



WOODLAND PARK ZOO

Medical Records on Watoto

5/8/08 through 8/5/08

Including Smithsonian National Lab from

4/27/08 through 8/5/08

22 pages

Clinical Pathology Records - Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 20132
East African bush elephant           Age: 39Y 6M Est. Birth: 29.Jan.1969
Name: WATOTO
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Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3810 Kg on 8.Apr.2008
Manual restraint used.

Date of Collection: 24.Apr.2008
Time of Collection: 8:05.1
Collected by: PAT
Sample Collection Site: EAR VEIN

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Hematology >>
Analysis Information >>
Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: NATIONAL ZOO
Date of Analysis: 24.Apr.2008
Time of Analysis:
Analysis by:
Automated analysis.

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Tests and Results >>
EEHV-DX (PCR)          EEHV3+

ISIS Reference Values >>
Mean  S.D.  Min.  Max.  (N)

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Comments >>

From the EEHV Lab: These results are from many different primers, and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if the sequence came back that rule out EEHV; the sample is marked as (-)).

Note: the 04/24/08 sample from Watoto that is listed as EEHV 3(+) - this could be a true (+) (recrudescence) or it could be due to contamination from a (+) control.

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 20132
East African bush elephant           Age: 39Y 6M Est. Birth: 29.Jan.1969
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.....2008...

29.Apr.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION, RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE

Recheck exam and treatment for persistent partial anorexia and lethargy.

Exam, recheck: Minimal food intake and fecal production overnight. Attitude is lethargic but still investigative and interactive. Improved food intake in PM following IV phenylbutazone (mixed with 500 ml of sterile saline) in LR medial leg vein; unable to maintain IV patency to facilitate IV fluid administration. KPRs report some improvement in food intake and attitude in the PM.

Blood sample collected - EDTA and serum to PHX for CBC/panel/fibrinogen and in-house TP/PCV (WNL).

Urine collection/free-catch - for in-house UA (WNL).

Feces - to PHX for aerobic C&S (day 1/5)

Blood sample collected - EDTA and serum to EEHV lab for PCR. Additional banked EDTA samples from 24Apr08 and 27Apr08, in addition to 29Apr08 sample.

Culture/feces - to PHX for aerobic/anaerobic C&S. In-house occult blood negative.

Treatment plan:

1. Banamine (1.1 mg/kg; 3750mg; 75ml) IM BID; d/c oral medications
2. Rectal fluids BID
3. PCV/TP and USG SID
4. CBC/panel/fibrinogen and UA q 72 hr
5. Fecal bacterial C&S SID x 5
6. EEHV PCR

For the DKR:

Signs of partial anorexia, reduced stool output, and lethargy persist. Fluid and analgesic treatment to continue. All blood and urine values remain normal. Feces are negative for occult blood (GI bleeding). A blood sample is submitted for EEHV PCR.

Rx: FLUNIXIN MEGLUMINE 3750 mg IM for 1 dose.

Rx: PHENYLBUTAZONE 8000 mg IV for 1 day. (KEH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
Name: WATOTO		

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.....2008...

29.Apr.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE

The following samples were shipped today to EEHV Lab for testing:
Edta whole blood from 24, 27 and 29 April 2008 and serum from 29 April
2008. (TLH)

Clinical Pathology Records - Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI      Sex: Female      Acc. #: 20132
East African bush elephant           Age: 39Y 6M Est. Birth: 29.Jan.1969
Name: WATOTO
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Collection Information >>
Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3810 Kg on 8.Apr.2008
Manual restraint used.

Date of Collection: 29.Apr.2008
Time of Collection: 8:30.2
Collected by: PM
Sample Collection Site: EAR VEIN

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Hematology >>
Analysis Information >>
Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: NATIONAL ZOO
Date of Analysis: 29.Apr.2008
Time of Analysis:
Analysis by:
Automated analysis.

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Tests and Results >>
EEHV-DX (PCR)          NEG

ISIS Reference Values >>
Mean  S.D.  Min.  Max.  (N)

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Comments >>
WB and serum submitted to EEHV lab

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From the EEHV Lab: These results are from many different primers, and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if the sequence came back that rule out EEHV, the sample is marked as (-)).

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Chemistry >>
Analysis Information >>
Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: NATIONAL ZOO
Date of Analysis: 29.Apr.2008
Time of Analysis:
Analysis by:
Automated analysis.

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Tests and Results >>
EEHV-DX (PCR)          NEG

ISIS Reference Values >>
Mean  S.D.  Min.  Max.  (N)

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Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
Name: WATOTO		

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.....2008....

30.Apr.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
Recheck exam and treatment for partial anorexia and lethargy.

Exam, recheck: Improvement overnight in regards to food intake and stool production. Ate almost 100% of hay and browse. Drank water last night (approx. 10 gallons). Attitude also appears improved. Recheck PCV (40), TS (8.2), and USG (1.033) remain stable.

Blood sample collected - EDTA for in-house PCV/TS.

Urine collection/free catch - for in-house USG

Feces - to PHX for aerobic C&S (day 2/5)

For the DKR:

Continue banamine administration and rectal fluids through today. Recheck CBC/panel/fibrinogen and UA tomorrow. Lab reports EEHV PCR negative; DNA sequencing of a band at 3A pending. Will reassess tomorrow for continued treatment based on patient observations today and tonight.

Rx: FLUNIXIN MEGLUMINE 3750 mg IM BID for 7 days.
Rx: VITAMIN B COMPLEX 40 ml SQ for 1 dose. (KEH)

Clinical Notes - Individual Specimen Report
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.....2008...

1.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE

Recheck exam and treatment for partial anorexia and lethargy. Drop in
WBC and heterophil/lymphocyte count between 28Apr and 29Apr.
Preliminary EEHV PCR do not suggest a herpesvirus.

Exam, recheck: Consumed approximately 40% of hay, all browse, no
pellets overnight. Consumed about 10 gallons of water overnight.
Attitude and activity level remain improved over initial presentation
but not completely normal. Some improvement in attitude and appetite
at the end of the day. Minimal stool production, but stools produced
are more normal in size, appearance, and consistency. Some itching
observed of previous injection sites. Rear limb stiffness appears
much improved.

Blood sample collected - EDTA and serum to PHX for
CBC/panel/fibrinogen. WBC decline. In-house slide review confirms
lymphocyte reactivity but pronounced degranulation of heterophils (as
noted at PHX) not observed. Left shift, nondegenerative. Stable HCT
and osmolality. Globulins are decreasing. Fibrinogen pending.

Urine collection/free catch - to PHX for UA.

Feces - to PHX for aerobic C&S (day 3/5)

Treatment plan:

1. IM Banamine SID (AM)
2. Rectal fluids SID (PM); approximately 20 L of LRS infused
rectally;
3. Ceftiofur sodium antibiotics (2.2 mg/kg IM SID; 8 grams) x 7 dy -
reconstitute at 100 mg/ml for smaller injection volume with minimal
change in potential irritation.

For the DKR:

The drop in the WBC observed between 28Apr and 28Apr is noted again on
today's blood sample. Inflammatory proteins appear to be lowering.
Hydration status appears stable. Other blood parameter changes not
observed. Preliminary EEHV PCR is negative but confirmatory DNA
sequencing is being performed and results are pending. Overall, there
seems to be an improvement in attitude. Stool production remains
minimal but appears more normal. Analgesics are discontinued.
Overall, the blood picture is more reflective of a virus or

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: WATOTO

Sex: Female Acc. #: 20132
Age: 39Y 6M Est. Birth: 29.Jan.1969

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1.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
non-infectious inflammatory response than a bacterial infection.
However, antibiotics may be warranted to protect against secondary
bacterial infections if the WBC continues to decline.

1. Move to daily CBC/panel/fibrinogen monitoring at PHX
2. Perform in-house CBC daily.
3. Complete daily fecal submission for aerobic C&S (3/5 samples submitted)
4. Submit a fecal sample for viral isolation and EM
5. Initiate ceftiofur (2.2 mg/kg IM SID; 80gm) as needed based on WBC
6. Evaluate for rectal fluid administration based on hydration status (currently stable on blood monitoring)
7. Analgesics are discontinued.
8. Continue careful observation and monitoring of food intake, attitude, activity level, and fecal output.
9. Famciclovir (10mg/kg BID) for decreasing WBC. (KEH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: WATOTO

Sex: Female Acc. #: 20132
Age: 39Y 6M Est. Birth: 29.Jan.1969

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.....2008....

2.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
Recheck exam and treatment for partial anorexia and lethargy.

Exam, recheck (0830 hrs): Consumed only approximately 1/3 of hay overnight and about 5 gallons of water. Attitude and activity level similar to yesterday being mild to moderately lethargic this morning. Stool character is near normal but much reduced volume- only one pile overnight and two this morning. No pruritis evident as seen yesterday late PM. Sample of light yellow mucous (30ml) found on barn floor from unknown site.

Blood sample collected - EDTA and serum to PHX for
CBC/panel/fibrinogen.

In-house CBC- WBC count 4,450 with heteropenia similar to
yesterday's sample with mild heterophil morphology changes

Urine collection/free catch - to PHX for UA.

Feces - to PHX for aerobic C&S (day 4/5)

Feces - to WADDL for viral isolation and EM (day 1/5)

Mucous sample submitted for cytology and culture if indicated (PHX)

PM update- appetite and attitude have improved throughout the day.
Food consumption markedly improved with approxiamtely 80-90%
consumption of hay, all of her browse and small amount of produce
(carrot). Drank water from hose and large drum of water. Stool
production gradually increasing.

CBC results from PHX lab similar to in-house results with leukopenia
(3960), heteropenia and lymphopenia, mild morphology changes in
heterophils may indicate degenerative or toxic changes. Hct (39.6%)
and TS (7.0) indicates improving hydration status.

Treatment plan:

1. Rectal fluids SID- 21L of LRS infused rectally;
approximately 50% was expelled
2. Begin systemic antibiotic treatment (ceftiofur)
3. Begin systemic antiviral to cover for herpesvirus- famcyclovir
in rectal suppository formulation. Likelihood of herpesvirus
etiology is low due to patient's signalment. Initial PCR testing was
negative.

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
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2.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
Rx: FAMCICLOVIR 37 gm rectally for 1 dose.

Phone consult with three zoo veterinarians at other institutions regarding this case and case management. The consensus was that the diagnostic and treatment plan were appropriate and have covered the likely differentials for etiology.

For the DKR: The WBC count continues to decrease below the normal level which may indicate either marked bacterial sepsis or viral infection. The inflammatory proteins have remained normal. Hydration status appears stable. Other blood parameter changes not observed. As stated yesterday, the preliminary EEHV PCR is negative but confirmatory DNA sequencing is being performed for confirmation and results are still pending; however, prophylactic treatment with the antiviral Famciclovir in a rectal formulation has been prescribed. Systemic antibiotics have been started this afternoon and will continue once a day in the morning. (JEO)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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.....2008...

3.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
 RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
 Recheck exam and treatment for partial anorexia and lethargy.

Exam, recheck (0830 hrs): Consumed approximately 80-90% of hay overnight and about 5 gallons of water. Attitude and activity are good with a more alert and responsive patient this morning. Stool character continues to improve and is normal in size and consistency today- there were 3 normal sized fecal piles from overnight and early this morning (normal is 12 piles)

Blood sample collected - EDTA and serum to PHX for CBC/panel/fibrinogen.

In-house CBC- WBC count 6270, increased from yesterday, Hct=38%, TS=6.8

Urine collection/free catch - to PHX for UA.

Feces - to PHX for aerobic C&S (day 5/5)

Feces - to PHX for Salmonella PCR

Feces - to WADDL for viral isolation and EM (day 2/5)

Phone report from EEHV lab- additional DNA sequencing has determined that patient is weak positive for EEHV-3a. This test needs to be repeated for confirmation with results to be available next week.

PM update- appetite and attitude have been good all day with good food consumption (~75% of hay), drank water from hose and water barrel several times today. Stool output increased to 7-8 piles of normal size and fecal consistency

CBC/Chemistry results from PHX lab show increasing WBC count (5000) and heterophils (1250) from the previous two days, but are still below normal. Hct= 37.3%.

Treatment plan:

1. Continue parenteral antibiotic treatment (Ceftiofur) SID
2. Continue famciclovir per rectum BID- drug is in limited quantity and more will be arriving from multiple sources. Only had enough for two doses- more to arrive late in the day or tomorrow.
3. rectal fluid therapy pending patients clinical status and daily laboratory test results
4. See case summary entry by KEH

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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<i>LOXODONTA AFRICANA KNOCHENHAUERI</i>	Sex: Female	Acc. #: 20132
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3.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
Rx: FAMCICLOVIR 32.9 gm rectally BID for 1 day.

For the DKR: The WBC count and heterophil numbers improved today. Hydration status is improved over yesterday as the Hct is at a normal level for her. Other blood parameters are within normal limits. Elephant herpesvirus lab reported this afternoon that additional DNA sequencing has determined that this elephant is weakly positive for EEHV-3a virus in her blood on a banked sample from 24April08. This test will be repeated by the lab to make certain that this is a true result. The anti-herpesviral treatment with famciclovir started yesterday is to continue, along with daily antibiotic injections and rectal fluids as needed. Additional famciclovir medication has been secured. Collect serum and whole blood on all three elephants today and repeat every 48 hours for additional EEHV testing. (JEO)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
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.....2008...

3.May.2008

Problem: colic (Suspected); CULTURE, DIAGNOSTIC - FECES ; EXAMINATION,
RECHECK; URINE COLLECTION - FREE-CATCH ; VENIPUNCTURE
Case update and summary.

26Apr. Presented with signs of colic in the PM. Bloodwork showed an inflammatory protein elevation and moderate dehydration. Moderate clinical response to banamine and good response to rectal fluids.

29Apr. Initial drop in WBCs detected. Improved hydration parameters. Improved appetite, fecal output, attitude. Initiated fecal culture screening for enteric pathogens.

30Apr. EEHV titer negative on PCR for all EEHVs and pan EEHV primers, but with an unknown band consistent with elephant DNA (normal DNA).

02May. Initiated famciclovir (10 mg/kg BID per rectum) and ceftiofur (2.2 mg/kg IM SID) for continued WBC decline. Began fecal sample collection for other non-EEHV viral screening.

03May. Increasing WBCs, continued improvement in hydration and inflammatory proteins. DNA sequencing performed on a banked sample dated 24Apr08 detected small circulating levels of EEHV 3A. Significance of this unknown in context of a negative PCR, especially with negative PCR results obtained during illness. Continued improvement in attitude, appetite, and fecal output.

Current treatment/diagnostic plan:

1. CBC/panel/fibrinogen daily x 7 days, then every other day x 7 dy
2. EEHV serum/EDTA every other day x 5 samples
3. famciclovir 10 mg/kg BID x 7 to 14 dy
4. ceftiofur 2.2 mg/kg SID x 7 dy
5. rectal fluids as needed; vets to assess bloodwork
6. Complete the fecal enteric pathogen culture plan
7. Complete the fecal viral screening plan

Treatment/diagnostic plan may be changed as needed to reflect clinical changes and results of diagnostic tests. (KEH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
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.....2008....

4.May.2008

Problem: colic (Suspected); EXAMINATION, RECHECK ; URINE COLLECTION -
FREE-CATCH; VENIPUNCTURE

Recheck exam for improving symptoms consistent with colic.

Exam, recheck: Continued improvement in attitude and appetite. Keeper staff report the patient is consuming about 90% normal diet. WBC remains around 5 but is stable, HCT remains normal, globulins are returning to normal, fibrinogen remains high but that is normal to see an elevation in this parameter continuing past clinical resolution. Stool production is normal in appearance and amount per defecation, but number of defecations remain reduced. Barn remains closed to provide this patient with RR during start of busy season and the remainder of the recuperation process.

Results of additional EEHV testing remain equivocal in this patient; PCR is negative to date in all 3 elephants (20132, 20073, 21113) with small amount of EEHV 3A on DNA sequencing (20132 only) from a previously banked sample that was submitted at the time of illness. Continue to monitor all elephants and continue testing. Will obtain additional samples from all elephants to see if results are repeatable or confirmable. Other Asian conspecifics continue to be normal in attitude, activity, appetite.

Rx: FAMCICLOVIR 37 gm rectally BID for 11 doses. (KEH)

Clinical Pathology Records - Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

LOXODONTA AFRICANA KNOCHENHAUERI
East African bush elephant
Name: WATOTO

Sex: Female
Age: 39Y 6M Est. Birth: 29.Jan.1969
Acc. #: 20132

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3810 Kg on 8.Apr.2008
Manual restraint used.

Date of Collection: 5.May.2008
Time of Collection: 8:20.2
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>
Anticoagulant: EDTA
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: NATIONAL ZOO
Date of Analysis: 5.May.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

ISIS Reference Values >>
Mean S.D. Min. Max. (N)

EEHV-DX (PCR) NEG

Comments >>

From the EEHV Lab: These results are from many different primers, and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if the sequence came back that rule out EEHV, the sample is marked as (-)).

Chemistry >>

Analysis Information >>
Chemistry Sample: Serum
Storage: Fresh
Sample Quality: No quality problems.

Laboratory: NATIONAL ZOO
Date of Analysis: 5.May.2008
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

ISIS Reference Values >>
Mean S.D. Min. Max. (N)

EEHV-DX (PCR) NEG

Comments >>

From the EEHV Lab: These results are from many different primers, and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if the sequence came back that rule out EEHV, the sample is marked as (-)).

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
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Name: WATOTO		

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.....2008...

6.May.2008

Problem: colic (Suspected); EXAMINATION, RECHECK
Recheck exam for resolved recent colic.

Exam, recheck: Clinical symptoms are resolved, WBC continues to increase daily (5.7) and will be monitored. Appetite and attitude is normal, stool production is also normalizing. Rectal fluids have not been needed in several days due to fluid intake and hydration parameters remain normal. Response to supportive care and a variety of antiinfectives seems good, although it is interesting to note that there was improvement before starting antiinfective drugs. Continue to recheck CBC/panel, will submit follow-up EEHV testing.

Confirmed with lab that all EEHV test results to date from this patient obtained during the course of illness has been negative. Historical banked samples also submitted; one historical sample positive for 3A but levels were too low to be detected with pan primers. EEHV not likely to have played a role in recent symptoms. Will look for other historical banked samples to submit.

From the EEHV Lab:

Watoto samples tested from 4/24/08 and 4/29/08 had bands; the 04/24/08 sample sequenced positive for EEHV 3A. Per the lab, the test is not quantitative, so the amount of virus cannot be determined; only its presence is detected on the 04/24/08 sample.

Cytology results of mucous suggest bacterial enteritis; cultures are pending. Review of hematologist's comments show some early toxic changes prior to antibiotic administration and suggest bacterial sepsis as a cause for the clinical symptoms and leukopenia.

For the DKR:

WBC continues to return to normal and all other clinical and diagnostic parameters remain WNL. While this patient appears to have made almost a complete recovery, completion of the 7-day prescribed course of therapy is still recommended before reopening the barn.

(KEH)

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Name: WATOTO		

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.....2008....

7.May.2008

The following samples were shipped today to EEHV Lab for testing:
serum and edta whole blood from 5 and 6 May 2008, serum and edta whole
blood from 24 Jan, 21 Feb and 3 April 2008 (TLH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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<i>LOXODONTA AFRICANA KNOCHENHAUERI</i>	Sex: Female	Acc. #: 20132
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Name: WATOTO		

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.....2008...

8.May.2008

EEHV sample results for 24Apr08 (pos EEHV3), 27Apr08 (bank), 29Apr08 (neg), 05May08 (neg), 06May08 (bank), 24Jan08 (bank), 21Feb08 (bank), 03Apr08 (bank).

From the EEHV Lab: These results are from many different primers and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if sequence came back that rule out EEHV, the sample is marked as (-)).

From the EEHV Lab: The 04/24/08 sample from Watoto that is listed as EEHV 3(+) - this could be a true (+) (recrudescence) or it could be due to contamination from a (+) control. (KEH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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LOXODONTA AFRICANA KNOCHENHAUERI	Sex: Female	Acc. #: 20132
East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
Name: WATOTO		

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.....2008...

11.May.2008

From the EEHV Lab: Results negative all elephants.

"The sequencing results came back yesterday (Saturday), and there was nothing readable from any of the elephants."

From the EEHV Lab: These results are from many different primers, and reflect the sequencing results (so we may have reported by email/phone that a sample had a band from a primer, but if the sequence came back that rule out EEHV, the sample is marked as (-)).

Note: The 04/24/08 sample from Watoto that is listed as EEHV 3 (+) - this could be a true (+) (recrudescence) or it could be due to contamination from a (+) control. (KEH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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<i>LOXODONTA AFRICANA KNOCHENHAUERI</i>	Sex: Female	Acc. #: 20132
East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
Name: WATOTO		

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.....2008...

12.May.2008

The following samples were shipped today to EEHV Lab for testing:

- 08 May 2008 serum and edta whole blood.
- 09 May 2008 serum and edta whole blood.
- 11 May 2008 serum and edta whole blood. (TLH)

Clinical Notes - Individual Specimen Report
WOODLAND PARK ZOOLOGICAL GARDENS

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<i>LOXODONTA AFRICANA KNOCHENHAUERI</i>	Sex: Female	Acc. #: 20132
East African bush elephant	Age: 39Y 6M Est.	Birth: 29.Jan.1969
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.....2008....

13.May.2008

Will not run 05/08, 05/09, and 05/11 EEHV samples. Patient is improved; EEHV samples performed during illness are negative. Lab to bank. (KEH)