night.
Collected urine for study. (LDR)

Clinical Note: 28.Nov.2007
8 mls blood collected from ear for banking. (LDR)

Clinical Note: 4.Dec.2007
Rechecked feet of elephant. Condition has improved. Cultures taken on 11/6/07 were examined. No growth was observed. (LDR)

Clinical Note: 12.Dec.2007
8 mls of blood drawn from right ear for banking. (LDR)

Clinical Note: 16.Dec.2007
Collected urine for study. (LDR)

Clinical Note: 18.Dec.2007
Approved use of Keratex hoof hardener on the elephants' nails. Brush on nail SID for one week, then twice weekly UFN. Do not get the liquid on skin (human or elephant). Allow to dry before letting elephants have access to their feet with their trunks. (LDR)

Clinical Note: 19.Dec.2007
Rx: KERATEX HOOF HARDENER ad lib ml topically SID for 7 days. (JS)

Clinical Note: 19.Dec.2007
Began application of keratex to all toenails today. Blowdryer was used to dry the front toenails. (LDR)

ELEMEDHX

Purpose: harden nails

Prescription Data >> Starting date: 26.Dec.2007

Drug: KERATEX HOOF HARDENER ad lib ml topically q72h until further notice

Formulation: liquid

Prescribed by: JS (18.Dec.2007) Filled by: LDR (18.Dec.2007)

Treatment weight: 4524 kg

Comments >>

Topical treatment: Apply to nails

KERATEX HOOF HARDENER = FORMALIN + AMMONIUM CHLORIDE

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 11 -

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

Clinical Note: 2.Jan.2008
Urine collected for study. (LDR)

Clinical Note: 7.Jan.2008
Urine collected for study. (LDR)

Clinical Note: 13.Jan.2008
Collected urine for study. (LDR)

Clinical Note: 19.Jan.2008
Urine collected for study. (LDR)

Clinical Note: 23.Jan.2008
8 mls blood collected for study and to bank. (LDR)

Clinical Note: 27.Jan.2008
Urine collected for study. (LDR)

ELEMEDHX

Clinical Note: 30.Jan.2008
BACTERIOLOGY FECAL AEROBIC CULTURE RESULTS: No pathogenic bacteria isolated. No Salmonella or pathogenic E coli were isolated.

Completed: 1-24-08/9:29a

8 mls blood from ear vein. (LDR)

Clinical Note: 7.Feb.2008
8 mls blood drawn from right ear.
Collected urine for research study. (LDR)

Clinical Note: 11.Feb.2008
Urine collected for study. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 12 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 12.Feb.2008
Lateral and A/P views of all four feet taken. (LDR)

Clinical Note: 13.Feb.2008
8 mls blood drawn from ear. (LDR)

Clinical Note: 17.Feb.2008
Urine collected for research study. (LDR)

Clinical Note: 21.Feb.2008
8 mls blood collected for banking. (LDR)

ELEMEDHX

Clinical Note: 24.Feb.2008
Urine sample collected for study. (LDR)

Clinical Note: 27.Feb.2008
8 mls blood drawn from ear for banking. (LDR)

Clinical Note: 7.Mar.2008
Approved "elephant cake" to be given as treats to elephants.
Elephant cake ingrediants:
3 cups mashed banana
4 raw eggs
1/2 cup linatone
4 cubs Herbivore chow dust
3 cups diced apples
2 TBS baking powder
2 tsp baking soda
1 cup nuts
1 cup raisins
1/4 cup honey * optional: may replace honey with yogurt or molasses. (LDR)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 13 -

=====
=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 35Y 1M 0D	Birth: 28.Jul.1973
Name: MONICA		

=====
=====

Clinical Note: 9.Mar.2008
Urine samples collected for study. (LDR)

Clinical Note: 10.Mar.2008
Page 86

ELEMEDHX

Clear vaginal discharge observed. (LDR)

Clinical Note: 16.Mar.2008
Urine sample collected for study. (LDR)

Clinical Note: 19.Mar.2008
Collected 8 mls blood from elephant. (LDR)

Clinical Note: 24.Mar.2008
Urine sample collected for study. (LDR)

Clinical Note: 31.Mar.2008
Collected urine sample for study. (LDR)

Clinical Note: 8.Apr.2008
Rx: CHLORHEXIDINE OINTMENT ad lib gm topically SID until further notice. (KIZ1109) (JS)

Clinical Note: 8.Apr.2008
Elephant sustained full thickness abrasions through to the dermal layer on the caudal aspect of her back during an altercation with her herdmate. Also appears to be a possible puncture through the epidermis high along her right hip. Wounds were cleaned with betadine solution and warm water before application of chlorhexidine ointment TO. Continue application of chlorhexidine ointment SID UFN. (LDR)

Prescription Data >> Starting date: 8.Apr.2008
Drug: CHLORHEXIDINE OINTMENT ad lib gm topically SID for 8 days
Formulation: ointment Bottle/Lot #: KIZ1109
Prescribed by: JS (8.Apr.2008) Filled by: LDR (8.Apr.2008)
Treatment weight: 4524 kg

Comments >>

Printed on: 27.Aug.2008 /ISIS/MedARKS/5.53.a

- page 14 -

Medical History Report - Individual Specimen
VIRGINIA ZOOLOGICAL PARK

=====
=====

ELEMEDHX

LOXODONTA AFRICANA AFRICANA Sex: Female Acc. #: 000029
South African bush elephant Age: 35Y 1M 0D Birth: 28.Jul.1973
Name: MONICA

=====

Prescription Record (continued):

Topical treatment: Apply to wounds along back

Originally prescribed until further notice.
Discontinued on 15.Apr.2008

Clinical Note: 9.Apr.2008
4 mls blood withdrawn for study. (LDR)

Clinical Note: 11.Apr.2008
Wounds are healing on elephant's back and hip. Continue current
treatment until wounds have completely healed. (LDR)

Clinical Note: 15.Apr.2008
Rechecked wounds on back. Healing well. Have scabbed over nicely.
Discontinue chlorhexidine ointment treatment. (LDR)

Clinical Note: 5.May.2008
Urine collected for study. (LDR)

Clinical Note: 7.May.2008
8 mls of blood collected. (LDR)

Clinical Note: 11.May.2008
Urine collected for study. (LDR)

Clinical Note: 25.May.2008
Urine collected for study. (LDR)

```

=====
=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 35Y 1M 0D   Birth: 28.Jul.1973
Name: MONICA
=====
=====

```

Clinical Note: 28.May.2008
8 mls of blood collected for banking. (LDR)

Clinical Note: 8.Jun.2008
Urine collected for study. (LDR)

Clinical Note: 11.Jun.2008
Collected 8 mls of blood from ear vein for study. (LDR)

Clinical Note: 13.Jun.2008
Keepers reported elephant had a cracked area of skin on her trunk near her mouth. Examined. Area is healing and no longer red. No treatment unless it gets worse, then apply triple antibiotic ointment TO ad lib SID.
Also examined edema on elephant's right side ventrum. Treat with hydrotherapy and DMSO topical spray application SID UFN. (LDR)

Clinical Note: 16.Jun.2008
Urine collected for study. (LDR)

Clinical Note: 18.Jun.2008
8 mls blood withdrawn from ear vein. (LDR)

Clinical Note: 20.Jun.2008
Rechecked edema; has resolved. Discontinue treatment. (LDR)

Clinical Note: 25.Jun.2008
8 mls blood collected from ear vein for banking. (LDR)

Clinical Note: 29.Jun.2008
Urine collected for study. (LDR)

ELEMEDHX

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 16 -

=====

=====

LOXODONTA AFRICANA AFRICANA Sex: Female Acc. #: 000029
South African bush elephant Age: 35Y 1M 0D Birth: 28.Jul.1973
Name: MONICA

=====

=====

Clinical Note: 10.Jul.2008
8 mls blood collected from ear vein. (LDR)

Clinical Note: 22.Jul.2008
FECAL CULTURE:
Ivor Regional Laboratory
34591 General Mahone Blvd
Ivor, VA 23866
757-859-6221

Accession: 17938-08
Report Date: 7-18-08/CH2

Sample: Feces Completed: 7-18-08/8:29a

AEROBIC CULTURE 7-18-08/8:29a
Normal enteric flora.
No pathogenic bacteria isolated.

SALMONELLA CULTURE 7-18-08/8:28a
Negative (LDR)

Clinical Note: 24.Jul.2008
Blood collected from ear vein for banking and study. (LDR)

Clinical Note: 6.Aug.2008
16 mls blood and 100 mls urine collected for research project. (LDR)

Clinical Note: 19.Aug.2008
 8 mls blood drawn from left ear for banking. (LDR)

Printed on: 27.Aug.2008 /ISIS/MedARKS/5.53.a

- page 17 -

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)

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)

ELEMEDHX

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)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

- page 18 -

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)

ELEMEDHX

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)

Printed on: 27.Aug.2008

/ISIS/MedARKS/5.53.a

□□