

Report Start Date  
1/1/2000

# Specimen Report for NORFOLK / 000029

Report End Date  
12/31/2004



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 - 31Y,5M,11D Hybrid: Not a hybrid  
Time since last Acq: 28Y,5M,11D 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>
20 May 2003	shoulder height	2.666	meter	8 ft 9 in

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
25 Feb 2000	Animal management note	Holes in yard filled in. Yard scented with lemon juice. Both elephants interested in those scented areas for 20-25 minutes. [[LB ]]
29 Feb 2000	Medical note	LF foot trimmed. [[LB ]]
9 Apr 2000	Medical note	Trimmed rear pads nails and cuticles.
18 May 2000	Medical note	Trimmed pads, cuticles, nails of back feet.
21 May 2000	Medical note	Left front foot nails & cuticles trimmed.
22 May 2000	Medical note	Trimmed Right front foot nails and cuticles.
1 Jun 2000	Diet	Summer rations begun.
29 Jun 2000	Medical note	RR foot pad trimmed. Reduced swelling noted at injection sit from vaccinations on 6/27/00.
4 Jul 2000	Medical note	Trimmed both front foot pads.
16 Jul 2000	Medical note	Weighed twice with seperate scales and both elephants weighed 10,700 lbs. to 11,000 lbs.
5 Aug 2000	Medical note	Keeper trimmed both back feet pads. Keeper notes that nails and cuticles need to be fine tuned.
7 Aug 2000	Medical note	Although all feet were trimmed only 1 month ago, the feet are now in bad condition. Keepers tried to trim 000028's front feet, but still much work needs to be done.
17 Aug 2000	Medical note	Front pads, nails, & cuticles trimmed.
5 Sep 2000	Medical note	Right and Left rear pads trimmed.
23 Sep 2000	Medical note	Keepers observed sandy feces but elephant seems to be feeling better. She appeared to have a stomachache a couple of days prior.
23 Sep 2000	Behavior Note	Elephants pulled down the yard hotwire again. Keepers replaced it and recharged the hotwire voltage box. Much better charge now.
24 Sep 2000	Medical note	No sandy feces found in exhibit today, all is well.
29 Sep 2000	Medical note	Keeper observed sandy feces in morning cleaning. Elephants are showing no signs of discomfort and appetite is normal.
30 Sep 2000	Medical note	Keeper observed very sandy feces (2 piles). Appetite and activity levels are normal.
14 Oct 2000	Behavior Note	Both elephants observed eating mud from the bottom of huge mud puddle in the yard.
15 Oct 2000	Behavior Note	Both elephants observed eating mud from large mud puddle in the yard again.
22 Oct 2000	Behavior Note	Elephants seemed to be on the verge of a fight today.
14 Nov 2000	Behavior Note	Reluctant to do down but did. Possibly due to knee pain.
15 Nov 2000	Animal management note	Locked inside for the first time this year.
19 Nov 2000	Medical note	Keepers removed feces with a heavy sand content.
26 Nov 2000	Behavior Note	Appears much more calm today. However 000029 was observed pinning 000028 down in the transfer room. 000028 was tusked down into a stretch position when hay was offered to them. Whitish abraded areas noticed on 000028's back.

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4 Dec 2000	Behavior Note	Pushing matches observed today between the two elephants.
23 Jan 2001	Behavior Note	Decreased appetite, did not eat of PM grain. Decreased hay intake as well.
24 Jan 2001	Medical note	Both elephants have loose stools. They will not clean up their grain. The new hay shipment is very rich. Keepers have cut grain amounts by half until the stools firm up.
25 Jan 2001	Medical note	Loose stools still evident.
27 Jan 2001	Medical note	Feces loose and watery.
2 Feb 2001	Medical note	Loose stools observed.
6 Feb 2001	Medical note	Unusually large piles of feces in yard. None observed with a high sand content of rock content.
14 Mar 2001	Behavior Note	Norfolk Welding worked on main doors from approximately 9:00am-3:30pm. Continuously stressed all day.
15 Mar 2001	Behavior Note	Norfolk Welding working on main elephant doors from 0900-1100. Elephants less stressed today than yesterday.
8 May 2001	Fecal check/worming	culture results normal intestinal flora.
24 Aug 2001	Fecal check/worming	routine fecal results negative
12 Mar 2002	Medical note	TB trunk wash sample taken by elephant manager and keepers with Dr. Sangenario observing
13 Mar 2002	Medical note	TB trunk wash sample taken by elephant manager and keepers with Dr. Sangenario observing
14 Mar 2002	Medical note	TB trunk wash sample taken by elephant manager and keepers with Dr. Sangenario observing
19 Mar 2002	Note	fecal samples taken, sent to Trinity University for DNA testing.
1 Apr 2002	Note	Moved from old Mammal House building to new African Exhibit. Lightly sedated, transported by Ed Novak. All went extremely well.
1 Apr 2002	Medical note	BLOATED
2 Apr 2002	Medical note	Bloat has cleared up, appetites increased and back to normal activity
15 Apr 2002	Note	first access given to outside exercise yard
16 Apr 2002	Note	given access to yard runway (shift area between exercise yard and main yard)
30 Apr 2002	Enrichment	given access to main yard, very curious. Enjoying the tall new rye grass (while it lasts) investigating the exhibit and new structures
30 Apr 2002	Note	This comment was added to the following specimens: 000028, 000029. both elephants had access to main yard for the first time, went well and came back inside when called
6 May 2002	Fecal check/worming	culture submitted
18 Jun 2002	Foot management	began foot trimming left rear foot
25 Jun 2002	Note	several piles of sandy feces noted
8 Jul 2002	Behavior Note	observed tusking and pushing each other through the stall bars in AM (still in separate stalls at the time)
19 Jul 2002	Note	This comment was added to the following specimens: 000028, 000029. sandy fecal content
26 Jul 2002	Medical note	white discharge observed
2 Aug 2002	Medical note	submitted fecal culture
2 Aug 2002	Fecal check/worming	fecal culture submitted
1 Oct 2002	Environment	This comment was added to the following specimens: 000028, 000029. sand added to holes in exhibit yard
17 Oct 2002	Medical note	found 4 dime sized, white creamy/mucousy discharges in stall
30 Oct 2002	Note	This comment was added to the following specimens: 000028, 000029. began urine collection for research project
31 Oct 2002	Note	research project conducted by Elizabeth Freeman, urine collection samples to be taken weekly.
31 Oct 2002	Note	sandy feces found in barn



25 Nov 2002	Aggression	Aggression observed between elephants in the yard. Lisa pushed Monica around the yard and into the pool.  This comment was added to the following specimens: 000028, 000029.
25 Nov 2002	Aggression	More aggression observed between Monica and Lisa. Lisa still being the aggressor.  This comment was added to the following specimens: 000028, 000029.
25 Nov 2002	Aggression	aggression observed in main yard towards each other Lisa tusked Monica several times and pushed Monica into the pool. Monica has several tusk marks on back end--most superficial, one looks semi-deep
26 Nov 2002	Aggression	Given access to each other inside barn. There were some vocalizing and then given access to outside yard. They began fighting again, so we opened the doors for them to come inside and separated them after they came in. Lisa was locked in holding yard for the day and Monica had access to main yard. Tonight they will be locked inside with one empty stall between them.  This comment was added to the following specimens: 000028, 000029.
27 Nov 2002	Note	separated all day, Lisa has access to main yard and Monica had holding yard
30 Nov 2002	Behavior Note	seem calmer today, Monica seen playing with the tire in the main yard.  This comment was added to the following specimens: 000028, 000029.
2 Dec 2002	Aggression	Monica and Lisa put next to each other in AM. No greeting, more posturing. Monica left the stall when Lisa postured aggressively.
2 Dec 2002	Note	This comment was added to the following specimens: 000028, 000029. urine collected from both elephants for reproductive research
10 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. Re-introduced between stalls #4 and #3. Monica was more concerned with trying to dominate than Lisa was. They were both pretty worked up for about 5 min in the beginning and then calmed down. Throughout the day they had little fights through the bars, but they would only last a few minutes. Monica was usually the instigator. After the fights they would calm down and eat hay.
11 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. elephants re-introduced to each other with no barrier between them. Monica did mild displacement with Lisa. Lisa did not challenge her. Put together at 1:50pm until 3:30, went very smooth.
11 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. given access to each other inside room, doing well ~10:00am given access to holding yard
11 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. given access to each other inside room, doing well ~10:00am given access to holding yard
12 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. Given access to each other in AM and PM In AM given access to each other inside barn, no problems--Lisa submissive to Monica. In PM, put together with access to holding yard. Lisa backed up to Monica 1x outside and 1x inside. Monica put her head on Lisa's back. They did well together overall.
13 Dec 2002	Introduction Note	This comment was added to the following specimens: 000028, 000029. put together again today; given access to holding yard, stalls 1-3. They were pretty mild all day. Lisa was very submissive and would turn away or back towards Monica. After they were separated for the



night. There was some shoving between the bars. Monica was pushing on Lisa. Most of their time together they just ate hay and browse.

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

14 Dec 2002 Introduction Note They were together today from 11:00 to 2:00. They had access to the holding yard and stalls 1 and 2. Monica mildly displaced Lisa 2 times outside and twice during their bath routines. Everything went very well. Overall, they were pretty calm. Jody observed their time together from the public viewing boardwalk.

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

16 Dec 2002 Introduction Note put together in main yard from 8:10am-4:30pm. Monica did most of the displacing in yard today. It was subtle and not physical. Late afternoon was the only time Monica showed a lack of confidence for a moment. JW, Dennis, Jill did reinforcing throughout the day. Elephants cued to a spot and were reinforced with produce and given hay throughout the day. All went well.

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

17 Dec 2002 Introduction Note given access to stalls 1-3 and holding yard. Mild displacement from Monica to Lisa.

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

18 Dec 2002 Introduction Note together most of the day. access to barn and main yard in afternoon. Everything went well. Still observing mild displacement by Monica to Lisa.

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

19 Dec 2002 Introduction Note mild displacement observed by Monica to Lisa. Access given to main yard, holding yard and first 2 stalls of barn. did well. Were separated during lunch (one in main yard, one in holding yard).

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

20 Dec 2002 Introduction Note together all day except during keeper lunch break  
access to main yard, holding yard and stall #1  
still observing mild displacement from Monica to Lisa

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

21 Dec 2002 Introduction Note mild displacement by Monica only when browse and hay given.  
access together most of the day  
Spent most of the day apart from each other in the yard.

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

22 Dec 2002 Behavior Note main holding yard access together  
checked every 15 min  
did great

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

27 Dec 2002 Behavior Note trumpeting and running around yard after playing with hanging keg from the rock/scratching post. Lisa 000028 was locked inside. Monica ran inside to see her and then calmed down. Both were draining from temporal glands and were fine when put together.

3 Jan 2003 Conditioning/Training beginning to run them through the ERD separately, both doing well.

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

3 Jan 2003 Introduction Note checking on behavioral status every hour and observing them 10 to 15 minutes after the hour. They are not getting separated during the day. Mild displacement from Monica to Lisa when browse was given in yard, otherwise they minded their own business.

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

4 Jan 2003 Behavior Note mild displacement by Monica to Lisa during their baths. Monica shoved Lisa when browse was given in



		PM. Spent most of their morning walking around the yard looking for produce scattered about. They came inside on and off throughout the afternoon to warm up.
4 Jan 2003	Note	This comment was added to the following specimens: 000028, 000029. found large pile of sandy feces in first stall.
5 Jan 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. no displacement seen had access to main yard, holding yard and stall #1
7 Jan 2003	Environment	This comment was added to the following specimens: 000028, 000029. locked inside due to cold temp, given access to yard in the afternoon for a couple of hours
8 Jan 2003	Behavior Note	Monica displaced Lisa (during Lisa's bath) by putting her trunk in Lisa's face and Lisa backed up. Were in yard all day with access to main and holding yard. They did well, were content with just eating.
9 Jan 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. while "mudding" in yard, Monica pushed Lisa from behind out of her way. Nothing escalated, mild displacement.
10 Jan 2003	Behavior Note	mild displacement from Monica to Lisa when called to area for produce
11 Jan 2003	Behavior Note	Most of the day elephants spent time outside. Lisa was in the main yard and Monica in the holding yard. They would switch back and forth between yards but were rarely in the same yard together. They had access to building but stayed outside all day. Mild displacement during Lisa's bath routine.
13 Jan 2003	Behavior Note	Monica displaced Lisa at beginning of bath routine.
14 Jan 2003	Fecal check/worming	routine culture submitted
15 Jan 2003	Foot management	Trimmed rear right foot. Cleared up pitted areas, pad about 70% complete.
16 Jan 2003	Foot management	trimmed pad on left rear foot and opened up pitted areas
17 Jan 2003	Behavior Note	mild displacement when applying betadine to Lisa's leg initiated by Monica
19 Jan 2003	Behavior Note	very bored being locked inside Monica displaced Lisa during PM for DMSO treatment
5 Feb 2003	Behavior Note	Lisa is trying to block Monica from entering stalls by backing into her. Then Monica is pushing her out of the way, not aggressive just pushing for position. Observed by D. McNamara
7 Feb 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. mild displacement from Monica to Lisa when giving them a drink of warm water in PM
8 Feb 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. keeper reports that elephant was worked up from pounding on the ERD in AM. Shifted her out of stall giving access to ERD and she continued to kick feces and trumpeting. Elephant staff took browse out to the main gate to outside yard, she came outside and ate then calmed down. The episode lasted 30 minutes.
8 Feb 2003	Behavior Note	Displacement--mild displacement from Monica to Lisa throughout the day, especially when browse was given.
20 Feb 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. sparring through the bars in PM
24 Feb 2003	Research Observation	This comment was added to the following specimens: 000028, 000029. Elephant research-- different scents placed in yard, observed different responses to different odors Elisabeth Freeman Julie



		This comment was added to the following specimens: 000028, 000029.
25 Feb 2003	Research Observation	African Elephant bull urine placed in Stall #3 in AM and in the yard in PM to observe reaction
		This comment was added to the following specimens: 000028, 000029.
28 Feb 2003	Behavior Note	mild displacement from Monica to Lisa when shifting to same stall to clean
		This comment was added to the following specimens: 000028, 000029.
4 Mar 2003	Behavior Note	sparring, kicking, trunk smashing occurred through the bars appeared that whenever separated they would start to spar, but as soon as they were together they'd calm down. Separated in outside yards after bath routine, 30 minutes later given access to each other. Observed throughout the day by keepers, all well
7 Mar 2003	Behavior Note	sparring observed only when separated by bars, ceases immediately when shifted together into same stall
		This comment was added to the following specimens: 000028, 000029.
12 Mar 2003	Exhibit	maintenance: sand pile added to holding yard
14 Mar 2003	Behavior Note	Interaction: some mild displacement through bars from Monica to Lisa when Lisa was facing Monica (medication being applied to Lisa at the time of displacement)
		This comment was added to the following specimens: 000028, 000029.
15 Mar 2003	Behavior Note	Displacement: mild displacement noted from Monica to Lisa while Lisa was eating in main yard
15 Mar 2003	Note	visitor reported seeing her eat a plastic bag
17 Mar 2003	Foot management	routine: trimmed right and left front pads, opened up some pitted areas overall looking much better
31 Mar 2003	Foot management	Routine: trimmed back left foot pad, opened up pitted area
7 May 2003	Animal management note	Change: access to stall1 and holding yard together overnight observations being made by elephant manager
		This comment was added to the following specimens: 000028, 000029.
8 May 2003	Animal management note	Change: access to holding yard and stall1 mild displacement from Monica to Lisa, most observed in first hour
		This comment was added to the following specimens: 000028, 000029.
9 May 2003	Medical note	Blood: collected 1mL from left ear, lower vein serum banked in clinic freezer to use at a later date
		This comment was added to the following specimens: 000028, 000029.
15 May 2003	Exhibit	Maintenance: added cutrine to pool--1/2 gallon
19 May 2003	Foot management	Routine: trimmed right front foot
24 May 2003	Behavior Note	Aggression: 000029 hit and displaced 000028 in PM for bananas that were being thrown by keeper observed other mild displacement by 000029 towards 000028 during the day



		This comment was added to the following specimens: 000028, 000029.
25 May 2003	Behavior Note	Aggression: elephants were lined up at front bars inside barn 000029 swung and hit 000028 with her tusk in 000028's left ear food had already been offered and eaten observed throughout the day, no problems noted
30 May 2003	Behavior Note	Interaction: sparring through bars in AM, 000029 draining pretty heavily from temporal gland
		This comment was added to the following specimens: 000028, 000029.
1 Jun 2003	Diet	Change: began summer grain ration--4 scoops BID
2 Jun 2003	Foot management	Routine: trimmed left front foot
6 Jun 2003	Foot management	Routine: front foot pads trimmed
9 Jun 2003	Behavior Note	Aggression: Monica pushed Lisa to her knees in stall #2 in AM separated them for a few minutes, no other aggression noted/observed the rest of the day
16 Jun 2003	Foot management	Routine: trimmed left rear foot
19 Jun 2003	Behavior Note	Interaction: Lisa stretched in front of Monica in afternoon inside stall. Monica was right behind her and placed her head in her back. Lisa got up right away and went to another stall.
23 Jun 2003	Foot management	Routine: trimmed right rear foot
23 Jun 2003	Behavior Note	interaction: sparring through the bars in AM, mild
		This comment was added to the following specimens: 000028, 000029.
30 Jun 2003	Foot management	Routine: back rear feet trimmed
2 Jul 2003	Behavior Note	Interaction: 2 situations of aggression today from Monica to Lisa. First was mild aggression and other moderate aggression that happened just before shifting through ERD, successfully stopped by verbal command J. Watkins.
8 Jul 2003	Laboratory test results	TB test results: samples taken April 11, 15, and 17, 2003 results Negative
10 Jul 2003	Behavior Note	Aggression: moderate aggression observed from Monica to Lisa Monica hit Lisa a few times with her tusk, incident lasted about 2 min
14 Jul 2003	Foot management	Routine: front left foot pad--opened up cracks and leveled surrounding areas
16 Jul 2003	Behavior Note	Interaction: Monica pushed Lisa out of the way in the holding yard over food, mild displacement
23 Jul 2003	Foot management	Routine: trimmed rear left foot for first time in ERD
2 Aug 2003	Behavior Note	Interaction: Monica hit Lisa in the face while lining up to come inside in AM



8 Aug 2003	Behavior Note	This comment was added to the following specimens: 000028, 000029. went completely in the pool (didn't submerge)
21 Aug 2003	Foot management	This comment was added to the following specimens: 000028, 000029. routine: trimmed right front foot
24 Sep 2003	Foot management	routine: middle toe-nail on right rear foot--cracked so trimmed it off and opened it up Koppertox applied topically to exposed nail bed
7 Oct 2003	Enrichment	given Jolly-Ball for 15 minutes very affective and got worked up but settled down when given access back with other elephant 000028
8 Oct 2003	Diet	change: winter grain ration begun
9 Oct 2003	Physical condition	feces: sandy
15 Oct 2003	Foot management	This comment was added to the following specimens: 000028, 000029. routine: placed in ERD to work on back right nail that is split, looking much better
22 Oct 2003	Diet	abnormal: ate approximately 2-3 ft firehose
14 Nov 2003	Foot management	routine: front left foot--toenail area appears to be scraping it on something, has a small groove through the nail
17 Nov 2003	Foot management	routine: trimmed front foot pads, opened up pitted areas
19 Nov 2003	Conditioning/Training	new behavior: given bath in ERD elephant manager discussed positions that will be incorporated into training sessions that will prepare elephants for x-ray procedure of feet
21 Nov 2003	Conditioning/Training	practiced with them standing on x-ray plate, did well and becoming comfortable
21 Nov 2003	Diet	This comment was added to the following specimens: 000028, 000029. change: grain ration reduced to 6.35 kg twice per day, no longer receive winter rations
25 Nov 2003	Medical note	This comment was added to the following specimens: 000028, 000029. laboratory analysis: urine and blood samples collected for research study done by Elizabeth Freeman sent for analysis
30 Nov 2003	Conditioning/Training	This comment was added to the following specimens: 000028, 000029. worked on rear foot presentation
1 Dec 2003	Foot management	routine: trimmed right front foot pad
2 Dec 2003	Conditioning/Training	ERD training: locked her down in ERD for a brief time, she did well
4 Dec 2003	Foot management	routine: left rear pad trimmed
5 Jan 2004	Conditioning/Training	elephant manager and keeper staff working on having keeper train elephant in ERD--chaining and lock-down. elephant did well.
6 Jan 2004	Conditioning/Training	ERD: (D. McNamara) keeper started working with Monica in ERD for chaining and doors being shut, she did



		well
8 Jan 2004	Foot management	routine: trimmed and opened up cracks on left front foot pad
13 Jan 2004	Behavior Note	aggression: 000029 pushed 000028 into a stretch position with no apparent cause of aggression (i.e. item of interest or food) separated and no further indication of aggression the rest of the day  This comment was added to the following specimens: 000028, 000029.
14 Jan 2004	Foot management	routine: trimmed and opened up cracks on back right foot
14 Jan 2004	Animal management note	change: rasped dead skin off of forehead
17 Jan 2004	Foot management	checked hole where rock was trimmed out of rear left foot, everything fine
28 Jan 2004	Animal management note	on exhibit: access to outside yard for the first time this week due to cold temps
28 Jan 2004	Conditioning/Training	Training: elephant manager started working with C. Younginger on lock down in ERD
29 Jan 2004	Conditioning/Training	training: elephant manager began training with S. Fogle for lock-down in ERD
1 Feb 2004	Animal management note	enclosure: given access to yard for 30-45 minutes in AM just to let them move around, have been locked inside due to cold temps
2 Feb 2004	Behavior Note	interaction: sparring observed through bars with access to all 4 stalls. 000028 pinned 000029 leg against the bars. 000029 chased after 000028 and tusked her left rear end.
2 Feb 2004	Conditioning/Training	training: Keeper (J. Tarrant) working with Monica in ERD. Monica became non-compliant when asked for front right foot during radiograph training session. Other behaviors were successfully obtained except for complying with front right foot presentation. Several time outs were given, when Monica began showing mild aggression towards keeper by pushing open bottom small access door. Elephant manager instructed keeper to ask for other foot commands and use ankus to cue if Monica did not respond in a timely fashion. This was done with both back feet and front right foot a few times with breaks in between to give Monica time to think about her actions. Keeper finally asked for and obtained desired original behavior. Monica met compliance of original behavior, then given verbal praise, and jackpot of produce as reinforcement.
3 Feb 2004	Animal management note	change: empty stall between elephants when locked inside barn  This comment was added to the following specimens: 000028, 000029.
9 Feb 2004	Fecal check/worming	abnormal: sandy feces found in yard
11 Feb 2004	Conditioning/Training	locked into ERD with no chain on for the first time
12 Feb 2004	Foot management	routine: trimmed back feet and left front foot pad
16 Feb 2004	Behavior Note	aggression: Monica made Lisa stretch 5-6 times in AM, Monica was trying to displace Lisa by putting her trunk on Lisa's back. Lisa would then stretch, stay down for 3-4 min and then get back up.
17 Feb 2004	Conditioning/Training	Monica backed up when the side doors were being closed and tried to block the door with trunk. Elephant manager discussed with keepers methods to prevent this behavior from becoming a problem.
17 Feb 2004	Conditioning/Training	new behavior: chained her in stall for radiograph training session

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18 Feb 2004	Foot management	routine: left front pad trimmed
25 Feb 2004	Conditioning/Training	ERD: received bath in ERD, relaxed through most of it
1 Mar 2004	Physical condition	change: stretched about 4times this morning before her bath (2 were half stretches and 2 were almost into a laydown). Feces were wet with a little odor. Gave her bran and equisyl in AM grain. Appeared to be bloated and belly is hanging a little (maybe an edema). Two abscesses on her tail, treated with betadine. Abscess could be when she stepped on her tail and pulled out some tail hairs a month ago and now it has become infected.
2 Mar 2004	Physical condition	clear discharge found on floor of stall #1, unknown elephant source because they were together last night
5 Mar 2004	Fecal check/worming	abnormal: found 1 pile of sandy feces in PM, elephant unknown
7 Mar 2004	Fecal check/worming	4 piles of sandy feces in holding yard and inside barn
27 Mar 2004	Behavior Note	aggression: observed mild aggression to keeper while medicating abscess on tail
9 Apr 2004	Conditioning/Training	J. Strokorb keeper working with elephant manager shifting Monica and Lisa from stall to stall
17 Apr 2004	Conditioning/Training	change: bath session performed on the runway. elephant manager worked Monica, J. Strokorb worked Lisa. Elephants were exercised and cued to different areas of the yard.  This comment was added to the following specimens: 000028, 000029.
23 Apr 2004	Fecal check/worming	found 3 piles of feces in yard with sand
3 May 2004	Diet	appetite: did not eat hay overnight, did eat all grain AM and PM
9 May 2004	Animal management note	change: did not receive PM grain, lack of cooperation in PM
11 May 2004	Fecal check/worming	fecal culture submitted to VA Beach General lab
17 May 2004	Foot management	routine: trimmed right rear foot pad
29 May 2004	Foot management	routine: trimmed left back pad
30 May 2004	Fecal check/worming	2 piles of very sandy feces observed
9 Jun 2004	Foot management	routine: trimmed both front feet, opened up cracks and pitted areas
13 Jun 2004	Fecal check/worming	2 piles of sandy feces found from overnight
14 Jun 2004	Foot management	routine: trimmed left front foot pad
15 Jun 2004	Foot management	routine: trimmed both rear feet
16 Jun 2004	Diet	appetite: refused about 1/2 scoop
22 Jun 2004	Foot management	routine: footwork on both rear pads
23 Jun 2004	Fecal check/worming	2 piles of sandy feces found in enclosure
25 Jun 2004	Conditioning/Training	training session in pool went very well. both elephants went all the way in the pool and given ice block as reinforcement
5 Jul 2004	Animal management note	FOUND 1 PILE OF SANDY FECES FROM OVERNIGHT.  This comment was added to the following specimens: 000028, 000029.
6 Jul 2004	Animal management note	FOUND 2 PILES OF SANDY FECES FROM OVERNIGHT.



		This comment was added to the following specimens: 000028, 000029.
7 Jul 2004	Animal management note	found 1 pile of sandy feces in AM
8 Jul 2004	Medical note	DREW BLOOD FROM L/EAR ON LISA AND R/EAR ON MONICA. FOUND 1 PILE SANDY FECES WITH DIME SIZED ROCKS EMBEDDED.
		This comment was added to the following specimens: 000028, 000029.
14 Jul 2004	Medical note	sandy feces
16 Jul 2004	Animal management note	BOTH ELEPHANTS IN POOL TODAY ALMOST TO THE BRIDGE.
		This comment was added to the following specimens: 000028, 000029.
17 Jul 2004	Animal management note	BOTH ELEPHANTS IN POOL TODAY, GIVEN WATERMELON. LISA WAS BEING VERY SUBMISSIVE TOWARD MONICA.
		This comment was added to the following specimens: 000028, 000029.
18 Jul 2004	Medical note	FOUND 3 PILES SANDY FECES FROM OVERNIGHT.
		This comment was added to the following specimens: 000028, 000029.
<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
1 Apr 2002	ELEPHANT	Being kept in inside enclosure in separate stall from 000029 until shifting well using the hydraulic doors.

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 1 -

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

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11.Jan Clinical note recorded. (LB)  
12.Jan Clinical note recorded. (LB)  
14.Jan Clinical note recorded. (LB)  
21.Jan Clinical note recorded. (LB)

8.Feb Clinical note recorded. (LB)  
10.Feb Clinical note recorded. (LB)  
11.Feb Clinical note recorded. (LB)  
18.Feb Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN  
23.Feb Clinical note recorded. (LB)  
28.Feb Clinical note recorded. (LB)

16.Mar Clinical note recorded. (LB)  
17.Mar Clinical note recorded. (LB)  
18.Mar Clinical note recorded. (LB)  
19.Mar Clinical note recorded. (LB)  
21.Mar Clinical note recorded. (LB)  
28.Mar Clinical note recorded. (LB)

3.Apr Clinical note recorded. (LB)  
4.Apr Clinical note recorded. (LB)  
7.Apr Clinical note recorded. (LB)  
22.Apr Clinical note recorded. (LB)  
23.Apr Clinical note recorded. (LB)  
24.Apr Clinical note recorded. (LB)  
28.Apr Clinical note recorded. (LB)

5.May Clinical note recorded. (LB)  
6.May Clinical note recorded. (LB)

27.Jun Purpose/Problem: Annual vaccination.  
Vaccination: ENCEPHALMYELITIS EWT 2cc IM once  
Clinical note recorded. (JS)  
28.Jun Clinical note recorded. (LB)

ELEPHANT.TXT

- 30.Jun Clinical note recorded. (LB)
- 13.Jul Clinical note recorded. (LB)
- 14.Jul Clinical note recorded. (LB)
- 15.Jul Clinical note recorded. (LB)
- 17.Jul Clinical note recorded. (LB)
- 18.Jul Clinical note recorded. (LB)
- 3.Aug Clinical note recorded. (LB)

Weight: 4991 Kg ( 11000 Lb)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 2 -

Medical History Report - Summary for Individual Specimen  
 VIRGINIA ZOOLOGICAL PARK

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D       Birth: 28.Jul.1973
Name: MONICA
=====

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- .....2000....
- 16.Aug Clinical note recorded. (LB)
  - 17.Aug Clinical note recorded. (LB)
  - 18.Aug Clinical note recorded. (LB)
  - 21.Aug Clinical note recorded. (LB)
  - 22.Aug Clinical note recorded. (LB)
  - 25.Aug Clinical note recorded. (LB)
  - 29.Aug Clinical note recorded. (LB)
  
  - 20.Sep Clinical note recorded. (LB)
  - 21.Sep Clinical note recorded. (LB)
  - 22.Sep Clinical note recorded. (LB)
  - 23.Sep Clinical note recorded. (LB)
  
  - 5.Oct Clinical note recorded. (LB)
  - 6.Oct Clinical note recorded. (LB)
  - 8.Oct Clinical note recorded. (LB)
  - 16.Oct Clinical note recorded. (LB)
  
  - 13.Nov Clinical note recorded. (LB)
  
  - 10.Dec Clinical note recorded. (LB)
  - 11.Dec Clinical note recorded. (LB)
  - 12.Dec Clinical note recorded. (LB)
  - 13.Dec Clinical note recorded. (LB)
  - 14.Dec Clinical note recorded. (LB)

- .....2001....
- 8.Jan Clinical note recorded. (LB)
  - 10.Jan Clinical note recorded. (LB)
  - 11.Jan Clinical note recorded. (LB)
  - 12.Jan Clinical note recorded. (LB)
  - 30.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
 NO PARASITES SEEN  
 Clinical note recorded. (LB)
  
  - 9.Feb Clinical note recorded. (LB)
  - 10.Feb Clinical note recorded. (LB)

ELEPHANT.TXT

6.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

30.May Vaccination: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2ml IM once  
RABIES VACCINE (KILLED) 2ml IM once

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 3 -

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D       Birth: 28.Jul.1973
Name: MONICA
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.....2001...
30.May Clinical note recorded. (JS)

 7.Aug Clinical note recorded. (KR)
 8.Aug Clinical note recorded. (KR)
24.Aug Clinical note recorded. (KR)
26.Aug Clinical note recorded. (KR)

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.....2002...

18.Feb Clinical note recorded. (KR)

 1.Mar Clinical note recorded. (KR)
 2.Mar Clinical note recorded. (KR)
 8.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
      NO PARASITES SEEN
11.Mar Clinical note recorded. (KR)
12.Mar Clinical note recorded. (KR)
19.Mar Clinical note recorded. (KR)
21.Mar Clinical note recorded. (KR)
22.Mar Clinical note recorded. (KR)

 1.Apr Purpose/Problem: light sedation for transport to new exhibit
      Rx: XYLAZINE HYDROCHLORIDE 7cc IM once
      Clinical note recorded. (JS)
 3.Apr Clinical note recorded. (KR)
22.Apr Clinical note recorded. (KR)

14.May Clinical note recorded. (KR)
15.May Clinical note recorded. (KR)

11.Jun Clinical note recorded. (KR)
21.Jun Clinical note recorded. (KR)
25.Jun Clinical note recorded. (KR)
29.Jun Clinical note recorded. (KR)

 7.Jul Clinical note recorded. (KR)
12.Jul Clinical note recorded. (KR)
19.Jul Clinical note recorded. (KR)
25.Jul Clinical note recorded. (KR)

 2.Aug Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
      Clinical note recorded. (KR)
11.Aug Clinical note recorded. (KR)

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21.Aug Purpose/Problem: preventative maintenance--new clay and dirt delivery

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 4 -

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D       Birth: 28.Jul.1973
Name: MONICA
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.....2002....

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21.Aug Rx: PSYLLIUM HYDROPHILIC MUCILLOID 11b PO SID for 5 days.
        Clinical note recorded. (JS)
25.Aug Clinical note recorded. (KR)
26.Aug Parasitology examination: (ROUTINE EXAMINATION) Fecal sample. NO
        Clinical note recorded. (KR)
31.Aug Clinical note recorded. (KR)

3.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
        NO/NO PARASITES SEEN
7.Sep Clinical note recorded. (KR)
9.Sep Clinical note recorded. (KR)
25.Sep Clinical note recorded. (KR)
27.Sep Clinical note recorded. (KR)
30.Sep Clinical note recorded. (KR)

2.Oct Clinical note recorded. (KR)
4.Oct Vaccination: RABIES VACCINE (KILLED) 2ml IM
        ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2ml IM
        Clinical note recorded. (JS)
5.Oct Clinical note recorded. (KR)
19.Oct Clinical note recorded. (KR)
25.Oct Clinical note recorded. (KR)

4.Nov Clinical note recorded. (KR)
13.Nov Clinical note recorded. (KR)
14.Nov Clinical note recorded. (KR)
15.Nov Parasitology examination: (ROUTINE EXAMINATION) Other sample.
        Clinical note recorded. (KR)
22.Nov Clinical note recorded. (KR)
26.Nov Clinical note recorded. (KR)
27.Nov Clinical note recorded. (KR)
29.Nov Clinical note recorded. (KR)

2.Dec Clinical note recorded. (KR)
4.Dec Clinical note recorded. (KR)
30.Dec Clinical note recorded. (KR)
31.Dec Clinical note recorded. (KR)

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.....2003....

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3.Jan Clinical note recorded. (KR)
19.Jan Clinical note recorded. (KR)
21.Jan Clinical note recorded. (KR)
23.Jan Clinical note recorded. (KR)

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Printed on: 27.Apr.2005

Page 74

/ISIS/MedARKS/5.40a

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D       Birth: 28.Jul.1973
Name: MONICA
=====
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.....2003...

```
5.Feb Clinical note recorded.
6.Feb Clinical note recorded.
9.Feb Clinical note recorded.
15.Feb Clinical note recorded.
16.Feb Clinical note recorded.
18.Feb Clinical note recorded. (KR)
23.Feb Clinical note recorded. (KR)

3.Mar Clinical note recorded. (KR)
4.Mar Clinical note recorded. (KR)
12.Mar Clinical note recorded. (KR)
18.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
      NO PARASITES SEEN
25.Mar Clinical note recorded. (KR)
30.Mar Clinical note recorded. (KR)

11.Apr Clinical note recorded. (KR)
15.Apr Clinical note recorded. (KR)
17.Apr Clinical note recorded. (KR)
22.Apr Clinical note recorded. (KR)

2.May Clinical note recorded. (KR)
5.May Clinical note recorded. (KR)
6.May Clinical note recorded. (KR)
9.May Clinical note recorded. (KR)
12.May Clinical note recorded. (KR)
13.May Clinical note recorded. (KR)
14.May Clinical note recorded. (KR)
23.May Clinical note recorded. (KR)
29.May Clinical note recorded. (KR)

6.Jun Clinical note recorded. (KR)
8.Jun Clinical note recorded. (KR)
10.Jun Clinical note recorded. (KR)
11.Jun Clinical note recorded. (KR)
12.Jun Clinical note recorded. (KR)
16.Jun Clinical note recorded. (KR)
17.Jun Clinical note recorded. (KR)
23.Jun Clinical note recorded. (KR)
28.Jun Clinical note recorded. (KR)
30.Jun Clinical note recorded. (KR)

4.Jul Clinical note recorded. (KR)
8.Jul Clinical note recorded. (KR)
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Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

ELEPHANT.TXT

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

.....2003...

9.Jul Clinical note recorded. (KR)  
11.Jul Clinical note recorded. (KR)  
12.Jul Clinical note recorded. (KR)  
13.Jul Clinical note recorded. (KR)  
15.Jul Clinical note recorded. (KR)  
16.Jul Clinical note recorded. (KR)  
23.Jul Clinical note recorded. (KR)  
26.Jul Clinical note recorded. (KR)  
27.Jul Clinical note recorded. (KR)  
28.Jul Clinical note recorded. (KR)  
31.Jul Clinical note recorded. (KR)  
  
5.Aug Clinical note recorded. (KR)  
7.Aug Clinical note recorded. (KR)  
11.Aug Clinical note recorded. (KR)  
15.Aug Clinical note recorded. (KR)  
19.Aug Clinical note recorded. (KR)  
21.Aug Clinical note recorded. (KR)  
28.Aug Clinical note recorded. (KR)  
  
3.Sep Clinical note recorded. (KR)  
7.Sep Clinical note recorded. (KR)  
8.Sep Clinical note recorded. (KR)  
10.Sep Clinical note recorded. (KR)  
17.Sep Clinical note recorded. (KR)  
25.Sep Clinical note recorded. (KR)  
29.Sep Clinical note recorded. (KR)  
30.Sep Vaccination: COVEXIN 8 5ml IM  
RABIES VACCINE (KILLED) 2ml IM  
Clinical note recorded. (JS)  
  
8.Oct Clinical note recorded. (KR)  
16.Oct Clinical note recorded. (KR)  
22.Oct Clinical note recorded. (KR)  
29.Oct Clinical note recorded. (KR)  
30.Oct Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN  
  
6.Nov Clinical note recorded. (KR)  
13.Nov Clinical note recorded. (KR)  
20.Nov Clinical note recorded. (KR)  
25.Nov Clinical note recorded. (KR)  
  
2.Dec Clinical note recorded. (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 7 -

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA  
South African bush elephant

Sex: Female  
Age: 31Y 8M 30D  
Page 76

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

Name: MONICA

.....2003...

4.Dec Clinical note recorded. (KR)  
 12.Dec Clinical note recorded. (KR)  
 18.Dec Clinical note recorded. (KR)  
 22.Dec Clinical note recorded. (KR)  
 23.Dec Clinical note recorded. (KR)  
 31.Dec Clinical note recorded. (KR)

.....2004...

5.Jan Clinical note recorded. (KR)  
 7.Jan Clinical note recorded. (KR)  
 12.Jan Clinical note recorded. (KR)  
 15.Jan Clinical note recorded. (KR)  
 20.Jan Clinical note recorded. (KR)  
 21.Jan Clinical note recorded. (KR)  
 22.Jan Clinical note recorded. (KR)  
 23.Jan Clinical note recorded. (KR)  
 28.Jan Clinical note recorded. (KR)  
 30.Jan Clinical note recorded. (KR)

5.Feb Clinical note recorded. (KR)  
 10.Feb Clinical note recorded. (KR)  
 12.Feb Clinical note recorded. (KR)  
 18.Feb Clinical note recorded. (KR)  
 26.Feb Clinical note recorded. (KR)

2.Mar Clinical note recorded. (KR)  
 3.Mar Clinical note recorded. (KR)  
 4.Mar Clinical note recorded. (KR)  
 5.Mar Clinical note recorded. (KR)  
 6.Mar Clinical note recorded. (KR)  
 8.Mar Clinical note recorded. (KR)  
 11.Mar Clinical note recorded. (KR)  
 12.Mar Clinical note recorded. (KR)  
 13.Mar Clinical note recorded. (KR)  
 15.Mar Clinical note recorded. (KR)  
 16.Mar Clinical note recorded. (KR)  
 17.Mar Clinical note recorded. (KR)  
 18.Mar Clinical note recorded. (KR)  
 19.Mar Clinical note recorded. (KR)  
 20.Mar Clinical note recorded. (KR)  
 22.Mar Clinical note recorded. (KR)

23.Mar Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
 NO PARASITES SEEN

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 8 -

Medical History Report - Summary for Individual Specimen  
 VIRGINIA ZOOLOGICAL PARK

LOXODONTA AFRICANA AFRICANA  
 South African bush elephant  
 Name: MONICA

Sex: Female  
 Age: 31Y 8M 30D

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

.....2004...

ELEPHANT.TXT

- 23.Mar Clinical note recorded. (KR)
- 25.Mar Clinical note recorded. (KR)
- 27.Mar Clinical note recorded. (KR)
- 28.Mar Clinical note recorded. (KR)
- 29.Mar Clinical note recorded. (KR)
- 30.Mar Clinical note recorded. (KR)
- 31.Mar Clinical note recorded. (KR)
  
- 1.Apr Clinical note recorded. (KR)
- 2.Apr Clinical note recorded. (KR)
- 8.Apr Clinical note recorded. (KR)
- 13.Apr Clinical note recorded. (KR)
- 15.Apr Clinical note recorded. (KR)
- 16.Apr Clinical note recorded. (KR)
- 20.Apr Clinical note recorded. (KR)
- 22.Apr Clinical note recorded. (KR)
- 29.Apr Clinical note recorded. (KR)
  
- 4.May Clinical note recorded. (KR)
- 6.May Clinical note recorded. (KR)
- 13.May Clinical note recorded. (KR)
- 18.May Clinical note recorded. (KR)
- 20.May Clinical note recorded. (KR)
- 27.May Clinical note recorded. (KR)
- 29.May Clinical note recorded. (KR)
  
- 23.Jun Clinical note recorded. (KR)
- 30.Jun Clinical note recorded. (KR)
  
- 8.Jul Clinical note recorded. (KR)
- 12.Jul Clinical note recorded. (JS)
  
- 7.Sep Clinical note recorded. (LDR)
- 28.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO OVA/PARASITES SEEN
  
- 1.Oct Vaccination: IMRAB 2ml IM once  
                  ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2ml IM once  
Clinical note recorded. (JS)
  
- 10.Dec Rx: NOLVASAN OINTMENT free topically BID until further notice.  
Clinical note recorded. (JS)
- Clinical note recorded. (LDR)
- 14.Dec Clinical note recorded. (LDR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 9 -

Medical History Report - Summary for Individual Specimen  
VIRGINIA ZOOLOGICAL PARK

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant           Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====

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- .....2004...
- 31.Dec Clinical note recorded. (LDR)

ELEPHANT.TXT

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 1 -

=====

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female                      Acc. #: 000029  
Age: 31Y 8M 30D                Birth: 28.Jul.1973

=====

Clinical Note: 11.Jan.2000  
Vet discussed MSM vs. glucosamine with Louise for arthritis in this  
elephant. Glucosamine is a good choice, however it is more costly.  
Further investigation will be made into the cost of switching to this.  
The vet feels that the MSM is a good less expensive product to use.  
Keepers report that feces from both elephants have a high sand  
content. Vet ok's to increase Equisyl from once to twice a week. (LB)

Clinical Note: 12.Jan.2000  
Keepers trimmed all nails, pads, & cuticles. (LB)

ELEPHANT.TXT

Clinical Note: 14.Jan.2000  
Equisyl schedule changed to Monday and Fridays 1 lb. per elephant. (LB)

Clinical Note: 21.Jan.2000  
Vet set dosage of new MSM (99.7%, Ultra Pure) for this elephant at 10 scoops once daily PO with the scoop found in the bucket upon opening. (LB)

Clinical Note: 8.Feb.2000  
Routine fecal culture submitted. (LB)

Clinical Note: 10.Feb.2000  
Appeared reluctant to "down". Also at one point, she seemed to be sensitive in the hip area. (LB)

Clinical Note: 11.Feb.2000  
No lameness observed. Fecal culture results showed no enteric pathogens and no e. coli 0157 isolated. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 2 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

---

Parasitology Examination:

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2000-0067  
Date collected: 18.Feb.2000  
Collected by: KR

Collected from:  
From an individual specimen.

Enclosure: MH #2

Examination Data >>  
Storage: room temperature  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 18.Feb.2000  
by: JS

Tests & Results >>  
FLOATATION - NA NITRATE

NO PARASITES SEEN  
Page 80

ELEPHANT.TXT

-----  
Clinical Note: 23.Feb.2000  
May be showing signs of lameness on RR leg. She was reluctant to stretch. Upon coming up, she wouldn't place any weight on her RR knee. (LB)

Clinical Note: 28.Feb.2000  
Still seems reluctant to stretch in the yard. (LB)

Clinical Note: 16.Mar.2000  
Loose heavy feces noted. Still eating decreased hay amounts overall. Both eating produce and browse well. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 3 -

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 17.Mar.2000  
Neither elephant is eating grain and both are showing symptoms of a belly ache. 000029's stools are loose which the vet thinks is from sand irritation to the gut. 000028 is defecating very little. Vet prescribes psyllium product (Sand Clear for today; apple and molasses flavor) for each. For sand clear give half the container to each. Vet would also like for keepers to try to give mineral oil too if possible.  
Equisyl should be in this afternoon but Kim will go to Dominion Equine Clinic if our Equisyl does not come in. 000028 would not take Sand Clear, 000029 accepted. Keeper was able to get 2 lbs. of Equisyl mixed with bran into 000028 in the morning.  
This elephant is eating well. Large quantity of feces, loose though due to sand irritation. (LB)

Clinical Note: 18.Mar.2000  
Keepers able to get in first AM cocktail - which is 1 bucket of bran, equisyl, sliced apples, and 1/2 gallon of mineral oil- into both

ELEPHANT.TXT

elephants. They are both a little droopy. Feces amounts are small but not loose today. 000028 is straining to defecate. (LB)

Clinical Note:

19.Mar.2000

Appetite normal and she is defecating large amounts. Had major problems coming up from a down position with a chain on RR leg. Keeper had to remove chain from back and this seemed to help. Upon coming up, she initially would put weight on leg for approximately 2-3 minutes. No lameness observed after that. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 4 -

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=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 31Y 8M 30D  Birth: 28.Jul.1973
Name: MONICA
=====

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Clinical Note:

21.Mar.2000

Vet discussed impaction with keepers in regards to the elephants. The elephants are reported to be having a more normal amount of stool, vet would like to continue with Equisyl and mineral oil concotion SID for the next 3 days and then the vet will re-evaluate on 3-24-00. Vet does not see a problem with using dirt instead of sand or clay for the elephant yard. It would probably be better because if they eat dirt, it would not stay in their gut and cause impaction problems later. Vet discussed arthritis with this elephant and believes that the incident described to him where the elephant would not get up from down position while wearing a chain on the RR leg indicates that it is likely a R stifle problem area. (LB)

Clinical Note:

28.Mar.2000

Vet discussed impaction problems with keeper. Keep offering equisyl and mineral oil if possible. (LB)

Clinical Note:

3.Apr.2000

Loose stools noted. (LB)

ELEPHANT.TXT

Clinical Note: 4.Apr.2000  
Loose stools noted. (LB)

Clinical Note: 7.Apr.2000  
Posturing, laying down in room in morning. Did eat all of her diet.  
(LB)

Clinical Note: 22.Apr.2000  
Refused most of morning grain and slow to eat produce. Observed lying  
down in the room prior to baths. Ate lots of "peeps" and jelly beans  
on 4-21-00 for special event. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 5 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

---

Clinical Note: 23.Apr.2000  
Both elephants ate only 1/4 bucket morning grain and only a handful of  
afternoon grain. (LB)

Clinical Note: 24.Apr.2000  
Both elephants ate morning grain and bran. (LB)

Clinical Note: 28.Apr.2000  
Ate morning and afternoon grain. (LB)

Clinical Note: 5.May.2000  
Ate well today. (LB)

Clinical Note: 6.May.2000  
Ate diets quickly. (LB)

Clinical Note: 27.Jun.2000  
Rx: CEPHALOVAC EWT 2 cc IM once for 1 dose. (JS)

Purpose: Annual vaccination.

ELEPHANT.TXT

Prescription Data >> Starting date: 27.Jun.2000  
Drug: ENCEPHALMYLITIS EWT 2 cc IM once  
Loading dose was: 2cc cc  
Formulation: injectable  
Prescribed by: JS (27.Jun.2000) Filled by: HF (27.Jun.2000)

Comments >>

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Dispensing Note: Dispense one dose.

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Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 6 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 28.Jun.2000  
Salad plate sized swelling @ injection site from 6-27-00 on R rear. (LB)

Clinical Note: 30.Jun.2000  
Keeper posed the question on IMRAB vaccinations. Vet does want IMRAB administered annually. Swelling at injection site reduced in size from 6/28/00. Not stretching well and haven't "downed" on the side of injection site yet. (LB)

Clinical Note: 13.Jul.2000  
Very loose stools. Probably due to rich hay or combination with fresh magnolia. (LB)

Clinical Note: 14.Jul.2000  
Stools not as loose today and a smaller amount. (LB)

Clinical Note: 15.Jul.2000  
Feces back to normal. (LB)

Clinical Note: 18.Jul.2000  
Blood drawn for routine CBC & Chemogram. (LB)

Clinical Note: 3.Aug.2000  
A couple of very sandy fecal piles found today. (LB)

ELEPHANT.TXT

Clinical Note: 16.Aug.2000  
Stools seem unusually heavy, may have high sand content. Also she was  
slow to eat afternoon grain. (LB)

Clinical Note: 17.Aug.2000  
Keepers found sandy stools in the exhibit probably from 000029. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 7 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 18.Aug.2000  
Ate diet fine today. (LB)

Clinical Note: 21.Aug.2000  
Cleans up both morning and afternoon grain readily. (LB)

Clinical Note: 22.Aug.2000  
Began routine TB testing using trunk wash method. Will be repeated on  
8/25 and 8/29. (LB)

Clinical Note: 25.Aug.2000  
TB test specimen collected. (LB)

Clinical Note: 29.Aug.2000  
Last sample of TB test collected today. (LB)

Clinical Note: 20.Sep.2000  
Rear legs may be painful, elephant was observed holding RR leg up but  
alternating legs at times. Also laying down a good part of the day.  
Keeper suspects a belly ache or rear leg problems again. (LB)

Clinical Note: 21.Sep.2000  
Hay intake slightly down but she seems "brighter" today. Appetite is  
normal, no soreness in legs noted. (LB)

Clinical Note: 22.Sep.2000  
Bellyache seems to be diminishing. Lots of sandy feces. Appetite good  
though. (LB)

ELEPHANT.TXT

Clinical Note:  
Still sandy feces but she feels much better. (LB)

23.Sep.2000

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 8 -

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LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

=====

Clinical Note: 5.Oct.2000  
Doesn't appear to want to put weight on RR knee when stretching. (LB)

Clinical Note: 6.Oct.2000  
Very sandy fecal piles observed in yard from overnight. (LB)

Clinical Note: 8.Oct.2000  
Appears to favor her RR leg. (LB)

Clinical Note: 16.Oct.2000  
Appears to be favoring RR knee while bathing. Keepers are trying to omit stretch during bath routine (down from a stand/ come up from a down). (LB)

Clinical Note: 13.Nov.2000  
Refusing to down, possible RR knee pain. MSM has been out of stock since 11/10/00. (LB)

Clinical Note: 10.Dec.2000  
Keeper discovered abscess on RR knee. Treated with warm water and peroxide flush. (LB)

Clinical Note: 11.Dec.2000  
Still slight drainage from RR knee. (LB)

Clinical Note: 12.Dec.2000  
Peroxide flush on RR knee abscess. (LB)

Clinical Note: 13.Dec.2000  
Another peroxide flush on RR knee by keepers. (LB)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 9 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====
    
```

Clinical Note: 14.Dec.2000  
 R knee is healing well with no other signs of infection. (LB)

Clinical Note: 8.Jan.2001  
 External ear folds of R ear appear to be inflamed. (LB)

Clinical Note: 10.Jan.2001  
 R ear fold is still swollen. (LB)

Clinical Note: 11.Jan.2001  
 R external ear folds seem slightly smaller today. (LB)

Clinical Note: 12.Jan.2001  
 Vet observed ear fold near external opening near R eye is a bit swollen. It possible that she has been rubbing the area and caused the inflammation.  
 No treatment for now. Just monitor. (LB)

Clinical Note: 30.Jan.2001  
 Routine fecal culture submitted. (LB)

```

Submission Data >>
  Type: Fecal sample
  Purpose: ROUTINE EXAMINATION
Sample id.: 2001-0064
Date collected: 30.Jan.2001
Collected by: HF
    
```

Collected from: Enclosure: MH #2  
 Group of specimens housed together.

```

Examination Data >>
  Storage: refrigerated
  Consistency: Not specified
  Gross appearance: Typical
Date examined: 30.Jan.2001
by: JS
    
```

Tests & Results >>  
 FLOATATION NO PARASITES SEEN

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 10 -

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

Clinical Note: 9.Feb.2001

Vet discussed with keeper the use of aspirin for conditioning the animal into readily accepting oral medications. Aspirin is okay to give to the elephant. The small quantity is just fine. If keeper need to train the elephant to take a large quantity of capsules, try using gel capsules with bran or some other non-drug in it. Vet feels that you can get the same bitter taste effect with a limited number of tablets. Once the taste buds register the bitter taste, that is all you need. In other words, more tablets will not make exponentially more bitter.

vet also discussed giving a probiocin supplement to promote proper gut health and prevent colic events. Vet thinks that this is a good idea especially since elephants are hind gut fermenters. The vet does not feel that this will have an effect on the elephants eating sand/clay (which is usually the beginning of a colic event). He suspects that the elephants are eating sand/clay due to something that is deficient in their diet. Mineral salt is already a supplement but the quantity given should be increased. The current procedure is to give them 1/8 cup. Vet increased the amount to 3-4 1/8 cups each per day. If the salt and mineral intake is increased, the elephants may stop eating the sand/clay.

Fecal culture returned for this elephant and had few intestinal flora. No salmonella, shigella, yersina, vibrio, e. coli or predominating staphylococcus aureus or yeast isolated. (LB)

Clinical Note: 10.Feb.2001

Keepers found a quarter-sized blood/mucous spot in feces and urine spot. (LB)

Submission Data >>	Sample id.: 2001-0084
Type: Fecal sample	Date collected: 6.Mar.2001
Purpose: ROUTINE EXAMINATION	Collected by: KR

Collected from:	Enclosure: MH #2
Group of specimens housed together.	

Examination Data >>	Date examined: 6.Mar.2001
Storage: room temperature	
Consistency: Not specified	
Gross appearance: Typical	by: JS

ELEPHANT.TXT

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 11 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

---

Parasitology Examination:  
Tests & Results >>  
FLOATATION

NO PARASITES SEEN

Clinical Note: 30.May.2001  
Rx: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once for 1 day.  
Rx: RABIES VACCINE (KILLED) 2 ml IM once for 1 day. (JS)

Prescription Data >> Starting date: 30.May.2001  
Drug: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once  
Formulation: injectable  
Prescribed by: JS (30.May.2001) Filled by: JS (30.May.2001)  
Treatment weight: 4991 kg  
ENCEPHALOMYELITIS EWV/TETANUS TOXOI = ENCEPHALOMYELITIS,  
EASTERN (KILLED) + ENCEPHALOMYELITIS, WESTERN (KILLED) +  
ENCEPHALOMYELITIS, VENEZUELAN + TETANUS TOXOID

---

Prescription Data >> Starting date: 30.May.2001  
Drug: RABIES VACCINE (KILLED) 2 ml IM once  
Formulation: injectable  
Prescribed by: JS (30.May.2001) Filled by: JS (30.May.2001)  
Treatment weight: 4991 kg

---

Clinical Note: 7.Aug.2001  
Refused PM grain. Observed several sandy stools in AM. (KR)

Clinical Note: 8.Aug.2001  
Only ate 1/2 PM grain. (KR)

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/ISIS/MedARKS/5.40a

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=====
LOXODONTA AFRICANA AFRICANA          Sex: Female          Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D     Birth: 28.Jul.1973
Name: MONICA
=====

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Clinical Note:                          24.Aug.2001
  routine fecal results negative (KR)

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Clinical Note:                          26.Aug.2001
  left front tooth sloughing off (KR)

```

```

Clinical Note:                          18.Feb.2002
  sandy feces observed (KR)

```

```

Clinical Note:                          1.Mar.2002
  loose stool in AM. (KR)

```

```

Clinical Note:                          2.Mar.2002
  stools returned to normal consistency. (KR)

```

```

Submission Data >>
  Type: Fecal sample
  Purpose: ROUTINE EXAMINATION

```

```

Sample id.: 2002-0085
Date collected: 8.Mar.2002
Collected by: DL

```

```

Collected from:
  Group of specimens housed together.

```

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Enclosure: MH #2

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```

Examination Data >>
  Storage: room temperature
  Consistency: Not specified
  Gross appearance: Typical

```

```

Date examined: 8.Mar.2002
by: JS

```

```

Tests & Results >>
  FLOATATION

```

```

NO PARASITES SEEN

```

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

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=====
LOXODONTA AFRICANA AFRICANA          Sex: Female          Acc. #: 000029
Page 90
=====

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South African bush elephant  
Name: MONICA

ELEPHANT.TXT  
Age: 31Y 8M 30D

Birth: 28.Jul.1973

Clinical Note: 11.Mar.2002  
sandy feces (KR)

Clinical Note: 12.Mar.2002  
1st of TB testing sample submission collected, 1 of 3. Used 60cc of  
0.9% sterile sodium chloride IV fluid solution into tip of trunk then  
collected in ziploc bag, transferred to sterile collection cup with  
screw top lid and frozen until all 3 samples are taken (within 1  
week). (KR)

Clinical Note: 19.Mar.2002  
small, superficial abscess on inside of right ankle. Flushed with  
hose, no other treatment. (KR)

Clinical Note: 21.Mar.2002  
small, superficial abscess on outside of left front leg, just above  
ankle. Hosed out, no further treatment (KR)

Clinical Note: 22.Mar.2002  
abscess on inside of right rear leg appears healed. Abscess on outside  
of left front leg still draining. (KR)

Clinical Note: 1.Apr.2002  
Rx: XYLAZINE HYDROCHLORIDE 7 cc IM once (JS)

Purpose: light sedation for transport to new exhibit

Prescription Data >> Starting date: 1.Apr.2002  
Drug: XYLAZINE HYDROCHLORIDE 7 cc IM once  
Formulation: injectable  
Prescribed by: JS (1.Apr.2002) Filled by: JS (1.Apr.2002)  
Treatment weight: 4991 kg

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 14 -

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

ELEPHANT.TXT

Clinical Note: 3.Apr.2002  
sandy feces observed (KR)

Clinical Note: 22.Apr.2002  
superficial abrasion behind left eye (KR)

Clinical Note: 14.May.2002  
refused AM grain, slow to eat PM grain offered (KR)

Clinical Note: 15.May.2002  
several piles of sandy feces, eating normally (KR)

Clinical Note: 11.Jun.2002  
very sandy feces found in yard and both stalls (KR)

Clinical Note: 21.Jun.2002  
nail bruise or channel found when trimming feet (KR)

Clinical Note: 25.Jun.2002  
several piles of sandy feces (KR)

Clinical Note: 29.Jun.2002  
sandy feces (KR)

Clinical Note: 7.Jul.2002  
sandy feces observed (KR)

Clinical Note: 12.Jul.2002  
sandy feces observed (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 15 -

=====

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

=====

Sex: Female  
Age: 31Y 8M 30D

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

Clinical Note:  
sandy feces observed (KR)

19.Jul.2002

ELEPHANT.TXT

Clinical Note: sand in feces (KR) 25.Jul.2002

Clinical Note: fecal culture submitted (KR) 2.Aug.2002

Submission Data >> Type: Fecal sample Purpose: ROUTINE EXAMINATION Sample id.: 2002-0267 Date collected: 2.Aug.2002

Collected from: Group of specimens housed together. Enclosure: ELEPHANT

Examination Data >> Storage: room temperature Consistency: Not specified Gross appearance: Typical Date examined: 2.Aug.2002 by: JS

Clinical Note: small minor abrasion on right tusk sheath (KR) 11.Aug.2002

Clinical Note: Rx: PSYLLIUM HYDROPHILIC MUCILLOID 1 lb PO SID for 5 days. \*\* group treatment \*\* (JS) 21.Aug.2002

Group Treatment >> LOXODONTA AFRICANA AFRICANA/South African bush elephant 000028 000029

Printed on: 27.Apr.2005 /ISIS/MedARKS/5.40a

- page 16 -

Medical History Report - Individual Specimen VIRGINIA ZOOLOGICAL PARK

=====  
LOXODONTA AFRICANA AFRICANA Sex: Female Acc. #: 000029  
South African bush elephant Age: 31Y 8M 30D Birth: 28.Jul.1973  
Name: MONICA  
=====

Prescription Record (continued):

Purpose: preventative maintenance--new clay and dirt delivery into yard

Prescription Data >> Starting date: 21.Aug.2002  
Drug: PSYLLIUM HYDROPHILIC MUCILLOID 1 lb PO SID for 5 days

ELEPHANT.TXT

Formulation: powder  
Prescribed by: JS (21.Aug.2002)

Filled by: JS (21.Aug.2002)

Clinical Note: 25.Aug.2002  
sandy feces (KR)

Clinical Note: 26.Aug.2002  
several piles of sandy feces (KR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2002-0319  
Date collected: 26.Aug.2002

Collected from:  
Group of specimens housed together.

Enclosure: ELEPHANT

Examination Data >>  
Storage: Not specified  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 26.Aug.2002

by: JS

Tests & Results >>  
ENTERIC BACTERIAL CULTURE NO ENTERIC PATHOGENS

Comments >>  
no salmonella, shigella, or excessive yeast  
Accession: 02-239-03556

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 17 -

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 31.Aug.2002  
sandy feces (KR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2002-0308  
Date collected: 3.Sep.2002

Collected from:  
Group of specimens housed together.

Enclosure: ELEPHANT

Examination Data >>

ELEPHANT.TXT

Prescription Data >> Starting date: 4.Oct.2002  
Drug: RABIES VACCINE (KILLED) 2 ml IM  
Formulation: injectable  
Prescribed by: JS (4.Oct.2002) Filled by: JS (4.Oct.2002)  
Treatment weight: 4991 kg

---

Prescription Data >> Starting date: 4.Oct.2002  
Drug: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM  
Formulation: injectable  
Prescribed by: JS (4.Oct.2002) Filled by: JS (4.Oct.2002)  
Treatment weight: 4991 kg  
ENCEPHALOMYELITIS EWV/TETANUS TOXOI = ENCEPHALOMYELITIS,  
EASTERN (KILLED) + ENCEPHALOMYELITIS, WESTERN (KILLED) +  
ENCEPHALOMYELITIS, VENEZUELAN + TETANUS TOXOID

---

Clinical Note: 5.Oct.2002  
sandy feces (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 19 -

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 19.Oct.2002  
sandy feces found in stall (KR)

Clinical Note: 25.Oct.2002  
received bran and equisyl on PM grain (KR)

Clinical Note: 4.Nov.2002  
trimmed some on right and left front foot pads (KR)

Clinical Note: 13.Nov.2002  
sandy feces (KR)

Clinical Note: 14.Nov.2002  
trimmed back left foot pad (KR)

Clinical Note:  
routine culture submitted  
trimmed back right foot pad (KR)

15.Nov.2002

Submission Data >>  
Type: Other sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2002-0390  
Date collected: 15.Nov.2002

Collected from:  
Group of specimens housed together.

Enclosure: ELEPHANT

Examination Data >>  
Storage: room temperature  
Gross appearance: Typical

Date examined: 15.Nov.2002  
by: JS

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 20 -

=====

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female                      Acc. #: 000029  
Age: 31Y 8M 30D                Birth: 28.Jul.1973

=====

Clinical Note:  
routine culture results negative (KR)

22.Nov.2002

Clinical Note:  
tusk marks on back, rear and hips from aggression from cagemate  
Lisa.  
Topically apply betadine PRN ointment or Furazone paste wound dressing  
as needed. (KR)

26.Nov.2002

Clinical Note:  
treated tuskmarks with nitrofurazone cream topically (KR)

27.Nov.2002

Clinical Note:  
urine collected for research study (KR)

29.Nov.2002

Clinical Note:  
sandy stool (KR)

2.Dec.2002

Clinical Note:

4.Dec.2002

nitrofurazone paste on tusk marks from 000028 (KR)

Clinical Note: 30.Dec.2002  
urine sample #10 collected (KR)

Clinical Note: 31.Dec.2002  
can discontinue treatment with betadine ointment topically on  
tuskmarks (KR)

Clinical Note: 3.Jan.2003  
sandy feces found in yard, acting lethargic (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 21 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant          Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====

```

Clinical Note: 19.Jan.2003  
did not bathe in AM, was shivering (KR)

Clinical Note: 21.Jan.2003  
VBGH fecal culture  
accession #03-014-07280  
normal intestinal flora (KR)

Clinical Note: 23.Jan.2003  
vaseline applied to back of ears due to dryness (KR)

Clinical Note: 5.Feb.2003  
sand in feces (1 pile)

Clinical Note: 6.Feb.2003  
sand in feces, 1 pile

Clinical Note: 9.Feb.2003  
urine collected

Clinical Note: 15.Feb.2003  
sandy feces

ELEPHANT.TXT

Clinical Note: 16.Feb.2003  
sandy feces

Clinical Note: 18.Feb.2003  
urine sample collected (KR)

Clinical Note: 23.Feb.2003  
urine sample collected (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 22 -

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 3.Mar.2003  
sandy feces (KR)

Clinical Note: 4.Mar.2003  
3 piles of sandy feces (KR)

Clinical Note: 12.Mar.2003  
sandy feces (KR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2003-0076  
Date collected: 18.Mar.2003

Collected from:  
Group of specimens housed together.

Enclosure: ELEPHANT

Examination Data >>  
Storage: room temperature  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 18.Mar.2003  
by: JS

Tests & Results >>  
FLOATATION

NO PARASITES SEEN

Clinical Note: 25.Mar.2003  
sandy feces observed (KR)

Clinical Note: 30.Mar.2003  
sandy feces observed (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 23 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====
```

Clinical Note: 11.Apr.2003  
TB sample taken (KR)

Clinical Note: 15.Apr.2003  
TB sample taken (KR)

Clinical Note: 17.Apr.2003  
TB sample taken (KR)

Clinical Note: 22.Apr.2003  
sandy feces observed (KR)

Clinical Note: 2.May.2003  
clear vaginal discharge (KR)

Clinical Note: 5.May.2003  
sandy feces (KR)

Clinical Note: 6.May.2003  
sandy feces (KR)

Clinical Note: 9.May.2003  
blood sample taken, serum banked (KR)

Clinical Note: 12.May.2003  
sandy feces (KR)

ELEPHANT.TXT

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 25 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====

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Clinical Note: 23.Jun.2003  
blood taken from left ear, 8cc serum banked (KR)

Clinical Note: 28.Jun.2003  
ate about 2 feet of garden hose, did not eat any metallic pieces, will  
monitor feces (KR)

Clinical Note: 30.Jun.2003  
drew blood 8cc from right ear (Watkins) (KR)

Clinical Note: 4.Jul.2003  
sandy feces (KR)

Clinical Note: 8.Jul.2003  
TB test results: negative  
trunk wash samples taken on April 11, 15, 17  
blood drawn from left ear (Watkins) (KR)

Clinical Note: 9.Jul.2003  
loose stools observed (KR)

Clinical Note: 11.Jul.2003  
fecal culture submitted, observed laying down inside barn 2x's and  
leaning against walls and propping her feet up. appears to have a  
bellyache  
PM--layed down 2-3 times (KR)

Clinical Note: 12.Jul.2003  
loose stools observed, leaning alot and decreased appetite  
found 1 pile of very sandy but loose stool (KR)

Clinical Note: 13.Jul.2003  
sandy feces (KR)

ELEPHANT.TXT

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 26 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
=====

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Clinical Note:                               15.Jul.2003
  blood drawn 8cc from right ear (J. Watkins) (KR)

Clinical Note:                               16.Jul.2003
  sandy feces (KR)

Clinical Note:                               23.Jul.2003
  blood drawn 8cc from left ear (Watkins) (KR)

Clinical Note:                               26.Jul.2003
  4 piles of sandy feces, 4 were runny (KR)

Clinical Note:                               27.Jul.2003
  sandy feces (KR)

Clinical Note:                               28.Jul.2003
  blood taken from Right ear--8cc (Watkins) (KR)

Clinical Note:                               31.Jul.2003
  bran and Equisyl given in AM and PM grain, no sandy feces observed but
  seen eating clay in AM (KR)

Clinical Note:                               5.Aug.2003
  sandy feces (KR)

Clinical Note:                               7.Aug.2003
  blood drawn 8cc from right ear (KR)

Clinical Note:                               11.Aug.2003
  8cc blood drawn from left ear, vein C (KR)

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ELEPHANT.TXT

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 27 -

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=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 31Y 8M 30D  Birth: 28.Jul.1973
Name: MONICA
=====
```

```
Clinical Note:                      15.Aug.2003
sandy feces (KR)

Clinical Note:                      19.Aug.2003
sandy feces, 8cc blood draw from right ear (KR)

Clinical Note:                      21.Aug.2003
sandy feces (KR)

Clinical Note:                      28.Aug.2003
blood drawn 8cc left ear (KR)

Clinical Note:                      3.Sep.2003
sandy feces observed, blood drawn from right ear 8cc (KR)

Clinical Note:                      7.Sep.2003
3 piles of very sandy feces in yard, elephant unknown (KR)

Clinical Note:                      8.Sep.2003
2 piles of sandy feces in yard (KR)

Clinical Note:                      10.Sep.2003
8cc blood taken from left ear (KR)

Clinical Note:                      17.Sep.2003
blood taken 8cc (KR)

Clinical Note:                      25.Sep.2003
Koppertox topically applied to right rear foot
blood drawn 8cc right ear (KR)
```

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 28 -

ELEPHANT.TXT

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

=====

Clinical Note: 29.Sep.2003  
blood taken 8cc, left ear  
nail on right rear foot is hardening, Koppertox discontinued (KR)

Clinical Note: 30.Sep.2003  
Rx: COVEXIN 8 5 ml IM \*\* group treatment \*\*  
Rx: RABIES VACCINE (KILLED) 2 ml IM \*\* group treatment \*\* (JS)

Group Treatment >>  
LOXODONTA AFRICANA AFRICANA/South African bush elephant  
000028 000029

Prescription Data >> Starting date: 30.Sep.2003  
Drug: COVEXIN 8 5 ml IM  
Formulation: injectable  
Prescribed by: JS (30.Sep.2003) Filled by: JS (30.Sep.2003)  
COVEXIN 8 = CLOSTRIDIUM CHAUVOEI BACTERIN + CLOSTRIDIUM  
SEPTICUM BACTERIN + CLOSTRIDIUM HAEMOLYTICUM BACTERIN +  
CLOSTRIDIUM NOVYI BACTERIN + CLOSTRIDIUM TETANI BACTERIN +  
CLOSTRIDIUM PERFRINGENS TYPE C + CLOSTRIDIUM PERFRINGENS TYPE D

Group Treatment >>  
LOXODONTA AFRICANA AFRICANA/South African bush elephant  
000028 000029

Prescription Data >> Starting date: 30.Sep.2003  
Drug: RABIES VACCINE (KILLED) 2 ml IM  
Formulation: injectable  
Prescribed by: JS (30.Sep.2003) Filled by: JS (30.Sep.2003)

Clinical Note: 8.Oct.2003  
blood drawn 8cc, right ear (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 29 -

=====

LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973

Page 105

ELEPHANT.TXT

Name: MONICA

Clinical Note: 16.Oct.2003  
blood drawn 8cc left ear (KR)

Clinical Note: 22.Oct.2003  
drew 8cc blood from right ear (KR)

Clinical Note: 29.Oct.2003  
8cc blood taken left ear (KR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2003-0297  
Date collected: 30.Oct.2003

Collected from:  
Group of specimens housed together.

Enclosure: ELEPHANT

Examination Data >>  
Storage: room temperature  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 30.Oct.2003  
by: JS

Tests & Results >>  
FLOATATION

NO PARASITES SEEN

Clinical Note: 6.Nov.2003  
8cc blood taken (KR)

Clinical Note: 13.Nov.2003  
8cc blood taken left ear (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 30 -

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

Clinical Note:

20.Nov.2003

ELEPHANT.TXT

8cc blood taken from right ear (KR)

Clinical Note: 25.Nov.2003  
8cc blood from left ear (KR)

Clinical Note: 2.Dec.2003  
sandy feces, elephant unknown (KR)

Clinical Note: 4.Dec.2003  
clear vaginal discharge observed  
8cc blood taken from right ear (KR)

Clinical Note: 12.Dec.2003  
8cc blood taken from left ear (KR)

Clinical Note: 18.Dec.2003  
8cc blood drawn from right ear (KR)

Clinical Note: 22.Dec.2003  
8cc blood taken from left ear (KR)

Clinical Note: 23.Dec.2003  
superficial cuts on upper trunk area from sparring with 000028 through  
the bars (KR)

Clinical Note: 31.Dec.2003  
8cc blood taken from right ear, some superficial cuts on her side from  
sparring with Lisa through bars (KR)

Clinical Note: 5.Jan.2004  
sandy feces observed (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 31 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

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Clinical Note: 7.Jan.2004  
8cc blood taken left ear (KR)

Clinical Note: 12.Jan.2004

applying "Bag Balm" topically on ears (superficial scrapes) (KR)

Clinical Note: 15.Jan.2004  
 8cc blood from right ear (KR)

Clinical Note: 20.Jan.2004  
 fecal culture taken (KR)

Clinical Note: 21.Jan.2004  
 8cc blood taken from left ear, betadine applied to right ear (small amount of pus observed) (KR)

Clinical Note: 22.Jan.2004  
 treating scrape on right ear with Betadine BID to fight/inhibit infection (KR)

Clinical Note: 23.Jan.2004  
 vet observed left ear scrape, betadine and bag balm treatment topically (KR)

Clinical Note: 28.Jan.2004  
 vasoline applied to eye area due to dry skin  
 treated some new superficial cuts on right ear with betadine  
 8cc blood from right ear (KR)

Clinical Note: 30.Jan.2004  
 shivering in PM, locked inside barn and heated up building (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 32 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

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Clinical Note: 5.Feb.2004  
 8cc blood from left ear, bag balm applied to right ear marks, 2 piles of sandy feces found (KR)

Clinical Note: 10.Feb.2004  
 moderate amount of sandy feces (KR)

ELEPHANT.TXT

Clinical Note: 12.Feb.2004  
 8cc blood from right ear (KR)

Clinical Note: 18.Feb.2004  
 8cc blood taken from left ear (KR)

Clinical Note: 26.Feb.2004  
 8cc blood from right ear (KR)

Clinical Note: 2.Mar.2004  
 abscess on tail, keep open and treat with betadine daily (KR)

Clinical Note: 3.Mar.2004  
 applied betadine to tail where abscesses noted. Used a syringe filled  
 with betadine to apply betadine  
 9cc blood from left ear (KR)

Clinical Note: 4.Mar.2004  
 sprayed betadine on tail in PM (KR)

Clinical Note: 5.Mar.2004  
 treated tail abscesses with betadine in PM (KR)

Clinical Note: 6.Mar.2004  
 treated tail abscess with betadine (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 33 -

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LOXODONTA AFRICANA AFRICANA	Sex: Female	Acc. #: 000029
South African bush elephant	Age: 31Y 8M 30D	Birth: 28.Jul.1973
Name: MONICA		

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Clinical Note: 8.Mar.2004  
 upper abscess on her tail swollen a bit, will recheck on March 12 (KR)

Clinical Note: 11.Mar.2004  
 8cc blood taken from right ear (KR)

Clinical Note: 12.Mar.2004  
 abscess checked on tail, continue to monitor and treat as prescribed  
 with betadine and keep open for drainage (KR)

Clinical Note: 13.Mar.2004  
treating abscess on tail BID (KR)

Clinical Note: 15.Mar.2004  
treating tail abscess with betadine (KR)

Clinical Note: 16.Mar.2004  
abscess on tail appears to be about to begin draining, treated with  
betadine spray (KR)

Clinical Note: 17.Mar.2004  
abscess on tail appears to be coming to a head, treated with betadine  
(KR)

Clinical Note: 18.Mar.2004  
8cc blood drawn from left ear  
treated abscess on tail with betadine BID (KR)

Clinical Note: 19.Mar.2004  
abscess on tail, no pus. dry chunks of skin came off, skin underneath  
was white. sprayed with betadine, applied betadine paste on tail at  
PM (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 34 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D       Birth: 28.Jul.1973
Name: MONICA
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Clinical Note: 20.Mar.2004  
betadine paste on tail BID topically UFN (KR)

Clinical Note: 22.Mar.2004  
applying betadine cream on her tail (KR)

Clinical Note: 23.Mar.2004  
treated tail with betadine paste (KR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2004-0060  
Date collected: 23.Mar.2004

Collected from:

Enclosure: ELEPHANT

ELEPHANT.TXT

Group of specimens housed together.

Examination Data >>

Storage: room temperature  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 23.Mar.2004

by: JS

Tests & Results >>

FLOATATION

NO PARASITES SEEN

Clinical Note:

8cc blood taken from right ear, treated abscess tail area with  
betadine paste (KR)

25.Mar.2004

Clinical Note:

16cc blood taken from left ear--for research project of elephant bull  
urine. treated tail with betadine (KR)

27.Mar.2004

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 35 -

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

Clinical Note:

16cc blood taken from right ear (KR)

28.Mar.2004

Clinical Note:

6cc blood taken from left ear, 2 attempts  
betadine cream applied to tail abscess (KR)

29.Mar.2004

Clinical Note:

15cc blood taken from right ear (KR)

30.Mar.2004

Clinical Note:

12cc blood taken from right ear (KR)

31.Mar.2004

Clinical Note:

24cc blood taken from right ear (KR)

1.Apr.2004

Clinical Note: 2.Apr.2004  
treated tail abscess with betadine (KR)

Clinical Note: 8.Apr.2004  
8cc blood from right ear (KR)

Clinical Note: 13.Apr.2004  
TB test sample taken (KR)

Clinical Note: 15.Apr.2004  
clear vaginal discharge, 8cc blood taken from left ear (KR)

Clinical Note: 16.Apr.2004  
TB test sample taken (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 36 -

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=====
LOXODONTA AFRICANA AFRICANA      Sex: Female      Acc. #: 000029
South African bush elephant      Age: 31Y 8M 30D  Birth: 28.Jul.1973
Name: MONICA
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Clinical Note: 20.Apr.2004  
TB test sample taken (KR)

Clinical Note: 22.Apr.2004  
8cc blood taken from right ear (KR)

Clinical Note: 29.Apr.2004  
blood drawn (KR)

Clinical Note: 4.May.2004  
sandy feces, one pile (KR)

Clinical Note: 6.May.2004  
8cc blood taken from right ear for hormone study  
10cc blood taken for genetics study (KR)

Clinical Note: 13.May.2004  
8cc blood taken from left ear (KR)

Clinical Note: 18.May.2004  
fecal culture results: normal intestinal flora (KR)

Clinical Note: 20.May.2004  
8cc blood taken from right ear (KR)

Clinical Note: 27.May.2004  
8cc blood taken from left ear (KR)

Clinical Note: 29.May.2004  
mucous discharge observed in feces in AM (KR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 37 -

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=====
LOXODONTA AFRICANA AFRICANA           Sex: Female           Acc. #: 000029
South African bush elephant         Age: 31Y 8M 30D      Birth: 28.Jul.1973
Name: MONICA
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Clinical Note: 23.Jun.2004  
8cc blood drawn (KR)

Clinical Note: 30.Jun.2004  
8cc blood taken from right ear (KR)

Clinical Note: 8.Jul.2004  
8cc blood from right ear (KR)

Clinical Note: 12.Jul.2004  
Rx: ENROFLOXACIN 1000.0 mg as intramuscular implant q7d until further notice. (JS)

Clinical Note: 7.Sep.2004  
Submitted fecal culture to VA Beach General (LDR)

Submission Data >>  
Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2004-0285  
Date collected: 28.Sep.2004

Collected from:  
From an individual specimen.

Enclosure: ELEPHANT

Examination Data >>

ELEPHANT.TXT

Storage: refrigerated  
Consistency: Not specified  
Gross appearance: Typical

Date examined: 28.Sep.2004  
by: JS

Tests & Results >>  
FLOATATION

NO OVA/PARASITES SEEN

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 38 -

LOXODONTA AFRICANA AFRICANA  
South African bush elephant  
Name: MONICA

Sex: Female  
Age: 31Y 8M 30D

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

Clinical Note: 1.Oct.2004  
Rx: IMRAB 2 ml IM once for 1 dose.  
Rx: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once for 1 dose. (JS)

Prescription Data >> Starting date: 1.Oct.2004  
Drug: IMRAB 2 ml IM once  
Formulation: mg/kg injectable  
Prescribed by: JS (1.Oct.2004) Filled by: JS (1.Oct.2004)  
Treatment weight: 4991 kg

Prescription Data >> Starting date: 1.Oct.2004  
Drug: ENCEPHALOMYELITIS EWV/TETANUS TOXOI 2 ml IM once  
Formulation: injectable  
Prescribed by: JS (1.Oct.2004) Filled by: JS (1.Oct.2004)  
Treatment weight: 4991 kg  
ENCEPHALOMYELITIS EWV/TETANUS TOXOI = ENCEPHALOMYELITIS,  
EASTERN (KILLED) + ENCEPHALOMYELITIS, WESTERN (KILLED) +  
ENCEPHALOMYELITIS, VENEZUELAN + TETANUS TOXOID

Clinical Note: 10.Dec.2004  
Rx: NOLVASAN OINTMENT free topically BID until further notice. (JS)

Clinical Note: 10.Dec.2004  
Small abscess on tail: Cleaned dead tissue away, scrubbed with  
betadine solution and rinsed with water. Please apply Nolvasan  
Page 114

ointment to affected area BID. (LDR) ELEPHANT.TXT

Prescription Data >> Starting date: 10.Dec.2004  
Drug: NOLVASAN OINTMENT free topically BID until further  
notice  
Formulation: 20.0 mg/gm ointment  
Prescribed by: JS (10.Dec.2004) Filled by: JS (10.Dec.2004)  
Treatment weight: 4991 kg

Comments >>  
Topical treatment: Apply to tail to coat wound BID  
NOLVASAN OINTMENT = CHLORHEXIDINE DIACETATE + HYDROPHILIC  
OINTMENT BASE

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/ISIS/MedARKS/5.40a

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Clinical Note: 14.Dec.2004  
Recheck abscess: Healing well, continue with nolvasan ointment BID.  
(LDR)

Clinical Note: 31.Dec.2004  
Tail abscess: as tail is looking good, discontinue nolvasan cream. (LDR)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 40 -

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 <sup>3</sup> /UL	10.56 +	2.610	4.500	22.10	(1279)
RBC	*10 <sup>6</sup> /UL	3.18 +	0.38	2.10	4.80	(1297)
HGB	GM/DL	13.8 +	1.5	8.5	23.7	(1335)
HCT	%	39.9 +	4.5	28.0	56.0	(1716)
MCH	MG/DL	43.4 +	2.8	34.8	65.6	(1280)
MCHC	uug	34.6 +	1.8	28.3	47.3	(1320)
MCV	fL	125.7 +	7.7	91.1	190.0	(1285)
SEGS	*10 <sup>3</sup> /UL	3.024 +	1.699	0.000	11.80	(969)
BANDS	*10 <sup>3</sup> /UL	0.854 +	0.743	0.000	3.960	(567)
LYMPHOCYTES	*10 <sup>3</sup> /UL	5.091 +	3.159	0.022	64.40	(978)
MONOCYTES	*10 <sup>3</sup> /UL	1.386 +	1.621	0.000	8.639	(929)
EOSINOPHILS	*10 <sup>3</sup> /UL	0.238 +	0.313	0.000	3.450	(737)
BASOPHILS	*10 <sup>3</sup> /UL	0.044 +	0.077	0.000	0.525	(446)
NRBC	/100 WBC	0 +	1	0	3	(35)
PLATE. CNT.	*10 <sup>3</sup> /UL	422 +	205	11	1031	(147)
RETICS	%	0.0 +	0.0	0.0	0.0	(7)
GLUCOSE	MG/DL	83 +	15	36	174	(1208)
BUN	MG/DL	10 +	3	0	22	(1230)
CREAT.	MG/DL	1.5 +	0.4	0.4	4.5	(1161)
URIC ACID	MG/DL	0.2 +	0.4	0.0	5.1	(457)
CA	MG/DL	11.0 +	0.6	8.1	15.7	(1207)
PHOS	MG/DL	4.9 +	0.8	2.8	8.2	(1172)
NA	MEQ/L	129 +	4	111	159	(1178)
K	MEQ/L	4.8 +	0.5	3.3	7.9	(1192)
CL	MEQ/L	88 +	3	78	98	(1146)
IRON	MCG/DL	81 +	35	12	161	(48)
MG	MG/DL	2.33 +	0.51	1.40	4.20	(62)
HCO3	MMOL/L	25.0 +	2.9	21.0	30.7	(26)
CHOL	MG/DL	67 +	18	0	234	(1128)
TRIG	MG/DL	66 +	30	10	179	(996)
T.PROT. (C)	GM/DL	7.7 +	0.6	5.8	10.5	(1050)
T.PROT. (R)	GM/DL	8.0 +	0.4	7.4	8.6	(8)
ALBUMIN (C)	GM/DL	3.6 +	0.4	2.2	4.6	(983)
GLOBULIN (C)	GM/DL	4.1 +	0.6	2.2	7.6	(975)
AST (SGOT)	IU/L	24 +	9	6	80	(1174)
ALT (SGPT)	IU/L	6 +	7	0	40	(423)

		ELEPHANT.TXT				
T. BILI.	MG/DL	0.2 +	0.1	0.0	1.0	(1015)
D. BILI	MG/DL	0.0 +	0.1	0.0	0.2	(119)
I. BILI.	MG/DL	0.1 +	0.1	0.0	0.9	(118)
AMYLAASE	U/L	3332 +	1484	0	7918	(203)
ALK.PHOS.	IU/L	128 +	63	26	441	(1177)
LDH	IU/L	993 +	569	157	4306	(1065)

Printed on: 27.Apr.2005

/ISIS/MedARKS/5.40a

- page 41 -

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	262 +	215	13	1884	(177)
OSMOLARITY	MOSMOL/L	258 +	4	245	272	(655)
ALPHA GLOB.	MG/DL	0.7 +	0.0	0.7	0.7	(1)
ALPHA-1 GLOB	MG/DL	0.5 +	0.3	0.2	0.8	(3)
ALPHA-2 GLOB	MG/DL	1.1 +	0.4	0.8	1.6	(3)
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	27.1 +	3.1	15.0	61.4	(798)
ESR	MM/HR	27 +	0	27	27	(1)
FIBRINOGEN	MG/DL	226 +	164	0	600	(39)
GGT	IU/L	12 +	5	0	37	(293)
LIPASE	U/L	10 +	12	0	57	(37)
PROGESTERONE	NG/DL	144.5 +	224.3	0.060	1005	(225)
TESTOSTERONE	NG/ML	1.010 +	1.117	0.220	1.800	(2)
TOTAL T4	MCG/DL	11.0 +	5.7	6.9	19.5	(4)
T3 (RIA)	NG/ML	209.0 +	0.0	209.0	209.0	(1)
ALBUMIN (E)	GM/DL	4.3 +	0.2	4.2	4.5	(3)
GAMMA GLOB	GM/DL	1.3 +	0.6	0.7	1.9	(3)

ELEPHANT.TXT

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