

MIAMI METROZOO MEDICAL RECORD

ACQUISITION 02/13/01

SPECIES ELEPHANT, AFRICAN

OR BIRTH est. '79

ACCES.# KM1048 FLORA SEX 0.1 DAM/SIRE BALDING

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DATE: REMARKS

- 02/13/01 Arrived at Metrozoo again, for temporary boarding (& possible breeding) until a retirement facility is completed for her. Health certificate and other documents suggest good general health, with negative fecal exam and TB-test negative within the last year.
- 02/14/01 Already mixed with our elephants, so not really quarantined, but FECAL CULTURE collected anyway.
- 06/20/01 PROC/collected 40-50ml (60ml saline total placed down into trunk) of "trunk wash" sample (after overnight water withholding) for mycobacterial culture on each of three consecutive mornings (6/18, 6/19, & today) - frozen samples from 6/18 & 19, and partially frozen sample from 6/20 sent overnight to NVSL as per USDA-mandated-protocol (well-behaved for collection routine). BLOOD/CBC, chem screen, save serum (collected with trunk-wash routine for annual check). COMT/no signs of ill-health, no problems reported.
- 06/12/02 PROC/collected 40-50ml (60ml saline total placed down into trunk) of "trunk wash" sample (after overnight water withholding) for mycobacterial culture on each of three consecutive mornings (6/10, 6/11, & today) - frozen samples sent overnight to NVSL as per USDA-mandated-protocol (very well-behaved with conditioned trunk-wash procedures).
- 06/25/02 BLOOD/CBC, chem screen; save serum. COMT/annual check of elephants - all reported to be doing well, no problems recognized.
- 06/26/02 Actually, Flora is mildly anemic... with an in-house PCV=28%; she is on a different diet than the other elephants - per her owners - of rolled oats and a general horse-feed (grain). Asked keepers to be sure she has ad lib access to a mineral-salt mix for now.
- 07/02/02 Recheck BLOOD/CBC; in-house PCV=28% again (although CBC done by UofM after overnight wait is remarkably different! - believe those values to be erroneous). COMT/Flora to be fed a higher quality horse-feed and to drop the rolled oats for now; also adding a liquid iron & vitamin supplement made for horses, to her diet TFN. Will plan to recheck her anemia in several months - no clinical problems noted.
- 11/05/02 BLOOD/CBC, chem screen - recheck anemia from July -> in-house PCV=34% (improved).
- 02/12/03 Last day of iron supplementation in feed; still getting the "improved" horse feed and free access to mineral-salt. Recheck blood in 1 or 2 months. - CLM
- 03/12/03 BLOOD/sent banked sample of serum in for West Nile virus serology (survey of elephant collection) - results all negative. - CLM
- 04/08/03 BLOOD/CBC, chem screen, protein electrophoresis, save serum; in-house PCV=30%. COMT/rechecking low-grade chronic anemia ~2mos after discontinuing iron treatment - PCV has decreased again. - CLM
- 05/14/03 ANNUAL (& PRESHIP) TB TESTING: PROC/collected 40-50ml (60ml saline total placed down into trunk) of "trunk wash" sample (after overnight water withholding) for mycobacterial culture on each of three consecutive mornings (5/12, 5/13, & today) - frozen samples from 5/12 & 13, and partially frozen sample from 5/14 sent

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- overnight to NVSL as per USDA-mandated-protocol (well-behaved for collection routine). - CLM
- 06/04/03 WT=9460 lbs. SMM
- 09/16/03 WT=9850 lbs.
- 10/13/03 Senior keeper injured & out-of-work yesterday and elephants all given food & water and checked, but left inside for the day. Elephants shifted outdoors this am, but minimal handling. Flora apparently did not eat her produce or hay last night, and refused her grain and produce this am as well, but seemed OK otherwise (thought she was upset by change in routine). By late in afternoon, Flora was observed out on the paddock repeatedly lying down on side - not very responsive to calls, but breathing OK and aware of surroundings; got up to come in barn when other elephants called in - but bypassed food, spashed some water on herself (did not drink) and then layed down in stall; slightly more bloated on right side of abdomen when viewed from rear; passing a small amount of normal feces when getting up & down, and lots of flatulence; shifts legs around as if uncomfortable; moved into restraint chute without too much trouble; defecated while in chute - at first normal, then soft (probably stress-induced) - temperature of feces=98.7 F, no mucous or blood apparent; less "bloated" when done. BLOOD/CBC, chem screen, save serum; WBC & diff not remarkable except for some possible toxic changes (mild) in PMN's. RX/ampicillin 25 Gms IM (several sites on LH leg); Banamine 3.0 Gms IM (2 sites). Bathed briefly to cool off and relax some, then returned to stall (laid down again quickly); offered some wheat bran & mineral oil to help relieve possible "sand colic" or other enteritis-obstruction. Watch overnight. - CLM
- 10/14/03 A little more comfortable this am - has not defecated overnight, but ate all of her bran & oil and grain & produce last night, didn't mess with hay much; ate more bran & oil from bucket this am and several apples without hesitation; some urine in stall this am (deeper yellow in color than usual) - collected some for URINALYSIS - concentrated but otherwise normal. BLOOD/recheck CBC this am - unremarkable. Keepers instructed to reintroduce to routine except to continue to offer bran BID and to give some alfalfa as a "laxative". Flora still a little off tonight, but came in and began to eat. - CLM
- 10/15/03 Not 100% yet but much better - eating well and has normal feces in pen and on paddock. Blood chemistry results from 10/13 unremarkable. Problem seems to be resolving - return to normal routine. - CLM
- 12/25/03 WT=9736 lbs.
- 02/23/04 Preparing to ship out soon. TB TEST/performed trunk wash with saline (as per 5/14/03) for 3 consecutive days (2/21, 2/22, 2/23) and sent for culture and individual "MTD" (PCR assays) to NVSL. OK'd by Tennessee state vet to ship if MTD tests are negative. COMT/Flora appears to be in excellent condition with no obvious health problems at this time. - CLM
- 03/01/04 WT=10,020 lbs.

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03/02/04 SHIPPED!

Medical History Report - Summary for Individual Specimen  
MIAMI METROZOO

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Scientific Name: LOXODONTA AFRICANA AFRICANA           Accession #: XM1048
Common Name: South African bush elephant             Female
Name: FLORA                                           Birth: 1.Jan.1979 (Estimated)
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.....1988...

29.Dec Obtained from another institution.

.....1991...

24.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN.

9.May Parasitology examination: (PRESHIPMENT SCREENING) Fecal sample.  
NO PARASITES SEEN.

8.Aug Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN.

5.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN.

.....2001...

14.Feb Parasitology examination: (QUARANTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

21.Feb Parasitology examination: (QUARANTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

1.Mar Parasitology examination: (QUARANTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

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

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

29.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

20.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:7.90 \*10<sup>3</sup>/UL; HCT; 40.0%; BUN:9 MG/DL;

24.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

25.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

28.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

Medical History Report - Summary for Individual Specimen  
MIAMI METROZOO

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Scientific Name: **LOXODONTA AFRICANA AFRICANA** Accession #: **XM1048**  
Common Name: **South African bush elephant** Female  
Name: **FLORA** Birth: **1.Jan.1979 (Estimated)**  
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.....2002....

22.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

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

14.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

25.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:4.50 \*10<sup>3</sup>/UL; HCT: 25.0%; BUN:5 MG/DL;

2.Jul Blood sample: (EDTA) Hematology results.  
HCT: 28.0%;

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

25.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

5.Nov Blood sample: (EDTA) (11:30.0) Hematology/Chemistry/Serology results.  
WBC:4.00 \*10<sup>3</sup>/UL; HCT: 40.0%; BUN:5 MG/DL;

20.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

11.Dec Blood sample:

.....2003....

29.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

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

8.Apr Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:6.90 \*10<sup>3</sup>/UL; HCT: 27.0%; BUN:7 MG/DL;

30.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

31.Jul Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

16.Sep Weight: 4469 Kg ( 9850 Lb)

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Scientific Name: LOXODONTA AFRICANA AFRICANA           Accession #: XM1048
Common Name: South African bush elephant             Female
Name: FLORA                                           Birth: 1.Jan.1979 (Estimated)
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.....2003....

- 1.Oct Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN
- 13.Oct Blood sample: (EDTA) (17:00.0) Hematology/Chemistry/Serology results.  
WBC:9.90 \*10<sup>3</sup>/UL; HCT: 32.0%; BUN:7 MG/DL;
- 14.Oct Blood sample: (EDTA) (10:30.0) Hematology/Chemistry/Serology results.  
WBC:7.00 \*10<sup>3</sup>/UL; HCT: 32.0%;  
Clinical note recorded. (CLM)
- 19.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN
- 25.Dec Weight: 4417 Kg ( 9735 Lb)

.....2004....

- 27.Jan Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN
- 2.Mar Removed from collection.