

## **Elephant Profile - Ellie**

**House Name:** Ellie

**STB #:** 130

**Sex:** female

**Birthplace:** Wild

**Common Name:** Asian Elephant

**Scientific Name:** *Elephas maximus*

**DOB:** ~1971

**Sire/Dam:** (name and location) *unknown*

**Currently Managed:** In accordance with the Saint Louis Zoo Elephant Management Policy

### ***Transaction History:***

Date	Type	To	From
July 2001	Donation	St. Louis Zoo	Jacksonville Zoological Gardens

**Physical Characteristics:** teats have pink nipples; moderate hair on back, head; short trunk finger. Tallest cow.

**Medical History:** See medical records

**Reproductive Status:** Gave birth to female calf July 1996 and August 2006; see medical records for further details.

**Temperament/Behavior History:** Passive temperament; **Blood behavior: Blood can be collected at an open panel or howdy wall.**

### ***Ellie's Behavior/Command List:***

- Come
- Over
- Foot
- Stool
- Pad
- Lift
- Rear
- Back
- Steady
- Alright
- No
- Beak
- Blow (training)
- Head Down
- Lie Down
- Tail
- Ear
- Ahh/open
- Go Play (Jacksonville; not used in St. Louis)
- Line
- Shift
- Chute
- Come Around
- Move Up

- Salute
- Stretch
- Toot (talk; speak)
- Trunk
- Move Over
- Brace
- Bow (see definition of "kneel")

***Preferred Reinforcers:*** Grain ration; most produce (especially corn.)

**Reviewed/Revised January 2007**

Medical History Report - Summary for Individual Specimen  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

.....2006....

- 25.Apr Clinical note recorded. (REJ)
- 12.May Clinical note recorded. (MW)
- 23.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN
- 24.May Clinical note recorded. (PM)  
Clinical note recorded. (REJ)
- 5.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.70 \*10<sup>3</sup>/UL; HCT: 28.5%; BUN:18 MG/DL;  
Clinical note recorded. (REJ)
- 6.Jun Clinical note recorded. (EKT)  
Clinical note recorded. (PM)
- 7.Jun Clinical note recorded. (REJ)
- 13.Jun Clinical note recorded. (REJ)
- 15.Jun Clinical note recorded. (REJ)
- 19.Jun Clinical note recorded. (REJ)
- 22.Jun Clinical note recorded. (REJ)
- 4.Jul Clinical note recorded. (REJ)
- 5.Jul Clinical note recorded. (REJ)
- 10.Jul Clinical note recorded. (MW)
- 20.Jul Clinical note recorded. (REJ)
- 25.Jul Clinical note recorded. (MJA)
- 26.Jul Clinical note recorded. (REJ)
- 27.Jul Clinical note recorded. (REJ)
- 31.Jul Clinical note recorded. (REJ)
- 1.Aug Clinical note recorded. (REJ)
- 2.Aug Clinical note recorded. (REJ)
- 5.Aug Clinical note recorded. (MW)
- 6.Aug Clinical note recorded. (MJA)
- 7.Aug Clinical note recorded. (MJA)
- 10.Aug Blood sample: Chemistry results.  
BUN:8 MG/DL;  
Purpose/Problem: Concern re: possible retained placental tag  
Rx: OXYTOCIN 80u IM SID for 3 doses.  
Clinical note recorded. (MW)
- 11.Aug Blood sample: (EDTA) Hematology results.  
WBC:11.70 \*10<sup>3</sup>/UL; HCT: 27.5%;  
Clinical note recorded. (MW)
- 12.Aug Clinical note recorded. (MW)
- 14.Aug Clinical note recorded. (REJ)
- 16.Aug Clinical note recorded. (REJ)

Medical History Report - Summary for Individual Specimen  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

.....2006....

- 13.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.10 \*10<sup>3</sup>/UL; HCT: 28.8%; BUN:9 MG/DL;
- 14.Sep Rx: TRIMETHOPRIM mg PO SID for 5 days. (20 mg/kg)  
Clinical note recorded. (REJ)
- 15.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:7.70 \*10<sup>3</sup>/UL; HCT: 29.7%; BUN:11 MG/DL;
- 16.Sep Purpose/Problem: Abnormal white blood cell count.  
Rx: CEFTIOFUR CRYSTALLINE FREE ACID 8gm IM q72h for 5 doses. (2.33 mg/kg)  
Clinical note recorded. (MW)
- 19.Sep Clinical note recorded. (REJ)
- 21.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.00 \*10<sup>3</sup>/UL; HCT: 27.3%; BUN:6 MG/DL;
- 22.Sep Clinical note recorded. (REJ)
- 25.Sep Clinical note recorded. (REJ)
- 26.Sep Clinical note recorded. (MW)
- 27.Sep Clinical note recorded. (REJ)
- 28.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:7.70 \*10<sup>3</sup>/UL; HCT: 26.3%; BUN:15 MG/DL;  
Rx: METACLOPRAMIDE 100mg PO TID for 5 days. (29.10 mcg/kg)  
Clinical note recorded. (REJ)
- 29.Sep Sedated: DETOMIDINE/YOHIMBINE
  
- 1.Oct Clinical note recorded. (MW)
- 4.Oct Purpose/Problem: Attempt to increase milk production  
Rx: METACLOPRAMIDE 200mg PO TID for 5 days.  
Clinical note recorded. (REJ)
- 6.Oct Purpose/Problem: To promote lactation  
Rx: DOMPERIDONE 1000mg PO SID for 2 days.  
Clinical note recorded. (REJ)
- 9.Oct Purpose/Problem: To promote lactation  
Rx: DOMPERIDONE 1000mg PO SID for 2 days. (.291 mg/kg)  
Clinical note recorded. (REJ)
- 11.Oct Rx: DOMPERIDONE 2000mg PO SID for 14 days. (.582 mg/kg)
- 12.Oct Rx: DOMPERIDONE 3000mg PO SID for 7 days. (.873 mg/kg)
- 17.Oct Purpose/Problem: First week starting 10/17/06- Give 8 capsules orally  
Rx: DOMPERIDONE 3.8g PO for 14 days.  
Clinical note recorded. (REJ)
- 30.Oct Clinical note recorded. (REJ)
  
- 1.Nov Clinical note recorded. (MW)
- 2.Nov Clinical note recorded. (REJ)
- 7.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

Medical History Report - Summary for Individual Specimen  
ST. LOUIS ZOOLOGICAL PARK

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

.....2006....

7.Nov Clinical note recorded. (PM)

.....2007....

8.Jan Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:8.90 \*10<sup>3</sup>/UL; HCT: 25.7%; BUN:17 MG/DL;

9.Jan PROBLEM: routine examination  
Clinical note recorded. (MJA)  
Clinical note recorded. (REJ)

10.Jan Clinical note recorded. (REJ)

12.Jan Clinical note recorded. (MLK)

Weight: 3460 Kg ( 7626 Lb)

12.Mar Blood sample: (EDTA) Hematology/Chemistry/Serology results.  
WBC:7.70 \*10<sup>3</sup>/UL; HCT: 33.0%; BUN:13 MG/DL;

13.Mar Clinical note recorded. (REJ)

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:** **25.Apr.2006**  
Transrectal ultrasound revealed normal caudal reproductive structures.  
Transabdominal scan revealed fetal membranes within fluid - distended  
uterus. (REJ)

---

**Clinical Note:** **12.May.2006**  
O: Trunk wash samples collected 3/1 - 3/3/2006 negative for  
Mycobacteria (NVSL). (MW)

---

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

Sample id.: 2006-0391  
Date collected: **23.May.2006**  
Time collected: 9:00  
Collected by: SW

**Collected from:**  
From an individual specimen.

Enclosure: RIVERS E

**Examination Data >>**  
Storage: room temperature  
Consistency: formed  
Gross appearance: Typical

Date examined: 24.May.2006  
at: 15:30  
by: PM

**Tests & Results >>**  
FLOATATION - NA NITRATE                      NO PARASITES SEEN

---

**Clinical Note:** **24.May.2006**  
Fecal flotation-negative (PM)

---

**Clinical Note:** **24.May.2006**  
Rectal ultrasound. Normal caudal reproductive tract. (REJ)

---

---

---

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

---

---

**Clinical Note:**

Rectal ultrasound. Normal caudal reproductive tract. (REJ)

---

**5.Jun.2006**

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 5.Jun.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 5.Jun.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	8.7		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.37		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	10.2		GM/DL
HEMATOCRIT	<	28.5		%
MCV		120		fL
MCH		43.0		uug
MCHC		35.8		gm/dL
SEGMENTED NEUTROPHILS		36	(3.132)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES		27	(2.349)	% (*10 <sup>3</sup> /UL)
MONOCYTES		35	(3.045)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		2	(0.174)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<<	262		*10 <sup>3</sup> /UL

Morphology Results >>

TARGET CELLS 1

**Clinical Pathology Records - Specimen Report**  
**ST. LOUIS ZOOLOGICAL PARK**

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

**Collection Information >>**

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: **5.Jun.2006**  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

**Chemistry >>**

**Analysis Information >>**

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: **ADV. VET LG MAM**  
Date of Analysis: **5.Jun.2006**  
Time of Analysis:  
Analysis by:  
Automated analysis.

**Tests and Results >>**

GLUCOSE	85	MG/DL
BLOOD UREA NITROGEN >	18	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	13.8	
CALCIUM <	9.8	MG/DL
PHOSPHORUS	5	MG/DL
calcium/phosphorus ratio	1.96	
SODIUM	130	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	27.7	
CHLORIDE >>	98	MEQ/L
MAGNESIUM	2.3	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.4	GM/DL
ALBUMIN (COLORIMETRY) <<	2.1	GM/DL
ASPARTATE AMINOTRANSFERASE	15	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE <	47	IU/L
CREATINE PHOSPHOKINASE	68	IU/L
GAMMA GLUTAMYLTRANSFERASE	6	IU/L

**Comments >>**

Globulin- 5.3

=====

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:** 6.Jun.2006  
Bloodwork: WBC 8,700 with normal differential. Hct 28.5%. Normal chemistry except mild decrease total protein 7.4 and albumin 2.1g/dl which might be related to pregnancy.

Chronic low grade anemia seems to be normal for this individual. (EKT)

---

**Clinical Note:** 6.Jun.2006  
Urinalysis (free catch sample)  
pH-8.0 protein-neg glucose-neg ketones-neg bili-neg blood-neg urobilogen-neg color-yellow transparency-clear sp.gr.-1.021 sediment-occasional epithelial cells, amorphous debris 2+ (PM)

---

**Clinical Note:** 7.Jun.2006  
Rectal ultrasonography to monitor progression of pregnancy. Normal caudal reproductive tract present, cervix closed. (REJ)

---

**Clinical Note:** 13.Jun.2006  
Rectal ultrasonography to monitor progression of pregnancy. Normal caudal reproductive tract visualized. Uterine vessel large, cervix closed. (REJ)

---

**Clinical Note:** 15.Jun.2006  
Rectal ultrasonography to monitor progression of pregnancy. Normal caudal reproductive tract structures visualized. Transabdominal ultrasonography revealed presumptive uterus distended with fluid. (REJ)

---

**Clinical Note:** 19.Jun.2006  
Rectal ultrasonography to monitor progression of pregnancy. Normal caudal reproductive tract structures visualized, blood vessels around cervix very large and engorged. (REJ)

---

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:** 22.Jun.2006

Transrectal ultrasonography to monitor progression of pregnancy.  
Normal caudal reproductive tract structures visualized. Cervix remains closed (2 weeks until due date). (REJ)

---

**Clinical Note:** 4.Jul.2006

Serum progesterone 2.5 ng/ml. (REJ)

---

**Clinical Note:** 5.Jul.2006

Transrectal ultrasonography - normal caudal reproductive structures noted, cervix closed, no uterus detected. (REJ)

---

**Clinical Note:** 10.Jul.2006

Proc: Transrectal ultrasonography. Normal bladder, vagina, cervix visualized. (MW)

---

**Clinical Note:** 20.Jul.2006

Ultrasound examination - cervix contains some fluid but is not dilated. Transabdominal ultrasonography (left flank) provided good images of fetal membranes and margin of fetus (anatomical part undistinguished), with independent movement and confirmed bloodflow via doppler. (REJ)

---

**Clinical Note:** 25.Jul.2006

PROCEDURE: Trunk wash  
Collected first of three samples for mycobacteriosis screening. (MJA)

---

**Clinical Note:** 26.Jul.2006

Trunk wash for mycobacteriosis screening, sample 2 of 3. (REJ)

---

---

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

---

**Clinical Note:** 27.Jul.2006  
Trunk wash collected for mycobacterial screening, samples 3 of 3.  
Rectal ultrasonography; cervix difficult to identify, but no evidence  
of dilation. Transabdominal ultrasonography: fetal membranes and fluid  
- filled uterus identified. (REJ)

---

**Clinical Note:** 31.Jul.2006  
Serum P4 0.5 mg/ml (near baseline; down from 2.0 - 2.5 during much of  
pregnancy). Rectal ultrasonography revealed fluid visible in the  
uterus proximal to the cervix and fetal membranes and probable body  
parts moving in the image. Parturition expected in the next week. (REJ)

---

**Clinical Note:** 1.Aug.2006  
Serum P4 0.39 ng/ml. Rectal ultrasonography shows cervix dilated  
approximately 10 cm, with embryonic vesicle present and fetus  
partially visible (feet?). (REJ)

---

**Clinical Note:** 2.Aug.2006  
Gave birth to healthy female calf at 12:00 AM. Calf weight 341#. Dam  
and offspring doing well. (REJ)

---

**Clinical Note:** 5.Aug.2006  
Obs: Curator reports that calf has had liquid stool for past 24 hours.  
Initial meconium appeared normal. R/O fecal pathogen vs. acclimation  
to milk. Requested sample for cytology and O&P. (MW)

---

=====

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

**6.Aug.2006**

VERBAL UPDATE:

Curator reports calf still has green liquid stool. Calf BAR, nursing well. Dam reported to have some normal post-partum bloody discharge from vulva. Calf weight reported to be 150kg today.

DIAGNOSTICS:

Fecal exam (calf): Direct fecal examination reveals no abnormal findings. Fecal cytology reveals normal healthy mixed population of bacteria, occasional normal epithelial cell, no WBC or RBC noted.

A/P: Dark green color of calf's feces is consistent with initial meconium, suspect that watery stool is acclimation to milk. No fecal pathogens noted. CTM daily. (MJA)

---

**Clinical Note:**

**7.Aug.2006**

VERBAL UPDATE:

Curator reports that animal has decreasing amount of bloody discharge from vulva (normal post-partum discharge). Ventral edema on this animal has nearly completely resolved, small swelling persists around vulva.

Calf is reported to have improved feces today - firmer and brown in color. No straining when defecating. (MJA)

---

---

---

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

---

---

**Clinical Note:**

10.Aug.2006

CC: Ellie reported to have foul-smelling vestibular discharge today

S: Review of records shows that Ellie had similar signs after giving birth to Rani that resolved after oxytocin treatment (led to expulsion of a placental remnant) and antibiotics. Discussed case with Dr. Dennis Schmitt who recommended holding off on antibiotics unless blood work or animal's attitude indicates systemic illness. He did recommend oxytocin x 3 days to help expel any remaining lochia or placenta. He also suggested transrectal ultrasound to try to identify any remaining placental tags but curator feels this would be very difficult in current management situation with calf.

Proc:

1. Restraint: behavioral restraint
2. Two swabs collected from vestibule for aerobic and anaerobic culture
3. Swab from vestibule smeared onto slide for cytologic assessment
4. Rx: oxytocin 80 units IM  
tetanus toxoid (super-tet with havlogen) 1 ml IM
5. Keepers collected blood for CBC/chem panel/fibrinogen

A/P: Pending test results. Curator says that if it is indicated they will work out a way to ultrasound Ellie but would prefer to take a more conservative approach initially.

Rx: OXYTOCIN 80 u IM SID for 3 doses.

Cytology- occasional WBC, numerous bacteria (MW)

---

**Clinical Pathology Records - Specimen Report**  
**ST. LOUIS ZOOLOGICAL PARK**

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female                      Acc. #: 101144  
Age: 36Y Est.                      Birth: 14.Feb.1971

**Collection Information >>**

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: **10.Aug.2006**  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

**Chemistry >>**

**Analysis Information >>**

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: **ADV. VET LG MAM**  
Date of Analysis: **10.Aug.2006**  
Time of Analysis: 20:17  
Analysis by:  
Automated analysis.

**Tests and Results >>**

GLUCOSE	<	53	MG/DL
BLOOD UREA NITROGEN		8	MG/DL
CREATININE		1.4	MG/DL
BUN/creatinine ratio		5.71	
CALCIUM	<	9.4	MG/DL
PHOSPHORUS	<	3.7	MG/DL
calcium/phosphorus ratio		2.54	
SODIUM	<	121	MEQ/L
POTASSIUM		4.5	MEQ/L
sodium/potassium ratio		26.9	
CHLORIDE	>	94	MEQ/L
MAGNESIUM		1.8	MG/DL
TOTAL PROTEIN (COLORIMETRY)		7.3	GM/DL
ALBUMIN (COLORIMETRY)	<<	2.1	GM/DL
ASPARTATE AMINOTRANSFERASE		10	IU/L
ALANINE AMINOTRANSFERASE		13	IU/L
TOTAL BILIRUBIN		0.2	MG/DL
ALKALINE PHOSPHATASE	<	39	IU/L
CREATINE PHOSPHOKINASE		75	IU/L
GAMMA GLUTAMYLTRANSFERASE		10	IU/L

Medical History Report - Individual Specimen  
ST. LOUIS ZOOLOGICAL PARK

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Purpose:** Concern re: possible retained placental tag

**Prescription Data >>**

Starting date: 10.Aug.2006

Drug: OXYTOCIN 80 u IM SID for 3 doses

Formulation: 20.00 U/ML injectable

Prescribed by: MW (10.Aug.2006)

Filled by: MW (10.Aug.2006)

Treatment weight: 3437 kg

**Clinical Note:**

11.Aug.2006

CC: Foul-smelling discharge reported 10 Aug

O: Chem panel results - within normal limits

Obs: Animal is alert and active. EDTA tube from yesterday clotted so a new EDTA sample was submitted for CBC today. Keeper and ZM both report that odor around Ellie is much less notable today. No contractions noted yesterday after oxytocin injection, no material found in stall overnight.

**Proc:**

1. Behavioral restraint used to position animal at bollards
  2. Rx: oxytocin 80 units IM, day 2/3 (MW)
- =====

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 11.Aug.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 11.Aug.2006  
Time of Analysis: 21:27  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	11.7		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	< 2.23		*10 <sup>6</sup> /UL
HEMOGLOBIN	< 9.6		GM/DL
HEMATOCRIT	< 27.5		%
MCV	123		fL
MCH	43.0		uug
MCHC	34.9		gm/dL
SEGMENTED NEUTROPHILS	22	(2.574)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS	3	(0.351)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	22	(2.574)	% (*10 <sup>3</sup> /UL)
MONOCYTES	53	(6.201)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	< 356		*10 <sup>3</sup> /UL

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 11.Aug.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

FIBRINOGEN >> 1100 MG/DL

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

12.Aug.2006

CC: Foul smelling discharge reported 10 Aug

S: Keepers have not noticed smell today. After oxytocin injection yesterday ZM reported that animal had some mucoid red-brown vaginal discharge present. Keepers have been cleaning vestiblar/vaginal area regularly.

O: CBC results - hct 27.5%, WBC 11,700 22% neuts, 3% bands, 22% lymphs, 53% monos. Fibrinogen 1100 mg/dl.

Proc:

1. Restraint: behavioral restraint
2. Rx: oxytocin 80 units IM (dose 3/3).

A/P: Discharge and odor appear to be resolving. No further intervention by vets after today as long as Ellie continues to appear and act normal. Will get verbal rechecks for a few more days. CBC results - mild anemia but hematocrit within normal range for this animal. WBC normal, slight shift to monocytes, suspect general post-partum inflammation. No indication of systemic infection. Cultures still pending. (MW)

---

**Clinical Note:**

14.Aug.2006

Culture results - Enterobacter, heavy growth. Sensitive to clindamycin, ciprofloxacin, doxycycline, enrofloxacin, gentamycin, neomycin, and piperacillin. (REJ)

---

**Clinical Note:**

16.Aug.2006

No further exudate or odor, problem resolved. (REJ)

---

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 13.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 13.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	8.1		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.45		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	10.5		GM/DL
HEMATOCRIT	<	28.8		%
MCV		118		fL
MCH		42.9		uug
MCHC		36.5		gm/dL
SEGMENTED NEUTROPHILS		30	(2.430)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS		3	(0.243)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES		29	(2.349)	% (*10 <sup>3</sup> /UL)
MONOCYTES		36	(2.916)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		1	(0.081)	% (*10 <sup>3</sup> /UL)
BASOPHILS		1	(0.081)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT		436		*10 <sup>3</sup> /UL

Morphology Results >>

TARGET CELLS 2

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 13.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 13.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

GLUCOSE	73	MG/DL
BLOOD UREA NITROGEN	9	MG/DL
CREATININE	< 1.0	MG/DL
BUN/creatinine ratio	9.00	
CALCIUM	10.9	MG/DL
PHOSPHORUS	< 3.8	MG/DL
calcium/phosphorus ratio	2.87	
SODIUM	130	MEQ/L
POTASSIUM	5.1	MEQ/L
sodium/potassium ratio	25.5	
CHLORIDE	>> 101	MEQ/L
MAGNESIUM	2.0	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.9	GM/DL
ALBUMIN (COLORIMETRY)	< 2.5	GM/DL
ASPARTATE AMINOTRANSFERASE	10	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	< 58	IU/L
CREATINE PHOSPHOKINASE	125	IU/L
FIBRINOGEN	>> 1000	MG/DL
GAMMA GLUTAMYLTRANSFERASE	10	IU/L

=====

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

14.Sep.2006

Results of bloodwork: fibrinogen 1000 mg/dl, bands 3%, suggesting  
inflammatory reaction.

Rx: TRIMETHOPRIM 12 g (8 packets of Uniprim) PO SID for 5 days. (REJ)

---

**Prescription Data >>**

Starting date: 14.Sep.2006

Drug: TRIMETHOPRIM mg PO SID for 5 days

Formulation: 400 MG/G powder

Prescribed by: REJ (14.Sep.2006)

Drug dosage: 20 mg/kg

Filled by: REJ (14.Sep.2006)

Treatment weight: 3437 kg

---

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 15.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 15.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	7.7		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.37		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	10.1		GM/DL
HEMATOCRIT	<	29.7		%
MCV		125		fL
MCH		42.6		uug
MCHC		34.0		gm/dL
SEGMENTED NEUTROPHILS		36	(2.772)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS		2	(0.154)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	<	16	(1.232)	% (*10 <sup>3</sup> /UL)
MONOCYTES		44	(3.388)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		2	(0.154)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<	336		*10 <sup>3</sup> /UL
FIBRINOGEN	>	700		MG/DL

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 15.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 15.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

GLUCOSE	<	56	MG/DL
BLOOD UREA NITROGEN		11.0	MG/DL
CREATININE	<<	0.7	MG/DL
BUN/creatinine ratio		15.7	
CALCIUM	<	9.3	MG/DL
PHOSPHORUS		4.0	MG/DL
calcium/phosphorus ratio		2.33	
SODIUM	<	124	MEQ/L
POTASSIUM		4.5	MEQ/L
sodium/potassium ratio		27.6	
CHLORIDE	>	95	MEQ/L
MAGNESIUM		1.8	MG/DL
TOTAL PROTEIN (COLORIMETRY)		8.3	GM/DL
ALBUMIN (COLORIMETRY)	<<	2.3	GM/DL
ASPARTATE AMINOTRANSFERASE		11.0	IU/L
ALANINE AMINOTRANSFERASE		10.0	IU/L
TOTAL BILIRUBIN		0.2	MG/DL
ALKALINE PHOSPHATASE	<	59.0	IU/L
CREATINE PHOSPHOKINASE		203	IU/L
FIBRINOGEN	>	700	MG/DL
GAMMA GLUTAMYLTRANSFERASE	>>	18.0	IU/L

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

16.Sep.2006

Rx: EXCEDE (CEFTIOFUR CFA) 8 gm IM q72h for 5 doses. (MW)

---

**Purpose:** Abnormal white blood cell count.

**Prescription Data >>**

Starting date: 16.Sep.2006

Drug: CEFTIOFUR CRYSTALLINE FREE ACID 8 gm IM q72h for 5 doses

Formulation: 200.00 mg/ml injectable suspension

Prescribed by: MW (16.Sep.2006)

Filled by: MW (16.Sep.2006)

Drug dosage: 2.33 mg/kg

Treatment weight: 3437 kg

---

**Clinical Note:**

19.Sep.2006

Treated with 8 g ceftiofur (40 ml Excede) IM. Also given 80 units oxytocin IV to induce milk letdown for milk analysis collection, however no milk was produced.

Results of bloodwork: 7700 WBC, 2% bands; fibrinogen 700 mg/dl, TP 8.3 g/dl. (REJ)

---

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 21.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 21.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	8.0		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.33		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	9.9		GM/DL
HEMATOCRIT	<	27.3		%
MCV		117		fL
MCH		42.5		uug
MCHC		36.3		gm/dL
SEGMENTED NEUTROPHILS		28	(2.240)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS		2	(0.160)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	<	25	(2.000)	% (*10 <sup>3</sup> /UL)
MONOCYTES		44	(3.520)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		1	(0.080)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<<	174		*10 <sup>3</sup> /UL

Morphology Results >>

ANISOCYTOSIS 1, POLYCHROMAS. 1, TARGET CELLS 1-2

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 21.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 21.Sep.2006  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

	GLUCOSE	87	MG/DL
	BLOOD UREA NITROGEN	< 6	MG/DL
	CREATININE	1.8	MG/DL
	BUN/creatinine ratio	3.33	
	CALCIUM	< 9.6	MG/DL
	PHOSPHORUS	< 3.1	MG/DL
	calcium/phosphorus ratio	3.10	
	SODIUM	125	MEQ/L
	POTASSIUM	4.5	MEQ/L
	sodium/potassium ratio	27.8	
	CHLORIDE	92	MEQ/L
	MAGNESIUM	2.1	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	8.0	GM/DL
	ALBUMIN (COLORIMETRY)	<< 2.2	GM/DL
	ASPARTATE AMINOTRANSFERASE	13	IU/L
	ALANINE AMINOTRANSFERASE	10	IU/L
	TOTAL BILIRUBIN	0.2	MG/DL
	ALKALINE PHOSPHATASE	< 48	IU/L
	CREATINE PHOSPHOKINASE	141	IU/L
	FIBRINOGEN	>> 850	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	> 13	IU/L

=====

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

22.Sep.2006

Treated with 8 g ceftiofur CFA (40 ml Excede) IM. Results of bloodwork: WBC = 8000, 2% bnads, fibrinogen 850 mg/dl, TP 8.0 g/dl. (REJ)

---

**Clinical Note:**

25.Sep.2006

Treated with 8 g ceftiofur CFA (40 ml Excede) IM. (REJ)

---

**Clinical Note:**

26.Sep.2006

O: Milk analysis results (Dairy One) - fat 13.13, total protein 3.18, total solids 21.85, lactose 4.86, ash 0.68. Average values from one Asian cow (Zoo Biology 13) were fat 7.6, total protein 3.4, total solids 19.7, ash 0.54.

A: Milk quality appears to be adequate, suggesting that issue with calf weight loss may be due to decreased quantity of milk rather than poor milk quality. REJ had a discussion with Dr. Jeff Tyler at the University of Missouri Veterinary School who noted that we will probably be successful with either bottle feeding or natural nursing but not both, that some (domestic) cows lay down fat and connective tissue in mammary glands between calves which can reduce milk production, and that metoclopramide can be useful in cases of fescue toxicosis. (MW)

---

**Clinical Note:**

27.Sep.2006

Started treatment trial with metaclopramide to gauge effect on milk production. To be given 100 mg PO TID for 5 days. (REJ)

---

**Clinical Note:**

28.Sep.2006

Rx: METACLOPRAMIDE 100 mg PO TID for 5 days. (REJ)

---

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 28.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 28.Sep.2006  
Time of Analysis: 18:44  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	7.7		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.21		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	9.4		GM/DL
HEMATOCRIT	<	26.3		%
MCV		119		fL
MCH		42.5		uug
MCHC		35.7		gm/dL
SEGMENTED NEUTROPHILS		37	(2.849)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS		2	(0.154)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	<	23	(1.771)	% (*10 <sup>3</sup> /UL)
MONOCYTES		37	(2.849)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		1	(0.077)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<<	264		*10 <sup>3</sup> /UL

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Abnormal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 28.Sep.2006  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 28.Sep.2006  
Time of Analysis: 19:37  
Analysis by:  
Automated analysis.

Tests and Results >>

GLUCOSE	77	MG/DL
BLOOD UREA NITROGEN	15	MG/DL
CREATININE <	0.8	MG/DL
BUN/creatinine ratio	18.8	
CALCIUM	10.6	MG/DL
PHOSPHORUS	4.2	MG/DL
calcium/phosphorus ratio	2.52	
SODIUM	131	MEQ/L
POTASSIUM	4.8	MEQ/L
sodium/potassium ratio	27.3	
CHLORIDE >>	102	MEQ/L
MAGNESIUM	2.1	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.9	GM/DL
ALBUMIN (COLORIMETRY) <	2.5	GM/DL
ASPARTATE AMINOTRANSFERASE	22	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE <	64	IU/L
CREATINE PHOSPHOKINASE >>	564	IU/L
FIBRINOGEN >>	1000	MG/DL
GAMMA GLUTAMYLTRANSFERASE	7	IU/L





=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:** **1.Oct.2006**

O: CBC results - hct 26.3%, WBC 7,700 37% neuts, 2% bands, 23%  
lymphs, 37% monos, 1% eos.  
Chem panel results - fibrinogen 1000 mg/dl, TP 8.9 g/dl, albumin  
2.5 g/dl, globulin 6.4 g/dl. (MW)

---

**Clinical Note:** **4.Oct.2006**

Rx: METACLOPRAMIDE 200 mg PO TID for 5 days. (REJ)

---

**Purpose:** Attempt to increase milk production

**Prescription Data >>**

Starting date: **4.Oct.2006**

Drug: METACLOPRAMIDE 200 mg PO TID for 5 days

Formulation: 200.00 mg capsule

Prescribed by: REJ (4.Oct.2006)

Filled by: REJ (4.Oct.2006)

Treatment weight: 3437 kg

---

**Clinical Note:** **6.Oct.2006**

To begin treatment with domperidone to promote lactation. Initial  
dose is 500 mg q24h, to be increased to 2000 mg q25h.

Trunk wash results (July 25, 26, 27) negative for mycobacterial  
growth (NVSL). (REJ)

---

**Purpose:** To promote lactation

**Prescription Data >>**

Starting date: **6.Oct.2006**

Drug: DOMPERIDONE 1000 mg PO SID for 2 days

Formulation: 500.00 mg capsule

Prescribed by: (6.Oct.2006)

Filled by: (6.Oct.2006)

Treatment weight: 3437 kg

---

=====

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:** **9.Oct.2006**  
Dose of domperidone increased to 1000 mg q24h for 2 days, then 2000 mg q24d UFN. (REJ)

---

**Purpose:** To promote lactation

**Prescription Data >>** **Starting date: 9.Oct.2006**  
Drug: DOMPERIDONE 1000 mg PO SID for 2 days  
Formulation: 500.00 mg capsule  
Prescribed by: (9.Oct.2006) Filled by: (9.Oct.2006)  
Drug dosage: .291 mg/kg Treatment weight: 3437 kg

---

**Prescription Data >>** **Starting date: 11.Oct.2006**  
Drug: DOMPERIDONE 2000 mg PO SID for 14 days  
Formulation: 500.00 mg capsule  
Prescribed by: (9.Oct.2006) Filled by: (9.Oct.2006)  
Drug dosage: .582 mg/kg Treatment weight: 3437 kg

---

**Prescription Data >>** **Starting date: 12.Oct.2006**  
Drug: DOMPERIDONE 3000 mg PO SID for 7 days  
Formulation: 500.00 mg capsule  
Prescribed by: (11.Oct.2006) Filled by: (11.Oct.2006)  
Drug dosage: .873 mg/kg Treatment weight: 3437 kg

---

**Clinical Note:** **17.Oct.2006**  
Rx: DOMPERIDONE 3.8 g PO for 14 days. (REJ)

---

**Purpose:** First week starting 10/17/06- Give 8 capsules orally twice a day for the first week.  
Second week give Give 8 capsules orally once a day

**Prescription Data >>** **Starting date: 17.Oct.2006**  
Drug: DOMPERIDONE 3.8 g PO for 14 days  
Formulation: 3.8 g capsule  
Prescribed by: REJ (17.Oct.2006) Filled by: JM (17.Oct.2006)  
Treatment weight: 3437 kg

**Comments >>**

Medical History Report - Individual Specimen  
ST. LOUIS ZOOLOGICAL PARK

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Prescription Record (continued):**

First week starting 10/17/06- Give 8 capsules orally twice a day for the first week.  
Second week give Give 8 capsules orally once a day

-----

**Clinical Note:** 30.Oct.2006  
Final dose of domperidone given today. (REJ)

-----

**Clinical Note:** 1.Nov.2006  
Proc: Trunk wash for routine TB screening. Day 1 of 3. (MW)

-----

**Clinical Note:** 2.Nov.2006  
Trunk wash procedure for routine TB screening, day 2 of 3. (REJ)

-----

**Clinical Note:** 7.Nov.2006  
Fecal floatation-negative (PM)

-----

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

Sample id.: 2006-0790  
Date collected: 7.Nov.2006  
Time collected: 8:30  
Collected by: CB

**Collected from:** Enclosure: RE  
Group of specimens housed together.

**Examination Data >>**  
Storage: room temperature  
Consistency: formed  
Gross appearance: Typical

Date examined: 7.Nov.2006  
at: 16:30  
by: PM

**Tests & Results >>**  
FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 8.Jan.2007  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 8.Jan.2007  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	8.9		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT	<	2.20		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	9.8		GM/DL
HEMATOCRIT	<<	25.7		%
MCV		117		fL
MCH		44.5		uug
MCHC		38.1		gm/dL
SEGMENTED NEUTROPHILS		31	(2.759)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	<	23	(2.047)	% (*10 <sup>3</sup> /UL)
MONOCYTES		45	(4.005)	% (*10 <sup>3</sup> /UL)
EOSINOPHILS		1	(0.089)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<<	254		*10 <sup>3</sup> /UL

Morphology Results >>

TARGET CELLS 1

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3437 Kg on 10.Jan.2006  
Manual restraint used.

Date of Collection: 8.Jan.2007  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 8.Jan.2007  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

GLUCOSE	77	MG/DL
BLOOD UREA NITROGEN	> 17	MG/DL
CREATININE	< 1.1	MG/DL
BUN/creatinine ratio	15.5	
CALCIUM	10.5	MG/DL
PHOSPHORUS	4.4	MG/DL
calcium/phosphorus ratio	2.39	
SODIUM	129	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	27.4	
CHLORIDE	> 94	MEQ/L
MAGNESIUM	2.2	MG/DL
TOTAL PROTEIN (COLORIMETRY)	> 9.2	GM/DL
ALBUMIN (COLORIMETRY)	3.3	GM/DL
ASPARTATE AMINOTRANSFERASE	13	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	< 60	IU/L
CREATINE PHOSPHOKINASE	98	IU/L
FIBRINOGEN	> 800	MG/DL
GAMMA GLUTAMYLTRANSFERASE	4	IU/L

=====

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

9.Jan.2007

Problem: routine examination  
ROUTINE EXAMINATION: Annual exam

RESTRAINT: Behavioral training  
PHYSICAL EXAMINATION: Pink MM, CRT N. Good BCS. EENT: Anterior chamber clear OU, corneal surface normal OU, fundus not examined; oral cavity WNL, molars in good wear, tusks healthy. H/L: Not examined. INTEG: Soles/pads in good wear, no lesions, cuticles healthy, nails healthy. M/S: WNL. NERV: WNL. G/I and G/U: teats are full, milk is normal.

A/P: Animal in good health, no concerns. (MJA)

---

**Clinical Note:**

9.Jan.2007

Problem: routine examination  
Results of bloodwrk - CBC and chem profile within expected ranges. (REJ)

---

**Clinical Note:**

10.Jan.2007

Results of Mycobacterium culture (NVSL) from samples collected Nov 1,2,3 - no isolation. (REJ)

---

**Clinical Note:**

12.Jan.2007

In House U/A:  
pH: 8.5  
Protein: Neg  
Glucose: Neg  
Ketones: Neg  
Bilirubin: Neg  
Blood: Neg  
Urobilinogen: Normal  
Color: Yellow  
Transp:Turbid  
Sp. Grav: 1.017 (MLK)

---

Clinical Pathology Records - Specimen Report  
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

Collection Information >>

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3460 Kg on 12.Jan.2007  
Manual restraint used.

Date of Collection: 12.Mar.2007  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM  
Date of Analysis: 12.Mar.2007  
Time of Analysis:  
Analysis by:  
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	7.7		*10 <sup>3</sup> /UL
RED BLOOD CELL COUNT		2.70		*10 <sup>6</sup> /UL
HEMOGLOBIN	<	10.7		GM/DL
HEMATOCRIT		33.0		%
MCV		122		fL
MCH		39.6		ug
MCHC		32.4		gm/dL
SEGMENTED NEUTROPHILS		28	(2.156)	% (*10 <sup>3</sup> /UL)
NEUTROPHILIC BANDS		1	(0.077)	% (*10 <sup>3</sup> /UL)
LYMPHOCYTES	<	29	(2.233)	% (*10 <sup>3</sup> /UL)
MONOCYTES		42	(3.234)	% (*10 <sup>3</sup> /UL)
PLATELET COUNT	<	339		*10 <sup>3</sup> /UL

Morphology Results >>

ANISOCYTOSIS 1, TARGET CELLS 1-2

**Clinical Pathology Records - Specimen Report**  
**ST. LOUIS ZOOLOGICAL PARK**

*ELEPHAS MAXIMUS INDICUS*  
**INDIAN ELEPHANT**  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

**Collection Information >>**

Health Status: Normal  
Fasting Time: < 8 hours  
Activity: Calm  
Weight: 3460 Kg on 12.Jan.2007  
Manual restraint used.

Date of Collection: **12.Mar.2007**  
Time of Collection:  
Collected by:  
Sample Collection Site: EAR VEIN

**Chemistry >>**

**Analysis Information >>**

Chemistry Sample: Serum  
Storage: Fresh  
Sample Quality: No quality problems.

Laboratory: **ADV. VET LG MAM**  
Date of Analysis: **12.Mar.2007**  
Time of Analysis:  
Analysis by:  
Automated analysis.

**Tests and Results >>**

GLUCOSE	90	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	< 1.1	MG/DL
BUN/creatinine ratio	11.8	
CALCIUM	10.7	MG/DL
PHOSPHORUS	< 3.5	MG/DL
calcium/phosphorus ratio	3.06	
SODIUM	130	MEQ/L
POTASSIUM	>> 14.7	MEQ/L
sodium/potassium ratio	8.84	
CHLORIDE	93	MEQ/L
MAGNESIUM	1.8	MG/DL
TOTAL PROTEIN (COLORIMETRY)	> 9.2	GM/DL
ALBUMIN (COLORIMETRY)	3.3	GM/DL
ASPARTATE AMINOTRANSFERASE	8	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	< 55	IU/L
CREATINE PHOSPHOKINASE	113	IU/L
FIBRINOGEN	500	MG/DL
GAMMA GLUTAMYLTRANSFERASE	5	IU/L

=====

*ELEPHAS MAXIMUS INDICUS*  
INDIAN ELEPHANT  
Name: Ellie

Sex: Female  
Age: 36Y Est.

Acc. #: 101144  
Birth: 14.Feb.1971

=====

**Clinical Note:**

13.Mar.2007

Results of bloodwork show TP = 9.2 g/dl, all other parameters within  
expected range (PCV = 33%). (REJ)

---

Clinical Pathology Records Report - ISIS/In-House Reference Values  
ST. LOUIS ZOOLOGICAL PARK

Scientific name: *ELEPHAS MAXIMUS*  
Common Name: INDIAN ELEPHANT (E,I)

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
WBC	*10 <sup>3</sup> /UL	14.41 ±	4.418	(920)	12.04 ±	4.20	5.800	24.00	(100)
RBC	*10 <sup>6</sup> /UL	3.11 ±	0.55	(778)	2.765 ±	0.339	2.140	3.990	(98)
HGB	GM/DL	13.3 ±	2.1	(814)	12.27 ±	1.30	9.600	15.70	(100)
HCT	%	37.7 ±	5.8	(987)	34.46 ±	3.55	26.90	43.20	(98)
MCH	MG/DL	43.4 ±	4.9	(752)	45.60 ±	11.13	30.91	153.0	(100)
MCHC	uug	35.4 ±	3.7	(808)	35.60 ±	1.47	28.07	39.02	(100)
MCV	fL	122.4 ±	15.6	(773)	128.6 ±	31.1	110.3	430.1	(99)
SEGS	*10 <sup>3</sup> /UL	4.927 ±	2.953	(704)	4.208 ±	1.890	0.000	12.38	(95)
BANDS	*10 <sup>3</sup> /UL	0.431 ±	0.660	(124)	0.127 ±	0.501	0.000	2.940	(42)
LYMPHOCYTES	*10 <sup>3</sup> /UL	5.635 ±	3.373	(705)	5.335 ±	2.944	1.680	15.43	(97)
MONOCYTES	*10 <sup>3</sup> /UL	3.517 ±	2.925	(567)	1.594 ±	1.524	0.000	5.880	(90)
EOSINOPHILS	*10 <sup>3</sup> /UL	0.483 ±	0.540	(529)	0.281 ±	0.277	0.000	1.533	(85)
BASOPHILS	*10 <sup>3</sup> /UL	0.124 ±	0.088	(66)	0.045 ±	0.077	0.000	0.292	(63)
NRBC	/100 WBC	0 ±	1	(47)	0.333 ±	0.577	0.000	1.000	(3)
PLATE. CNT.	*10 <sup>3</sup> /UL	549 ±	132	(161)	386.0 ±	144.7	75.00	713.0	(56)
RETICS	%	0.0 ±	0.1	(6)	0.000 ±	0.000	0.000	0.000	(2)
GLUCOSE	MG/DL	88 ±	20	(630)	83.97 ±	19.16	29.00	141.0	(86)
BUN	MG/DL	12 ±	4	(635)	13.78 ±	3.03	6.000	20.00	(88)
CREAT.	MG/DL	1.6 ±	0.4	(599)	1.407 ±	0.216	0.900	1.900	(85)
URIC ACID	MG/DL	0.2 ±	0.2	(249)	0.079 ±	0.142	0.000	0.400	(14)
CA	MG/DL	10.7 ±	0.7	(579)	10.70 ±	0.53	9.500	12.10	(87)
PHOS	MG/DL	5.0 ±	1.0	(461)	5.332 ±	0.773	4.000	7.600	(34)
NA	MEQ/L	130 ±	5	(481)	131.3 ±	3.4	124.0	140.0	(86)
K	MEQ/L	4.6 ±	0.5	(491)	4.628 ±	0.389	3.700	6.100	(83)
CL	MEQ/L	89 ±	4	(460)	87.98 ±	2.92	82.00	95.00	(85)
IRON	MCG/DL	69 ±	23	(60)					
MG	MG/DL	2.00 ±	0.51	(33)	1.818 ±	0.140	1.600	2.000	(11)
HCO3	MMOL/L	25.2 ±	2.8	(25)					
CHOL	MG/DL	45 ±	11	(400)	42.29 ±	8.07	20.00	59.00	(31)
TRIG	MG/DL	50 ±	29	(346)	57.79 ±	32.12	15.00	145.0	(29)
T.PROT. (C)	GM/DL	8.1 ±	0.8	(598)	8.016 ±	0.605	6.600	9.600	(83)
T.PROT. (R)	GM/DL	8.4 ±	0.4	(23)					
ALBUMIN (C)	GM/DL	3.3 ±	0.4	(316)	3.054 ±	0.746	1.800	4.400	(82)
GLOBULIN (C)	GM/DL	5.0 ±	0.9	(312)	5.440 ±	0.865	3.500	8.000	(48)
AST (SGOT)	IU/L	21 ±	13	(607)	16.70 ±	5.05	5.000	40.00	(84)
ALT (SGPT)	IU/L	7 ±	8	(457)	5.511 ±	3.833	0.000	20.00	(47)
T. BILI.	MG/DL	0.2 ±	0.1	(447)	0.244 ±	0.111	0.000	0.500	(84)
D. BILI	MG/DL	0.1 ±	0.1	(164)	0.050 ±	0.071	0.000	0.100	(2)
I. BILI.	MG/DL	0.1 ±	0.1	(157)	0.050 ±	0.071	0.000	0.100	(2)
AMYLASE	U/L	3600 ±	2366	(70)	5221 ±	391	4633	5855	(13)
ALK.PHOS.	IU/L	139 ±	73	(576)	116.7 ±	53.8	57.00	265.0	(84)
LDH	IU/L	471 ±	357	(352)	499.2 ±	208.0	230.0	1092	(17)

**Clinical Pathology Records Report - ISIS/In-House Reference Values**  
**ST. LOUIS ZOOLOGICAL PARK**

Scientific name: *ELEPHAS MAXIMUS*  
 Common Name: **INDIAN ELEPHANT (E,I)**

		ISIS Values			In-House Values				
		Mean	S.D.	(N)	Mean	S.D.	Min.	Max.	(N)
CPK	IU/L	223 ±	165	(287)	222.5 ±	126.7	61.00	518.0	(19)
OSMOLARITY	MOSMOL/L	234 ±	96	(8)	263.1 ±	6.3	251.0	274.0	(44)
ALPHA GLOB.	MG/DL	250.4 ±	353.1	(2)	500.0 ±	0.0	500.0	500.0	(1)
ALPHA-1 GLOB	GM/DL	1.0 ±	0.0	(1)					
ALPHA-2 GLOB	GM/DL	0.7 ±	0.0	(1)					
BETA GLOB.	GM/DL	1.0 ±	0.6	(2)	0.600 ±	0.000	0.600	0.600	(1)
Body Temperature:		36.3 ±	0.5	(4)					
CO2	MMOL/L	24.7 ±	3.6	(99)	26.27 ±	1.48	22.00	28.00	(26)
CORTISOL	UG/DL	1.8 ±	0.5	(3)					
ESR	MM/HR	98 ±	32	(7)	108.5 ±	11.1	81.00	135.0	(26)
FIBRINOGEN	MG/DL	387 ±	223	(56)	315.9 ±	58.1	210.0	403.0	(25)
GGT	IU/L	7 ±	5	(139)	5.615 ±	3.097	1.000	12.00	(13)
CA++					4.267 ±	0.116	4.200	4.400	(3)
LEPTO. CANI.					400.0 ±	0.0	400.0	400.0	(1)
LEPTO. ICT.					1600 ±	0	1600	1600	(1)
LEPTO. POM.					200.0 ±	0.0	200.0	200.0	(1)
LIPASE	U/L	17 ±	28	(22)	25.00 ±	0.00	25.00	25.00	(13)
MEAN PLATELET VOLUME					4.367 ±	0.392	3.500	5.100	(15)
OSMOLALITY	MOSMOL/KG				268.6 ±	6.4	259.0	279.0	(14)
PROGESTERONE	NG/DL	8.785 ±	38.20	(299)	0.800 ±	0.000	0.800	0.800	(1)
RED CELL DISTRIBUTION WI					15.63 ±	0.91	13.70	17.70	(25)
TESTOSTERONE	NG/ML	40.10 ±	0.000	(1)					
VITAMIN E	UG/ML	0 ±	0	(2)					
TOTAL T4	MCG/DL	10.5 ±	2.0	(6)					
T3 UPTAKE	%	28 ±	2	(2)					
ALBUMIN (E)	GM/DL	3.7 ±	0.2	(2)	3.800 ±	0.000	3.800	3.800	(1)
GAMMA GLOB	GM/DL	3.1 ±	3.2	(9)	1.800 ±	0.000	1.800	1.800	(1)