

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERT*
Common Name: East African bush elephant
Name: TARA

Accession #: 03071
Female
Birth: 1.Dec.1965 (Estimated)
Age: 33Y Est.
=====

Clinical Note:

10.Nov.2000

Note: Jeff Briscoe reports that Tara's lameness is much improved and he would prefer not to give her the adaquan since that means giving her an injection in the chute. (JW)

Clinical Note:

18.Nov.2000

Note : due to increased stiffness w cold weather and preference for avoiding ADeugan injections at this time (due to hear leariness of chute) , Tara's Cosequin dose will be increased to 9 scoops BID UFN (PK)

Clinical Note:

14.Jan.2001

Note : per AK, Tara was stiff again this morning (last night was especially cold). They would like to try offering a flake of alfalfa in addition to RX : flunixin meglumine (Banamine) 1000 mg PO SID x 2 days- will monitor closely. (PK)

Clinical Note:

17.Jan.2001

Note : TARA would not take the flunixin offered; however, AK's have increased the amount of heat radiated by in-floor heating and have brought a propane heater into the barn to increase warmth for her. They will try some rubber matting substrate to decrease the pressure onher joints. An Adequan injection is also being considered. (PK)

Clinical Note:

21.Jan.2001

Note: Tara was showing some colic signs yesterday - getting down and up and signs of discomfort. She was fed lots of browse and is eating, acting and defecating normally today. (ML)

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Age: 33Y Est.

8.Feb.2001

Clinical Note:

Note : AK's feel that Tara's stiffness has responded adequately to sealing off doorway which was allowing wind to hit her while she was sleeping in the barn and they do not feel that she needs an Adequan injection at this time.

They also noticed that today Tara appears to be draining a small amount of fluidy pus from her rectal abcess (usually they just see the purulent material on top of her stools, but today she was dripping some of this material even when not defaecating). She does not seem uncomfortable or disturbed by this. AK's will try to get her in chute for rectal palpation. (PK)

11.May.2001

Clinical Note:

4 days ago the keepers noticed a slight swelling on the cranial lateral aspect of the left front leg about 1.5 feet up from the ground. This area apparently broke open as an abscess two days later. Currently at the four day mark there is a mild swelling in the area and the skin has cracked open for the drainage area. Currently there is no exudate. I recommended hot-packing TID for 2 - 3 days. The area should be improving by then or consider a possible antibiotic. Recommended antibiotics for foot abscesses are the penicillins Penicillin G at 10,000 IU/Lb every 96 hours, or Amoxicillin at 8 mg/Kg BID to TID.

Also noted was how stiff she was which has been an on going problem. She is currently on cosequin which is a cartilage chondroprotectant. I have added in Gerizyme EQ for SOD and Catalyase to scavage the synovial break down products and significantly cut the joint inflammation. I would like to run this for a 2 - 3 month period in order to assess if it is helping. If so then she will stay on the product. She currently weighs 8,200 lbs. We will give her 10 level scoops of the powder SID. (SK)

18.May.2001

Clinical Note:

Examine of the abscess area on the left front leg shows it to be much less swollen than the previous week. Currently there has been no drainage, and the area is about healed except for the original skin cracks. The keepers were hotpacking BID. This area should need no further treatment. (SK)

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Clinical Note: 2.Oct.2001
TB trunk wash performed- Day 1 (LG)

Clinical Note: 3.Oct.2001
TB trunk wash performed- Day 2 (LG)

Clinical Note: 4.Oct.2001
TB-trunk wash wash- day 3 (LG)

Clinical Note: 14.Oct.2001
AK report she has not responded very favorably to Cosequin therapy.
P: Discontinue Cosequin, continue Gerizyme.
RX: Glycoflex, 6 scoops BID indefinitely. (LG)

Clinical Note: 31.Dec.2001
Chronic Medication: Gerizyme EQ - successfult given by keeper 11/27
thru 12/31/01. (LH)

Clinical Note: 16.Sep.2002
Trunk wash for TB performed today. Also attempted blood for TB elisa
serology to be sent to Colorado, she was not cooperative, will try for
blood again tomorrow. (LG)

Clinical Note: 17.Sep.2002
Blood obtained from ear today. She was placed in the squeeze, has
been very uncooperative.
P: Send serum for TB elisa, chemistry panel, and bank any left over
serum. (LG)

Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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 Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
 Common Name: East African bush elephant Female
 Name: TARA Birth: 1.Dec.1965 (Estimated)
 Age: 37Y Est.
 =====

Collection Information >>

Health Status: Normal
 Fasting Time: < 8 hours
 Activity: Excited
 Weight: 3674 Kg on 14.Oct.2000
 Manual restraint used.

Date of Collection: 17.Sep.2002
 Time of Collection: 13:30.0
 Collected by: LG
 Sample Collection Site: EAR VEIN

Chemistry >>

Analysis Information >>

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

Laboratory: ANT-EQUINE
 Date of Analysis: 18.Sep.2002
 Time of Analysis:
 Analysis by:
 Automated analysis.

Tests and Results >>

	GLUCOSE	89	MG/DL
	BLOOD UREA NITROGEN	7	MG/DL
	CREATININE	< 0.9	MG/DL
	BUN/creatinine ratio	7.78	
	CALCIUM	11.3	MG/DL
	PHOSPHORUS	4.2	MG/DL
	calcium/phosphorus ratio	2.69	
	SODIUM	128	MEQ/L
	POTASSIUM	4.8	MEQ/L
	sodium/potassium ratio	26.7	
	CHLORIDE	91	MEQ/L
	CHOLESTEROL	< 38	MG/DL
	TOTAL PROTEIN (COLORIMETRY)	> 8.9	GM/DL
	ALBUMIN (COLORIMETRY)	< 2.8	GM/DL
	GLOBULIN (COLORIMETRY)	>> 6.1	GM/DL
	albumin/globulin ratio	0.459	
	ASPARTATE AMINOTRANSFERASE	16	IU/L
	ALANINE AMINOTRANSFERASE	5	IU/L
	TOTAL BILIRUBIN	0.1	MG/DL
	ALKALINE PHOSPHATASE	< 54	IU/L
	CREATINE PHOSPHOKINASE	160	IU/L
	ALBUMIN GLOBULIN RATIO	0.5	GM/DL
	BUN/CREATININE RATIO	8	MG/DL
	GAMMA GLUTAMYLTRANSFERASE	7	IU/L
	SODIUM/POTASSIUM RATIO	27	RATIO

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Clinical Note: 18.Sep.2002
 Trunk wash collected 9/16 Mycobacterium negative at County of Los Angeles. (LG)

Clinical Note: 29.Sep.2002
 Final Date 9/20/02 County of Orange Public Health M. TB - NEGATIVE
 Chem results WNL.
 9/26/02 entry about possible atypical mycobacterium, isolation pending from County of Orange Public Health (LG)

Clinical Note: 3.Oct.2002
 3RD TRUNK WASH
 Last trunk wash for TB performed today. (RB)

Clinical Note: 13.Oct.2002
 Trunk wash collected 10/3/02 Negative AF smear at County of Los Angeles Public Health Laboratory. (LG)

Clinical Note: 20.Oct.2002
 County of Orange final culture results from trunk wash on date 9/18/02 indicate no M. Tb, possible other mycobacterium present, could not isolate due to overgrowth.
 A: Not of a concern at this time since this is the one original trunk wash matched with serum elisa, followed by three successive trunk washes, if anything is of concern it is likely to show up on one of these other diagnostics. (LG)

Clinical Note: 29.Nov.2002
 Rx: GLUCOSAMINE 21600 mg PO BID until further notice. (LG)

Purpose: Arthritis

Prescription Data >>

Starting date: 29.Nov.2002

Drug: GLUCOSAMINE 21600 mg PO BID until further notice

Formulation: 1800.0 mg/sco powder

Prescribed by: LG (29.Nov.2002)

Filled by: LG (29.Nov.2002)

Treatment weight: 3674 kg

Comments >>

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Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

8.Feb.2003

Clinical Note:

Problem: trauma (Confirmed)

FOUND DOWN IN POOL THIS AM

Kprs came in this am to find Tara down in the pool. Due to her arthritis, she was unable to right herself and get up. During her recumbancy, she did not struggle much at all. LAPD and Fire Dept were called in, and using chains and straps they were able to drag her out of the pool where she could be hoisted and righted. This took approx 3.5 hours. After being hoisted up, she was able to maintain herself upright, but was slightly wobbly/weak and slightly aggressive, but very alert and aware.

Proc: The following meds/procedures were done during her recumbancy:

1. Blood drawn for iSTAT and CBC, chem: iSTAT shows fairly good/normal values with slightly elevated Hgb (18), HCT (53) and glucose (128), otherwise very good.

2. 16g IV catheter placed in ear v.

3. Banamine 4gm IV

4. LRS - 2L IV

5. BoSe 2ml IM.

6. Solu-delta-cortef 1gm IV

7. Vitamin A&D 4ml IM.

8. Vitamin B complex 40ml IV.

9. Naltrexon 500mg IV.

10. Naxcel 8gm IV

Assess: Likely fell in pool and could not get up due to wetness and arthritis. Overall, did not struggle much after people on the scene, but do not know how long she was down for. Did well over rest of day. Need to watch for myopathies.

Plan: 1. Gave kprs Phenylbutazone 16gm to try and get into her at end of day.

2. Check on and possibly give more bute tomorrow, but lower dose??

3. Kprs to try and get blood on Monday for CBC and chemistry.

(RB)

Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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Name: TARA                                             Birth: 1.Dec.1965 (Estimated)
                                                    Age: 37Y Est.
=====

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Collection Information >>
Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3674 Kg on 14.Oct.2000
Manual restraint used.

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Date of Collection: 8.Feb.2003
Time of Collection: 8:00.0
Collected by: RB
Sample Collection Site: EAR VEIN

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

```

```

Laboratory: IN-HOUSE
Date of Analysis: 8.Feb.2003
Time of Analysis: 8:23
Analysis by: BG
Automated analysis.

```

Tests and Results >>

```

HEMOGLOBIN >> 18 GM/DL
HEMATOCRIT >> 53 %
MCHC 34.0 gm/dL

```

Chemistry >>

```

Analysis Information >>
Chemistry Sample: Whole Blood (Heparin)
Storage: Fresh
Sample Quality: No quality problems.

```

```

Laboratory: IN-HOUSE
Date of Analysis: 8.Feb.2003
Time of Analysis: 8:23
Analysis by: BG
Automated analysis.

```

Tests and Results >>

```

GLUCOSE >> 128 MG/DL
BLOOD UREA NITROGEN < 4 MG/DL
SODIUM 127 MEQ/L
POTASSIUM << 3.7 MEQ/L
sodium/potassium ratio 34.3
CHLORIDE 90 MEQ/L
BICARBONATE 26 MMOL/L
BASE EXCESS 1 MMOL/L
BLOOD PH 7.387
CARBON DIOXIDE PARTIAL PRESSURE 42.4 MMHG
IONIZED CALCIUM 1.27 MMOL/L
TOTAL CARBON DIOXIDE 27 MMOL/L

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Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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Name: TARA                                           Birth: 1.Dec.1965 (Estimated)
                                                    Age: 37Y Est..
=====

```

Collection Information >>

```

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3674 Kg on 14.Oct.2000
Manual restraint used.

```

```

Date of Collection: 8.Feb.2003
Time of Collection: 8:00.1
Collected by: RB
Sample Collection Site: EAR VEIN

```

Hematology >>

Analysis Information >>

```

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

```

```

Laboratory: ANT-EQUINE
Date of Analysis: 9.Feb.2003
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	8.2		*10 ³ /UL
RED BLOOD CELL COUNT	3.5		*10 ⁶ /UL
HEMOGLOBIN	> 16.3		GM/DL
HEMATOCRIT	42		%
MCV	120		fL
MCH	46.6		ug
MCHC	>> 38.8		gm/dL
SEGMENTED NEUTROPHILS	54	(4.428)	% (*10 ³ /UL)
LYMPHOCYTES	44	(3.608)	% (*10 ³ /UL)
MONOCYTES	1	(0.082)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.082)	% (*10 ³ /UL)
ESTIMATED PLATELET COUNT	ADEQ		
PLATELET COUNT	662		*10 ³ /UL
FIBRINOGEN	257		MG/DL

Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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Common Name: East African bush elephant              Female
Name: TARA                                           Birth: 1.Dec.1965 (Estimated)
                                                    Age: 37Y Est.
=====

```

Collection Information >>

```

Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3674 Kg on 14.Oct.2000
Manual restraint used.

```

```

Date of Collection: 8.Feb.2003
Time of Collection: 8:00.1
Collected by: RB
Sample Collection Site: EAR VEIN

```

Chemistry >>

Analysis Information >>

```

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

```

```

Laboratory: ANT-EQUINE
Date of Analysis: 9.Feb.2003
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE >>	123	MG/DL
BLOOD UREA NITROGEN <	5	MG/DL
CREATININE <	0.8	MG/DL
BUN/creatinine ratio	6.25	
CALCIUM <	9.9	MG/DL
PHOSPHORUS <<	2.9	MG/DL
calcium/phosphorus ratio	3.41	
SODIUM <	124	MEQ/L
POTASSIUM <	4.2	MEQ/L
sodium/potassium ratio	29.5	
CHLORIDE	84	MEQ/L
CHOLESTEROL	51	MG/DL
TOTAL PROTEIN (COLORIMETRY)	8.3	GM/DL
ALBUMIN (COLORIMETRY) <<	2.4	GM/DL
GLOBULIN (COLORIMETRY) >>	5.9	GM/DL
albumin/globulin ratio	0.407	
ASPARTATE AMINOTRANSFERASE	17	IU/L
ALANINE AMINOTRANSFERASE	5	IU/L
TOTAL BILIRUBIN	0.1	MG/DL
ALKALINE PHOSPHATASE <	54	IU/L
CREATINE PHOSPHOKINASE	446	IU/L
ALBUMIN GLOBULIN RATIO	0.4	GM/DL
BUN/CREATININE RATIO	6	MG/DL
GAMMA GLUTAMYLTRANSFERASE	9	IU/L
SODIUM/POTASSIUM RATIO	30	RATIO

Comments >>

SODIUM RECHECKED.

=====
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Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
Age: 37Y Est.
=====

Clinical Note: 9.Feb.2003

Problem: trauma (Confirmed)
Rx: KETOPROFEN 300 mg PO BID for 3 days.
Rx: TOCOPHEROL, ALPHA 5000 IU PO SID for 3 days. (LG)

Purpose: Found down/arthritis

Prescription Data >> Starting date: 9.Feb.2003
Drug: KETOPROFEN 300 mg PO BID until further notice
Formulation: 75 mg capsule
Prescribed by: LG (9.Feb.2003) Filled by: LG (9.Feb.2003)
Treatment weight: 3674 kg

Purpose: Found down/arthritis

Prescription Data >> Starting date: 9.Feb.2003
Drug: TOCOPHEROL, ALPHA 5000 IU PO SID for 3 days
Formulation: 500 IU/GRAM powder
Prescribed by: LG (9.Feb.2003) Filled by: LG (9.Feb.2003)
Treatment weight: 3674 kg

Clinical Note: 10.Feb.2003

Problem: trauma (Confirmed)
S Still very stiff on R hind and forelegs. Swelling evident over elbow and hip joint. Not bending either leg, moves with a shuffle. Will bear wt on both legs though. Attitude is ok. Only eating 1/2 her hay but will eat all browse offered. Base of R ear where injections given looks ok on brief visual exam
A stable
P Going to put her with Gita today to encourage movement. Discussed obtaining blood sample but keeper (Don) concerned about putting her in the squeeze when she is this sore. Will attempt if she improves in next few days. (BC)

Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: TARA

Accession #: 03071
Female
Birth: 1.Dec.1965 (Estimated)

12.Feb.2003

Clinical Note:

Problem: trauma (Confirmed)
BLOODWORK RESULTS
Results from bloodwork on Saturday:
CBC: Except for slightly elevated Hgb (16.3) and platelet count (667,000), WNL.
Chem: Mildly elevated glucose (123), otherwise WNL.
Assess: Elevations in Hgb and platelets likely due to stress and hemoconcentration. Glucose elevation from stress. Values fairly consistent with iSTAT values from the other day. Blood work looks remarkably good for what she went through, hopefully implying that she was now down long before she was found.
Plan: Continue rechecks and meds for now. (RB)

Clinical Note:

Problem: trauma (Confirmed)
S Attitude and appetite are good but still very stiff on R hind and forelegs. Today there is a defined swelling in the proximal surface of the R elbow. Swelling on lateral surface of elbow and hip have diminished
A Still stiff, New swelling on R elbow
P cont Ketoprofen @ 300mg BID for three more days
Keepers were going to try and get her in the squeeze and possibly obtain a blood sample (BC)

13.Feb.2003

Clinical Note:

Problem: trauma (Confirmed)
RECHECK: SWELLING WORSE ON MEDIAL R ELBOW
Per kpr (Jeff) still has good attitude and appetite, but swelling and stiffness of right elbow are worse.
Obs: Moderate to severe swelling on medial aspect of right elbow, with mild to moderate swelling of limb distal to that. Swelling on medial elbow is fairly discrete and raised about 12-15cm. She will put wt on that leg, but only briefly, and she isn't (or can't) bend that elbow.
Assess: Swelling worse.. Consider fracture or ligamentous injury.
Plan: 1. Kprs to start Hot/Cold water soaks (Hot for 5 min, then cold for 5, then hot for 5, then cold) twice daily.
2. Recheck tomorrow and continue keto. (RB)

14.Feb.2003

=====
Scientific Name: LOXODONTA AFRICANA KNOCHENHAUERI
Common Name: East African bush elephant
Name: TARA
=====

Accession #: Q3071
Female
Birth: 1.Dec.1965 (Estimated)
=====

15.Feb.2003

Clinical Note:

Problem: trauma (Confirmed)

RECHECK: SWELLING DECREASED, BLOOD DRAWN

Per kprs, hot/cold water soaks appear to be helping. Getting around better, but still stiff in the right front. Attitude and appetite good.

Obs: Swelling on medial aspect of right elbow much improved today (about 50% reduction). Leg distal to that still swollen the same and she still will not bend the right elbow, but she does appear to be getting around slightly better.

Proc: 1. Blood drawn by kprs for cbc, chem with fibrinogen.

Assess: Improving. (RB)

Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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Common Name: East African bush elephant                Female
Name: TARA                                             Birth: 1.Dec.1965 (Estimated)
                                                    Age: 37Y Est.
=====

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Collection Information >>

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Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3674 Kg on 14.Oct.2000
Manual restraint used.

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Date of Collection: 15.Feb.2003
Time of Collection: 14:20.0
Collected by: RB
Sample Collection Site: EAR VEIN

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Hematology >>

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

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Laboratory: ANT-EQUINE
Date of Analysis: 16.Feb.2003
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

WHITE BLOOD CELL COUNT	9.3		*10 ³ /UL
RED BLOOD CELL COUNT	3.3		*10 ⁶ /UL
HEMOGLOBIN	14.7		GM/DL
HEMATOCRIT	39		%
MCV	118		fL
MCH	44.5		ug
MCHC	> 37.7		gm/dL
SEGMENTED NEUTROPHILS	> 69	(6.417)	% (*10 ³ /UL)
LYMPHOCYTES	< 24	(2.232)	% (*10 ³ /UL)
MONOCYTES	6	(0.558)	% (*10 ³ /UL)
EOSINOPHILS	1	(0.093)	% (*10 ³ /UL)
PLATELET COUNT	611		*10 ³ /UL
FIBRINOGEN	297		MG/DL

Clinical Pathology Records - Specimen Report
LOS ANGELES ZOO

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Name: TARA                                           Birth: 1.Dec.1965 (Estimated)
                                                    Age: 37Y Est.
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Collection Information >>

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Health Status: Abnormal
Fasting Time: < 8 hours
Activity: Calm
Weight: 3674 Kg on 14.Oct.2000
Manual restraint used.

```

```

Date of Collection: 15.Feb.2003
Time of Collection: 14:20.0
Collected by: RB
Sample Collection Site: EAR VEIN

```

Chemistry >>

Analysis Information >>

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

```

```

Laboratory: ANT-EQUINE
Date of Analysis: 16.Feb.2003
Time of Analysis:
Analysis by:
Automated analysis.

```

Tests and Results >>

GLUCOSE	>	104	MG/DL
BLOOD UREA NITROGEN	<	5	MG/DL
CREATININE	<	0.8	MG/DL
BUN/creatinine ratio		6.25	
CALCIUM		10.8	MG/DL
PHOSPHORUS		5.1	MG/DL
calcium/phosphorus ratio		2.12	
SODIUM		126	MEQ/L
POTASSIUM		4.6	MEQ/L
sodium/potassium ratio		27.4	
CHLORIDE	<	83	MEQ/L
CHOLESTEROL	<	38	MG/DL
TOTAL PROTEIN (COLORIMETRY)		8.3	GM/DL
ALBUMIN (COLORIMETRY)	<<	2.6	GM/DL
GLOBULIN (COLORIMETRY)	>>	5.7	GM/DL
albumin/globulin ratio		0.456	
ASPARTATE AMINOTRANSFERASE		32	IU/L
ALANINE AMINOTRANSFERASE		6	IU/L
TOTAL BILIRUBIN		0.1	MG/DL
ALKALINE PHOSPHATASE	<	65	IU/L
CREATINE PHOSPHOKINASE	>>	672	IU/L
ALBUMIN GLOBULIN RATIO		0.5	GM/DL
BUN/CREATININE RATIO		6	MG/DL
GAMMA GLUTAMYLTRANSFERASE		8	IU/L
SODIUM/POTASSIUM RATIO		27	RATIO

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Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
Age: 37Y Est.
=====

Clinical Note: 17.Feb.2003

Problem: trauma (Confirmed)
Recheck
Right front elbow still markedly swollen and stiff. AK report they only had enough Ketoprofen for am dose yesterday.
A: Her elbow looks horrible. Very possible fracture, ligament or joint damage. Her personality would never allow radiographs without immobilization. Since radiographs are not likely to change much about what we can do medically we do not need to pursue that at this time.
P: Continue the Ketoprofen script UFN. Consider changing Synovicre to something different since it appears she may need to stay on high doses longer than we had expected, and synovicre has creatine which can be hard on the kidneys.
Would like to switch to Cosequin, check on price difference. (LG)

Clinical Note: 19.Feb.2003

Problem: trauma (Confirmed)
Rx: GLUCOSAMINE CHONDROTIN 16200 mg PO BID for 60 doses. (LG)

Purpose: trauma (Confirmed), Arthritis

Prescription Data >> Starting date: 19.Feb.2003
Drug: GLUCOSAMINE CHONDROTIN 16200 mg PO BID for 60 doses
Formulation: 1800 MG/SCP powder
Prescribed by: LG (19.Feb.2003) Filled by: LG (19.Feb.2003)
Treatment weight: 3.674 kg

Comments >>
Tradename of drug used is COSEQUIN.

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Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
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Clinical Note: 20.Feb.2003

Problem: trauma (Confirmed)

BLOODWORK RESULTS

CBC: Slight neutrophilia (6,417) and low normal lymphocytes (2232), otherwise rest of leukogram is WNL (including overall WBC count).

Chem: High normal/slightly high CPK (672) with low normal Alb (2.6), otherwise WNL.

Assess: Results of bloodwork are within acceptable. Neutrophilia and low normal lymphocytes may be due to stress. (RB)

Clinical Note: 21.Feb.2003

Problem: trauma (Confirmed)

S Tara moving better than she has for a long time! She is actually bending her R elbow slightly. Appetite and attitude remain good.

P cont anti arthritic therapy as per RX (BC)

Clinical Note: 18.Oct.2003

Problem: trauma (Confirmed)

Rx: WEST NILE VIRUS VACCINE (KILLED) 2 ml IM once for 1 day. (JW)

Purpose: trauma (Confirmed)

Prescription Data >>

Starting date: 18.Oct.2003

Drug: WEST NILE VIRUS VACCINE (KILLED) 2 ml IM once

Formulation: injectable

Prescribed by: JW (18.Oct.2003)

Filled by: JW (18.Oct.2003)

Treatment weight: 3674 kg

Clinical Pathology Records Report - ISIS/In-House Reference Values
LOS ANGELES 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	ug	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
LOS ANGELES ZOO

Scientific name: *LOXODONTA AFRICANA*
Common Name: African elephant

		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)

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Parasitology Examination:

Submission Data >>

Type: Fecal sample
Purpose: ROUTINE EXAMINATION

Sample id.: 2004-0033
Date collected: 14.Jan.2004

Collected from:

From an individual specimen.

Enclosure: 8020RH

Examination Data >>

Storage: refrigerated
Consistency: Not specified
Gross appearance: Typical

Date examined: 15.Jan.2004

by: CAL

Tests & Results >>

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

Clinical Note: 15.Jan.2004
Proc: Sample #1 collected for TB culture of trunk washings. (JW)

Clinical Note: 17.Jan.2004
Proc: Sample #2 collected for TB Culture of trunk washing. (LJG)

Clinical Note: 19.Jan.2004
Proc: Sample #3 collected for TB Culture of trunk washing. (LG)

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note: 22.Jan.2004

TRUNK WASH

Second of third required trunk washes. 2 that were done over weekend were accidentally left out (not frozen), so needed to be repeated.

Proc:

1. Trunk wash performed by kprs in presence of vet using sterile saline.

Assess:

Pending results. (RB)

Clinical Note: 23.Jan.2004

Trunk Wash # 3. Proc:

1. Trunk wash performed by kprs in presence of vet (SK) using sterile saline.

Assess:

Pending results. (SK)

Submission Data >>

Type: Fecal sample

Purpose: ROUTINE EXAMINATION

Sample id.: 2004-0109

Date collected: 12.Feb.2004

Collected from:

Group of specimens housed together.

Enclosure: 8020RH

Examination Data >>

Storage: room temperature

Consistency: Not specified

Gross appearance: Typical

Date examined: 12.Feb.2004

by: CAL

Tests & Results >>

DIRECT MICROSCOPIC EXAMINATION NO PARASITES SEEN

FLOATATION - NA NITRATE NO PARASITES SEEN

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note: 29.Mar.2004
O: Trunk wash results: One report of culture overgrowth. Two negative cultures. (JW)

Clinical Note: 15.Apr.2004
RF MORE STIFF
Kprs report Tara seems more stiff in her RF leg than usual today. She has had no traumatic incidences, etc. that could account for the increased stiffness that kprs know of. No effect to her attitude or appetite per kpr (Scott).
Obs:
BAR. Did not move much while observed, but she does seem to be holding her R elbow and carpus straighter and not bending them as much as she usually does (chronically has decreased ROM and stiffness in that leg). Still bears weight on leg ok.
Assess:
Increased stiffness of unknown cause.
Plan:
1. Ketoprofen BID x 5.
2. Kprs to try running warm water on leg for 10-15 SID x 5. (may be difficult as she is no longer being chained up since moving to the Bone Yard).
Rx: KETOPROFEN 300 mg PO BID for 5 days. (RB)

Purpose: Right front more stiff/sore

Prescription Data >> Starting date: 15.Apr.2004
Drug: KETOPROFEN 300 mg PO BID for 5 days
Formulation: 50.00 mg capsule
Prescribed by: RB (15.Apr.2004) Filled by: RB (15.Apr.2004)
Treatment weight: 3674 kg

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note:

20.Apr.2004

RECHECK: NO IMPROVEMENT - CONTINUED KETOPROFEN

Kprs report no real change in stiffness.

Obs:

BAR. Out in yard today. Still moving very stiffly, not bending right elbow or carpus. Possible mild swelling to medial aspect of elbow.

Assess:

No improvement. Warrants continuing ketoprofen and increasing current gerizyme and cosequin doses for the next month. Also warrants radiographs of elbow and carpus.

Plan:

1. Continue ketoprofen x 5 more days.
2. Increase gerizyme to 4 scoops SID and cosequin to 6 scoops BID for one month.
3. Kprs to work on conditioning Tara to have xray plate in right axilla for radiograph of elbow and carpus.
4. Consider starting on adequan injections if kprs think they can be delivered.
5. Recheck Sunday to see if keto needs to be continued further.

Rx: KETOPROFEN 300 mg PO BID for 5 days. (RB)

Purpose: Right front more stiff/sore

Prescription Data >>

Starting date: 20.Apr.2004

Drug: KETOPROFEN 300 mg PO BID for 5 days

Formulation: 75.00 mg capsule

Prescribed by: RB (20.Apr.2004)

Filled by: RB (20.Apr.2004)

Treatment weight: 3674 kg

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note: 25.Apr.2004

S/O: Right front leg still very stiff. She walks by swinging the leg, not bending much at the elbow or carpus. Keepers report swelling has gone down significantly.

A: Some improvement, but still very stiff and she seems uncomfortable.

P: Continue ketoprofen an additional week and recheck. Discussed watching for any decrease in appetite or signs of GI discomfort.

Rx: KETOPROFEN 300 mg PO BID for 7 days. (JW)

Purpose: trauma (Confirmed)

Prescription Data >>

Starting date: 25.Apr.2004

Drug: KETOPROFEN 300 mg PO BID for 7 days

Formulation: 75.00 mg capsule

Prescribed by: JW (25.Apr.2004)

Filled by: JW (25.Apr.2004)

Treatment weight: 3674 kg

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note:

6.May.2004

RECHECK STIFFNESS: RX HIGHER KETOPROFEN DOSE/CONSULT WITH SFZ (P. DUNKER)

Spoke with Freeland Dunker the other day regarding ideas for NSAIDs, adequan, etc. in elephants as they had an elephant with horrible arthritis that they were using several different regimens on. Received his email today with suggestions. Kprs still concerned that there has been no improvement and yesterday there seemed to be a little discharge on the lateral side of her carpal area. Kprs have continued the warm water hosing SID and have been encouraging walks in exercise yard as much as possible. Kpr Don reports that when Tara lets him feel her leg, the swollen area feels warm, but not hot. Kprs also report that the pads of her feet look good with no evidence of problems.

Obs:

No real change. Still completely stiff from elbow down, but putting good weight on foot. Swelling on inside of leg has reduced slightly and is now more localized to the medial side of her carpus. There is a small area of darkened, apparently dried material on the lateral side of her leg just distal to the carpus, but no obvious current drainage.

DISCUSSION WITH KPRS:

CS and I talked for quite some time with kprs, relaying what we had found out from SFZ and that we were going to be trying both higher doses and possibly combinations of meds to see if we could get some improvement. Informed kprs to monitor for problems such as lethargy, colic, inappetance, etc. that might indicate drugs/combos having undesired effects. Also discussed need for continued warm water hosing, exercise and continued training for radiographs and injections. Still waiting for a little more info from SFZ, so even though both keto and ibuprofen Rx'd, don't want them to start the ibuprofen just yet (as not sure if that combo has been tried by SFZ and we didn't have in acetaminophen that I could find). Also discussed that there may come a day when her leg fuses like this, and this locomotion is what we will have to accept as long as it does not have negative effects on her (other front foot gets problems, etc.).

Plan:

Rx: KETOPROFEN 4000 mg PO SID for 28 days.
Rx: IBUPROFEN 20000 mg PO BID for 14 days.
Rx: WATER topically SID for 30 days.
Rx: EXERCISE BID for 30 days. (RB)

Medical History Report - Individual Specimen
LOS ANGELES ZOO

- page 7 -

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Purpose: Stiffness/lameness (arthritis)

Prescription Data >>

Starting date: 6.May.2004

Drug: KETOPROFEN 4000 mg PO SID for 28 days

Formulation: 75.00 mg capsule

Prescribed by: RB (6.May.2004)

Filled by: RB (6.May.2004)

Treatment weight: 3674 kg

Purpose: Stiffness/lameness (arthritis)

Prescription Data >>

Starting date: 6.May.2004

Drug: IBUPROFEN 20000 mg PO BID for 14 days

Formulation: 800 mg tablet

Prescribed by: RB (6.May.2004)

Filled by: RB (6.May.2004)

Treatment weight: 3674 kg

Purpose: Stiffness/lameness (arthritis)

Prescription Data >>

Starting date: 6.May.2004

Drug: WATER topically SID for 30 days

Formulation: liquid

Prescribed by: RB (6.May.2004)

Filled by: RB (6.May.2004)

Treatment weight: 3674 kg

Comments >>

Topical treatment: Apply to right front leg

Purpose: Stiffness/lameness (arthritis)

Prescription Data >>

Starting date: 6.May.2004

Drug: EXERCISE BID for 30 days

Formulation: other

Prescribed by: RB (6.May.2004)

Filled by: RB (6.May.2004)

Treatment weight: 3674 kg

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note: 9.May.2004

RECHECK STIFFNESS: NO IMPROVEMENT, SWITCH TO IBUPROFEN
Tara has been on higher dose ketoprofen for several days now with no
real improvement. Kprs report no problems getting her to take meds.

Obs:

Possibly a tiny bit better, but no significant improvement.

Assess:

No real improvement. Will switch to ibuprofen starting tomorrow.

Plan:

D/C ketoprofen and switch to ibuprofen as scripted on 5/6. (RB)

Clinical Note: 11.May.2004

S/O: Developed diarrhea today. It's not liquid, but much looser than
normal. No recent improvement in lameness. Still BAR and eating
well.

A: Possibly NSAIDS related.

P: Discontinue ibuprofen. Continue to feed lots of browse. Call with
update tomorrow. Culture if it gets any worse. (JW)

Clinical Note: 13.May.2004

UPDATE: IMPROVING

Per principle kpr (Jeff), Tara's stools are improving and are almost
normal today. Attitude and appetite WNL.

Assess:

Improving.

Plan:

If basically normal tomorrow, will start back on much lower dose of
ibuprofen (say 1/4 of original) and work up to dose Rx. (RB)

Clinical Note: 14.May.2004

DIARRHEA: RESOLVED

Per kpr, diarrhea has resolved and feces are back to normal.

Assess:

Ok to restart ibuprofen at 1/4 original dose BID for next several
days and then increase if no problems. (RB)

Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI*
Common Name: East African bush elephant
Name: TARA

Accession #: 03071
Female

Birth: 1.Dec.1965 (Estimated)

19.May.2004

Clinical Note:

RECHECK: INCREASE IBUPROFEN

Kprs report no recurrence of diarrhea and animal taking meds fine.
No change in lameness/stiffness.

Obs:
BAR. Swelling on medial aspect of carpus has decreased some, but no obvious change in mobility of joints.

Assess:

OK to increase ibuprofen.

Plan:

Go to 1/2 originally scripted dose (i.e. 10,000 mg BID) and recheck next monday or tuesday. (RB)

Clinical Note:

25.May.2004

LOOSE STOOLS AGAIN; STOP IBUPROFEN AGAIN

Kpr (Don) reports that Tara is again having some loose stools but otherwise acting and eating normally. Also reports that swelling has resolved, but there is no improvement in stiffness. It is strange that she has been on increased ibuprofen for 5 days now before the soft stools developed, whereas last time it was immediate (but was a higher dose than also). Instructed kprs to d/c ibuprofen again and we will monitor for resolution of loose stools. Once resolved, will give ibuprofen ONE more try, again starting at lower dose and working way up. (RB)

27.May.2004

Clinical Note:

KPR UPDATE: LOOSE STOOLS IMPROVING

Per principle kpr (Jeff), Tara's stools are improving (almost back to normal). Swelling still resolved, but no improvement in mobility/use. Construction is working very hard to get a restraint device up and running at the temporary elephant yard.

Plan:

1. If stools normalize, then try ibuprofen in slowly increasing dose one more time. (RB)

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note:

2.Jun.2004

RECHECK: STOOLS IMPROVING

Per Kpr (Vickie), stools are continuing to improve and are almost, but not quite normal, although this could have something to do with construction of a new squeeze chute in their area lately.

Plan:

Continue monitoring. When stools normal, try ibuprofen low dose again. (RB)

Clinical Note:

8.Jun.2004

RECHECK

Kprs report that Tara's stools were continuing to improve (off of ibuprofen for almost 2 wks) until Sunday when she again had loose stools for no obvious reason. The only thing kprs can think of is that she got a lot of browse last week. Since Sunday, stools are again improving.

Assess:

Bout of loose stools on Sunday for unknown reason.

Plan:

Wait until stools normal before trying ibuprofen again at 1/4 dose of what I had originally scripted (would be 5gm BID). (RB)

Clinical Note:

17.Jun.2004

Keepers report stools are normal today, but they were soft 2 days ago. Still extremely still walking. (JW)

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Scientific Name: <i>LOXODONTA AFRICANA KNOCHENHAUERI</i>	Accession #: 03071
Common Name: East African bush elephant	Female
Name: TARA	Birth: 1.Dec.1965 (Estimated)

=====

Clinical Note: 26.Jun.2004

UPDATE

Per kprs, Tara had a bout of really bad stools last weekend, but they are currently improving and are basically back to her normal (tended to be soft) prior to being moved to the new holding in the bone yard. Since the move, they had been even better formed, and were basically normal for elephants in general. However, kprs suspect that really loose stools last weekend may have been diet-induced (given lots of new types of browse).

Plan:

Recheck on Wed and if continuing to improve, may just forget about trying ibuprofen one last time and go back to ketoprofen, then add in acetaminophen. (RB)

Clinical Note: 1.Jul.2004

RESTART KETOPROFEN

As stool continues to improve, but is not normal, want to start her back on some anti-inflammatory. Since she developed diarrhea after she was started on ibuprofen (whether or not it was due to the ibuprofen is unknown as she continues to have problems and has not had ibuprofen for some time is unknown), will start her back on high dose ketoprofen and then add in acetaminophen as soon as she's taking the ketoprofen with no problems. Kprs report the restraint chute is almost complete and they will begin transferring elephants through the chute as soon as it is.

Rx: KETOPROFEN 4000 mg PO SID until further notice. (RB)

Purpose: Stiffness

Prescription Data >>

Starting date: 1.Jul.2004

Drug: KETOPROFEN 4000 mg PO SID until further notice

Formulation: 75.00 mg capsule

Prescribed by: RB (1.Jul.2004)

Filled by: RB (1.Jul.2004)

Treatment weight: 3674 kg

=====
Scientific Name: *LOXODONTA AFRICANA KNOCHENHAUERI* Accession #: 03071
Common Name: East African bush elephant Female
Name: TARA Birth: 1.Dec.1965 (Estimated)
=====

Clinical Note: 16.Jul.2004

UPDATE: ADDING ACETOMINOPHEN

Doing well, adjusting to limited mobility, not really improving even though has been on ketoprofen for two weeks now. Kprs report that she is going into chute and they are working towards locking her in. Handling ketoprofen well with no recent bouts of diarrhea, so decided to add on acetaminophen (per Freeland Dunker consult) to see if any effect.

Plan:

Add acetaminophen 2000mg PO BID.

Rx: ACETAMINOPHIN 2000 mg PO BID until further notice. (RB)

Prescription Data >>

Starting date: 16.Jul.2004

Drug: ACETAMINOPHIN 2000 mg PO BID until further notice

Formulation: 500 mg tablet

Prescribed by: RB (16.Jul.2004)

Filled by: RB (16.Jul.2004)

Treatment weight: 3674 kg

Clinical Note: 19.Jul.2004

RECHECK: NO CHANGE

Obs:

BAR. No kpr around by the time I got down to check on Tara, so couldn't go in, but did get her to move and turn around by calling her name. Getting around well, but no real change in mobility - still not bending elbow or carpus. (RB)

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=====
Scientific Name: LOXODONTA AFRICANA KNOCHENHAUERI      Accession #: 03071
Common Name: East African bush elephant              Female
Name: TARA                                           Birth: 1.Dec.1965 (Estimated)
=====

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Clinical Note:

19.Sep.2004

VACCINATIONS: TETANUS AND WEST NILE

No adequan in stock, so will have to give that when it is in.

Proc:

1. Chained in chute for restraint.
2. Tetanus and West Nile vaccines given by kpr.

Plan:

1. Give adequan when in stock.
2. Boost WNV vax in 21 days.

Rx: WEST NILE VIRUS VACCINE (KILLED) 2 ml IM SID for 1 day.

Rx: TETANUS TOXOID 0.2 ml IM SID for 1 day. (RB)

Purpose: Routine vaccination

Prescription Data >>

Starting date: 19.Sep.2004

Drug: WEST NILE VIRUS VACCINE (KILLED) 2 ml IM SID

Formulation: injectable

Prescribed by: RB (19.Sep.2004)

Filled by: RB (19.Sep.2004)

Treatment weight: 3674 kg

Purpose: Routine vaccination

Prescription Data >>

Starting date: 19.Sep.2004

Drug: TETANUS TOXOID 0.2 ml IM SID

Formulation: injectable

Prescribed by: RB (19.Sep.2004)

Filled by: RB (19.Sep.2004)

Treatment weight: 3674 kg

Clinical Note:

29.Sep.2004

RX FOR ADEQUAN

Will Rx adequan and give to kprs to give since Tara lets them give her injections much more easily than vet/techs.

Rx: POLYSULFATED GLYCOSAMINOGLYCAN 25 ml IM SID for 1 dose. (RB)

