

VASHA MEDICAL RECORDS

DALLAS ZOO

18 pages

Medical History Report - Summary for Individual Specimen
DALLAS ZOO

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=====
Scientific Name: LOXODONTA AFRICANA (no subsp)           Accession #: 938189
Common Name: AFRICAN ELEPHANT                           Female
Name: VASHA                                             Birth: 3.Jan.1986 (Estimated)
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.....2000....

- 6.Jan PROBLEM: vaccination - SEMI-ANNUAL
Clinical note recorded. (KCG)
- 13.Mar Clinical note recorded. (KCG)
- 15.Mar Clinical note recorded. (KCG)
- 17.Mar Clinical note recorded. (KCG)
- 21.Mar PROBLEM: preshipment examination
Clinical note recorded. (KCG)
- 23.Mar Clinical note recorded. (KCG)
- 25.Mar Clinical note recorded. (KCG)
- 27.Mar Clinical note recorded. (KCG)
- 29.Mar Clinical note recorded. (KCG)
- 31.Mar Clinical note recorded. (KCG)
- 10.Apr Clinical note recorded. (KCG)
- 12.Apr Clinical note recorded. (KCG)
- 14.Apr Clinical note recorded. (KCG)
- 7.Aug PROBLEM: ultrasound
Clinical note recorded. (GPL)
- 28.Aug PROBLEM: preshipment examination
Clinical note recorded. (KCG)
- 30.Aug Blood sample: (6:14.0) Hematology/Chemistry/Serology results.
WBC:9.50 *10³/UL; HCT: 34.0%;
- 10.Sep Clinical note recorded. (KCG)
- 19.Sep Clinical note recorded. (GPL)
- 20.Sep Clinical note recorded. (GPL)
- 2.Nov PROBLEM: vaccination
Clinical note recorded. (GPL)
- 5.Nov PROBLEM: vaccination
Clinical note recorded. (GPL)
- 7.Nov Parasitology examination: (SEMI ANNUAL 1) Fecal sample.
NO PARASITES SEEN
- 9.Nov Parasitology examination: (SEMI ANNUAL 2) Fecal sample.
NO PARASITES SEEN
- 10.Nov PROBLEM: preshipment examination
Clinical note recorded. (KCG)
- 11.Nov Clinical note recorded. (KCG)
- 13.Nov PROBLEM: diarrhea (onset)
Clinical note recorded. (GPL)
- 14.Nov Clinical note recorded. (KCG)
- 15.Nov PROBLEM: diarrhea (resolved)

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Common Name: AFRICAN ELEPHANT Female
Name: VASHA Birth: 3.Jan.1986 (Estimated)
=====

.....2000....

15.Nov Blood sample: (5:30.0) Hematology/Chemistry/Serology results.
 WBC:8.70 *10³/UL; HCT: 28.0%; BUN:13 MG/DL;
 Parasitology examination: (DIAGNOSTIC EXAMINATION) Fecal sample.
 NO PARASITES SEEN/OCCULT BLOOD - NEGATIVE
 Clinical note recorded. (KCG)

16.Nov Removed from collection.
 PROBLEM: outgoing shipment
 Sedated: XYLAZINE
 DIAGNOSTIC EXAM: Interzoo transfer.
 Clinical note recorded. (KCG)

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Common Name: AFRICAN ELEPHANT Female
Name: VASHA Birth: 3.Jan.1986 (Estimated)
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Clinical Note: 6.Jan.2000
 Problem: vaccination - SEMI-ANNUAL
 Rx: EMC (killed) Vaccine: 5.0ml IM in left triceps mm.

 Comment: No adverse vaccine reactions were observed or reported.
 She did well with this in training period. (KCG)

Clinical Note: 13.Mar.2000
 Procedure:
 Fecal collection - Salmonella PCR and culture at TVMDL 1/9 for
 preshipment (KCG)

Clinical Note: 15.Mar.2000
 Procedure:
 Fecal collection - Salmonella PCR and culture at TVMDL 2/9 for
 preshipment (KCG)

Clinical Note: 17.Mar.2000
 Procedure:
 Fecal collection - Salmonella PCR and culture at TVMDL 3/9 for
 preshipment (KCG)

Clinical Note: 21.Mar.2000
 Problem: preshipment examination
 Procedure:
 Protected Contact Training for trunk wash - TB culture for
 preshipment 1/3

 Observation:
 Elephant cooperated quite well and ret'd an excellent wash sample
 for freezing. (KCG)

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Clinical Note: 23.Mar.2000

Procedure:
Protected Contact Training for trunk wash - TB culture for
preshipment 2/3

Observation:
Elephant cooperated quite well and ret'd an excellent wash sample
for freezing. (KCG)

Clinical Note: 25.Mar.2000

Procedure:
Protected Contact Training for trunk wash - TB culture for
preshipment 3/3

Observation:
Elephant cooperated quite well and ret'd an excellent wash sample
for freezing. (KCG)

Clinical Note: 27.Mar.2000

Procedure:
Fecal collection - Salmonella PCR and culture at TVMDL 4/9 for
preshipment (KCG)

Clinical Note: 29.Mar.2000

Procedure:
Fecal collection - Salmonella PCR and culture at TVMDL 5/9 for
preshipment (KCG)

Clinical Note: 31.Mar.2000

Procedure:
Fecal collection - Salmonella PCR and culture at TVMDL 6/9 for
preshipment (KCG)

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Scientific Name: LOXODONTA AFRICANA (no subsp)      Accession #: 938189
Common Name: AFRICAN ELEPHANT                      Female
Name: VASHA                                         Birth: 3.Jan.1986 (Estimated)
                                                    Age: 14Y 8M Est.
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Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

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Date of Collection: 30.Aug.2000
Time of Collection: 6:14.0
Collected by:

```

Hematology >>

Analysis Information >>

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

```

```

Laboratory: ANTECH-EQUINE
Date of Analysis: 30.Aug.2000
Time of Analysis: 6:14
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	9.5		*10 ³ /UL
RED BLOOD CELL COUNT	2.8		*10 ⁶ /UL
HEMOGLOBIN	12.1		GM/DL
HEMATOCRIT	< 34		%
MCV	121		fL
MCH	43.2		uug
MCHC	35.6		gm/dL
SEGMENTED NEUTROPHILS	> 65	(6.175)	% (*10 ³ /UL)
LYMPHOCYTES	34	(3.230)	% (*10 ³ /UL)
MONOCYTES	1	(0.095)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
CARBON DIOXIDE	<< 15		MMOL/L
FIBRINOGEN	> 397		MG/DL
MEAN CORPUSCULAR HEMOGLOBIN	43.5		PG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	35		%
MEAN CORPUSCULAR VOLUME	123		FL

Clinical Pathology Records - Specimen Report
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Common Name: AFRICAN ELEPHANT                           Female
Name: VASHA                                              Birth: 3.Jan.1986 (Estimated)
                                                         Age: 14Y 8M Est.
=====

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```

Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

```

```

Date of Collection: 30.Aug.2000
Time of Collection: 6:14.0
Collected by:

```

Chemistry >>

```

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

```

```

Laboratory: ANTECH-AVIAN
Date of Analysis: 30.Aug.2000
Time of Analysis: 6:14
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE	>	104	MG/DL
CALCIUM		11.2	MG/DL
PHOSPHORUS		5.6	MG/DL
calcium/phosphorus ratio		2.00	
TOTAL PROTEIN (COLORIMETRY)		7.7	GM/DL
ASPARTATE AMINOTRANSFERASE		14	IU/L
CREATINE PHOSPHOKINASE	<	1.4	IU/L
GAMMA GLUTAMYLTRANSFERASE		8	IU/L

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Common Name: AFRICAN ELEPHANT Female
Name: VASHA Birth: 3.Jan.1986 (Estimated)
 Age: 14Y 8M Est.
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Clinical Note: 5.Nov.2000

Problem: vaccination
Rx: Imrab 3 2.0 ml IM in right hind leg

COM:
She was reluctant to stand and target for the vaccination but she has been historically nervous about being injected in the hind legs. She showed no adverse reactions to the vaccine. (GPL)

Submission Data >> Sample id.: 2000-1343
Type: Fecal sample Date collected: 7.Nov.2000
Purpose: SEMI ANNUAL 1 Time collected: 8:00
 Collected by: HW

Collected from: Enclosure: ZNMLM7A
From an individual specimen.

Examination Data >> Date examined: 7.Nov.2000
Storage: refrigerated at: 15:00
Consistency: soft by: CJP
Gross appearance: Typical

Tests & Results >>
DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

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Name: VASHA Birth: 3.Jan.1986 (Estimated)
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Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: SEMI ANNUAL 2

Sample id.: 2000-1344
Date collected: 9.Nov.2000
Time collected: 9:00
Collected by: MC

Collected from:

From an individual specimen.

Enclosure: ZNMLM7A

Examination Data >>

Storage: refrigerated
Consistency: soft
Gross appearance: Typical

Date examined: 9.Nov.2000
 at: 16:00
 by: CJP

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN
FLOATATION - NA NITRATE NO PARASITES SEEN

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Common Name: AFRICAN ELEPHANT                           Female
Name: VASHA                                              Birth: 3.Jan.1986 (Estimated)
                                                         Age: 14Y 10M Est.
=====

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```

Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

```

```

Date of Collection: 15.Nov.2000
Time of Collection: 5:30.0
Collected by:

```

Hematology >>

Analysis Information >>

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

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Laboratory: ANTECH-EQUINE
Date of Analysis: 15.Nov.2000
Time of Analysis: 5:30
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.7		*10 ³ /UL
RED BLOOD CELL COUNT <<	2.3		*10 ⁶ /UL
HEMOGLOBIN <<	10.3		GM/DL
HEMATOCRIT <<	28		%
MCV	122		fL
MCH	44.8		uug
MCHC >	36.8		gm/dL
SEGMENTED NEUTROPHILS >	65	(5.655)	% (*10 ³ /UL)
LYMPHOCYTES	29	(2.523)	% (*10 ³ /UL)
MONOCYTES	6	(0.522)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
CARBON DIOXIDE <<	15		MMOL/L
MEAN CORPUSCULAR HEMOGLOBIN	45.1		PG
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	37		%
MEAN CORPUSCULAR VOLUME	122		FL

Clinical Pathology Records - Specimen Report
DALLAS ZOO

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Common Name: AFRICAN ELEPHANT                           Female
Name: VASHA                                             Birth: 3.Jan.1986 (Estimated)
                                                         Age: 14Y 10M Est.
=====

```

```

Collection Information >>
Health Status: Normal
Fasting Time: < 8 hours
Activity: Calm
Manual restraint used.

```

```

Date of Collection: 15.Nov.2000
Time of Collection: 5:30.0
Collected by:

```

Chemistry >>

```

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

```

```

Laboratory: ANTECH-EQUINE
Date of Analysis: 15.Nov.2000
Time of Analysis: 5:30
Analysis by:
Automated analysis.

```

Tests and Results >>

	GLUCOSE	98	MG/DL
	BLOOD UREA NITROGEN	13	MG/DL
	CREATININE	< 0.8	MG/DL
	BUN/creatinine ratio	16.3	
	CALCIUM	10.4	MG/DL
	PHOSPHORUS	5.4	MG/DL
	calcium/phosphorus ratio	1.93	
	SODIUM	<< 120	MEQ/L
	POTASSIUM	5.0	MEQ/L
	sodium/potassium ratio	24.0	
	CHLORIDE	88	MEQ/L
	CHOLESTEROL	< 44	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	7.4	GM/DL
	ALBUMIN (COLORIMETRY)	< 3.0	GM/DL
	GLOBULIN (COLORIMETRY)	4.4	GM/DL
	albumin/globulin ratio	0.682	
	ASPARTATE AMINOTRANSFERASE	< 13	IU/L
	TOTAL BILIRUBIN	>> 5	MG/DL
	DIRECT BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	139	IU/L
	CREATINE PHOSPHOKINASE	341	IU/L
	ALBUMIN GLOBULIN RATIO	0.7	
	BUN/CREATININE RATIO	16	
	CALCIUM/PHOSPORUS RATIO	1.9	
	GAMMA GLUTAMYLTRANSFERASE	< 5	IU/L
	SODIUM/POTASSIUM RATIO	24	

=====
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Common Name: AFRICAN ELEPHANT Female
Name: VASHA Birth: 3.Jan.1986 (Estimated)
 Age: 14Y 10M Est.
=====

Clinical Note: 16.Nov.2000

Problem: outgoing shipment
Procedure:
Sedated w/ Xylazine: 400mg IM by pole syringe into medial right thigh
Loaded for shipment to Disney's Animal Kingdom

Observation:
"Vasha" was quite anxious, although not frantic, about being chained to the outside fence at 8:00am in drizzle and cold weather. Xylazine dose was discussed with shipper and DAK/Dallas management as she was chained - elected to increase to 400mg as not comfortable going higher (shipper recommended 500mg). Although no true sedation was noted, her gaze was unfocused and she merely toyed with chains and efforts to throw them back was minimal. She allowed the come-alongs to be placed and was moved successfully, smoothly from her yard to the trailer where she became quite calm (inside trailer) and ceased fidgeting. She had a slight increase on the side of the abdomen (right dorsal flank) but nothing extraordinary or concerning. Feces passed this morning were normal in appearance; frequent urination likely nervous behavior or xylazine induced.

(Comment: Shipper insisted that she be injected in the medial thigh for "faster effects"; she is uncomfortable with rearlimb injections and would not tolerate the protected contact approach, necessitating pole syringe.) (KCG)

Anesthesia Records Report - Individual Specimen
DALLAS ZOO

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Common Name: AFRICAN ELEPHANT                           Female
Name: VASHA                                             Birth: 3.Jan.1986 (Estimated)
                                                         Age: 14Y 10M Est.
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Baseline Data >>                                     Date of anesthesia: 16.Nov.2000
Health: Normal - class I
Preanesthetic Fasting: 8-24 hours
Activity: active and apprehensive
Immobilized in squeeze cage (as an isolated animal).
Body weight: 2722 Kg (6001 Lb) Est.                   Veterinarian: KCG
Body condition: good / normal                         Recorded by: DJC

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Immobilization Data >>
Initial dose given at 8:27
Showed initial drug effects at 13 min (8:40)
No anesthetic complications.
Anesthetic induction was good
Overall rating for anesthesia: good

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Recovery Data >>
Recovery was normal
Recovered to normal by 23:59

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Drug Data >>
Drugs given      Amount      Time      Effect produced      Bottle #
dosage          Route
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XYLAZINE        400 mg    8:27      mild sedation @63 min
0.147 mg/kg    handsyringe - i.m.

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Comments >>
DIAGNOSTIC EXAM: Interzoo transfer.
ANESTHESIA NOTE: Animal was chained in exhibit to allow drug
administration & attachment of come-along chains to trailer.

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Clinical Pathology Records Report - ISIS/In-House Reference Values
DALLAS ZOO

Scientific name: LOXODONTA AFRICANA
Common Name: AFRICAN ELEPHANT

		ISIS Values				
		Mean	S.D.	Min.	Max.	(N)
WBC	*10 ³ /UL	10.50 ± 2.648		4.500	22.10	(1544)
RBC	*10 ⁶ /UL	3.15 ± 0.40		2.05	4.80	(1480)
HGB	GM/DL	13.7 ± 1.6		7.0	26.1	(1522)
HCT	%	39.5 ± 4.6		27.0	56.0	(1984)
MCH	MG/DL	43.6 ± 3.0		34.8	66.8	(1454)
MCHC	uug	34.7 ± 2.0		18.4	57.9	(1501)
MCV	fL	125.8 ± 8.1		91.1	190.0	(1466)
SEGS	*10 ³ /UL	3.146 ± 1.695		0.000	11.80	(1224)
BANDS	*10 ³ /UL	0.843 ± 0.799		0.000	6.530	(605)
LYMPHOCYTES	*10 ³ /UL	4.913 ± 2.532		0.022	17.40	(1236)
MONOCYTES	*10 ³ /UL	1.513 ± 1.651		0.000	9.480	(1175)
EOSINOPHILS	*10 ³ /UL	0.225 ± 0.273		0.000	2.898	(885)
BASOPHILS	*10 ³ /UL	0.049 ± 0.081		0.000	0.525	(464)
NRBC	/100 WBC	0 ± 1		0	3	(92)
PLATE. CNT.	*10 ³ /UL	417 ± 245		74	1380	(215)
RETICS	%	0.0 ± 0.0		0.0	0.0	(7)
GLUCOSE	MG/DL	84 ± 15		38	174	(1437)
BUN	MG/DL	10 ± 3		0	22	(1458)
CREAT.	MG/DL	1.5 ± 0.5		0.0	11.0	(1405)
URIC ACID	MG/DL	0.2 ± 0.4		0.0	5.1	(466)
CA	MG/DL	10.9 ± 0.6		8.1	15.3	(1434)
PHOS	MG/DL	4.9 ± 0.8		2.8	8.2	(1291)
NA	MEQ/L	129 ± 4		107	182	(1353)
K	MEQ/L	4.8 ± 0.5		3.3	7.6	(1368)
CL	MEQ/L	88 ± 4		67	129	(1323)
IRON	MCG/DL	79 ± 42		8	174	(54)
MG	MG/DL	1.97 ± 0.75		0.65	4.20	(98)
HCO3	MMOL/L	25.1 ± 3.6		13.0	31.0	(44)
CHOL	MG/DL	68 ± 17		0	234	(1290)
TRIG	MG/DL	64 ± 31		0	179	(1124)
T.PROT. (C)	GM/DL	7.7 ± 0.6		5.8	10.5	(1261)
T.PROT. (R)	GM/DL	8.0 ± 0.4		7.4	8.6	(8)
ALBUMIN (C)	GM/DL	3.6 ± 0.4		2.4	5.2	(1145)
GLOBULIN (C)	GM/DL	4.1 ± 0.5		2.6	6.4	(1135)
AST (SGOT)	IU/L	24 ± 10		6	93	(1398)
ALT (SGPT)	IU/L	7 ± 6		0	40	(547)
T. BILI.	MG/DL	0.2 ± 0.1		0.0	1.0	(1187)
D. BILI	MG/DL	0.1 ± 0.1		0.0	0.3	(154)
I. BILI.	MG/DL	0.1 ± 0.1		0.0	0.9	(152)
AMYLASE	U/L	3075 ± 1552		0	7918	(241)
ALK.PHOS.	IU/L	128 ± 61		32	441	(1404)
LDH	IU/L	988 ± 568		157	4306	(1099)

Clinical Pathology Records Report - ISIS/In-House Reference Values
DALLAS ZOO

=====
Scientific name: LOXODONTA AFRICANA
Common Name: AFRICAN ELEPHANT
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		ISIS Values		Min.	Max.	(N)
		Mean	S.D.			
CPK	IU/L	256 ±	196	18	1884	(247)
OSMOLARITY	MOSMOL/L	259 ±	4	246	272	(689)
ALPHA GLOB.	MG/DL	0.7 ±	0.0	0.7	0.7	(1)
ALPHA-1 GLOB	MG/DL	0.7 ±	0.2	0.2	0.8	(8)
ALPHA-2 GLOB	MG/DL	1.0 ±	0.3	0.8	1.6	(8)
BETA GLOB.	MG/DL	1.2 ±	0.8	0.6	1.7	(2)
Body Temperature:		39.0 ±	0.0	39.0	39.0	(1)
CO2	MMOL/L	27.0 ±	3.1	12.0	61.4	(840)
ESR	MM/HR	27 ±	0	27	27	(1)
FIBRINOGEN	MG/DL	238 ±	139	0	600	(70)
GGT	IU/L	12 ±	5	0	37	(389)
LIPASE	U/L	7 ±	7	0	45	(66)
PROGESTERONE	NG/DL	144.8 ±	216.4	0.060	1005	(266)
TESTOSTERONE	NG/ML	1.010 ±	1.117	0.220	1.800	(2)
TOTAL T4	MCG/DL	8.2 ±	1.3	6.9	9.5	(3)
T3 (RIA)	NG/ML	209.0 ±	0.0	209.0	209.0	(1)
ALBUMIN (E)	GM/DL	4.4 ±	0.3	4.1	4.9	(7)
GAMMA GLOB	GM/DL	1.6 ±	0.4	0.7	1.9	(7)