

Report Start Date  
01-Jan-00

# Specimen Report for OKLAHOMA / 753307

Report End Date  
09-Nov-05



Taxonomic name: *Elephas maximus indicus*

Family: Elephantidae

Common name: Indian elephant

Order: Proboscidea

## Current information

Sex: Female Sire ID: 815 at Dickerson Park Zoo  
Birth type: Captive Born Dam ID: 4022 at Dickerson Park Zoo  
Birth Location: Dickerson Park Zoo Rearing: Parent  
Birthdate-Age: 2 Jul 1996 - 9Y,4M,10D Hybrid: Not a hybrid  
Time since last Acq: 6Y,4M,25D as of report end date

| <u>Date in</u> | <u>Acquisition - Vendor/local Id</u> | <u>Holder</u>     | <u>Disposition - Recipient/local Id</u> | <u>Date out</u> |
|----------------|--------------------------------------|-------------------|---|-----------------|
| 1 Dec 1998     | Loan In from DICKERSON / 4500        | OKLAHOMA / 753307 |   |                 |
| 17 Jun 1999    | Purchase from DICKERSON / 4500       | OKLAHOMA / 753307 |   |                 |

| <u>Date</u> | <u>Identifier type</u> | <u>Identifier</u> | <u>Location</u> | <u>Comments</u> |
|-------------|------------------------|-------------------|-----------------|-----------------|
| 2 Jul 1996  | House Name             | Chandra           |                 |                 |
| 2 Jul 1996  | Regional Studbook #    | 385               | AZA             |                 |

| <u>Date</u> | <u>Enclosure</u> | <u>Reason</u> |
|-------------|------------------|---------------|
| 1 Dec 1998  | PACHY            |               |

| <u>Date</u> | <u>Sex</u> | <u>Comments</u> |
|-------------|------------|-----------------|
| 1 Dec 1998  | Female     |                 |

| <u>Date</u> | <u>Rearing</u> | <u>Comments</u> |
|-------------|----------------|-----------------|
| 1 Dec 1998  | Parent         |                 |

| <u>Date</u> | <u>Parent(s)</u> | <u>local Id</u> | <u>Location</u> | <u>Comments</u> |
|-------------|------------------|-----------------|-----------------|-----------------|
| 1 Dec 1998  | Sire             | 815             | DICKERSON       |                 |
| 1 Dec 1998  | Dam              | 4022            | DICKERSON       |                 |



# OKLAHOMA CITY ZOO BREEDING AND BEHAVIOR SUMMARY

ANIMAL : INDIAN ELEPHANT      SEX: 0.1    ISIS#: 7533-07 Chandra

| DATE      | DATA | REMARKS   |
|-----------|------|---|
| 03 Dec 98 | 0    | Minyahk, Asha and Chandra went outside today - sp                         |
| 06 Dec 98 | 0    | Chandra was a little wired today - dp                                     |
| 07 Dec 98 | 0    | all three went outside today - Asha and Chandra played in the pool - sp   |
| 14 Dec 98 | 0    | worked well in am - played in pool while it was filling - sp              |
| 02 Apr 99 | 0    | first day without adult elephant around - put outside and stationed well  |
| 28 Apr 99 | 0    | began whistle training - js   |
| 03 May 99 | 0    | Asha is being aggressive toward Chandra while stationing at the far end   |
|           |      | of the lot in am and pm - Asha is getting most of the treats - sp         |
| 05 Aug 99 | 0    | 06 or 07 - sand in stool from one of these two - js                       |
| 12 Aug 99 | 0    | Chandra and Asha got into the back hallway during the night and did a lot |
|           |      | of damage - sp  |
| 13 Aug 99 | 0    | saw debris from rampage in stool today - plastic bag, scouring pad and    |
|           |      | green sponge seen - js  |
| 14 Aug 99 | 0    | attempted to separate for am feeding - neither Asha nor Chandra was too   |
|           |      | keen and neighter are - back together for pm feeding - js                 |
| 20 Sep 99 | 0    | Chandra fell off the rock in middle of exhibit - much roaring - seemed    |
|           |      | fine a few minutes later - sp   |
| 11 Dec 99 | 0    | one of the elephants hit the rolling door injuring Janet Wiard - dw       |
| 18 Jan 00 | 0    | both elephants were unruly until given a timeout in pm which straightened |
|           |      | them out - sp   |
| 24 May 00 | 0    | Chandra had very loose stool overnight - very upset in am - did not want  |
|           |      | to separate from Asha - very aggitated when separated - turning circles   |
|           |      | and trying to climb center door - did not eat in am - ate well in pm - sp |
| 25 May 00 | 0    | Chandra was upset again in am - would not separate - vz                   |



# OKLAHOMA CITY ZOO BREEDING AND BEHAVIOR SUMMARY

ANIMAL: INDIAN ELEPHANT SEX: 0.1 ISIS#: 7533-07 Chandra

| DATE      | DATA | REMARKS   |
|-----------|------|---|
| 18 Jul 00 | 0    | Chandra was upset in am - would not station - did not eat her grain -   |
|           |      | dribbling some loose stool in am and straining later - given mineral    |
|           |      | oil - ate about 1/2 her grain in pm - pd                                |
| 17 Aug 00 | 0    | Chandra was aggitated in the morning - vz                               |
| 18 Dec 00 | 0    | Chandra and Asha let outside to play in the snow - sp                   |
| 10 Jul 01 | 0    | first night for both inside and outside access - pd                     |
| 18 Nov 01 | 0    | ate only 20% of her morning grain and about half her pm grain - eating  |
|           |      | hay and alfalfa - vz  |
| 25 Mar 02 | 0    | possible estrous behavior - slapping tail and touching teats - df       |
| 07 Jun 03 | 0    | bumps on belly - sp   |
| 08 Jul 03 | 0    | possible estrous - tail slapping and acting like a spaz - sp            |
| 12 Jul 03 | 0    | shed remnant of old tooth (left upper) - sp                             |
| 15 Jul 03 | 0    | flushed tooth socket - sp   |
| 16 Jul 03 | 0    | flushed tooth socket with hose and saline - sp                          |
| 23 Jul 03 | 0    | finally lost remnant of upper right tooth - sp                          |
| 07 Nov 03 | 0    | Asha and Chandra have both been very nervous due to construction nearby |
|           |      | let both out for a while to get tused to it - sp                        |
| 29 Nov 03 | 0    | aggressive toward keeper Shelly today - pd                              |
| 04 Oct 04 | 0    | Chandra ate a small paint brush today - df                              |
| 11 May 05 | 0    | drew blood from Chandra's left ear - df                                 |
| 17 May 05 | 0    | drew blood - df   |
| 15 Jul 05 | 0    | Chandra has broken off a piece of her upper left molar - it appears     |
|           |      | sensitive and might be bleeding a little - pd                           |
| 20 Jul 05 | 0    | drew blood from right ear - df  |



Medical History Report - Summary for Individual Specimen  
OKLAHOMA CITY ZOOLOGICAL PARK

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=====
ELEPHAS MAXIMUS INDICUS           Sex: Female           Acc. #: 753307
Indian elephant                   Age: 9Y 4M 7D        Birth: 2.Jul.1996
Name: Chandra
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.....1998...

1.Dec Obtained from another institution.

.....2000...

13.Mar Clinical note recorded. (CJK)

19.Apr Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

10.Jul Clinical note recorded. (MTB)

9.Oct Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

.....2001...

7.Mar Clinical note recorded. (SLH)

8.Mar Clinical note recorded. (SLH)

9.Mar Clinical note recorded. (SLH)

.....2002...

24.Jun Clinical note recorded. (SLH)

25.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

26.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

.....2003...

6.Feb Clinical note recorded. (GDW)

3.Jun Clinical note recorded. (CLD)

14.Jul Clinical note recorded. (CLD)

17.Jul Clinical note recorded. (SLH)

7.Aug Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

.....2004...

7.May Clinical note recorded. (GDW)

Medical History Report - Summary for Individual Specimen  
OKLAHOMA CITY ZOOLOGICAL PARK

=====

*ELEPHAS MAXIMUS INDICUS*

Sex: Female

Acc. #: 753307

Indian elephant

Age: 9Y 4M 7D

Birth: 2.Jul.1996

Name: Chandra

=====

.....2004...

23.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

.....2005...

25.May Clinical note recorded. (JJD)

5.Aug Clinical note recorded. (CO)

30.Sep Parasitology examination: (ROUTINE EXAMINATION) Fecal sample.  
NO PARASITES SEEN

=====

*ELEPHAS MAXIMUS INDICUS*  
Indian elephant  
Name: Chandra

Sex: Female  
Age: 9Y 4M 7D

Acc. #: 753307  
Birth: 2.Jul.1996

=====

**Clinical Note:**

13.Mar.2000

Keepers noticed oral lesion.  
Asses: oral lesion at hard palatal region in front of molar, probably  
caused by trauma. Does not look like ulcer.  
Plan: observation. (CJK)

**Submission Data >>**

Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2000-0436  
Date collected: 19.Apr.2000

**Collected from:**

From an individual specimen.

Enclosure: PACHY

**Examination Data >>**

Storage: refrigerated  
Consistency: formed  
Gross appearance: Typical

Date examined: 21.Apr.2000  
by: SB

**Tests & Results >>**

FLOATATION - NA NITRATE NO PARASITES SEEN

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**Clinical Note:**

10.Jul.2000

Large string of mucous-like, white material found in enclosure,  
uncertain which of two elephants it is from. (MTB)

**Submission Data >>**

Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2000-0874  
Date collected: 9.Oct.2000

**Collected from:**

From an individual specimen.

Enclosure: PACHY

**Examination Data >>**

Storage: room temperature  
Consistency: formed  
Gross appearance: Typical

Date examined: 9.Oct.2000  
by: SJB

=====
ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: Chandra
=====

Sex: Female
Age: 9Y 4M 7D

Acc. #: 753307
Birth: 2.Jul.1996
=====

Parasitology Examination:

Tests & Results >>

FLOATATION - NA NITRATE

NO PARASITES SEEN

Clinical Note:

7.Mar.2001

Obtained trunk wash by putting saline into trunk then offering her a treat in a bucket which she blew the salin out into when she picked up the treat.

National Veterinary Services Laboratories
Accession#: 101678.
Mycobacteria Isolation from trunk wash
Diagnosis: No isolation made
Case#: 013367.
NVSL ID: 320409. (SLH)

Clinical Note:

8.Mar.2001

National Veterinary Services Laboratories
Accession#: 101679.
Mycobacteria Isolation from trunk wash
Diagnosis: No isolation made
Case#: 013368.
NVSL ID: 320411. (SLH)

Clinical Note:

9.Mar.2001

National Veterinary Services Laboratories
Accession#: 101680.
Mycobacteria Isolation from trunk wash
Diagnosis: No isolation made
Case#: 013369.
NVSL ID: 320414. (SLH)

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=====
ELEPHAS MAXIMUS INDICUS                Sex: Female                Acc. #: 753307
Indian elephant                         Age: 9Y 4M 7D              Birth: 2.Jul.1996
Name: Chandra
=====

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**Clinical Note:** 24.Jun.2002

Passed a large amount of twine type rope yesterday. It was noticed to yesterday hanging from rectum but quickly passed without intervention. No after effects today.

Trunk washes finished for mycobacterium culture (no isolation made on all three samples). (SLH)

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Submission Data >>                               Sample id.: 2002-0486
Type: Fecal sample                               Date collected: 25.Sep.2002
Purpose: ROUTINE EXAMINATION                    Collected by: PD

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Collected from:                               Enclosure: PACHY
From an individual specimen.

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Examination Data >>                               Date examined: 25.Sep.2002
Storage: room temperature                       by: CO
Consistency: soft
Gross appearance: Typical

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

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Submission Data >>                               Sample id.: 2002-0505
Type: Fecal sample                               Date collected: 26.Sep.2002
Purpose: ROUTINE EXAMINATION                    Collected by: VEZ

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Collected from:                               Enclosure: PACHY
From an individual specimen.

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Examination Data >>                               Date examined: 27.Sep.2002
Storage: refrigerated                           by: CO
Consistency: soft
Gross appearance: Typical

```

```

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

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=====
ELEPHAS MAXIMUS INDICUS

Indian elephant

Name: Chandra

Sex: Female

Age: 9Y 4M 7D

Acc. #: 753307

Birth: 2.Jul.1996
=====

Clinical Note:

6.Feb.2003

blood from right auricular vein. will send 5 cc serum to Laura Richman/Montali for herpes serologic test development. used 21 gauge butterfly and 10 cc syringe. (GDW)

Clinical Note:

3.Jun.2003

Multiple raised areas on abdomen, vary in size from 2cm to 8cm, advised keepers to rinse abdomen with cool water (CLD)

Clinical Note:

14.Jul.2003

partial loss of 1st molar on left maxilla, appears to be deep pocket packed with debris, animal mildly uncomfortable, recommended to keepers to try and flush socket with cool water from hose (CLD)

Clinical Note:

17.Jul.2003

Sophie reports that they are able to hose the oral pocket and that it is staying free of food debris but that there are still adherent purulent tags. I advised that healing would be slow from inside outward and in future when teeth are shed that they might offer more branches to chew and aid in old teeth shedding. (SLH)

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2003-0371
Date collected: 7.Aug.2003
Collected by: PD

Collected from:

From an individual specimen.

Enclosure: PACHY

Examination Data >>

Storage: refrigerated
Consistency: formed
Gross appearance: Typical

Date examined: 7.Aug.2003
by: DRH

Tests & Results >>

FLOATATION - ZINC SULFATE NO PARASITES SEEN
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=====

*ELEPHAS MAXIMUS INDICUS*

Sex: Female

Acc. #: 753307

Indian elephant

Age: 9Y 4M 7D

Birth: 2.Jul.1996

Name: Chandra

=====

**Clinical Note:**

7.May.2004

trunk washes collected 3/2/2004-3/4/2004 were all negative on culture for mycobacteria thru NVSL. (GDW)

**Submission Data >>**

Type: Fecal sample

Purpose: ROUTINE EXAMINATION

Sample id.: 2004-0577

Date collected: 23.Sep.2004

Collected by: SP

**Collected from:**

From an individual specimen.

Enclosure: PACHY

**Examination Data >>**

Storage: room temperature

Consistency: formed

Gross appearance: Typical

Date examined: 23.Sep.2004

by: DRH

**Tests & Results >>**

FLOATATION - ZINC SULFATE

NO PARASITES SEEN

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**Clinical Note:**

25.May.2005

Collected trunk wash sample for mycobacterium culture (day 2). (JJD)

**Clinical Note:**

5.Aug.2005

Three trunk wash samples submitted to National Vet Services Lab for annual TB screen: no isolation made on all three samples. (CO)

=====

*ELEPHAS MAXIMUS INDICUS*  
**Indian elephant**  
Name: Chandra

Sex: Female  
Age: 9Y 4M 7D

Acc. #: 753307  
Birth: 2.Jul.1996

=====

**Parasitology Examination:**

**Submission Data >>**

Type: Fecal sample  
Purpose: ROUTINE EXAMINATION

Sample id.: 2005-0506  
Date collected: **30.Sep.2005**  
Collected by: DF

**Collected from:**

From an individual specimen.

Enclosure: PACHY

**Examination Data >>**

Storage: room temperature  
Consistency: formed  
Gross appearance: Typical

Date examined: 30.Sep.2005

by: CO

**Tests & Results >>**

FLOATATION - NA NITRATE

NO PARASITES SEEN

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**Clinical Pathology Records Report - ISIS/In-House Reference Values**  
**OKLAHOMA CITY ZOOLOGICAL PARK**

=====  
 Scientific name: **ELEPHAS MAXIMUS**  
 Common Name: **Asiatic elephant**  
 =====

|              |                      | ISIS Values |       |       |       |        |
|--------------|----------------------|-------------|-------|-------|-------|--------|
|              |                      | Mean        | S.D.  | Min.  | Max.  | (N)    |
| WBC          | *10 <sup>3</sup> /UL | 14.43 ±     | 4.409 | 5.800 | 33.30 | (1779) |
| RBC          | *10 <sup>6</sup> /UL | 3.06 ±      | 0.51  | 1.78  | 5.15  | (1501) |
| HGB          | GM/DL                | 13.2 ±      | 2.2   | 6.6   | 24.9  | (1568) |
| HCT          | %                    | 37.1 ±      | 6.0   | 20.3  | 68.0  | (1890) |
| MCH          | MG/DL                | 43.3 ±      | 4.8   | 16.6  | 63.2  | (1464) |
| MCHC         | uug                  | 35.4 ±      | 3.6   | 16.9  | 68.6  | (1536) |
| MCV          | fL                   | 122.3 ±     | 13.4  | 47.1  | 213.2 | (1491) |
| SEGS         | *10 <sup>3</sup> /UL | 4.822 ±     | 2.925 | 0.291 | 23.90 | (1502) |
| BANDS        | *10 <sup>3</sup> /UL | 1.402 ±     | 2.124 | 0.000 | 11.40 | (307)  |
| LYMPHOCYTES  | *10 <sup>3</sup> /UL | 5.243 ±     | 3.223 | 0.196 | 20.60 | (1513) |
| MONOCYTES    | *10 <sup>3</sup> /UL | 3.677 ±     | 2.909 | 0.000 | 9.983 | (1273) |
| EOSINOPHILS  | *10 <sup>3</sup> /UL | 0.465 ±     | 0.551 | 0.000 | 4.520 | (1093) |
| BASOPHILS    | *10 <sup>3</sup> /UL | 0.173 ±     | 0.105 | 0.000 | 0.508 | (119)  |
| NRBC         | /100 WBC             | 1 ±         | 1     | 0     | 3     | (85)   |
| PLATE. CNT.  | *10 <sup>3</sup> /UL | 469 ±       | 215   | 121   | 1394  | (428)  |
| RETICS       | %                    | 0.8 ±       | 1.6   | 0.0   | 4.4   | (10)   |
|              |                      |             |       |       |       |        |
| GLUCOSE      | MG/DL                | 91 ±        | 21    | 33    | 223   | (1257) |
| BUN          | MG/DL                | 13 ±        | 4     | 4     | 30    | (1260) |
| CREAT.       | MG/DL                | 1.6 ±       | 0.4   | 0.7   | 3.3   | (1230) |
| URIC ACID    | MG/DL                | 0.2 ±       | 0.3   | 0.0   | 3.4   | (286)  |
| CA           | MG/DL                | 10.6 ±      | 0.8   | 7.8   | 14.8  | (1184) |
| PHOS         | MG/DL                | 5.0 ±       | 1.2   | 1.9   | 11.1  | (724)  |
| NA           | MEQ/L                | 130 ±       | 6     | 99    | 181   | (859)  |
| K            | MEQ/L                | 4.6 ±       | 0.5   | 3.2   | 6.6   | (861)  |
| CL           | MEQ/L                | 89 ±        | 4     | 77    | 103   | (731)  |
| IRON         | MCG/DL               | 65 ±        | 23    | 29    | 158   | (82)   |
| MG           | MG/DL                | 2.10 ±      | 0.53  | 0.00  | 2.90  | (68)   |
| HCO3         | MMOL/L               | 26.3 ±      | 3.0   | 19.0  | 32.3  | (55)   |
| CHOL         | MG/DL                | 48 ±        | 19    | 0     | 189   | (599)  |
| TRIG         | MG/DL                | 61 ±        | 42    | 10    | 329   | (745)  |
| T.PROT. (C)  | GM/DL                | 8.1 ±       | 0.8   | 5.8   | 11.3  | (1227) |
| T.PROT. (R)  | GM/DL                | 8.4 ±       | 0.4   | 7.8   | 9.2   | (23)   |
| ALBUMIN (C)  | GM/DL                | 3.2 ±       | 0.5   | 1.9   | 4.7   | (648)  |
| GLOBULIN (C) | GM/DL                | 5.0 ±       | 1.0   | 2.7   | 8.6   | (639)  |
| AST (SGOT)   | IU/L                 | 22 ±        | 11    | 4     | 97    | (1227) |
| ALT (SGPT)   | IU/L                 | 7 ±         | 8     | 0     | 72    | (781)  |
| T. BILI.     | MG/DL                | 0.2 ±       | 0.2   | 0.0   | 1.2   | (765)  |
| D. BILI      | MG/DL                | 0.1 ±       | 0.1   | 0.0   | 1.3   | (233)  |
| I. BILI.     | MG/DL                | 0.1 ±       | 0.1   | 0.0   | 0.6   | (224)  |
| AMYLASE      | U/L                  | 3017 ±      | 2492  | 0     | 9866  | (170)  |
| ALK.PHOS.    | IU/L                 | 143 ±       | 66    | 28    | 641   | (1157) |
| LDH          | IU/L                 | 655 ±       | 703   | 46    | 4769  | (495)  |

Clinical Pathology Records Report - ISIS/In-House Reference Values  
OKLAHOMA CITY ZOOLOGICAL PARK

Scientific name: *ELEPHAS MAXIMUS*  
Common Name: Asiatic elephant

|                   |          | ISIS Values |       | Min.  | Max.  | (N)   |
|-------------------|----------|-------------|-------|-------|-------|-------|
|                   |          | Mean        | S.D.  |       |       |       |
| CPK               | IU/L     | 225 ±       | 170   | 23    | 1260  | (486) |
| OSMOLARITY        | MOSMOL/L | 264 ±       | 29    | 0     | 325   | (98)  |
| ALPHA GLOB.       | MG/DL    | 250.4 ±     | 353.1 | 0.7   | 500.0 | (2)   |
| ALPHA-1 GLOB      | MG/DL    | 0.8 ±       | 0.1   | 0.7   | 1.0   | (6)   |
| ALPHA-2 GLOB      | MG/DL    | 0.9 ±       | 0.2   | 0.7   | 1.1   | (6)   |
| BETA GLOB.        | MG/DL    | 1.0 ±       | 0.6   | 0.6   | 1.4   | (2)   |
| Body Temperature: |          | 36.3 ±      | 0.5   | 36.0  | 37.0  | (4)   |
| CO2               | MMOL/L   | 24.8 ±      | 4.0   | 15.8  | 37.0  | (230) |
| CORTISOL          | NMOL/L   | 2.0 ±       | 1.0   | 0.5   | 5.4   | (35)  |
| ESR               | MM/HR    | 98 ±        | 32    | 53    | 130   | (7)   |
| FIBRINOGEN        | MG/DL    | 371 ±       | 181   | 0     | 810   | (238) |
| GGT               | IU/L     | 7 ±         | 5     | 0     | 33    | (314) |
| LIPASE            | U/L      | 19 ±        | 30    | 0     | 127   | (53)  |
| PROGESTERONE      | NMOL/L   | 18.82 ±     | 62.45 | 0.020 | 346.0 | (379) |
| TESTOSTERONE      | NG/ML    | 20.34 ±     | 27.95 | 0.570 | 40.10 | (2)   |
| A-TOCOPHEROL      | UG/DL    | 19 ±        | 15    | 0     | 42    | (8)   |
| TOTAL T4          | MCG/DL   | 10.0 ±      | 2.7   | 4.2   | 12.6  | (10)  |
| T3 UPTAKE         | %        | 28 ±        | 2     | 26    | 29    | (2)   |
| ALBUMIN (E)       | GM/DL    | 4.1 ±       | 0.6   | 3.5   | 4.9   | (4)   |
| GAMMA GLOB        | GM/DL    | 2.9 ±       | 2.9   | 0.0   | 9.0   | (11)  |

