

Elephant Profile - Sri

House Name: Sri

STB #: 247

Sex: female

Birthplace: Thailand

Common Name: Asian Elephant

Scientific Name: *Elephas maximus*

DOB: ~ July 1980

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

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

Transaction History:

Date	Type	To	From
24-Jul-1981	Transfer(physical and ownership)	Seattle (WPZ)	Thailand
12-Jul-2002	Breeding Loan	St. Louis	Seattle

Physical Characteristics: Wrinkles form circles around both eyes. Dark hair on her head.

Medical History: See medical records

Reproductive Status: One pregnancy; retained fetus fall 2005. See medical records for further details.

Temperament/Behavioral History: Prefers faster paced training sessions. **Blood behavior:** Blood may be collected at an ear panel, door crack or open panels.

Sri's Behavior/Command List:

- Come
- Over
- Pad
- Stool
- Foot
- Lift
- Rear
- Back
- Steady
- Alright
- No
- Lay Down
- Tail
- Ear
- In
- Ahh
- Kneel
- Bow (see definition for kneel)
- Shift
- Come Around
- Move Up
- Salute
- Stretch

- Turn
- Trunk
- Scoot (used at Woodland Park; not St. Louis)
- Half
- Trunk Down
- Head Down
- Leave It
- Easy
- Take
- Brace
- Slide
- Shake
- Sit
- Stand
- Tub it up
- Switch

Preferred Reinforcers: She is very motivated by food. Her favorite food item is carrots.

Reviewed/Revised January 2007

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

- page 1 -

ELEPHAS MAXIMUS INDICUS

INDIAN ELEPHANT

Name: Sri

Sex: Female

Age: 27Y 3M Est.

Acc. #: 101833

Birth: 23.Jan.1980

.....2006....

- 1.Apr Blood sample: Hematology/Chemistry/Serology results.
WBC:11.20 *10³/UL; HCT: 31.3%; BUN:17 MG/DL;
- 3.Apr Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:11.50 *10³/UL; HCT: 33.3%; BUN:16 MG/DL;
- 5.Apr Clinical note recorded. (MW)
- 19.Apr Clinical note recorded. (REJ)
- 1.May Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.40 *10³/UL; HCT: 30.4%; BUN:13 MG/DL;
- 3.May Clinical note recorded. (MW)
- 12.May Clinical note recorded. (MW)
- 24.May Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
Clinical note recorded. (PM)
- 5.Jun Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.40 *10³/UL; HCT: 31.6%; BUN:20 MG/DL;
- 6.Jun Clinical note recorded. (EKT)
- 17.Jun Clinical note recorded. (PM)
- 19.Jun Blood sample: (EDTA) (18:57.0) Hematology/Chemistry/Serology results.
WBC:9.70 *10³/UL; HCT: 34.6%; BUN:14 MG/DL;
- 21.Jun Clinical note recorded. (REJ)
- 3.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.60 *10³/UL; HCT: 30.6%; BUN:16 MG/DL;
- 6.Jul Clinical note recorded. (MW)
- 10.Jul Blood sample: (EDTA) Hematology results.
WBC:11.30 *10³/UL; HCT: 32.7%;
- 11.Jul Clinical note recorded. (MW)
- 24.Jul Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.30 *10³/UL; HCT: 33.8%; BUN:15 MG/DL;
- 25.Jul Clinical note recorded. (MJA)
- 26.Jul Clinical note recorded. (REJ)
- 27.Jul Clinical note recorded. (MW)
- Clinical note recorded. (REJ)
- 31.Jul Blood sample: (EDTA) Hematology results.
WBC:10.90 *10³/UL; HCT: 30.5%;
- 1.Aug Blood sample: Chemistry results.
BUN:17 MG/DL;
Clinical note recorded. (REJ)
- 7.Aug Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:11.40 *10³/UL; HCT: 36.0%; BUN:13 MG/DL;

Printed on: 12.Apr.2007

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

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ELEPHAS MAXIMUS INDICUS

INDIAN ELEPHANT

Name: Sri

Sex: Female

Age: 27Y 3M Est.

Acc. #: 101833

Birth: 23.Jan.1980

.....2006....

- 8.Aug Clinical note recorded. (MW)
21.Aug Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.90 *10³/UL; HCT: 31.9%; BUN:11 MG/DL;
23.Aug Clinical note recorded. (MW)
5.Sep Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.80 *10³/UL; HCT: 35.7%; BUN:12 MG/DL;
7.Sep Clinical note recorded. (MW)
6.Oct Clinical note recorded. (REJ)
9.Oct Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.70 *10³/UL; HCT: 35.4%; BUN:14 MG/DL;
10.Oct Clinical note recorded. (MW)
1.Nov Clinical note recorded. (MW)
2.Nov Clinical note recorded. (REJ)
6.Nov Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:10.00 *10³/UL; HCT: 35.0%; BUN:15 MG/DL;
7.Nov Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.
NO PARASITES SEEN
Clinical note recorded. (PM)
Clinical note recorded. (REJ)
4.Dec Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:12.00 *10³/UL; HCT: 33.0%; BUN:17 MG/DL;
5.Dec Clinical note recorded. (MW)

.....2007....

- 8.Jan Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:11.70 *10³/UL; HCT: 33.1%; BUN:12 MG/DL;
Hemolysis
Clinical note recorded. (JM)
9.Jan Clinical note recorded. (REJ)
10.Jan Clinical note recorded. (REJ)
11.Jan
12.Jan Clinical note recorded. (MW) Weight: 3147 Kg (6936 Lb)
12.Mar Blood sample: (EDTA) Hematology/Chemistry/Serology results.
WBC:11.00 *10³/UL; HCT: 35.9%; BUN:13 MG/DL;
13.Mar Clinical note recorded. (REJ)
4.Apr Clinical note recorded. (REJ)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

- page 1 -

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female
Age: 27Y 3M Est. Birth: 23.Jan.1980
Acc. #: 101833

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 1.Apr.2006
Time of Collection:
Collected by:

Hematology >>

Analysis Information >>

Anticoagulant:
Storage: Not recorded
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM
Date of Analysis: 17.Apr.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	11.2		*10 ³ /UL
RED BLOOD CELL COUNT	2.90		*10 ⁶ /UL
HEMOGLOBIN	11.4		GM/DL
HEMATOCRIT	< 31.3		%
MCV	108		fL
MCH	39.3		uug
MCHC	36.4		gm/dL
SEGMENTED NEUTROPHILS	32	(3.584)	% (*10 ³ /UL)
LYMPHOCYTES	25	(2.800)	% (*10 ³ /UL)
MONOCYTES	43	(4.816)	% (*10 ³ /UL)
PLATELET COUNT	< 344		*10 ³ /UL
TARGET CELLS	2		

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 1.Apr.2006
Time of Collection:
Collected by:

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Not recorded
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM
Date of Analysis: 17.Apr.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	77	MG/DL
BLOOD UREA NITROGEN	> 17	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	13.1	
CALCIUM	10.5	MG/DL
PHOSPHORUS	4.9	MG/DL
calcium/phosphorus ratio	2.14	
SODIUM	131	MEQ/L
POTASSIUM	4.9	MEQ/L
sodium/potassium ratio	26.7	
CHLORIDE	93	MEQ/L
MAGNESIUM	2.5	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.0	GM/DL
ALBUMIN (COLORIMETRY)	< 2.7	GM/DL
ASPARTATE AMINOTRANSFERASE	13	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	69	IU/L
CREATINE PHOSPHOKINASE	71	IU/L
FIBRINOGEN	> 800.0	MG/DL
GAMMA GLUTAMYLTRANSFERASE	10	IU/L

Comments >>

Morphology: rouleaux +1

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 3.Apr.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: 3.Apr.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	11.5		*10 ³ /UL
RED BLOOD CELL COUNT	3.08		*10 ⁶ /UL
HEMOGLOBIN	12.3		GM/DL
HEMATOCRIT	33.3		%
MCV	108		fL
MCH	39.9		uug
MCHC	36.9		gm/dL
SEGMENTED NEUTROPHILS	27	(3.105)	% (*10 ³ /UL)
LYMPHOCYTES	30	(3.450)	% (*10 ³ /UL)
MONOCYTES	38	(4.370)	% (*10 ³ /UL)
EOSINOPHILS	5	(0.575)	% (*10 ³ /UL)
PLATELET COUNT	< 326		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female
Age: 27Y 3M Est. Birth: 23.Jan.1980
Acc. #: 101833

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 3.Apr.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: 3.Apr.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	86	MG/DL
BLOOD UREA NITROGEN	16	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	10.0	
CALCIUM >	11.8	MG/DL
PHOSPHORUS	4.7	MG/DL
calcium/phosphorus ratio	2.51	
SODIUM	130	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	27.7	
CHLORIDE >>	99	MEQ/L
MAGNESIUM	1.9	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.5	GM/DL
ALBUMIN (COLORIMETRY) <	2.8	GM/DL
ASPARTATE AMINOTRANSFERASE <	6	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	68	IU/L
CREATINE PHOSPHOKINASE	97	IU/L
FIBRINOGEN >	700	MG/DL
GAMMA GLUTAMYLTRANSFERASE	8	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

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Clinical Note:

5.Apr.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 33.3%, WBC 11,500 27% neuts, 30% lymphs, 38%
monos, 5% eos.

Chem panel results - Ca 11.8 mg/dl, fibrinogen 700 mg/dl

A: WBC results consistent with previous values. (MW)

Clinical Note:

19.Apr.2006

Problem: dystocia (Confirmed)

Bloodwork within accepted ranges. (REJ)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 1.May.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: 1.May.2006
Time of Analysis: 19:49
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.4		*10 ³ /UL
RED BLOOD CELL COUNT	2.83		*10 ⁶ /UL
HEMOGLOBIN	11.4		GM/DL
HEMATOCRIT	< 30.4		%
MCV	107		fL
MCH	40.3		uug
MCHC	37.5		gm/dL
SEGMENTED NEUTROPHILS	26	(2.704)	% (*10 ³ /UL)
LYMPHOCYTES	35	(3.640)	% (*10 ³ /UL)
MONOCYTES	38	(3.952)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.104)	% (*10 ³ /UL)
PLATELET COUNT	< 309		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 1.May.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: 1.May.2006
Time of Analysis: 20:25
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	85	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	8.67	
CALCIUM >>	12.3	MG/DL
PHOSPHORUS	4.9	MG/DL
calcium/phosphorus ratio	2.51	
SODIUM	129	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.0	
CHLORIDE >>	98	MEQ/L
MAGNESIUM	1.8	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.1	GM/DL
ALBUMIN (COLORIMETRY)	2.9	GM/DL
ASPARTATE AMINOTRANSFERASE	13	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE <	65	IU/L
CREATINE PHOSPHOKINASE	72	IU/L
FIBRINOGEN >>	900	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Clinical Note:

3.May.2006

Problem: dystocia (Confirmed)
O: CBC results - hct 30.4%, WBC 10,400 26% neuts, 35% lymphs, 38%
monos, 1% eos.
Chem panel results - Ca 12.3 mg/dl, phos 4.9 mg/dl, fibrinogen 900
mg/dl.
A: Slightly low hematocrit although animal previously was at 26%.
Continue to monitor this parameter at routine bloodwork. (MW)

Clinical Note:

12.May.2006

Problem: dystocia (Confirmed)
O: Trunk wash samples collected 3/1 - 3/3/2006 negative for
Mycobacteria (NVSL). (MW)

Clinical Note:

24.May.2006

Problem: dystocia (Confirmed)
Fecal flotation-negative (PM)

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2006-0387
Date collected: **24.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 Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 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	12.4		*10 ³ /UL
RED BLOOD CELL COUNT	2.88		*10 ⁶ /UL
HEMOGLOBIN	< 11.1		GM/DL
HEMATOCRIT	< 31.6		%
MCV	110		fL
MCH	38.5		uug
MCHC	35.1		gm/dL
SEGMENTED NEUTROPHILS	27	(3.348)	% (*10 ³ /UL)
LYMPHOCYTES	24	(2.976)	% (*10 ³ /UL)
MONOCYTES	47	(5.828)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.248)	% (*10 ³ /UL)
PLATELET COUNT	< 288		*10 ³ /UL

Morphology Results >>

TARGET CELLS 2

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female
Age: 27Y 3M Est. Birth: 23.Jan.1980
Acc. #: 101833

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 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	89	MG/DL
BLOOD UREA NITROGEN >	20	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	14.3	
CALCIUM	10.9	MG/DL
PHOSPHORUS	5.2	MG/DL
calcium/phosphorus ratio	2.10	
SODIUM	131	MEQ/L
POTASSIUM	4.5	MEQ/L
sodium/potassium ratio	29.1	
CHLORIDE >	97	MEQ/L
MAGNESIUM	2.3	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.8	GM/DL
ALBUMIN (COLORIMETRY)	3.0	GM/DL
ASPARTATE AMINOTRANSFERASE	15	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	76	IU/L
CREATINE PHOSPHOKINASE	83	IU/L
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

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Clinical Note:

6.Jun.2006

Problem: dystocia (Confirmed)
Bloodwork: No significant findings except mild low hematocrit
continues, Hct 31.6%. (EKT)

Clinical Note:

17.Jun.2006

Problem: dystocia (Confirmed)
Free catch urine- pH-9 protein-trace glucose-neg ketones-neg
bili-neg
blood-neg urobilogen-normal color-pale yellow and very cloudy
sp.gr.-1.010
Sediment-Occasional epithelial cells, 4+ debris (PM)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female
Age: 27Y 3M Est. Birth: 23.Jan.1980
Acc. #: 101833

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 19.Jun.2006
Time of Collection: 18:57.0
Collected by: RJ
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: 19.Jun.2006
Time of Analysis:
Analysis by: RJ
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	<	9.7		*10 ³ /UL
RED BLOOD CELL COUNT		3.17		*10 ⁶ /UL
HEMOGLOBIN		12.2		GM/DL
HEMATOCRIT		34.6		%
MCV		109		fL
MCH		38.5		uug
MCHC		35.3		gm/dL
SEGMENTED NEUTROPHILS		24	(2.328)	% (*10 ³ /UL)
LYMPHOCYTES	<	23	(2.231)	% (*10 ³ /UL)
MONOCYTES		51	(4.947)	% (*10 ³ /UL)
EOSINOPHILS		2	(0.194)	% (*10 ³ /UL)
PLATELET COUNT	<<	270		*10 ³ /UL

Morphology Results >>

ANISOCYTOSIS 1, TARGET CELLS 2

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female
Age: 27Y 3M Est.
Acc. #: 101833
Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 19.Jun.2006
Time of Collection: 18:57.0
Collected by: RJ
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: 19.Jun.2006
Time of Analysis:
Analysis by: RJ
Automated analysis.

Tests and Results >>

GLUCOSE	89	MG/DL
BLOOD UREA NITROGEN	14	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	9.33	
CALCIUM	11.4	MG/DL
PHOSPHORUS	4.8	MG/DL
calcium/phosphorus ratio	2.38	
SODIUM	131	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.5	
CHLORIDE >>	99	MEQ/L
MAGNESIUM	2.0	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.8	GM/DL
ALBUMIN (COLORIMETRY)	3.0	GM/DL
ASPARTATE AMINOTRANSFERASE	19	IU/L
ALANINE AMINOTRANSFERASE	13	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	83	IU/L
CREATINE PHOSPHOKINASE <	31	IU/L
FIBRINOGEN >	750.0	MG/DL
GAMMA GLUTAMYLTRANSFERASE >	13	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

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Clinical Note:

Problem: dystocia (Confirmed)
Bloodwork: Parameters within expected ranges. (REJ)

21.Jun.2006

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 3.Jul.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: 3.Jul.2006
Time of Analysis: 17:19
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.6		*10 ³ /UL
RED BLOOD CELL COUNT	2.8		*10 ⁶ /UL
HEMOGLOBIN	< 10.9		GM/DL
HEMATOCRIT	< 30.6		%
MCV	109		fL
MCH	38.9		uug
MCHC	35.6		gm/dL
SEGMENTED NEUTROPHILS	25	(2.650)	% (*10 ³ /UL)
LYMPHOCYTES	26	(2.756)	% (*10 ³ /UL)
MONOCYTES	44	(4.664)	% (*10 ³ /UL)
EOSINOPHILS	5	(0.530)	% (*10 ³ /UL)
PLATELET COUNT	< 336		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 3.Jul.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: 3.Jul.2006
Time of Analysis: 18:31
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	84	MG/DL
BLOOD UREA NITROGEN	16	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	12.3	
CALCIUM	10.6	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.59	
SODIUM	133	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	28.9	
CHLORIDE >>	99	MEQ/L
MAGNESIUM	2.1	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.6	GM/DL
ALBUMIN (COLORIMETRY) <	2.6	GM/DL
ASPARTATE AMINOTRANSFERASE	13	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	72	IU/L
CREATINE PHOSPHOKINASE	64	IU/L
FIBRINOGEN >	700	MG/DL
GAMMA GLUTAMYLTRANSFERASE	11	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

6.Jul.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 30.6%, WBC 10,600 25% neuts, 26% lymphs, 44%
monos, 5% eos.

Chem panel results - TP 7.6 g/dl, albumin 2.6 g/dl, fibrinogen 700
mg/dl.

A: Values consistent with previous results for this animal. (MW)

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Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 10.Jul.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: 10.Jul.2006
Time of Analysis: 20:56
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	11.3		*10 ³ /UL
RED BLOOD CELL COUNT	2.86		*10 ⁶ /UL
HEMOGLOBIN	11.4		GM/DL
HEMATOCRIT	32.7		%
MCV	114		fL
MCH	39.9		uug
MCHC	34.9		gm/dL
SEGMENTED NEUTROPHILS	26	(2.938)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	6	(0.678)	% (*10 ³ /UL)
LYMPHOCYTES	35	(3.955)	% (*10 ³ /UL)
MONOCYTES	25	(2.825)	% (*10 ³ /UL)
EOSINOPHILS	8	(0.904)	% (*10 ³ /UL)
PLATELET COUNT	573		*10 ³ /UL
FIBRINOGEN >>	1250		MG/DL

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

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Clinical Note:

11.Jul.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 32.7%, WBC 11,300 26% neuts, 6% bands, 35%
lymphs, 25% monos, 8% eos. Fibrinogen 1250 mg/dl

A: Slight increase in band neutrophils. Fibrinogen increasing. This
may indicate an increase in inflammation or be a normal variation in
this animal's blood values.

P: Continue to monitor CBC. (MW)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 24.Jul.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: 24.Jul.2006
Time of Analysis: 21:50
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.3		*10 ³ /UL
RED BLOOD CELL COUNT	2.94		*10 ⁶ /UL
HEMOGLOBIN	11.7		GM/DL
HEMATOCRIT	33.8		%
MCV	115		fL
MCH	39.8		uug
MCHC	34.6		gm/dL
SEGMENTED NEUTROPHILS	23	(2.369)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	1	(0.103)	% (*10 ³ /UL)
LYMPHOCYTES	22	(2.266)	% (*10 ³ /UL)
MONOCYTES	43	(4.429)	% (*10 ³ /UL)
EOSINOPHILS	> 10	(1.030)	% (*10 ³ /UL)
BASOPHILS	1	(0.103)	% (*10 ³ /UL)
PLATELET COUNT	522		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 24.Jul.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: 24.Jul.2006
Time of Analysis: 22:02
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	79	MG/DL
BLOOD UREA NITROGEN	15	MG/DL
CREATININE	1.4	MG/DL
BUN/creatinine ratio	10.7	
CALCIUM	10.7	MG/DL
PHOSPHORUS <	3.9	MG/DL
calcium/phosphorus ratio	2.74	
SODIUM	130	MEQ/L
POTASSIUM	4.3	MEQ/L
sodium/potassium ratio	30.2	
CHLORIDE >>	99	MEQ/L
MAGNESIUM >	2.6	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.4	GM/DL
ALBUMIN (COLORIMETRY) <	2.5	GM/DL
ASPARTATE AMINOTRANSFERASE	15	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	67	IU/L
CREATINE PHOSPHOKINASE	101	IU/L
FIBRINOGEN >>	950	MG/DL
GAMMA GLUTAMYLTRANSFERASE >	14	IU/L

ELEPHAS MAXIMUS INDICUS

INDIAN ELEPHANT

Name: Sri

Sex: Female

Age: 27Y 3M Est.

Acc. #: 101833

Birth: 23.Jan.1980

Clinical Note:

Problem: dystocia (Confirmed)

25.Jul.2006

PROCEDURE: Trunk wash

Collected first of three samples for mycobacteriosis screening. (MJA)

Clinical Note:

Problem: dystocia (Confirmed)

26.Jul.2006

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

Clinical Note:

Problem: dystocia (Confirmed)

27.Jul.2006

O: CBC results - hct 33.8%, WBC 10,300 23% neuts, 1% bands, 22%
lymphs, 43% monos, 10% eos, 1% basos

Chem panel results - fibrinogen 950 mg/dl, TP 7.4 g/dl, albumin 2.5
g/dl, globulin 4.9 g/dl

A: Improvement in hematocrit, band percentage, and fibrinogen since
last check. (MW)

Clinical Note:

Problem: dystocia (Confirmed)

27.Jul.2006

Trunk wash collected for mycobacterial screening, samples 3 of 3. (REJ)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 31.Jul.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: 31.Jul.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.9		*10 ³ /UL
RED BLOOD CELL COUNT	2.76		*10 ⁶ /UL
HEMOGLOBIN <	10.9		GM/DL
HEMATOCRIT <	30.5		%
MCV	111		fL
MCH	39.5		uug
MCHC	35.7		gm/dL
SEGMENTED NEUTROPHILS	25	(2.725)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	2	(0.218)	% (*10 ³ /UL)
LYMPHOCYTES	27	(2.943)	% (*10 ³ /UL)
MONOCYTES	45	(4.905)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.109)	% (*10 ³ /UL)
PLATELET COUNT <<	269		*10 ³ /UL

Morphology Results >>

ANISOCYTOSIS 1+

Comments >>

Target cells 2+

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

1.Aug.2006

Problem: dystocia (Confirmed)
Results of bloodwork - complete blood cell count and chemistry panel
within expected range. (REJ)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 1.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: 1.Aug.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	81	MG/DL
BLOOD UREA NITROGEN	> 17	MG/DL
CREATININE	> 2.3	MG/DL
BUN/creatinine ratio	7.39	
CALCIUM	10.1	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.46	
SODIUM	128	MEQ/L
POTASSIUM	< 4.0	MEQ/L
sodium/potassium ratio	32.0	
CHLORIDE	>> 101	MEQ/L
MAGNESIUM	1.8	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.5	GM/DL
ALBUMIN (COLORIMETRY)	< 2.6	GM/DL
ASPARTATE AMINOTRANSFERASE	14	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	78	IU/L
CREATINE PHOSPHOKINASE	157	IU/L
GAMMA GLUTAMYLTRANSFERASE	10	IU/L

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 7.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: 7.Aug.2006
Time of Analysis: 21:20
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	11.4		*10 ³ /UL
RED BLOOD CELL COUNT	3.12		*10 ⁶ /UL
HEMOGLOBIN	12.5		GM/DL
HEMATOCRIT	36		%
MCV	115		fL
MCH	40.1		uug
MCHC	34.7		gm/dL
SEGMENTED NEUTROPHILS	19	(2.166)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	3	(0.342)	% (*10 ³ /UL)
LYMPHOCYTES	22	(2.508)	% (*10 ³ /UL)
MONOCYTES	48	(5.472)	% (*10 ³ /UL)
EOSINOPHILS	8	(0.912)	% (*10 ³ /UL)
PLATELET COUNT	519		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 7.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: 7.Aug.2006
Time of Analysis: 21:48
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	73	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	8.13	
CALCIUM	10.1	MG/DL
PHOSPHORUS <	3.7	MG/DL
calcium/phosphorus ratio	2.73	
SODIUM	125	MEQ/L
POTASSIUM	4.6	MEQ/L
sodium/potassium ratio	27.2	
CHLORIDE >>	98	MEQ/L
MAGNESIUM	2.2	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.7	GM/DL
ALBUMIN (COLORIMETRY)	3.0	GM/DL
ASPARTATE AMINOTRANSFERASE	14	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	76	IU/L
CREATINE PHOSPHOKINASE	133	IU/L
GAMMA GLUTAMYLTRANSFERASE	11	IU/L

=====

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

8.Aug.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 36%, WBC 11,400 19% neuts, 3% bands, 22% lymphs,
48% monos, 8% eos.

Chem panel results - within normal range for species. (MW)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 21.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: 21.Aug.2006
Time of Analysis: 19:04
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	12.9		*10 ³ /UL
RED BLOOD CELL COUNT	2.85		*10 ⁶ /UL
HEMOGLOBIN	11.5		GM/DL
HEMATOCRIT	31.9		%
MCV	112		fL
MCH	40.4		uug
MCHC	36.1		gm/dL
SEGMENTED NEUTROPHILS	23	(2.967)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	1	(0.129)	% (*10 ³ /UL)
LYMPHOCYTES	22	(2.838)	% (*10 ³ /UL)
MONOCYTES	> 51	(6.579)	% (*10 ³ /UL)
EOSINOPHILS	3	(0.387)	% (*10 ³ /UL)
PLATELET COUNT	< 308		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 21.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: 21.Aug.2006
Time of Analysis: 19:41
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	85	MG/DL
BLOOD UREA NITROGEN	11	MG/DL
CREATININE	1.2	MG/DL
BUN/creatinine ratio	9.17	
CALCIUM	10.8	MG/DL
PHOSPHORUS	< 3.4	MG/DL
calcium/phosphorus ratio	3.18	
SODIUM	128	MEQ/L
POTASSIUM	4.7	MEQ/L
sodium/potassium ratio	27.2	
CHLORIDE	> 95	MEQ/L
MAGNESIUM	1.9	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.0	GM/DL
ALBUMIN (COLORIMETRY)	3.0	GM/DL
ASPARTATE AMINOTRANSFERASE	19	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	78	IU/L
CREATINE PHOSPHOKINASE	151	IU/L
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

ELEPHAS MAXIMUS INDICUS

INDIAN ELEPHANT

Name: Sri

Sex: Female

Age: 27Y 3M Est.

Acc. #: 101833

Birth: 23.Jan.1980

Clinical Note:

23.Aug.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 31.9%, WBC 12,900 23% neuts, 1% bands, 22%
lymphs, 51% monos, 3% eos.

Chem panel results - within normal limits for species. (MW)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 5.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: 5.Sep.2006
Time of Analysis: 21:56
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	12.8		*10 ³ /UL
RED BLOOD CELL COUNT	3.04		*10 ⁶ /UL
HEMOGLOBIN	12.2		GM/DL
HEMATOCRIT	35.7		%
MCV	117		fL
MCH	40.1		uug
MCHC	34.2		gm/dL
SEGMENTED NEUTROPHILS	26	(3.328)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	1	(0.128)	% (*10 ³ /UL)
LYMPHOCYTES	30	(3.840)	% (*10 ³ /UL)
MONOCYTES	41	(5.248)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.256)	% (*10 ³ /UL)
PLATELET COUNT	< 383		*10 ³ /UL

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

7.Sep.2006

Problem: dystocia (Confirmed)

O: CBC results - hct 35.7%, WBC 12,800 26% neuts, 1% bands, 30%
lymphs, 41% monos, 2% eos.

Chem panel results - within normal limits.

A: No change in overall health parameters. (MW)

Clinical Note:

6.Oct.2006

Problem: dystocia (Confirmed)

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

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 9.Oct.2006
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Hematology >>

Analysis Information >>

Anticoagulant: EDTA
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM
Date of Analysis: 10.Oct.2006
Time of Analysis: 8:57
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.7		*10 ³ /UL
RED BLOOD CELL COUNT	2.93		*10 ⁶ /UL
HEMOGLOBIN	11.9		GM/DL
HEMATOCRIT	35.4		%
MCV	121		fL
MCH	40.6		uug
MCHC	33.6		gm/dL
SEGMENTED NEUTROPHILS	28	(2.996)	% (*10 ³ /UL)
LYMPHOCYTES	27	(2.889)	% (*10 ³ /UL)
MONOCYTES	42	(4.494)	% (*10 ³ /UL)
EOSINOPHILS	3	(0.321)	% (*10 ³ /UL)
PLATELET COUNT	< 391		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 9.Oct.2006
Time of Collection:
Collected by:
Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

Chemistry Sample: Serum
Storage: Refrigerated (<48 hours)
Sample Quality: No quality problems.

Laboratory: ADV. VET LG MAM
Date of Analysis: 10.Oct.2006
Time of Analysis: 9:47
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	79	MG/DL
BLOOD UREA NITROGEN	14	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	10.8	
CALCIUM	< 9.8	MG/DL
PHOSPHORUS	4.0	MG/DL
calcium/phosphorus ratio	2.45	
SODIUM	127	MEQ/L
POTASSIUM	< 3.9	MEQ/L
sodium/potassium ratio	32.6	
CHLORIDE	> 94	MEQ/L
MAGNESIUM	2.1	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.6	GM/DL
ALBUMIN (COLORIMETRY)	< 2.8	GM/DL
ASPARTATE AMINOTRANSFERASE	10	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	83	IU/L
CREATINE PHOSPHOKINASE	90	IU/L
FIBRINOGEN	> 800	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Clinical Note:

10.Oct.2006

Problem: dystocia (Confirmed)
O: CBC results - hct 35.4%, WBC 10,700 28% neuts, 27% lymphs, 42%
monos, 3% eos.
Chem panel results - fibrinogen 800 mg/dl. (MW)

Clinical Note:

1.Nov.2006

Problem: dystocia (Confirmed)
Proc: Trunk wash for routine TB screening. Day 1 of 3. (MW)

Clinical Note:

2.Nov.2006

Problem: dystocia (Confirmed)
Trunk wash procedure for routine TB screening, day 2 of 3. (REJ)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 6.Nov.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: 6.Nov.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	10.0		*10 ³ /UL
RED BLOOD CELL COUNT	3.03		*10 ⁶ /UL
HEMOGLOBIN	13.1		GM/DL
HEMATOCRIT	35.0		%
MCV	116		fL
MCH	43.2		uug
MCHC	37.4		gm/dL
SEGMENTED NEUTROPHILS	22	(2.200)	% (*10 ³ /UL)
NEUTROPHILIC BANDS	1	(0.100)	% (*10 ³ /UL)
LYMPHOCYTES	< 21	(2.100)	% (*10 ³ /UL)
MONOCYTES	52	(5.200)	% (*10 ³ /UL)
EOSINOPHILS	4	(0.400)	% (*10 ³ /UL)
PLATELET COUNT	< 310		*10 ³ /UL

Morphology Results >>

POLYCHROMAS. 2

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 6.Nov.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: 6.Nov.2006
Time of Analysis:
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	76	MG/DL
BLOOD UREA NITROGEN	15	MG/DL
CREATININE	1.5	MG/DL
BUN/creatinine ratio	10.0	
CALCIUM	11.2	MG/DL
PHOSPHORUS	4.2	MG/DL
calcium/phosphorus ratio	2.67	
SODIUM >	137	MEQ/L
POTASSIUM	5.0	MEQ/L
sodium/potassium ratio	27.4	
CHLORIDE >>	98	MEQ/L
MAGNESIUM	2.3	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.5	GM/DL
ALBUMIN (COLORIMETRY)	3.2	GM/DL
ASPARTATE AMINOTRANSFERASE	19	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.3	MG/DL
ALKALINE PHOSPHATASE	89	IU/L
CREATINE PHOSPHOKINASE	163	IU/L
FIBRINOGEN >	800	MG/DL
GAMMA GLUTAMYLTRANSFERASE	8	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

7.Nov.2006

Problem: dystocia (Confirmed)
Fecal floatation-negative (PM)

Clinical Note:

7.Nov.2006

Problem: dystocia (Confirmed)
Results of bloodwork: WBC 10000, normal distribution. Fibrinogen 800 mg/dl, TP 8.5 g/dl, BUN 15 mg/dl, creat 1.5 mg/dl. All parameters considered within reference ranges. (REJ)

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:

Group of specimens housed together.

Enclosure: RE

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: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: 4.Dec.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: 4.Dec.2006
Time of Analysis: 20:01
Analysis by:
Automated analysis.

Tests and Results >>

WHITE BLOOD CELL COUNT	12.0		*10 ³ /UL
RED BLOOD CELL COUNT	2.85		*10 ⁶ /UL
HEMOGLOBIN	12.2		GM/DL
HEMATOCRIT	33		%
MCV	116		fL
MCH	42.8		uug
MCHC	37.0		gm/dL
SEGMENTED NEUTROPHILS	26	(3.120)	% (*10 ³ /UL)
LYMPHOCYTES	< 17	(2.040)	% (*10 ³ /UL)
MONOCYTES	> 55	(6.600)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.240)	% (*10 ³ /UL)
PLATELET COUNT	< 306		*10 ³ /UL

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 Kg on 10.Jan.2006
Manual restraint used.

Date of Collection: **4.Dec.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: **4.Dec.2006**
Time of Analysis: 20:19
Analysis by:
Automated analysis.

Tests and Results >>

GLUCOSE	91	MG/DL
BLOOD UREA NITROGEN	> 17	MG/DL
CREATININE	1.6	MG/DL
BUN/creatinine ratio	10.6	
CALCIUM	10.7	MG/DL
PHOSPHORUS	4.7	MG/DL
calcium/phosphorus ratio	2.28	
SODIUM	< 124	MEQ/L
POTASSIUM	< 3.9	MEQ/L
sodium/potassium ratio	31.8	
MAGNESIUM	1.9	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.5	GM/DL
ALBUMIN (COLORIMETRY)	3.1	GM/DL
ASPARTATE AMINOTRANSFERASE	9	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	88	IU/L
CREATINE PHOSPHOKINASE	75	IU/L
FIBRINOGEN	450	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note:

5.Dec.2006

Problem: dystocia (Confirmed)
O: CBC results - hct 33%, WBC 12,000 26% neuts, 17% lymphs, 55%
monos, 2% eos.
Chem panel results - TP 7.5 g/dl, albumin 3.1 g/dl, fibrinogen 450
mg/dl
A: All results consistent with previous values. No evidence of
systemic infection or inflammation. (MW)

Clinical Note:

8.Jan.2007

Problem: dystocia (Confirmed)
UA pH 8.5, protein, glucose, ketones, bilirubin, blood negative,
urobili normal, color light yellow, trans cloudy, Sp.Gr. 1.020
A: Normal results (MW). (JM)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 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: hemolysis

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	11.7		*10 ³ /UL
RED BLOOD CELL COUNT	2.87		*10 ⁶ /UL
HEMOGLOBIN	12.6		GM/DL
HEMATOCRIT	33.1		%
MCV	115		fL
MCH	43.9		uug
MCHC	38.1		gm/dL
SEGMENTED NEUTROPHILS	30	(3.510)	% (*10 ³ /UL)
LYMPHOCYTES	< 19	(2.223)	% (*10 ³ /UL)
MONOCYTES	49	(5.733)	% (*10 ³ /UL)
EOSINOPHILS	2	(0.234)	% (*10 ³ /UL)
PLATELET COUNT	< 303		*10 ³ /UL

Morphology Results >>

POLYCHROMAS. 1-2, TARGET CELLS 1

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 2979 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: hemolysis

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

Tests and Results >>

GLUCOSE	70	MG/DL
BLOOD UREA NITROGEN	12	MG/DL
CREATININE	1.3	MG/DL
BUN/creatinine ratio	9.23	
CALCIUM	10	MG/DL
PHOSPHORUS	4.1	MG/DL
calcium/phosphorus ratio	2.44	
SODIUM	128	MEQ/L
POTASSIUM >	5.5	MEQ/L
sodium/potassium ratio	23.3	
CHLORIDE >	94	MEQ/L
MAGNESIUM	2.1	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.1	GM/DL
ALBUMIN (COLORIMETRY)	3.0	GM/DL
ASPARTATE AMINOTRANSFERASE	15	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN >>	0.5	MG/DL
ALKALINE PHOSPHATASE	89	IU/L
CREATINE PHOSPHOKINASE	110	IU/L
FIBRINOGEN >>	1100	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L

=====

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note: **9.Jan.2007**
Problem: dystocia (Confirmed)
Results of CBC within reference range; chem profile - fibrinogen 1100
mg/dl. (REJ)

Clinical Note: **10.Jan.2007**
Problem: dystocia (Confirmed)
Results of Mycobacterium culture (NVSL) from samples collected Nov
1,2,3 - no isolation. (REJ)

Clinical Note: **12.Jan.2007**
Problem: dystocia (Confirmed)
CC: Routine exam; retained fetus
S: Animal alert, active, moving well
Proc:
 1. Restraint: behavioral restraint
 2. wt=3147 kg
PE:
 Gen condition: animal is in good overall condition
 EEN/Oral: normal oral exam. Eyes clear, no discharge, no
congestion.
 CVS: NE
 Respir: WNL
 MS: WNL
 Integum: some minor pad cracks, animal is already scheduled for
pad trim
 GI: WNL
 GU: WNL
A/P: Healthy appearing animal. No apparent systemic effects from
retained fetus. (MW)

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3147 Kg on 11.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	11.0		*10 ³ /UL
RED BLOOD CELL COUNT	2.90		*10 ⁶ /UL
HEMOGLOBIN	11.7		GM/DL
HEMATOCRIT	35.9		%
MCV	124		fL
MCH	40.3		uug
MCHC	32.6		gm/dL
SEGMENTED NEUTROPHILS	22	(2.420)	% (*10 ³ /UL)
LYMPHOCYTES	23	(2.530)	% (*10 ³ /UL)
MONOCYTES	54	(5.940)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.110)	% (*10 ³ /UL)
PLATELET COUNT	457		*10 ³ /UL
TARGET CELLS	1		

Clinical Pathology Records - Specimen Report
ST. LOUIS ZOOLOGICAL PARK

ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

Collection Information >>

Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3147 Kg on 11.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	73	MG/DL
BLOOD UREA NITROGEN	13	MG/DL
CREATININE	< 1.0	MG/DL
BUN/creatinine ratio	13.0	
CALCIUM	< 9.8	MG/DL
PHOSPHORUS	4.7	MG/DL
calcium/phosphorus ratio	2.09	
SODIUM	133	MEQ/L
POTASSIUM	5.1	MEQ/L
sodium/potassium ratio	26.1	
CHLORIDE	> 97	MEQ/L
MAGNESIUM	1.9	MG/DL
TOTAL PROTEIN (COLORIMETRY)	7.9	GM/DL
ALBUMIN (COLORIMETRY)	2.9	GM/DL
ASPARTATE AMINOTRANSFERASE	17	IU/L
ALANINE AMINOTRANSFERASE	10	IU/L
TOTAL BILIRUBIN	0.2	MG/DL
ALKALINE PHOSPHATASE	81	IU/L
CREATINE PHOSPHOKINASE	305	IU/L
FIBRINOGEN	400	MG/DL
GAMMA GLUTAMYLTRANSFERASE	8	IU/L

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ELEPHAS MAXIMUS INDICUS
INDIAN ELEPHANT
Name: Sri

=====

Sex: Female Acc. #: 101833
Age: 27Y 3M Est. Birth: 23.Jan.1980

=====

Clinical Note: **13.Mar.2007**
Problem: dystocia (Confirmed)
Results of bloodwork - within expected ranges. (REJ)

Clinical Note: **4.Apr.2007**
Problem: dystocia (Confirmed)
Results of CBC and chem profile within expected ranges. (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 ³ /UL	14.41 ±	4.418	(920)	12.04 ±	4.20	5.800	24.00	(100)
RBC	*10 ⁶ /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 ³ /UL	4.927 ±	2.953	(704)	4.208 ±	1.890	0.000	12.38	(95)
BANDS	*10 ³ /UL	0.431 ±	0.660	(124)	0.127 ±	0.501	0.000	2.940	(42)
LYMPHOCYTES	*10 ³ /UL	5.635 ±	3.373	(705)	5.335 ±	2.944	1.680	15.43	(97)
MONOCYTES	*10 ³ /UL	3.517 ±	2.925	(567)	1.594 ±	1.524	0.000	5.880	(90)
EOSINOPHILS	*10 ³ /UL	0.483 ±	0.540	(529)	0.281 ±	0.277	0.000	1.533	(85)
BASOPHILS	*10 ³ /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 ³ /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)