

Clinical Notes - Individual Specimen Report
RIO GRANDE ZOOLOGICAL PARK

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<i>ELEPHAS MAXIMUS</i> (no subsp)	Sex: Male	Acc. #: M03030
Indian elephant	Age: 9Y 1M 3D	Birth: 4.May.1998
Name: SAMSON		

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.....2003....

21.Nov.2003

Lab: Sent samples for CBC and vitamin E to NMVDS. Lab was unable to run CBC as sample was clotted. (GAD)

3.Dec.2003

Lab: Serum vitamin E results on sample sent 11/21/03: 1.76ug/ml.
Ref.range = 0.75 - 1.3ug/ml with a median concentration of 1.0ug/ml.
(CF)

.....2004....

5.Jan.2004

Lab: Trunk wash #04-01 submitted to NMVDS for Mycobacterial culture.
(GAD)

7.Jan.2004

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

9.Jan.2004

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

3.Feb.2004

Lab: Trunk wash #04-02 sent 01-07-04 cultured overgrown. Smear = no result. (CF)

4.Feb.2004

Lab: Trunk wash #04-03 sent 01-12-04 cultured overgrown. Smear = negative. (CF)

25.Feb.2004

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

25.Jun.2004

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

7.Jul.2004

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

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9.Jul.2004

Lab: Trunk wash #04-05 submitted to NMVDS for Mycobacterial culture.
(GAD)

12.Jul.2004

Lab: Trunk wash #04-06 submitted to NMVDS for Mycobacterial culture.
(GAD)

30.Aug.2004

Lab: Trunk washes #04-04, #04-05 sent 7-7-04 and 7-9-04 respectively,
cultured Presumptive MOTT. Chromogenic AFB isolated - not TB - no
further identification. Smears negative. (CF)

31.Aug.2004

Lab: Trunk wash #04-06 sent 7-12-04 cultured negative for
Mycobacterium. Smear negative. (CF)

.....2005....

5.Jan.2005

Lab: Trunk wash #05-01 submitted to NMVDS for Mycobacterial culture.
(GAD)

7.Jan.2005

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

10.Jan.2005

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

9.Feb.2005

Lab: Trunk wash #05-01 submitted 1/5/05 cultured overgrown. Smear
negative. (GAD)

4.Mar.2005

Lab: Trunk wash #05-02 submitted 1/7/05 cultured negative for
Mycobacteria. Smear negative. (GAD)

5.Mar.2005

Lab: Trunk wash #05-03 submitted 1/10/05 cultured negative for
Mycobacteria. Smear negative. (GAD)

8.Apr.2005

Obs: Ultrasound of the bladder by Charlie Gray during routine

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8.Apr.2005

assessment for semen collection reveals a lot of small calculi in the urinary bladder. Half sibling was treated for urinary obstruction from similar calculi in Canada and the recommendation is to acidify the urine, use softened water, feed a lower calcium content hay like oat.

Semen collection was marginally successful with some semen produced but of low quantity and quality. (MJR)

13.Apr.2005

Instructed keepers to collect urine 2 or 3 times weekly for baseline quantitative crystal analysis.

Lab: First sample collected today, midstream catch.

Measured trace crystals in 10 ml urine. Confirmed calcium carbonate composition. (GAD)

27.Apr.2005

Lab: Urine sample: Measured 11 mm crystals in 10 ml urine. Calcium carbonate. (GAD)

28.Apr.2005

Lab: Urine sample: Measured 17 mm crystals in 10 ml urine. Calcium carbonate. (GAD)

6.Jul.2005

Lab: Trunk wash #05-04 submitted to NMVDS for Mycobacterial culture. (GAD)

8.Jul.2005

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

11.Jul.2005

Lab: Trunk wash #05-06 submitted to NMVDS for Mycobacterial culture. (GAD)

12.Jul.2005

Lab: Routine yearly fecal float performed on refrigerated individual sample. Results negative. (CF)

20.Jul.2005

Lab: Urine sample - measured 8 mm crystals in 10 ml urine. Calcium carbonate. (GAD)

1.Aug.2005

Lab: Trunk wash #05-05 submitted 7/7/05 cultured overgrown. Smear negative. (GAD)

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9.Aug.2005

Lab: Trunk wash #05-06 submitted 7/11/05 cultured overgrown. Smear negative. (GAD)

7.Sep.2005

Lab: Trunk wash #05-07 submitted to NMVDS for Mycobacterial culture. (GAD)

8.Sep.2005

Lab: Keeper brought over a swab of exudate from right ear. Has a strong "foot" odor, whitish and pasty. Stained smear of exudate shows only epithelial cells, a small number of cocci bacteria, and rare yeast. Asked keeper to watch and bring another sample if condition worsens. (GAD)

9.Sep.2005

Lab: Trunk wash #05-08 submitted to NMVDS for Mycobacterial culture. (GAD)

12.Sep.2005

Lab: Trunk wash #05-09 submitted to NMVDS for Mycobacterial culture. (GAD)

5.Oct.2005

Lab: Trunk wash #05-04 submitted 7/6/05 cultured negative for Mycobacteria. Smear negative. (GAD)

22.Nov.2005

Lab: Trunk wash #05-07 submitted 9/7/05 cultured overgrown. Smear negative. (GAD)

23.Nov.2005

Lab: Trunk wash #05-08 submitted 9/9/05 cultured overgrown. Smear negative. (GAD)

24.Nov.2005

Lab: Trunk wash #05-09 submitted 9/12/05 cultured overgrown. Smear negative. (GAD)

5.Dec.2005

Lab: Trunk wash #05-10 submitted to NMVDS for Mycobacterial culture. Resubmitting this month since last 3 cultures overgrew. Tried flushing trunk with saline 1/2 hour before collecting wash to obtain a cleaner sample. Will submit another set with regular six month collections next month as well. (GAD)

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7.Dec.2005

Lab: Trunk wash #05-11 submitted to NMVDS for Mycobacterial culture.
(GAD)

9.Dec.2005

Lab: Trunk wash #05-12 submitted to NMVDS for Mycobacterial culture.
(GAD)

.....2006....

9.Jan.2006

Lab: Trunk wash #06-01 submitted to NMVDS for Mycobacterial culture.
(GAD)

11.Jan.2006

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

13.Jan.2006

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

29.Jan.2006

Lab: Trunk wash #05-10 submitted 12/05/2005 cultured negative for mycobacterium. Smear negative. (LV)

30.Jan.2006

Lab: Trunk wash #05-11 submitted 12/07/2005 cultured negative for mycobacterium. Smear negative. (LV)

31.Jan.2006

Lab: Trunk wash #05-12 submitted 12/09/2005 cultured negative for mycobacterium. Smear negative. (LV)

1.Apr.2006

Lab: Trunk wash #06-01 submitted 1/9/06 cultured negative for Mycobacteria. Smear negative. (GAD)

2.Apr.2006

Lab: Trunk wash #06-02 submitted 1/11/06 cultured negative for Mycobacteria. Smear negative. (GAD)

3.Apr.2006

Lab: Trunk wash #06-03 submitted 1/13/06 cultured negative for Mycobacteria, positive for a presumptive MOTT. Smear negative.
(GAD)

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1.May.2006

CC: Sustained a laceration to the septum of his trunk on 4/30/06.
PE: There is a fairly deep curving laceration inside the right nostril on the medial side that curves from the tip upward. Keepers are using Betadine flushes to clean it and he is tolerating that well, advised to continue and report any changes. (MJR)

28.Jun.2006

Lab: Semen collected today by Alice's AI team contains bacteria and much cellular debris. They requested the sample be submitted for culture. (GAD)

7.Jul.2006

Lab: Trunk wash #06-04 submitted to NMVDS for Mycobacterial culture. (GAD)

11.Jul.2006

Lab: Trunk wash #06-05 submitted to NMVDS for Mycobacterial culture. (GAD)

12.Jul.2006

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

14.Jul.2006

Lab: Serum sample submitted to NMVDS for routine serum Vitamin E. (GAD)

19.Jul.2006

Weight: 1727 Kg (3807 Lb)

Note: Weight. (GAD)

21.Jul.2006

Lab: Serum Vitamin E: 1.43. Within acceptable limits.

Lab: Culture results on semen sample sent 6/28:

Few *Cornnebacterium minutissimum*

Rare *Actinomyces viscosus*

Both organisms are too slow growing for sensitivity testing.

CC: Neither organism is considered to be pathogenic in the reproductive tract. No treatment at this time. (GAD)

24.Jul.2006

CC: Semen collected yesterday contained WBCs and large numbers of bacteria. Keepers instructed to collect a urine sample today.

Lab: Urinalysis on medium yellow, clear urine collected today has a spec. grav. of 1.018, pH 8.5, prot +++. Sediment contains +++cocci type bacteria and triple phosphate crystals 1-2/hpf but no cells. Submit rest of sample to NMVDS for culture. (GAD)

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28.Jul.2006

Lab: Culture results on urine sample sent 7/25:
Few mixed growth
CC: No treatment at this time. (LV)

28.Aug.2006

Lab: Trunk wash #06-04 submitted 7/7/06 cultured negative for
Mycobacteria. Smear negative. (GAD)

29.Aug.2006

Lab: Trunk wash #06-05 submitted 7/11/06 cultured negative for
Mycobacteria. Smear negative. (GAD)

30.Aug.2006

Lab: Trunk wash #06-06 submitted 7/12/06 cultured negative for
Mycobacteria. Smear negative. (GAD)

31.Oct.2006

Note: All trunk washes from herd have been consistently negative.
Decrease to once yearly trunk washes in July for TB screens. When
ELISA for TB becomes commercially available, will likely switch to
that method for screening. (GAD)