



Marine World Africa USA  
Treatment and Observation Record

MEDR002

Printed 7/23/2006 9:41:14 AM

<u>Date</u>	<u>Observation Notes</u>	<u>Treatment Administered</u>
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
4/12/2006	ROUTINE VACCINATION (WNV, KV)	1 ml West- Nile Innovator IM via hand injection by trainer. Fort Dodge # 1666143A. Exp. 28 Apr 07.
4/26/2006	TOOK BLOOD: Large animal profile sent to Idexx. Banked extra serum. Sed Rate 48.	
5/3/2006	Sed Rate 52.	
6/7/2006	TOOK BLOOD: Large animal profile sent to Idexx. In house CBC. Sed Rate 54. Banked extra serum. -KS	
7/5/2006	TOOK BLOOD: Large animal profile sent out to IDEXX. In house CBC and Sed Rate. Sed Rate = 51 - CO	
7/20/2006	Stable, good appetite and behaving normally.	Give glucosamine daily and ketprofen as needed for arthritis.



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**ELEPHANT (common name)**

Taj

1/17/06 ANNUAL Tb TESTING: Day #1 to Solano Co. Health Dept. Instilled 60ml saline into trunk via catheter tip syringe and orange feeding tube, collected in sterile specimen cup.

1/18/06 ANNUAL Tb TESTING: Day #2 to Solano Co. Health Dept. Instilled 60ml saline into trunk via catheter tip syringe and orange feeding tube, collected in sterile specimen cup.

1/19/06 TOOK RADIOGRAPHS: both front feet. ANNUAL Tb TESTING: Day #3 to Solano Co. Health Dept. Instilled 60ml saline into trunk via catheter tip syringe and orange feeding tube, collected in sterile specimen cup.

2/1/06 TOOK BLOOD: Large animal profile to Idexx.

2/2/06 TOOK RADIOGRAPHS: Right front toes.

2/10/06 TOOK RADIOGRAPHS: Both hind feet.

3/1/06 TOOK BLOOD: large animal profile to Idexx.

3/2/06 TOOK RADIOGRAPHS: two views of hind toes and two views of right carpus. Some suggestion of arthritic changes in carpal joints.

3/7/06 ROUTINE FECAL D & F: Negative.

3/9/06 TOOK RADIOGRAPHS: Carpels AP and Lat of both front feet.

3/16/06 TOOK RADIOGRAPHS: Both hind leg carpals. Open cracks/ pressure sores on left hip and right cheek. Apply silvadene cream to affected areas.

4/5/06 TOOK BLOOD: Large animal profile to Idexx.

4/6/06 ROUTINE VACCINATION (Tetanus). 1 ml Tetanus Toxoid IM via hand injection by trainer. Fort Dodge #277337A. Exp 12 AUG 06.



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**ELEPHANT (common name)**

**Taj**

9/30/05	Visual exam today- edema around eyes and pinna resolved and much improved around anus. Still some swelling at ventral base of tail, but is able to pass normal feces. Urine appears normal, eating, acting much more normal. Still no evidence of a bug bite or other cause for anaphylaxis. Will continue to investigate for possible allergans. Is not overly stiff off ketoprofen today. PLAN- continue to monitor closely, reevaluate anaphylaxis protocol.	None at this time
10/1/05	Trainer reports Taj is doing well, no evidence of edema. Can begin ketoprofen as needed for stiffness/arthritis tomorrow. Continue to monitor.	none at this time.
10/5/05	TOOK BLOOD: Large animal profile to Idexx. In house CBC. Trainers report that she has not been stiff last few days, seems to be doing well.	
10/19/05 ROUTINE VACCINATION (WNV, KV).		1 ml West Nile- Innovator IM via hand injection by trainer. Fort Dodge # 1666141A. Exp 09 Nov 06.
11/2/05	TOOK BLOOD: Large animal profile to Idexx, In house CBC.	
12/7/05	TOOK BLOOD: CBC to Idexx and In house.	
12/7/05	Vet rounds- observed walking, she is having a pretty good day. Started off stiff this AM, but walked out of it. Getting glucosamine daily and ketoprofen as needed for pain (generally every 3-4 days). Monitor for progression.	
12/22/05 ACCURATE WEIGHT: 9,200#.		
1/4/06	TOOK BLOOD: Large animal profile to Idexx.	
1/5/06	TOOK RADIOGRAPHS: of left front foot.	
1/12/06	TOOK RADIOGRAPHS: Left front foot.	



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**ELEPHANT (common name)**

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5/4/05 TOOK BLOOD: large animal profile to Idexx.

6/1/05 TOOK BLOOD: CBC to Idexx. Banked serum for Hepatitis testing.

6/22/05 Overall doing well. Trainers give Ketoprofen every 2-3 days. Lower Right tooth is her last tooth because only gingival tissue behind. Both sides of mouth are wearing equally.

6/28/05 Start Glucosamine 8.63 Grams SID.

7/6/05 TOOK BLOOD: Large animal profile to Idexx.

8/15/05 Took demo x-rays today with 3M rep for preview of machine. Were able to get good detail on toes using 60 KVP and 1.0 MAS using a 50 degree angle. Believe that 80 KVP and 2.5 MAS will give sufficient detail for carpals for future films. No abnormalities were noted on x-rays. Elephant did very well during session and appears in good health.

9/7/05 TOOK BLOOD: Large animal profile to Idexx.

9/8/05 Results from recent bloodwork all WNL.

9/29/05 Trainers came in to find her in pool with eyes swollen, left pinna swollen, rectal tissue swollen, pale oral mucosa and walking very stiffly. She was brought into barn and immediately given epinephrine by trainers per the protocol which had been established many years prior. She passed concentrated urine and has not passed feces yet. Much improved PM. Playing in water and spraying mud on back. Feet seem pruritic. Urinating and eating well PM but no defecation noted.

30 mls of 1:1000 Epinephrine IM. Followed 1 hour later with 1.3 Gm Benadryl IM and 200 mg Dexamethasone IM. PLAN: REEVALUATE PROTOCOL for allergic reactions and discuss with elephant staff. Ketaprofen given PM but will try to hold off giving more for 1-2 days depending on clinical signs. Check UA if possible.



Date	Observation Notes	Treatment Administered
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
11/24/04	Stiff on right back knee each morning. Normal range of motion, but slow getting right knee moving.	
12/1/04	TOOK BLOOD: CBC to Idexx.	
1/5/05	TOOK BLOOD: CBC to Idexx.	
1/25/05 ANNUAL TB TRUNK WASH: Day #1 to Solano County Health Dept.	trunk contents collected via red stomach tube and collected into specimen container after being filtered through gauze.	
1/26/05	Tb trunk wash day #2 to Solano County Health Dept.	
1/27/05 ANNUAL TB TRUNK WASH: Day #3 to Solano Health Dept.		
2/2/05	TOOK BLOOD: CBC to Idexx.	
3/2/05 TOOK BLOOD: CBC to Idexx. FECAL D&F: Possible feline tapeworm ova or pollen.	Recheck Fecals every other week x 1 month.	
3/11/05	Last blood work indicates she is becoming more anemic. Need to reevaluate medications. Recheck FECAL D&F: Negative.	
3/16/05 Trainers have noticed she has been stiff and slightly lethargic. Possibly due to being in with 2 new young elephants. Last CBC shows some anemia. In contact with Dr Schmitt concerning possible ketoprofen related however she needs NSAID for arthritis.	Keep her separate. Continue ketoprofen for now only as needed (currently 4.3 gm w/7gm glucosamine) and recheck CBC monthly. Need to get full blood panel.	
3/18/05	TOOK BLOOD: Large animal profile to Idexx. Trainers report she has been stiffer than normal.	
3/31/05 ROUTINE VACCINATION: (West Nile, KV).	1 ml West Nile IM via hand injection by trainer. Fort Dodge # 1666141A. Exp 09 Nov 06.	
4/6/05 TOOK BLOOD: Large animal profile to Idexx. ROUTINE VACCINATION (Tetanus).	1 ml Tetanus toxiod IM via hand injection by trainer. Fort Dodge #277332A. Exp 10 July 05.	



Date	Observation Notes	Treatment Administered
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
6/21/04	Small abscess on side of face is healing.	
6/23/04	Facial lesion healing well. Walking well.	
7/7/04	TOOK BLOOD: CBC to Idexx.	
8/4/04	TOOK BLOOD: routine CBC to Idexx. ROUTINE FECAL D&F: Negative.	
8/19/04	ROUTINE VACCINATION (West Nile, KV). TOOK BLOOD for pre-vax titer yesterday.	1ml West Nile Innovator IM via hand injection by trainer. Fort Dodge #1666129A, exp. 17 Feb 05. Booster in 2-4 weeks.
9/1/04	TOOK BLOOD: CBC to IDEXX	
9/15/04	ROUTINE VACCINATION (West Nile booster #2). TOOK BLOOD: vaccine titer.	1ml West Nile Innovator IM by trainer. Fort Dodge #1666129A, exp. 17 Feb 05.
9/22/04	Doing well. Middle toenail of hind feet cracked. Right foot is newer and more extensive than left foot. Trainers are trimming nails to encourage them to grow from the side as well as nailed. TOOK BLOOD for serum banking.	Using ketoprofen PRN for arthritis.
9/24/04	Stiff yesterday, treated with ketoprofen, doing much better today.	Ketoprofen as needed for arthritis.
10/1/04	Stiff in hind legs over the last three days, correlates with colder weather.	Been using ketoprofen as needed daily, and will be walked to encourage mobility in joints.
10/6/04	BLOOD TAKEN: CBC to IDEXX.	
10/13/04	Back on ketoprofen daily with colder mornings. Overall doing well per trainers.	
11/15/04	Doing well on ketoprofen for stiffness. Need to check blood panel monthly.	Continue .5 Gm Ketoprofen SID
11/17/04	TOOK BLOOD: Large animal profile and T3, T4 to IDEXX.	



Date	Observation Notes	Treatment Administered
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
5/28/04	Stiff for last 2 days.	Use Ketoprofen SID prn. Continue 20 cc Probiotic SID
6/2/04	TOOK BLOOD: routine in house CBC.	
6/4/04	TOOK BLOOD Chem and CBC to Idexx. Allergic reaction similar to the one she had 5/05/00. Swelling of tail head and rectal and vaginal tissue. Vaginal and rectal tissues are edematous and warm to the touch. Her eyes are slightly swollen but not as much as previous episode. The mucosal tissue inside both sides of her mouth is swollen and edematous. She is able to eat but trainers think she is eating more slowly than usual. No obvious bites found. Suspect insect bite in mouth or possibly something she ingested. All 4 feet are pruritic but do not appear swollen.	1.3 Gm Diphenhydramine PO BID X 2-3 days as needed. 200mg Dexamethasone IM in Left hip. If need to give any injections tomorrow give in right hip. Watch for joint stiffness and lameness which happened last time. Should use Ketoprofen instead of Banamine this time.
6/5/04	Swelling decreased greatly. Pooling edema from swelling, pictures taken. Activity and appetite good, no further respiratory difficulty, and oral membranes more normal in color today.	Monitor, no further treatment at this time.
6/6/04	Swelling on tail not any worse or any better.	
6/14/04	Off meds now. Swelling has disappeared and she no longer seems itchy. Later in the afternoon, trainer noticed a baseball size swelling on left side of jaw that appears to be an abscess. Tissue is hard but not hot.	Trainer will attempt to lance with a needle and culture any purulent material.
6/15/04	Abscess on side of face, draining well.	Monitor
6/16/04	Abscess on side of face discharging some material.	Trainers will flush and clean with hose today.
6/18/04	Abscess left side of face about the size of a half dollar. She pulled off the outer layer of skin yesterday and now it does not seem to bother her. Tissue looks healthy. 2 small openings from which thick pus can be squeezed.	Trainers to flush with dilute betadine BID. Recheck 3-5 days.
6/19/04	Abscess on jaw is healing up well. Skin overlying wound is soft and trainers not able to flush further due to lack of opening.	



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<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
1/21/04	Tb trunk washing #2 to Solano Co. Health Dept.	
1/22/04	Tb trunk washing #3 to Solano Co. Health Dept.	
2/20/04	Discomfort in left carpus persisting. According to keeper staff, the pain and stiffness is better some days than others. Tends to flare up with exercise and spending more time in the barn.	Adding chondroitin to the current ketoprofen and glucosamine treatments. Using the allometric scaling, the dose for glucosamine and chondroitin are 27G and 8.5G respectively. Unsure of current level of glucosamine in tablets, but will check and adjust if necessary. Plan to take radiographs of carpus in near future to assess secondary arthritic changes and stage to current state of the problem.
2/23/04	ROUTINE FECAL D&F =Neg.	
3/10/04	ULTRASOUNDED by Dr Schmitt. Probable uterine fibrous tumors present. Should not cause a problem. Unable to visualize one of ovaries.	
3/22/04	Radiographs taken of left front foot, carpus and metacarpus. May be some arthritic changes of 4th digit and carpus. Need to continue to work on technique for machine.	
4/29/04	Overall doing pretty well. Left front carpal joint still stiffer than right especially when she gets up. Right stifle joint is stiff at times. BLOOD TAKEN for Large mammal panel to Idexx.	Consider changing anti inflammatories because she has been on ketoprofen for an extended period.
4/30/04	Blood WNL.	Continue on Ketoprofen/Glucosamine SID. OK to increase to BID on bad days and should try to give EOD if she is doing well. Should check blood monthly.
5/6/04	Walking well today.	No ketoprofen today will see how she is tomorrow.
5/19/04	Occasional stiffness, but doing well overall.	
5/20/04	Stiff today in front leg.	Ketoprofen PRN

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<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
4/12/02	Trainers report she is moving more slowly lately.	Increase acetyl glucosamine injections to every other week.
9/10/02	ROUTINE VACCINATION (Tetanus)	Trainers gave 2cc Tetanus Antitoxin IM via hand injection. Fort Dodge #278628B Exp. 2 Nov 02.
1/6/03	Trunk secretions sent to Solano County Health Dept. for Tb culture. Taj had 20 cc of trunk secretions that were collected for the test.	Collected 20 cc trunk secretions into sterile cup for Tb testing.
1/7/03	Tb tested day 2.	
1/8/03	Tb test done day 3.	
1/17/03	TOOK BLOOD: CBC/Chem to IDEXX. In house PCV 40%	
1/21/03	Sent blood to Dr. Mc Devitt for his research.	
2/6/03	ROUTINE FECAL: F- Negative	
2/19/03	ACCURATE WEIGHT: 9,370 lbs	
4/13/03	Stiff on back legs this A.M.	
4/14/03		Started on 22 Ibuprofen BID for stiffness of rear legs.
4/16/03		Change to 10g Phenylbutazone PO SID.
7/13/03	Observe for gastric upset or appetite changes.	Began new treatment with compounded Ketoprofen (4.5g SID) and glucosamine (7g) in one large capsule PO.
1/20/04	ANNUAL Tb CULTURE: trunk wash #1 to Solano Co. Health Dept.	60cc sterile 0.9% saline instilled into trunk via red rubber tube and collected into clean trash bag. Placed in sterile specimen cup.

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Treatment and Observation Record

MEDR002

Printed 02/13/02 9:19:12 AM

Date	Observation Notes	Treatment Administered
<b>LEPHANT (common name)</b>		
Eaj	02/26/01 Trunk wash #1 for annual Tb test. Test submitted to Solano Co. Public Health Dept.	Administered 60cc sterile saline into trunk and collected into a sterile container. This was done in early AM and the elephant had not had water since the night before.
02/27/01	Trunk wash #2 to Solano Co. Health.	
02/28/01	Third Trunk Wash to Solano County Health Dept	
03/11/01	Left knee seems uncomfortable today. Laying down awkwardly.	
03/11/01	ROUTINE FECAL: D+F= Negative.	
04/03/01	TOOK BLOOD for in hs sed rate= 50.	
04/13/01	Trainers noted she was stiff on her LF leg just after performing a log show.	
05/27/01	TOOK BLOOD: for CBC/ Chem panel to Idexx.	
08/24/01	ROUTINE FECAL: D+F= Negative	
08/28/01	Had a full-thickness skin laceration about 1 inch long on the left side of her trunk. The tissue surrounding it was slightly inflamed and it seemed somewhat painful to her.	
12/22/01	Stiff on RL leg.	Give 10g Phenyl Butazone PO SID and monitor.
12/29/01		D/C Phenyl Butazone TX.
01/29/02	Tb tested using the trunk wash method. Trunk wash samples to Vallejo Department of Public Health x 3 days	Instilled 60 ml sterile saline into trunk and collected in sterile container.
02/10/02	ROUTINE FECAL: D+F= Negative.	



Date	Observation Notes	Treatment Administered
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
03/01/00	TRUNK WASH #3 sent to Solano Co. Health Dept. for Tb testing.	
03/18/00	ROUTINE FECAL: D+F= Negative.	
05/05/00	TOOK BLOOD: for CBC in house Chem to IDEXX. Had allergic reaction to an unknown last night which was noticed by the night keeper. Both eyes were swollen tightly shut, the tissues in her mouth and lower lip were very swollen, tailhead and rectal tissue and vaginal tissue were quite swollen and the trunk was moderately swollen. Her feet seemed to itch and she would rub the soles on the ground as if to scratch them. She was still eating and swallowing normally, and her breathing never seemed compromised. After the Benedryl she seemed drowsy, and one hour after the injection her eyes were open just a slit. She continued to slowly improve through the night and passed normal feces and urine. None of the swollen areas seemed abnormally warm. 12 hours after the problem was noticed her eyes were open about 2/3 normal. There was a large flat swelling on her left gluteal.	Gave 1.3 grams Diphenhydramine PO and 1.0 grams IV. 8 hours later gave 200 mg Dexamethasone IM.
05/06/00	Swelling has decreased considerably. She appeared very stiff when walking and laying down.	Gave 3 grams Banamine IM in 3 sites.
05/07/00	Still stiff when walking, especially on left front leg.	Gave 50cc Banamine IM.
05/08/00	Doing better this morning. Edema has subsided slightly. Walking on and moving front left leg better.	
09/18/00		Continuing to receive 30ml Arthryl IM monthly.
12/02/00	Had a few 2 cm ly0myomas in her uterus.	
01/03/01	Feces was normal today.	
02/16/01	ACCURATE WEIGHT: 9270#	
02/25/01	Trainers noticed several pinpoint lesions inside her mouth. This may be from eating sharp browse.	Monitor.



<u>Date</u>	<u>Observation Notes</u>	<u>Treatment Administered</u>
<b>ELEPHANT (common name)</b>		
<b>Taj</b>		
04/07/99	TOOK BLOOD for Tb ELISA study.	
04/12/99	FECAL salmonella culture to Idexx.	
04/13/99	FECAL #2 sent to Idexx for Salmonella culture.	
04/16/99	POS for Salmonella.	Ampicillin 24g BID x 5 days.
06/09/99		Start on 10 oz Biotin supplement PO SID.
06/11/99	UA to check glucose level. Glucose= 50.	
07/14/99	Has numerous raised welts in the skin of her ventral abdomen. Yesterday she was seen rubbing the skin against a rock. There were a few superficial excoriations.	Apply Cortisone cream to affect tissue once daily.
07/28/99	TOOK BLOOD for routine Chem panel (Idexx).	
09/12/99	ROUTINE FECAL: D+F= negative.	
09/15/99	ACCURATE WT: 10,060#.	
11/11/99	ROUTINE FECAL: D+F= Negative.	
11/18/99	Trainers noticed she was trembling, mainly around her belly area. TOOK BLOOD: chem/CBC to Idexx. All else seems WNL.	
11/19/99	Was back to normal today.	
02/28/00	TRUNK WASH #1 sent to Solano Co. Health Dept. for Tb testing.	Instill 60cc sterile saline into trunk via #18 French catheter, collect into clear plastic bag, then transfer to sterile container, X 3 days.
02/29/00	TRUNK WASH #2 sent to Solano Co. Health Dept. for Tb testing.	

NAME	TAJ1						
	DATE	4/5/06	4/26/06	6/7/06	6/7/06	7/5/06	7/5/06
	LAB USED	IDEXX	IDEXX	IN HOUSE	IDEXX	IN HOUSE	IDEXX
	LAB #	A3110552	A3418305	4178	A4135082	4355	A4515582
<b>CBC</b>	WBC	12.5	11.4	11.3	13.1	14.5	14.8
	RBC	278	3.13	3.1	2.77	2.84	2.91
	HGB	13.2	15.8	15.2	13.6	14.5	14.8
	HCT	37.8	43.3	42.4	37.1	38.7	40.7
	MCV	136	138	137	134	136	140
	MCH	47.4	50.4	49.2	49.1	51.2	51
	MCHC	34.8	36.5	35.9	36.7	37.6	36.4
<b>DIFF</b>	NEUT	41	35	31.2	25	27.7	25
	LYMPH	23	29	46.5	37	70.2	18
	MONO	36	36	20.6	36	0.346	51
	EOS			1.63	2	1.85	6
	BASO			0.068			
	BANDS						
	PLATES	ADQ	ADQ	346	ADQ	377	ADQ
	RBC MORPH						
	WBC MORPH						
<b>CHEM</b>	ALK PHOS	93	92		85		81
	AST	13	21		18		14
	CPK	201	481		181		123
	GGT	5	7		7		4
	ALBUMIN	2.8	3.1		2.7		3.2
	TOTAL PROTEIN	7.8	8.7		8		8.1
	GLOBULIN	5	5.6		5.3		4.9
	T.BILI/D. BILI	0.2/0.1	0.2/0.1		0.1/0.1		0.2/0.2
	BUN	10	9		9		9
	CREATININE	1.7	1.7		1.6		0.9
	CHOLESTEROL	41	48		49		32
	GLUCOSE	74	61		70		80
	CALCIUM	10.4	11		10.5		10.7
	PHOSPHOROUS	4.1	3.7		4.4		4.3
	BICARBONATE	19	18		21		24
	CHLORIDE	91	90		90		92
	POTASSIUM	4.6	4.5		4.8		4.5
	SODIUM	130	129		126		134
	A/G RATIO	0.6	0.6		0.5		0.7
	B/C RATIO	5.9	5.3		5.6		10
	I BILI	0.1	0.1		0		0
	NA/K RATIO	28	29		26		30
	ANION GAP	25	26		20		23
	FIBRINOGEN	300	400		400		200
	REASON	RTN	RTN	RTN	RTN	RTN	RTN
	SED RATE		48		54		51





NAME	TAJ1						
	DATE	3/2/2005	3/18/2005	4/6/2005	05/04/2005	6/1/2005	7/6/2005
	LAB USED	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX
	LAB #	B7669214	B7906810	B8234230	B8613401	B8980713	B9470877
<b>CBC</b>	WBC	14.8	14.7	13.1	13.6	10.5	11.5
	RBC	2.62	2.9	3.12	3.19	2.95	2.74
	HGB	12.4	13.8	15.2	16.4	14.3	13.8
	HCT	34.9	38.6	40.8	42.4	38.7	37.2
	MCV	133	133	131	133	131	136
	MCH	47.2	47.5	48.7	51.4	48.4	50.3
	MCHC	35.4	35.7	37.3	38.6	37	37
<b>DIFF</b>	NEUT	34	39	34	28	21	22
	LYMPH	10	23	20	39	25	31
	MONO	43	38	45	33	54	46
	EOS	1		1			1
	BASO						
	BANDS	1					
	PLATES	ADQ	ADQ	ADQ	ADQ	ADQ	529
	RBC MORPH						
	WBC MORPH						
<b>CHEM</b>	ALK PHOS		73	101	112		110
	SGOT		15	15	17		12
	CPK		116	104	298		160
	GGT		3	6	7		6
	ALBUMIN		3.2	3.2	3.2		3
	TOTAL PROTEIN		0.9	0.7	8.9		8
	GLOBULIN		5.7	5.5	5.7		5
	T.BILI/D. BILI		0.2/0.1	0.2/0.1	0.2/0.1		0.2/0.1
	BUN		9	13	9		9
	CREATININE		1.7	1.6	1.8		1.5
	CHOLESTEROL		49	48	49		40
	GLUCOSE		85	86	62		79
	CALCIUM		10.8	11.1	11.6		10.5
	PHOSPHOROUS		4.3	4.2	4.5		3.4
	BICARBONATE		25	22	20		24
	CHLORIDE		94	94	89		91
	POTASSIUM		4.9	4.5	5.3		3.9
	SODIUM		133	135	132		131
	A/G RATIO		0.6	0.6	0.6		0.6
	B/C RATIO		5.3	8.1	5		6
	I BILI		0.1	0.1	0.1		0.1
	NA/K RATIO		27	30	25		34
	ANION GAP		19	24	17		20
	FIBRINOGEN		500	400	400		400
	REASON		RTN	RTN	RTN	RTN	RTN

NAME	TAJ1	DOB	Jan-40				
	DATE	9/1/2004	10/6/2004	11/17/2004	12/1/2004	01/05/2005	2/2/2005
	LAB USED	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX
	LAB #	B5400687	B5771541	B6379631	B6637703	B6930481	B7302676
<b>CBC</b>	WBC	12.7	12	12.5	14.3	13.3	11
	RBC	2.89	3.07	2.86	2.83	3.12	2.86
	HGB	14.3	15.1	13.8	13.6	15.3	13.9
	HCT	40.6	43	39.7	37.7	41.7	38.1
	MCV	141	140	138	133	133	133
	MCH	49.5	49.1	48.2	48.1	49.1	48.5
	MCHC	35.2	35.1	34.8	36.1	36.8	36.4
<b>DIFF</b>	NEUT	24	24	29	31	22	35
	LYMPH	7	35	1	29	18	36
	MONO	66	39	23	39	60	25
	EOS	3	2	47	1		4
	BASO						
	BANDS						
	PLATES	ADQ	ADQ	ADQ	ADQ	ADQ	ADQ
	RBC MORPH						
	WBC MORPH						
<b>CHEM</b>	ALK PHOS			80			
	SGOT			16			
	CPK			151			
	GGT			5			
	ALBUMIN			3.1			
	TOTAL PROTEIN			8.6			
	GLOBULIN			5.5			
	T.BILI/D. BILI			0.1/0.1			
	BUN			13			
	CREATININE			1.5			
	CHOLESTEROL			47			
	GLUCOSE			62			
	CALCIUM			10.8			
	PHOSPHOROUS			4.1			
	BICARBONATE			21			
	CHLORIDE			93			
	POTASSIUM			5.1			
	SODIUM			132			
	A/G RATIO			0.6			
	B/C RATIO			0.7			
	I BILI			0			
	NA/K RATIO			26			
	ANION GAP			23			
	FIBRINOGEN						
	REASON	RTN	RTN	RTN		RTN	RTN

NAME	TAJ1						
	DATE	01/17/2003	1/9/2004	4/29/2004	6/4/2004	7/7/2004	8/4/2004
	LAB USED	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX	IDEXX
	LAB #	A7591720	B2113872	B3696545	B4198805	B4658361	B5034960
<b>CBC</b>	WBC	11.4	13.7	12.6	15.4	11.2	12.9
	RBC	2.86	2.9	2.6	3.78	2.77	2.91
	HGB	14.4	15.1	13.6	19.8	14	14.6
	HCT	38.7	41.4	36.1	52.7	39.1	40.9
	MCV	135	143	139	139	141	141
	MCH	50.4	52.1	52.1	52.5	50.7	50.1
	MCHC	37.3	36.5	37.6	37.7	35.8	35.6
<b>DIFF</b>	NEUT	30	31	48	57	34	31
	LYMPH	22	32	18	32	16	14
	MONO	39	36	33	11	49	52
	EOS	9	1	1		1	3
	BASO						
	BANDS						
	PLATES	ADQ	ADQ	ADQ	ADQ-clumped	ADQ	ADQ
	RBC MORPH						
	WBC MORPH						
<b>CHEM</b>	ALK PHOS	106	104	103	111		
	SGOT	11	12	14	17		
	CPK	160	115	224	322		
	GGT	7	5	5	3		
	ALBUMIN	2.9	2.9	2.5	2.8		
	TOTAL PROTEIN	8.2	8.3	7.9	7		
	GLOBULIN	5.3	5.4	5.4	4.2		
	T.BILI/D. BILI	0.2/0.1	0.2/0.1	0.2/0.1	0.1/0.1		
	BUN	10	11	10	13		
	CREATININE	1.7	15	1.5	1.8		
	CHOLESTEROL	41	41	39	32		
	GLUCOSE	76	92	92	104		
	CALCIUM	11	11.4	10.1	9.8		
	PHOSPHOROUS	5.4	4.5	3.8	3.5		
	BICARBONATE	24	28	20	18		
	CHLORIDE	91	90	98	97		
	POTASSIUM	5.2	4.6	5	4.9		
	SODIUM	130	136	136	136		
	A/G RATIO	0.5	0.5	0.5	0.7		
	B/C RATIO	5.9	7.3	6.7	7.2		
	I BILI	0.1	0.1	0.1	0		
	NA/K RATIO	25	30	27	28		
	ANION GAP	20	23	23	26		
	FIBRINOGEN	400	200	200	400		
	REASON	ROUTINE	RTN	RTN	Allergic react.		RTN

MARINE WORLD AFRICA USA  
HEMATOLOGY REPORT

NAME	TAJ							
	DATE	07/01/97	10/22/97	07/28/99	11/18/99	02-25-00	05-05-00	05-27-01
	LAB USED	CVD	IN HS	CVD	CVD	CVD	IN HS	CVD
	LAB #	B2016190		B9876621	B1162228	B2291220		B9398756
	LAB USED	IN HS	IN HS	CVD	CVD	CVD	IN HS	CVD
<b>CBC</b>	WBC	13.8	12		12.6	12.3	17.1	14
	RBC	2.65			3.56	3.06		2.63
	HGB	13.6			17.2	15		13.5
	HCT	39	38		47.6	41.2	50	35.5
	MCV	129			134	135		135
	MCH	51.3			48.5	49.1		51.3
	MCHC	39.7			36.3	36.4		38
<b>DIFF</b>	NEUT	34	41		38	28	40	28
	LYMPH	35	42		26	20	7	31
	MONO	30	16		35	48	53	41
	EOS	1	1		1	4		
	BASO							
	BANDS							
	PLATES	ADEQ	ADEQ		ADQ	ADQ		ADQ
	RBC MORPH	sl aniso sl poik						
	WBC MORPH							
<b>CHEM</b>	ALK PHOS	94		130	129	103	102	103
	SGPT	0		6				
	SGOT	17		21	17	14	14	18
	CPK	98		258	368	126	131	176
	GGT	7		1	5	5	8	2
	ALBUMIN	3.1		3.1	3.3	3.1	3	3
	TOTAL PROTEIN	8.5	7.5	8.7	9.4	8.6	8	7.9
	GLOBULIN	5.4		5.6	6.1	5.5	5	4.9
	T.BIL/D. BILI	0.2/0.1		0.2/0.1	0.3/0.1	0.2/0.1	0.2/0.1	0.1/0.1
	BUN	12		10	10	10	8	9
	CREATININE	1.4		1.4	1.7	1.7	1.8	1.1
	CHOLESTEROL	40		67	42	39	35	33
	GLUCOSE	81		73	71	75	81	58
	CALCIUM	10.7		9.7	10.4	10.9	11	10
	PHOSPHOROUS	5.3		3.7	3.7	4.9	5.1	4.6
	BICARBONATE	29		25	27	27	22	28
	CHLORIDE	88		87	87	91	94	90
	POTASSIUM	4.3		4.3	4.9	4.6	5.1	4.8
	SODIUM	130		125	130	132	131	131
	A/G RATIO	0.6		0.6	0.5	0.6	0.6	0.6
	B/C RATIO	8.6		7.1	5.9	5.9	4.4	8.2
	I BILI	0.1		0.1	0.2	0.1	0.1	0
	NA/K RATIO	30		29	27	29	26	27
	ANION GAP	17		17	21	19	20	18
	FIBRINOGEN					500		400
	REASON	LAMENESS	ROUTINE	ROUTINE	SHAKING	ROUTINE	ALLERGY	ROUTINE