

Clinical Notes - Individual Specimen Report
RIO GRANDE ZOOLOGICAL PARK

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LOXODONTA AFRICANA (no subsp) Sex: Female Acc. #: M98029
African elephant Age: 19Y Est. Birth: 18.Nov.1988
Name: DONNA
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.....2000...

30.Jan.2000

Lab: PCV - 38 %, Total protein(refract) - 7.2 g/dl (RGZ) (MAJ)

6.Aug.2000

Ultrasound exam performed by Dr. Dennis Schmitt, assisted by Dr. Don Neiffer and Gary Miller from Disney's Animal Kingdom. No abnormal findings in the ultrasound exam, they were able to visualize both ovaries and identified follicles on both and the uterus appeared to be normal also. (MJR)

17.Aug.2000

Procedure: blood sample obtained to initiate pre-shipment testing as requested by Disney.
Serum submitted for CBC/Chem to NMVDS.
Serum banked for other tests to send next week.
Fecal- negative on direct and flotation for ova and parasites.
(MJR)

25.Aug.2000

Fecal culture samples were collected 8/21, 8/23, and 8/24 and shipped on ice to TVMDL on 8/24.
Serum was sent to Dr. Jack Gaskin on 8/22 for EMC virus serology.
Plasma was sent to Dr. Ellen Dierenfeld on 8/22 for Vit. E.
Trunk washes were collected 8/21, 8/23, and 8/24 for mycobacterial culture and sent to NVSL on 8/24.
CBC previously drawn apparently clotted, will need to repeat.
Latest estimate on body weight is 5000 lbs. (MJR)

1.Nov.2000

CC: Cohort Irene has cultured positive on a recent trunk wash for Mycobacterium tuberculosis complex, speciation pending.
Due to above, pending transfer to DAK is off.
Trunk wash samples will be collected 11/1/00, 11/3/00 and 11/6/00.
Blood sample obtained for Elisa testing. (MJR)

4.Nov.2000

Donna has chipped small piece off of end of left tusk. Should not be clinically relevant. (EJG)

9.Dec.2000

Trunk wash #2 submitted 11/03/2000 cultured chromogenic and non-chromogenic Mycobacterial species, both of which are definitely not MTB complex.
Smear - neg. (GAD)

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13.Dec.2000

Prophylactic treatment initiated for TB as per USDA guidelines for culture negative contact animals.
Isoniazid 5 mg/kg, est. weight of 6000 lbs or 2700 kg, dose of 13.6 gms of free-base Isoniazid (INH), Sigma corp.
Proc: INH is dissolved in 60-90 ml of warm tap water, aspirated into a 140 cc catheter tip syringe and attached to a 16 FR stomach tube for infusion at arms length into the colon (after manual evacuation by keepers).
Treatment will continue daily for 2 months, then every other day for an additional 4 months. (MJR)

18.Dec.2000

Obs: Both Donna and Irene have shown mild signs of discomfort and pica so far, suspect is a reaction to INH, some decrease in appetite particularly for treats. (MJR)

.....2001....

3.Jan.2001

Trunk wash #01-1 submitted to NMVDL for culture. (GAD)

5.Jan.2001

Trunk wash #01-2 submitted to NMVDL for culture. (GAD)

6.Jan.2001

Trunk wash #1 submitted 11/01/2000 cultured negative for Mycobacteria.
Smear - neg. (GAD)

9.Jan.2001

Trunk wash #3 submitted 11/06/00 cultured negative for Mycobacteria.
Smear - neg.
Trunk wash #01-3 submitted to NMVDL for culture. (GAD)

10.Jan.2001

Blood drawn from right ear for TB drug serum levels.
Assessed liver enzymes: AST = 25.8 (normal); ALT = <5.0 (normal).
(EJG)

11.Jan.2001

Blood sample submitted for INH drug levels. (GAD)

22.Jan.2001

INH blood levels for sample drawn 01/10/2001 - 0.54 MCG/ML. Results were received from Jewish Center on 01/19/2001. Dr Gentz drew blood today for CBC in/house SGPT & SGOT & INH levels SGPT results - <5.00 U/L & SGOT results - 38.7 U/L.
Note that dose on INH was increased to 17 grams sid on 1-19-2001
(CF)

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1.Feb.2001

INH blood levels for sample drawn 01/22/2001 = 1.42 mcg/ml (Ranges = 1-2 mcg/ml). (CF)

5.Feb.2001

Blood sample drawn today for TB drug serum levels, In-house CBC and Liver enzymes. In-house CBC essentially normal. PCV - 45/ TPP - 8.0 (GAD)

6.Feb.2001

Trunk wash #01-4 submitted to NMVDS for mycobacterial culture. Serum sample submitted to Jewish Center for INH levels. (GAD)

8.Feb.2001

SGPT & SGOT Levels for blood drawn 02-05-01 are: SGPT = 6.13 U/L @ 37/C SGOT = 19.2 U/L @ 37/C.
Trunk wash #01-05 submitted to NMVDS for culture. (CF)

13.Feb.2001

Trunk wash #01-6 submitted to NMVDS for culture. (GAD)

14.Feb.2001

Results of INH levels sent to Jewish Center on 02-25-01 - 1.48 mcg/ml. Within human therapeutic range. (CF)

20.Feb.2001

Annual routine fecal examination performed today. Results negative. (CF)

23.Feb.2001

Trunk wash #01-4 submitted 02-06-01 overgrown. Smear negative. (CF)

2.Mar.2001

Trunk wash #01-7 submitted for mycobacterial culture to NMVDS. (CF)

3.Mar.2001

Obs: has completed 2 months of SID therapy with INH. Cultures have consistently been negative both before and after treatment for Donna and all contact elephants.
Plan: switch to every other day treatment for the next 4 months at the same dose. (MJR)

6.Mar.2001

Trunk wash #01-8 submitted for mycobacterial culture to NMVDS. (CF)

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7.Mar.2001

Trunk wash #01-1 submitted 01/03/01 cultured negative for Mycobacterium.
Smear negative.
Trunk wash #01-2 submitted 01/05/01 cultured negative for Mycobacterium.
Smear negative
Trunk wash #01-3 submitted 01/09/01 cultured positive for M.flavescens, second isolate identified as M. pulveris.
Smear negative. (CF)

8.Mar.2001

Trunk wash #01-9 submitted for mycobacterial culture to NMVDS.

TB Elisa report from Chatterjee's lab:
We processed 4 elephant serum samples for TB ELISA test in accordance with the USDA Guidelines for the Control of Tuberculosis in Elephants. The names of the elephants submitted to study are Alice, Donna, Irene and Rozana. We did several experiments by triplicate using different serum dilutions and determinate antigens from different Mycobacteria strains. We used sonicated cells, culture filtrate proteins (CFP) and purified lipoarabinomannan (LAM) from Mycobacterium tuberculosis H37 Rv.

We also used sonicated cells from Mycobacterium avium complex (MAC), and sonicated cells from Mycobacterium bovis BCG (Copenhagen and Japan strains). The results showed negative answers for all antigens tested for Alice, Donna and Rozana elephants. Irene, was the only elephant that gave positive answers to sonicated M. bovis 'BCG cells (Copenhagen and Japan strains) and to CFP of M. tuberculosis H37Rv using ELISA, (See attached Table).
Blood drawn by keepers and serum banked. ALT(SPGT) - <5.00, AST(SGOT) - 15.0 in house. (CF)

22.Mar.2001

Liver values on sample obtained today: SPGT(<5.00), SGOT(20.7)
(GAD)

4.Apr.2001

Lab: Trunk wash #01-10 submitted to NMVDS for Mycobacterial culture.
(GAD)

6.Apr.2001

Lab: Trunk wash #01-11 submitted to NMVDS for Mycobacterial culture.
(GAD)

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10.Apr.2001

Lab: Trunk wash #01-12 submitted to NMVDS for Mycobacterial culture.
(GAD)

12.Apr.2001

Blood drawn - CBC performed in-house, SGOT = 12.2, SGPT = <5.00
(CF)

20.Apr.2001

Trunk wash #01-6 submitted 2-13-01 cultured negative for
Mycobacterium. (CF)

21.Apr.2001

Trunk wash #01-11 submitted 4-6-01 cultured Overgrown. (CF)

2.May.2001

Trunk wash #01-13 submitted to NMVDS for mycobacterial culture.
(GAD)

3.May.2001

Trunk wash #01-07 submitted 03-02-01 cultured negative for
Mycobacterium.
Comment: Uncharacterized mycobacterium similar to M.flavescens.
(CF)

4.May.2001

Trunk wash #01-15(oops!) submitted to NMVDS for mycobacterial culture.
(GAD)

7.May.2001

Trunk wash #01-14 submitted to NMVDS for mycobacterial culture,
(GAD)

8.May.2001

Trunk wash #01-5 submitted 2/8/01 cultured uncharacterized
Mycobacteria similar to M. flavascens consistent with CDC designation
"NCP 201A". Smear negative. (GAD)

9.May.2001

Trunk wash #01-8 submitted 3/6/01 cultured negative for Mycobacteria.
Smear negative. (GAD)

10.May.2001

Trunk wash #01-9 submitted 3/8/01 cultured negative for Mycobacteria.
Smear negative. (GAD)

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11.May.2001

Trunk wash 01-12 submitted 4-10-01 cultured overgrown.
Smear negative. (CF)

6.Jun.2001

Trunk wash #01-16 submitted to NMVDS for mycobacterial culture.
(GAD)

7.Jun.2001

Trunk wash #01-10 submitted 04/04/01 cultured negative for
Mycobacterium. Smear negative. (CF)

8.Jun.2001

Trunk wash #01-17 submitted to NMVDS for Mycobacterial culture.
(GAD)

11.Jun.2001

Trunk wash #01-18 submitted to NMVDS for Mycobacterial culture.
(GAD)

14.Jun.2001

Routine CBC run in house revealed slightly elevated WBC (18,750). All
else WNL and behavior unchanged. Requested repeat blood draw in a week
to recheck. (GAD)

26.Jun.2001

Trunk wash #01-13 submitted 5/2/01 cultured negative for
mycobacterium.
Smear negative. (GAD)

27.Jun.2001

Trunk wash #01-14 submitted 5/7/01 cultured negative for
Mycobacterium.
Smear negative. (GAD)

28.Jun.2001

Trunk wash #01-15 submitted 5/5/01 cultured negative for
Mycobacterium. Smear negative.
Froze serum for post treatment chemistry panel. In house CBC shows
continued elevated WBC, otherwise normal. Keepers report activity and
food intake normal (GAD)

2.Jul.2001

Submitted serum for post treatment chem panel to NMVDS. (GAD)

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- 3.Jul.2001
Post treatment chem panel WNL. (GAD)
- 9.Jul.2001
Trunk wash #01-19 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 11.Jul.2001
Trunk wash 01-20 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 13.Jul.2001
Trunk wash #01-21 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 19.Jul.2001
Liver Values run today: SGOT = 12.6 SGPT = <5.0 (normal) (CF)
- 24.Jul.2001
Trunk wash #01-17 submitted 6/8/01 cultured negative for
Mycobacterium. Smear negative. (GAD)
- 27.Jul.2001
Liver values run today: SGOT = 11.2 SGPT = <5.0 (CF)
- 6.Aug.2001
Trunk wash #01-22 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 8.Aug.2001
Trunk wash #01-23 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 9.Aug.2001
Lab: SGPT = <5.0, SGOT = 14.9 (normal) (CF)
- 10.Aug.2001
Trunk wash #01-24 submitted to NMVDS for Mycobacterial culture.
(GAD)
- 15.Aug.2001
Lab: Sent serum sample drawn and frozen 6/28/01 to NMVDS for vitamin
E level. (GAD)
- 16.Aug.2001
Lab: SGPT = <5.0, SGOT = 16.0 (normal) (CF)

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24.Aug.2001

Results: Vitamin E level of sample drawn 06-28-01 and sent 08-15-01 is 0.27 ug/ml. Low. (CF)

27.Aug.2001

Trunk wash #01-19 submitted 07-09-01 cultured negative for Mycobacteria. Smear negative. (CF)

28.Aug.2001

Trunk wash #01-20 submitted 07-11-01 cultured negative for Mycobacteria. Smear negative. (CF)

30.Aug.2001

Lab: SGPT = <5.0, SGOT = 13.5 (normal) (CF)

4.Sep.2001

Trunk wash #01-21 submitted 7/13/01 cultured negative for Mycobacterium. Smear negative. (GAD)

5.Sep.2001

Trunk wash #01-25 submitted to NMVDS for Mycobacterial culture. (CF)

6.Sep.2001

Lab: In-House SGPT = <5.0, SGOT = 12.7 (normal) (CF)

7.Sep.2001

Trunk wash #01-26 submitted to NMVDS for Mycobacterial culture. (CF)

10.Sep.2001

Trunk wash #01-27 submitted to NMVDS for Mycobacterial culture. (GAD)

20.Sep.2001

Blood drawn for Vitamin E level. Submitted to VDS. (CF)

25.Sep.2001

Trunk wash #01-22 submitted 08-08-2001 cultured negative for Mycobacterium. Smear Negative. (CF)

28.Sep.2001

Trunk wash #01-16 submitted 06-06-01 cultured positive for M.flavescens. Smear negative. (CF)

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29.Sep.2001

Trunk wash #01-23 submitted 08-08-01 cultured positive for
M.flavescens. Smear negative. (CF)

1.Oct.2001

Trunk wash #01-28 submitted to NMVDS for Mycobacterial culture.
(GAD)

2.Oct.2001

Trunk wash #01-24 submitted 08-10-01 cultured negative for
Mycobacterium. Smear negative. (CF)

3.Oct.2001

Trunk wash #01-29 submitted to NMVDS for Mycobacterial culture.
(GAD)

4.Oct.2001

Lab: Vitamin E level sent 9/20/01 = 1.42 ug/ml. Acceptable. (CF)

5.Oct.2001

Trunk wash #01-30 submitted to VDS for Mycobacterium culture. (CF)

9.Oct.2001

Trunk wash #01-18 submitted 6/11/01 cultured negative for Mtb, but
cultured out Mycobacterium fortuitum. Smear negative. (GAD)

24.Oct.2001

Trunk wash #01-25 submitted 09/05/01 cultured negative for
Mycobacterium. Smear negative. (CF)

29.Oct.2001

Trunk wash #01-27 submitted 09/10/01 cultured negative for
Mycobacterium. Smear negative. (CF)

5.Nov.2001

Trunk wash #01-31 submitted to VDS for Mycobacterial culture. (CF)

7.Nov.2001

Trunk wash #01-32 submitted to VDS for Mycobacterial culture. (GAD)

9.Nov.2001

Trunk wash #01-33 submitted to NMVDS for Mycobacterial culture.
(GAD)

19.Nov.2001

Trunk wash #01-28 submitted 10/01/01 cultured negative for
Mycobacterium. Smear negative. (GAD)

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20.Nov.2001

Trunk wash #01-29 submitted 10/03/2001 cultured negative for Mycobacterium. Smear negative. (GAD)

26.Nov.2001

Trunk wash #01-26 submitted 9/07/2001 cultured negative for Mycobacterium. Smear negative. (GAD)

2.Dec.2001

Trunk wash #01-34 submitted to VDS for Mycobacterial culture. (CF)

3.Dec.2001

Trunk wash #01-30 submitted 10/05/2001 cultured negative for Mycobacterium. Smear negative. (GAD)

5.Dec.2001

Trunk wash #01-35 submitted to VDS for Mycobacterial culture. (CF)

7.Dec.2001

Trunk wash #01-36 submitted to VDS for Mycobacterial culture. (CF)

19.Dec.2001

Trunk wash #01-35 submitted 12/5/01 cultured overgrown. Smear negative. (GAD)

.....2002....

3.Jan.2002

Trunk wash #01-33 submitted 11-09-2001 cultured negative for Mycobacterium. Smear negative. (CF)

23.Jan.2002

Trunk wash #01-31 submitted 11/05/2001 cultured Mycobacterium avium complex. Smear was negative. (CF)

24.Jan.2002

Trunk wash #01-32 submitted 11/07/2001 cultured an M.flavescens like organism. Presumptive MOTT identified as NCP201. Smear negative. (CF)

25.Jan.2002

Trunk wash #01-34 submitted 12/03/2001 cultured negative for Mycobacteria. Smear negative. (CF)

29.Jan.2002

Trunk wash #01-36 submitted 12/07/2001 cultured negative for Mycobacteria. Smear negative. (CF)

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28.Mar.2002

Lab: Routine yearly fecal float performed. Results negative.
(CF)

3.Jun.2002

Trunk wash #02-1 submitted to NMVDS for Mycobacterial culture.
(GAD)

5.Jun.2002

Trunk wash #02-2 submitted to NMVDS for Mycobacterial culture.
(GAD)

7.Jun.2002

Trunk wash #02-3 submitted to NMVDS for Mycobacterial culture.
(GAD)

18.Jul.2002

Trunk wash #02-02 submitted 06-05-02 cultured Presumptive
Mott(negative for M.tb.). Smear negative. (CF)

23.Jul.2002

Trunk wash #02-1 submitted 06-03-02 cultured negative for
Mycobacterium. Smear negative. (CF)

30.Jul.2002

Trunk wash #02-3 submitted 06-07-02 cultured negative for
Mycobacterium. Smear negative. (CF)

12.Aug.2002

Lab: Serum vitamin E results of sample sent 7-29-02: 0.46 ug/ml
reference range - 0.75-1.3 ug/ml. (CF)

26.Aug.2002

Lab: Submitted serum frozen from 4/4/02 to NMVDS for Vitamin E
comparison with levels drawn after switching to new elephant
supplement formula. (GAD)

6.Sep.2002

Lab: Trunk wash #02-04 submitted to NMVDS for Mycobacterial culture.
(GAD)

9.Sep.2002

Lab: Trunk wash #02-05 submitted to NMVDS for Mycobacterial culture.
(GAD)

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11.Sep.2002

Lab: Trunk wash #02-06 submitted to NMVDS for Mycobacterial culture.
(GAD)

1.Oct.2002

Obs: Serum Vitamin E is too low from sample taken in August- research into possible causes reveals that she may not be getting adequate supplement with the TPGS in it. Elephant manager claims that if they supplement more than they are currently feeding that the elephants won't respond to verbal commands. A sample of the elephant supplement (Mazuri TPGS) was sent for analysis and came back very low but subsequent conversations with Dr. Dave Salmon indicate that a special analysis must be performed to accurately measure the TPGS.
Plan: begin supplementing with 2,500 (5cc) IU of Vitamin E daily in the form of Emcelle Tocopherol in addition to the feed. This is 1 IU/kg, range is 1-3 from Emcelle label, so should be adequate with the feed. (MJR)

7.Oct.2002

Lab: Trunk wash #02-07 submitted to NMVDS for Mycobacterial culture.
(GAD)

9.Oct.2002

Lab: Trunk wash #02-08 submitted to NMVDS for Mycobacterial culture.
(GAD)

11.Oct.2002

Lab: Trunk wash #02-09 submitted to NMVDS for Mycobacterial culture.
(GAD)

27.Oct.2002

Lab: Trunk wash #02-04 submitted 09/06/02 cultured negative for Mycobacterium.
Smear negative. (GAD)

28.Oct.2002

Lab: Trunk wash #02-05 submitted 09/09/02 cultured negative for Mycobacterium.
Smear negative. (GAD)

29.Oct.2002

Lab: Trunk wash #02-06 submitted 09/11/02 cultured negative for Mycobacterium.
Smear negative. (GAD)

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21.Nov.2002

Lab: Serum submitted to NMVDS for Vitamin E level. (GAD)

27.Nov.2002

Lab: Trunk wash #02-07 sent 10-07-02 cultured negative for Mycobacteria. Smear negative. (CF)

28.Nov.2002

Lab: Serum Vitamin E on sample sent 11/21/02: 0.72ug/ml, low. (CF)

29.Nov.2002

Lab: Trunk wash #02-08 sent 10-09-02 cultured negative for Mycobacteria. Smear negative. (CF)

6.Dec.2002

Lab: Trunk wash #02-09 sent 10-11-02 cultured negative for Mycobacteria. Smear negative. (CF)

7.Dec.2002

Increase Emcelle supplementation (1-3 IU/lb) to 6000IU (6cc). Will recheck vitamin E levels at six weeks from this date and possibly double the dose when elephants are switched back to previous supplement. (CF)

.....2003...

13.Jan.2003

Lab: Trunk wash #03-01 submitted to NMVDS for Mycobacterial culture. (GAD)

15.Jan.2003

Lab: Trunk wash #03-02 submitted to NMVDS for Mycobacterial culture. (GAD)

16.Jan.2003

Lab: Yearly routine fecal float performed. Results negative. A pre-shipment fecal sample was sent to VDS and results came back as positive for ascarids. A fecal sample was re-run in-house and it is believed that VDS falsely identified pollen as ascarid ova. (CF)

17.Jan.2003

Lab: Fecal culture results on sample sent 1-13-03: Salmonella not isolated. (CF)

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17.Jan.2003

Lab: Trunk wash #03-03 submitted to NMVDS for Mycobacterial culture.
Also sent blood sample for CBC/Chem. (GAD)

18.Jan.2003

Lab: CBC/Chem results unremarkable. (GAD)

29.Jan.2003

Lab: Vitamin E results on sample sent 1-20-03: 0.90ug/ml, range is
0.75-1.3ug/ml. (CF)

4.Mar.2003

Lab: Trunk wash #03-01 sent 1-13-03 cultured negative for
Mycobacterium. Smear negative. (CF)

5.Mar.2003

Lab: Trunk wash #03-02 sent 1-15-03 cultured negative for
Mycobacterium. Smear negative. (CF)

26.Mar.2003

Lab: Trunk wash #03-03 sent 1-17-03 cultured negative for
Mycobacterium. Smear negative. (CF)

14.Apr.2003

Lab: Results of progesterone tracking data in on samples sent to
Smithsonian National Zoological Park Conservation Center in January on
samples covering years 2001 and 2002.
Donna appears to be cycling. Details in hard copy records. (CF)

13.May.2003

Lab: Vitamin E results on sample sent 5-1-03: 0.75ug/ml.
CC: This level very low normal (range 0.75 - 1.3) so will increase
emcelle supplementation to 8000IU (8 cc) SID and recheck at six weeks.
(CF)

1.Jul.2003

Lab: Trunk wash #03-04 submitted to NMVDS for Mycobacterial culture.
(GAD)

3.Jul.2003

Lab: Trunk wash #03-05 submitted to NMVDS for Mycobacterial culture.
(GAD)

7.Jul.2003

Lab: Trunk wash #03-06 submitted to NMVDS for Mycobacterial culture.
(GAD)

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16.Jul.2003

Radiographed right front foot to begin building a technique chart for elephant foot radiographs. Initial results are promising as it is possible to visualize P3 on most of the toes and good visualization of P1-P2 on all toes.

Plan: due to staffing in elephant barn, plan on doing foot rads every Thurs until a complete chart on all elephants is developed. (MJR)

24.Jul.2003

Lab: Blood sent to VDS for Vitamin E level (CF)

13.Aug.2003

Serum Vitamin E reported as 0.13 ug/ml. This is as low as she has been since arrival, need to increase the dose of Emcelle significantly and retest.

Currently on 8 ml daily, will increase to 8 ml BID. (MJR)

19.Aug.2003

Lab: Trunk wash #03-04 sent 07-01-03 cultured negative for Mycobacterium. smear negative. (CF)

27.Aug.2003

Lab: Trunk wash #03-07 submitted to NMVDS for Mycobacterial culture. (GAD)

28.Aug.2003

Lab: Trunk wash #03-05 sent 07-03-03 cultured negative for Mycobacterium. Smear negative. (CF)

29.Aug.2003

Lab: Trunk wash #03-06 sent 07-07-03 cultured overgrown. Smear negative.

Trunk wash #03-08 submitted to NMVDS for Mycobacterial culture. (CF)

2.Sep.2003

Lab: Trunk wash #03-09 submitted to NMVDS for Mycobacterial culture. (GAD)

16.Sep.2003

Lab: Results of serum vitamin E sent 9-4-03: 0.85 ug/ml. Reference range

0.75 - 1.3 ug/ml. Is on 8ml Emcelle Bid and per Dr. Richard will continue at this dose. (CF)

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16.Oct.2003

Lab: Trunk wash #03-07 sent 08-27-03 cultured negative for Mycobacterium. Smear negative. (CF)

20.Nov.2003

Lab: Trunk wash #03-08 sent 8/29/03 cultured negative for Mycobacterium. Smear negative.

Trunk wash #03-09 sent 9/02/03 cultured negative for Mycobacterium. Smear negative. (GAD)

21.Nov.2003

Preshipment exam- Donna will be shipped to Disneys Animal Kingdom in Fla. within the next few days.

PE: No abnormal findings, feet are in good shape, most recent trunk washes from Sept. have been reported as negative.

Medical history has been forwarded to receiving institution several months ago, no significant changes since that time. (MJR)