

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 65

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus indicus*

Family: Elephantidae

Common name: Indian elephant

Order : Proboscidea

Current information

Sex: Female Sire ID: at Obtained From Wild
Birth type: Wild Born Dam ID: at Obtained From Wild
Birth Location: ASSAM Rearing: Unknown
Birthdate-Age: ~ 1950 - ~58Y Hybrid: Not a hybrid
Time since last Acq: 9Y,3M,8D 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>
18 May 1954	Purchase from SPRUCE PI / UNK	DICKERSON / 65	Loan Out to CHICAGOLP / 8475	8 Nov 1987
20 Apr 1991	Loan Returned to Us CHICAGOLP / 8475	DICKERSON / 65	Loan Out to LOWRY / 100349	20 Apr 1991
18 Aug 1993	Loan Returned to Us LOWRY / 100349	DICKERSON / 65	Loan Out to OKLAHOMA / 753105	1 Dec 1998
31 Mar 1999	Loan Returned to Us OKLAHOMA / 753105	DICKERSON / 65		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
18 May 1950	House Name	MINYAHK		
18 May 1950	Regional Studbook #	96	UNKNOWN STUDBOOK	96 "International Studbook Number" from ARKS 2 records

<u>Date</u>	<u>Type</u>	<u>Value</u>	<u>Units</u>	<u>Comments</u>
22 Feb 1982	live animal weight	6860.0	pound	[12:00:00 PM] 6,860 LB
20 May 1985	live animal weight	8875.0	pound	[12:00:00 PM] 8,875 LB

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
18 May 1950	Collection data	Known to have been captured in the Assam Valley of N.E. India.
18 May 1954	Note	Public house name at DPZ is "C.C."
18 May 1954	Price	3000
18 May 1954	Delivery	949
26 Aug 1985	Medical procedure	Vaccinated 3,000 units Tetanus antitoxin.
9 Sep 1985	Medical procedure	Vaccinated 3,000 units Tetanus antitoxin.
27 Oct 1987	Medical procedure	Vaccinated 2cc Tetanus toxoid.

<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
20 Apr 1991	REMOVED	[12:00:00 PM] Loan
20 Apr 1991	REMOVED	[12:00:00 PM] Loan
20 Apr 1991	REMOVED	[12:00:00 PM] Loan
1 Dec 1998	REMOVED	[12:00:00 PM] Loan

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
18 May 1954	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
18 May 1954	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
18 May 1954	Sire		WILD	
18 May 1954	Dam		WILD	

Elephant Behavior Profiles

A behavior profile is maintained for each elephant that contains a history, command list and temperament evaluation. It is important for each keeper to understand the individual behavior of each elephant. It is crucial for the keepers to maintain a high level of consistency in their handling of the elephants.

Minyahk

Public Name – Ole C.C.

Studbook # - 96

Date of Birth – 1949

Acquisition Date – 11 MAY 1954

Birthplace – Assam, India

Transaction History – Assam, Dusit Zoological Park, Dickerson Park Zoo, Lincoln Park Zoo, Lowry Park Zoo, Dickerson Park Zoo, Oklahoma City Zoo, Dickerson Park Zoo

Recurring medical problems – She has osteoarthritis in left hip. She tends to impact on sand.

Weight – 8900 lbs.

Socialization/behavior history – She is currently second in the social structure. She accepts new herd members well. She is fair when disciplining herd-mates. She is the most reliable elephant in the herd and is often used as the “auntie” for newborns. She does not like being housed with the bulls. She is slow in responding to commands, partially due to the arthrosis. She does not accept new keepers easily. She has a history of being aggressive with certain new keepers, but has not shown this behavior for several years.

Commands – trunk up, put it away, open wide, head high, head down, let me see your trunk, salute, bow, kneel, brace, split, foot pad, foot front, change, come here, move over, back up, move up, tail up, break, push, speak, pick It up, get your butt over, get your head over, steady, stretch, lay down (left only) come around, move around, come in line, ear, hand it here, pull (with rope or harness), break it, step up, strings, alright, come up and salute and step over. Keepers can ride on her neck.

Reproduction – Although she was never successfully bred, and is now post-reproductive, this animal has been invaluable to our breeding program due to her long tenure as herd matriarch and her experience with calves.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MINYAHK
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Sex: Female
Age: 58Y Est.
Acc. #: 65
Birth: 18.May.1950
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.....2007....

6.Mar.2007

1st of three TB trunk washes. (JB)

Rx: ADEQUAN 500 mg IM SID for 1 dose. (SB)

Weight: 4079 Kg (8993 Lb)

7.Mar.2007

2nd of Three TB trunk washes. (JB)

8.Mar.2007

3rd of three TB trunk washes. (JB)

14.Mar.2007

Barn observation: wnl (SB)

16.Mar.2007

TB trunk wash: negative for AF smears
S) Missouri State tuberculosis laboratory.
Specimen quality: adequate (SB)

18.Mar.2007

Soft stool remains
S) JG reports Minyahk still has softer stools than normal. BAR, no
clinical signs.
P) This has periodically occurred. Candida has been present in feces
at higher levels than none affected animals. Hay, stress are likely
factors. Animal is behaving normally. No intervention is necessary
as treatments may be more problematic than the softer stool. It is
not a enterotoxemia or Salmonella problem as cultures have been
repeatedly normal. Animal is doing well. (SB)

21.Mar.2007

Observation
S) Right tusk is very healthy. No sign of inflammed tissue during an
inspection. Minnie took her apples eagerly.
She opened her mouth for a molar inspection. (SB)

27.Mar.2007

Fecal results: E. coli wnl
O) USDA local office: E. coli on culture.
Gram stain did not find Clostridium spp. Salmonella spp. not
isolated.
A) Typical E. coli on culture, NSF. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MINYAHK

=====

Sex: Female
Age: 58Y Est.

Acc. #: 65
Birth: 18.May.1950

=====

10.Apr.2007

Rx: ADEQUAN 500 mg IM SID for 1 dose. (SB)

30.Apr.2007

TB culture trunk wash neg
S) Missouri State tuberculosis laboratory.
Specimen quality: adequate (SB)

13.May.2007

Blood pressure measurement with Dr. Suedmeyer
S) First round of elephant blood pressure measurements done in the cow stanchion. Minyahk had the most movement during the procedure. 5 readings were obtained although she swayed her tail and body quite a bit. (SB)

28.May.2007

Yard observation
S) Minyahk was using her trunk to test her teats while Nisha played at her feet. Moola was 25 feet towards the center of yard from Minyahk and Nisha (both at the fence). Minyahk appeared stiff to me by staying in one position, but Bethany reports she has been behaving normally in the barn. I may have observed a rare instance or behavior (listening) or mild colic.
P) Will need to observe her more often. May increase Cosequin dosage or frequency, but today's observation is likely non-clinical. (SB)

29.May.2007

Yard observation
S) More active today, Nisha again spent a lot of time playing adjacent to Minyahk. JB reported Minyahk has been acting more quiet than normal in the yard, but he feels she is fine. (SB)

27.Jun.2007

Problem: colic (Confirmed)

Colic
S) 9:00, JB reported significant colic. They observed her on her side with mouth open in a painful gasping behavior. I met JB, MC, and DL in the yard (we initiated free contact again for treatment purposes, notified curator). The left flank had been distended earlier, "rain on tin roof" burborigmy was heard, saw horse stance, very loose stool, etc. were all found this morning. She had eaten her pellets and hay normally last night.

On examination, MM were pink in the oral cavity. No petechiae or cyanosis. I listened for burborigmy myself with no noises heard. Stool was wet, but I found no blood or detected any smell of

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MINYAHK

Sex: Female
Age: 58Y Est.

Acc. #: 65
Birth: 18.May.1950

27.Jun.2007

Problem: colic (Confirmed)

Salmonella or other enterotoxemic signs. Feces were collected for culture. Mineral oil was offered but rejected. JB gave 25 cc of 50 mg/ml flunixin IV right femoral vein (ear vein not used to avoid perivascular sloughing). I wanted rapid administration for pain relief. I asked them to walk her as much as she would allow. CBC, chemistry submitted to St. Johns and Cox Walnut respectively (priority). USDA for fecal culture.

11:30, Minyahk was eating grass, showing no colic signs. She did not take mineral oil, but she had not had a colic episode since flunixin was given.

P) 4 PM oral flunixin and mineral oil. I had Moola and Nisha restricted from yard until wet feces were removed, top soil removed, and new earth added to cover contaminated areas. Although Clostridium and Salmonella are not likely, I felt it best to avoid exposure until disinfection could be conducted.

Rx: FLUNIXIN MEGLUMINE 1250 mg IV SID for 1 day.

4PM

P) JB administered 1500 mg flunixin paste I put into an apple. Minnie took it without issue. She also consumed slightly less than 1/2 gallon of mineral oil with gatorade as flavoring. She took another 1/2 gallon, but used it as a trunk spray display. She was eating her hay and grain normally at 4 PM. I would not be able to tell she was uncomfortable earlier given her normal clinical signs. (SB)

28.Jun.2007

Recheck: tired but wnl

S) JB reports Minyahk appears tired, but otherwise, she is eating and acting normally. No signs of colic. (SB)

1.Jul.2007

Observation during training

S) I observed LH's training routine in the stanchion. Minyank appeared comfortable and very responsive to commands. She took apples without issue. (SB)

2.Jul.2007

Fecal culture: normal E. coli

O) USDA fecal culture, Campylobacter and Salmonella not isolated. E. coli found which is wnl. Bob. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MINYAHK
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Sex: Female
Age: 58Y Est.

Acc. #: 65
Birth: 18.May.1950
=====

19.Jul.2007

Nisha jello cake enrichment
S) Moola, Nisha, and Patience enjoyed the spray wash for the public.
Connie participated a little. Minyank was not interested in the water
spray. One large, one small jello cake with vegetable were given as
part of Nisha' one year birthday party. (SB)

21.Aug.2007

Observation
S) WNL (SB)

22.Sep.2007

Foot trimming: Trimmed rear pads and nails while in Cow Barn ERD.
Standing using foot stool. Bradford, Hart and Thompson attending.
(JB)

27.Nov.2007

Rx: ADEQUAN 500 mg IM SID for 1 dose. (SB)

.....2008....

5.Mar.2008

First of three trunk washes collected for TB testing. (AM)

6.Mar.2008

Second of three trunk washes collected for TB testing. (AM)

7.Mar.2008

Third of three trunk washes collected for TB testing. (AM)

28.Mar.2008

TB test results = negative. (AM)

28.Mar.2008

Rx: WEST NILE VIRUS VACCINE 1 ml IM SID for 1 day. (1666148B)
Rx: TETANUS TOXOID 1 ml IM SID for 1 dose. (1630105C) (MS)

10.May.2008

Lesion center of pad approximately 2 cm circumference. Pad undermined.
Necrotic tissue excised, cleaned and topically treated with KOPPERTOX.
Start foot bath (10 minutes BID warm betadine solution) for 3 days
then switch to NOLVASAN and warm water solution for 7 days. Treat post
soak with FURACIN spray and KOPPERTOX. (JB)

15.May.2008

Started the NOLVASAN treatment. The lesion continues to improve.
(AM)

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 699

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus indicus*

Family: Elephantidae

Common name: Indian elephant

Order : Proboscidea

Current information

Sex:	Male	Sire ID:	PACKY at Oregon Zoo
Birth type:	Captive Born	Dam ID:	ME-TU at Oregon Zoo
Birth Location:	Oregon Zoo	Rearing:	Unknown
Birthdate-Age:	19 May 1978 - 30Y,1M,20D	Hybrid:	Not a hybrid
Time since last Acq:	28Y,4M,11D 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>
26 Feb 1980	Purchase from PORTLAND / 1627	DICKERSON / 699		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
19 May 1978	House Name	KHUN-CHORN		

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
8 Apr 1981	Price	\$12500

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
28 Feb 1980	Male	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
28 Feb 1980	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
28 Feb 1980	Sire	PACKY	PORTLAND	
28 Feb 1980	Dam	ME-TU	PORTLAND	
28 Feb 1980	Sire	PACKY	PORTLAND	
28 Feb 1980	Dam	ME-TU	PORTLAND	

Khun Chorn

Public Name – Mr. Ed.

Studbook # - 67

Date of Birth – 19 MAY 1978

Acquisition Date – 28 FEB 1980

Birthplace – Washington Park Zoo, Portland OR

Transaction History - Washington Park Zoo, Dickerson Park Zoo

Recurring medical problems – none

Weight – 12,000 lbs.

Socialization/behavior history – He has limited social interaction, unless in a breeding situation. He is dominant, but non-aggressive when in a breeding situation. He is mild mannered, unless he is in musth. During musth he is aggressive and often charges and throws objects at persons or vehicles. He can be destructive to the facilities.

Commands – trunk up, put it away, move up, back up, stretch, foot, bow, speak, come here, kneel and salute.

Reproduction – Breedings with this male have resulted in confirmed pregnancies on more than one occasion, but none of these pregnancies have gone to term. He has had semen collected via electro-ejaculation and is proven fertile.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: KHUN-CHORN

Sex: Male
Age: 30Y 1M 16D

Acc. #: 699
Birth: 19.May.1978

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.....2007....

2.Mar.2007

Rotated in ERD for blood draw and bath. Poured mineral oil on back to loosen dead skin and facilitate removal. (JB)

7.Mar.2007

1st of Three TB trunk washes. (JB)

8.Mar.2007

2nd of three TB trunk washes. (JB)

9.Mar.2007

3rd of three TB trunk washes. (JB)

16.Mar.2007

TB trunk wash: negative for AF smears
S) Missouri State tuberculosis laboratory.
Specimen quality: adequate (SB)

5.Apr.2007

Impromptu ultrasound session (transrectal) in attempt to visualize accessory sex glands. Khun Chorn strapped in ERD during PM routine, all feet excluding left front. Was not relaxed, will need to work on acclimating KC to rectal palpation before being able to effectively ultrasound. (JB)

30.Apr.2007

TB trunk wash Neg for culture
O) Missouri State Tuberculosis Lab negative
Sample quality: adequate (SB)

25.May.2007

Rotated in ERD for foot trimming. Rotated 10:27, upright 11:41, (one hour 14 minutes). Pads, nails, cuticle trimmed. Defect LF4 nail (nail undermined up to cuticle) will need followup in 1-2 weeks.
Melissa, Sheila and Bradford attending. (JB)

6.Jun.2007

TB culture negative
O) MO State TB lab, negative cutlure report from trunk wash. (SB)

9.Jun.2007

Rotated in ERD for follow up foot trimming. Cleaned up defect on RF4, corium exposed, removed all necrotic tissue. Nolvasan foot bath for right forefoot 10 minutes, BID for one week. Laid on side for 37 minutes. Rotated 9:20, upright 9:57.
M. Dickson, L. Hart and J. Bradford attending. (JB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: KHUN-CHORN

Sex: Male
Age: 30Y 1M 16D

Acc. #: 699
Birth: 19.May.1978

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22.Jun.2007

Foot update

S) JB has been using chlorhexidine gluconate footbaths and corrective trimming. The defect in the right front #4 digit is improving.

A) JB feels the lesion is correcting normally.

P) I suggested Magnesium sulfate salts as an addition to the chlorhexidine footbaths (1-2 cups per tub). I will evaluate when Khunchorn is in the ERD. (SB)

30.Jun.2007

Trimmed LF4 while Khun Chorn was standing in ERD. Used grinder and exacto knife. Defect is 90% healed. Will continue foot soaks at least two more days pending Dr. Boylan's evaluation. (JB)

1.Jul.2007

Rx: IBUPROFEN 32 gm PO BID

S) JB reported the minor nail issue is about resolved. Asked me to confirm to end foot soaking.

P) Right front limb showing some lameness (not associated with the nail which is the other limb). Ibuprofen put on keeper table for early morning administration to prevent any discomfort. (SB)

2.Jul.2007

Problem: localized swelling - right ulna (Suspected)

Mild swelling, right front medial aspect of ulna.

S/A) DL detected mild lameness and swelling at the medial cranial aspect of the right ulna, 1-2 feet dorsal of the carpal joint. On palpation in the ERD, the tissue feels slightly soft (swollen) compared to the left. No painful response or warmth was noted. Connie and Sabu have been together. DL noticed KC stand on the fences and create a 1 cm abrasion above KC's left eye that does not require medical treatment (should heal without issue). It is possible that the lameness is associated with a slip/trauma along the fencing.

P) 3 more days ibuprofen (given in whole pills) BID 6 mg/kg.

Rx: IBUPROFEN 32 gm PO BID for 3 days.

Left FF, digit#4

S) JB asked if I would examine the ventral aspect of this nail to evaluate it before ending treatment. The tissue is soft and pliable. I cannot certify that there are not any small draining tracts so I requested one more week of soaking with dilute chlorhexidine and epsom salts. Foot baths should be able to D/C after that. KC was excellent in the ERD for the foot exam with DL and LH attending. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS INDICUS

Sex: Male

Acc. #: 699

Indian elephant

Age: 30Y 1M 16D

Birth: 19.May.1978

Name: KHUN-CHORN

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4.Jul.2007

Problem: localized swelling - right ulna (Suspected)

Lameness 99% resolved

S) JB reports his weight bearing and movement have improved. No need to continue ibuprofen. (SB)

26.Oct.2007

Pus with blood (several mls) in it discovered on concrete substrate in yard and stall. Dr. Stafford examined it, stated it appeared to be epithelial tissue. Will perform trunk wash in attempt to discover currently unknown source. (JB)

.....2008...

3.Jan.2008

Rotated in ERD for 55 minutes, routine foot trimming. #4 RF nail cuticle abscessed, trimmed and treated. Continue daily foot baths until further notice. Khun Chorn in musth, drainage down to chin. Bradford and Dickson attending. (JB)

20.Jan.2008

Trimmed with grinder LF4 nail while standing in ERD. Nail is healing nicely, no further treatment necessary. Will monitor and perform followup trimming/remodeling of nail in two-three weeks. (JB)

7.Mar.2008

First of three trunk washes collected for TB testing. (AM)

8.Mar.2008

Second of three trunk washes collected for TB testing. (AM)

9.Mar.2008

Third of three trunk washes collected for TB testing. (AM)

28.Mar.2008

TB test results = negative. (AM)

28.Mar.2008

Rx: WEST NILE VIRUS VACCINE 1 ml IM SID for 1 day. (1666148B)
Rx: TETANUS TOXOID 1 ml IM SID for 1 dose. (1630105C) (MS)

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 3320

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus*

Family: Elephantidae

Order: Proboscidea

Common name: Asiatic elephant

Current information

Sex: Female
Birth type: Unknown
Birth Location:
Birthdate-Age: ~ 1974 - ~33Y
Time since last Acq: 17Y,0M,3D as of report end date

Sire ID:
Dam ID:
Rearing: Unknown
Hybrid: Not a hybrid

<u>Date in</u>	<u>Acquisition - Vendor/local Id</u>	<u>Holder</u>	<u>Disposition - Recipient/local Id</u>	<u>Date out</u>
30 Oct 1990	Loan In from CHICAGOBR / 22763	DICKERSON / 3320		
5 Jul 1991	Donation from CHICAGOBR / 22763	DICKERSON / 3320		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
3 Nov 1974	House Name	PATIENCE		
3 Nov 1974	Regional Studbook #	76	UNKNOWN STUDBOOK	76 "International Studbook Number" from ARKS 2 records

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
30 Oct 1990	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
30 Oct 1990	Unknown	

Patience

Public Name – Patience

Studbook # - 76

Date of birth – JUN 1974

Acquisition Date – 30 OCT 1990

Birthplace – Thailand

Transaction history – Thailand, Brookfield Zoo, Dickerson Park Zoo

Recurring medical problems – She has a permanent ¼" diameter fistula surrounded by scar tissue beneath her tail as a result of a surgical artificial insemination attempt. This fistula periodically causes her discomfort, and she will hold a bolus over it with her tail.

Weight – 8,500 lbs.

Socialization/behavior history – She is third in the social structure at this time. Socially she has always had a difficult time integrating with herd members. She attempts to dominate visiting elephants with varying success. She exhibits psychotic behavior with other elephant's newborn calves until approximately one year old. She will stalk, attempt to isolate and attack newborn calves that are not her own. She is fearful of Sabu, but appears to enjoy interacting with Khun-Chorn. Behaviorally she is very high-strung. She is very selective in forming relationships with new keepers. She is the most responsive to commands to established keepers under normal circumstances. Under unusual circumstances (i.e. calf introductions, new keeper introductions) she can become aggressive toward keepers.

Commands – trunk up, put it away, open wide, head high, head down, let me see your trunk, salute, bow, kneel, feet, sides, crouch, foot pad, foot front, change feet, come here, move over, back up, move up, tail up, break, push, speak, pick it up, get your butt over, get your head over, move your butt in, move your head in, steady, stretch, lay down, come around, move around, come in line, ears, shake, hand it here, break it, step up, alright, sit it up, stand it up, down on your head, trumpet and come up and salute. Keepers can ride on her neck.

Reproduction – She has produced one calf in 1998. This calf died in 2000 of EEHV at Six Flags Marine World.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: PATIENCE

Sex: Female
Age: 34Y Est.

Acc. #: 3320
Birth: 3.Nov.1974

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.....2007...

6.Mar.2007

1st of three TB trunk washes. (JB)

7.Mar.2007

2nd of Three TB trunk washes. (JB)

Weight: 3961 Kg (8732 Lb)

8.Mar.2007

3rd of three TB trunk washes. (JB)

13.Mar.2007

Weight gain

S) After requesting current weights of all elephants, Patience was found to be significantly elevated.

P) JG was aware of the problem and has already begun to rectify the weight gain. Her reduced exercise due to Nisha probably has a lot to do with the weight gain. (SB)

14.Mar.2007

Barn observation: wnl. (SB)

16.Mar.2007

TB trunk wash: negative for AF smears

S) Missouri State tuberculosis laboratory.

Specimen quality: adequate (SB)

21.Mar.2007

Molar lost

S) JG found a molar consisting of at least 7 teeth. (SB)

28.Mar.2007

Routine footwork: All pads, nails, cuticles trimmed using rotary grinders. Medial aspect of both front pads moderately worn. No defects. Procedure done in stall #1, Patience standing using tub and radiograph box. Took approximately one hour. Bradford trimmed front, D. Luedde rear feet. (JB)

30.Apr.2007

TB trunk wash Neg culture

O) Missouri State Tuberculosis Lab negative

Sample quality: adequate (SB)

13.May.2007

Blood pressure measurement with Dr. Suedmeyer

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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<i>ELEPHAS MAXIMUS</i> (no subsp)	Sex: Female	Acc. #: 3320
Asiatic elephant	Age: 34Y Est.	Birth: 3.Nov.1974
Name: PATIENCE		

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13.May.2007

S) First round of elephant blood pressure measurements done in the cow stanchion. She was the first cow to be examined. The first set of readings did not work. After Connie and Minyahk were done, she returned to the cow barn, and the Cardel was successful in getting measurements that agreed with Dr. Suedmeyer's other data. (SB)

28.May.2007

Animal in south yard
S) I observed Patience who was in the bull south yard while the corral was being cleaned. Right stifle remains puffy with on evidence of lameness. A) He right stifle is probably always slighter larger than the left. No clinical significance noted. (SB)

23.Jun.2007

Routine footwork, front nails and pads. Procedure performed in protected contact scenario, north stanchion of cow barn. J. Bradford and M. Dickson attending. (JB)

27.Jun.2007

Introduction to Patience
S) Patience went out with the other cows and Nisha today. Nisha was seen putting her trunk in Patience's mouth and other respectful, normal behaviors exhibited by calves to other females. Patience was tolerant, and JB reported no signs of aggressive behavior toward Nisha.
A) Good progress reintegrating the herd with safety for Nisha.
P) Will try another yard introduction tomorrow if possible. (SB)

28.Jun.2007

Second Nisha introduction.
S) JB reports no issues between Nisha and Patience today. (SB)

30.Jun.2007

June 28th and today Patience and Nisha were placed together in the exhibit yard while being monitored by elephant staff. No problems were noted. Nisha seems intrigued by Patience, very attentive and playful. Patience is tolerant and receptive. Today Nisha vocalized and Patience ran over to her with a maternal and protective demeanor. Patience seems relaxed and at peace with the other herd members. (JB)

19.Jul.2007

Nisha jello cake enrichment
S) Moola, Nisha, and Patience enjoyed the spray wash for the public. Connie participated a little. Minyank was not interested in the water spray. One large, one small jello cake with vegetable were given as part of Nisha's one year birthday party. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: PATIENCE

Sex: Female
Age: 34Y Est.

Acc. #: 3320
Birth: 3.Nov.1974

=====

25.Oct.2007

Foot trimming, both forefeet pads, nails and cuticles. No defects.
Procedure performed in S. stanchion in cow barn. Bradford and Dickson
attending. (JB)

.....2008....

20.Jan.2008

Third day of Patience being with 699 for potential breeding. Evidently
missed an LH surge. Patience with Khun Chorn during the day, separated
at night. First day together KC placed his trunk on Patience's back in
courtship behavior. No confirmed mounting or other indications of
breeding. (JB)

5.Mar.2008

First of three trunk washes collected for TB testing. (AM)

6.Mar.2008

Second of three trunk washes collected today for TB testing. (AM)

7.Mar.2008

Third of three trunk washes collected today for TB testing. (AM)

28.Mar.2008

TB test results = negative (AM)

28.Mar.2008

Rx: WEST NILE VIRUS VACCINE 1 ml IM SID for 1 day. (1666148B)
Rx: TETANUS TOXOID 1 ml IM (1630105C) (MS)

20.Jun.2008

Pedicure all pads and nails, no defects. M. Dickson, J. Thompson
attending. (JB)

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 4022

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus indicus*

Family: Elephantidae

Common name: Indian elephant

Order : Proboscidea

Current information

Sex: Female Sire ID:
Birth type: Captive Born Dam ID:
Birth Location: BURMA, MAYMY (unknown location) Rearing: Unknown
Birthdate-Age: 8 Aug 1981 - 26Y,10M,30D Hybrid: Not a hybrid
Time since last Acq: 12Y,4M,2D 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>
20 Feb 1994	Loan In from MILWAUKEE / 2946	DICKERSON / 4022		
6 Mar 1996	Donation from MILWAUKEE / 2946	DICKERSON / 4022		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
8 Aug 1981	House Name	MOOLA		
20 Feb 1994	Regional Studbook #	42	UNKNOWN STUDBOOK	42 "International Studbook Number" from ARKS 2 records

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
20 Feb 1994	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
20 Feb 1994	Unknown	

Moola

Public Name – Moola

Studbook # - 42

Date of birth – 8 AUG 1981

Acquisition date – 20 FEB 1994

Birthplace – Burma

Transaction history – Burma, Milwaukee Zoo, Dickerson Park Zoo

Recurring medical problems – none

Weight – 8,500 lbs.

Socialization/behavior history – She is a ladder-climber within the herd, although she is subordinate with the other elephants in the herd at this time. She is fair in disciplining calves. She constantly challenges the authority of the keepers. Keepers must be consistent and firm with this elephant to maintain her behavior.

Commands – trunk up, put it away, open wide, head high, head down, let me see your trunk, salute, bow, brace, present, switch, foot pad, foot front, come here, move over, back up, move up, tail up, break, push, pick it up, get your butt over, get your head over, steady, stretch, lay down, come around, move around, come in line, ear, hand it here, sit, step up, alright and come up and salute.

Reproduction – She has produced three calves. The first calf was born here in 1996, and currently resides at the Oklahoma City Zoo. Her second calf was born here in 1999, and has the distinction of being the first elephant in the world produced by artificial insemination. Unfortunately, he died of EEHV in 2002. Her third calf was born here in 2006 and died in 2007 of EEHV.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MOOLA

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981

=====

.....2007....

6.Mar.2007

1st of three TB trunk washes. (JB)

7.Mar.2007

2nd of Three TB trunk washes. (JB)

8.Mar.2007

3rd of three TB trunk washes. (JB)

14.Mar.2007

Barn observation:wnl. (SB)

16.Mar.2007

TB trunk wash: negative for AF smears
S) Missouri State tuberculosis laboratory.
Specimen quality: adequate (SB)

21.Mar.2007

Observation: wnl. (SB)

30.Apr.2007

TB trunk wash Neg culture
O) Missouri State Tuberculosis Lab negative
Sample quality: adequate (SB)

23.May.2007

Repeat acid fast culture from 5/21/07 (SB)

25.May.2007

Start daily blood collection for 7 days, trying to catch 1st LH surge
21 days before estrus. (JB)

28.May.2007

Yard observation: wnl (SB)

19.Jul.2007

Nisha jello cake enrichment
S) Moola, Nisha, and Patience enjoyed the spray wash for the public.
Connie participated a little. Minyank was not interested in the water
spray. One large, one small jello cake with vegetable were given as
part of Nisha' one year birthday party. (SB)

29.Aug.2007

LH assay negative. (JB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MOOLA

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981

=====

30.Aug.2007

LH assay positive, peak anovulatory LH surge. (JB)

31.Aug.2007

LH assay positive, diminished from yesterday's peak.
Urogenital palpation in preparation for impending AI. 2' sterile speculum inserted entire length of speculum for five minutes. Aseptic technique used. (JB)

1.Sep.2007

LH assay negative.
Moola and Nisha separated 20 minutes. Moola palpated for five minutes using sterile speculum inserted into urogenital canal. (JB)

17.Sep.2007

AI #1

S) JB collected semen starting at 8:20 AM.
Concentration was adequate (no hemocytometer kit to quantify).
Motility of fraction #3 was 30-35% of total intact sperm on nondiluted sample by subjective evaluation. Morphology stain did not result in any loss of motility. When the sample was diluted, motility of actual intact sperm neared 50% by cell count. Free heads outnumbered intact sperm (live or dead intact sperm) by 5-10 times. Sperm fraction #3 appeared to have normal morphology, and strong forward motion. There were numerous clumps of forward moving sperm. To stain with morphology stain, apply pinpoint amount of stain, add two drops semen (diluted). Sperm stored in water bath with nonreliable thermometer.
Temperature?

Color white, thin water-like viscosity, milk like appearance as a drop on a slide, no urine present during that collection, pH 7.0 by urine dipstick test after extension.
Count of one field at 100 X: representative sample 50:50 dilution with sterile equine extender.
109 free-heads, fractured tails too hard to count.
18 viable, forward moving sperm
5 dead intact sperm.

Second sample 50:50 dilution with extender at 100 magnification:
Dead intact sperm 40
Live, forward moving sperm 31
> 200 free heads present on field

Fraction #5
Diluted sample 50:50 at 100X

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS INDICUS

Sex: Female

Acc. #: 4022

Indian elephant

Age: 26Y 10M 26D

Birth: 8.Aug.1981

Name: MOOLA

=====

17.Sep.2007

- 5 live, forward moving sperm
- 47 dead intact sperm
- 90% of sample was fractured/free heads

AI:

Endotrach catheter was difficult to pass over pelvic rim. During practice, this was not a problem for MC. She suspects she will have more success without assistance for tomorrow's insertion. Balloon did not appear to inflate. Fibroscope passed up to a wall of tissue. Although the field of view was obscured by permanent debris/broken fibers: pink tissue was visualized before sperm implantation.

1. Scope was flushed with 80 cc sterile water before procedure (sterilized in chlorhex gluconate). Flushed again with 60 cc sterile diluent. Sperm motility was checked at 10:15 on a freshly extended sample, and it appears to remain around 25-30% motility on gross examination (2 hours old).

2. 10:30 20 cc of sample #3 was diluted with 60 cc of sterile equine diluent.

The 80 cc was passed into the injection port, I could visualize fluid in the scope. Back-flow of sample reached about 80%.

3. Flushed with a 2 parts sample #5: 1 part diluent. 120 cc of the 2:1 sperm fraction #5 flushed via 2 60 cc catheters. Sample regurgitation ~20%.

4. Ended insemination at 10:42. Catheter trach tube not removed until 10:55 to facilitate sperm occupany of the anterior vagina. Moola urinated at 11:00. Elephant staff were very well prepared. (SB)

18.Sep.2007

AI #2

Start collection 8:30 (had several unproductive contractions in the beginning) Water bath at 98 until I cooled it to 95 F.

Raw semen analysis

SOP:

- 0 no movement
- 1 no foward movement
- 2 slow forward progression
- 3 moderate forward progression
- 4 fast forward progression
- 5 fastest, linear foward progression

#	time	volume estimate	%motile	SOP	pH	Comments
1	8:33	1cc	50%	4	8.0	
2						struvite, urine
3						struvite, urine

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MOOLA

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981

18.Sep.2007

4	8:41					100%	struvite
5	8:47	3cc	10%	3			not used
6	8:49	2cc	60%	4			some struvite
7	8:53	15-20	5%	2			
8	8:56	15-20	45%	4	6.5		rare
struvite, rare clumps							
9	9:00	8cc	35%	3-4			lots clumps
10	9:02	25-30	0%	0			struvite
11							too clear
16	9:07	10-15	25%	3			lots struvite
17	9:11	10cc	30%	2	8.0		mod. stuvite,
50% clumps							

AI prep

Time	#	Motility	Quality
10:08	1	50%	Good raw
10:09	8	~5%	Poor raw
10:11	8	<5%	extended 1:1 with equine distender
10:13	6	30%	lots of clumps raw
10:15	17	30-40%	lots of clumps raw

1. Primary inseminate: Created 11 cc #17, 0.5 cc #1, and 2 cc # 6 with 30 cc equine extender all at the water bath temperature ~92 F for a 2 semen: 1 extender mix. SOP of 4, 25-30% motility evaluated of mixed, extended sample.

2. Flush 27 cc of #8 (nearly no motility at 10:09 despite best sample at collection (pH 6.5 instead of 8 for raw) mixed with 150 cc extender. 40 cc of this used after primary inseminate.

Started AI 10:25-10:27, MC was able to get the catheter over the pelvic rim.

1. Visualization of the tissue (pink) was similar to yesterday's AI where the catheter was not able to reach over the pelvic rim. 43.5 cc of extended good semen implanted.

2. Flushed with the non-motile #8 extended sample using 38 cc.

3. Captured in a bucket 60 cc backwash, pH 7.0 3 SOP for those motile sperm: straight, moderate forward progression, <5% motile sperm. 74% of sample was lost. Waited 10 minutes (standing) before deflating ballon and removing endotrach catheter.

Used some of the remaining #17 2.2 cc. New extender made fresh, sperm allowed to cool to room temp. Extender and sperm mixed equal volume for total volume 4.4 cc. 0.2 cc DMSO added to 5 cc sterile egg yolk extender with gentamicin for 4% DMSO concentrated extender. 4.4 cc of

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MOOLA

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981

18.Sep.2007

4% DMSO extender with gentamicin added to 2.2 extended semen for a total of 2% extended DMSO solution.

1. 11:15 36 motile sperm per 100X field with 1:1 equine extender.
2. 11:20 16 avg motile sperm/ 100X field at a 1:1 dilution of extended sample with 4% DMSO with AB creating a 1:2 extended sample 2% DMSO. Twelve field read at room temperature for 16/100X. (SB)

19.Sep.2007

Blood drawn for ovulatory LH surge at 7:50 am (neg).
Blood drawn for ovulatory LH surge at 3:30 pm (strong positive).
(AM)

19.Sep.2007

AI #3

Sabu collection Data: Best motility to date, broken head 10+: 1 intact sperm. Raw sperm data:

Fraction	Time	Volume	%motility	SOP	pH	comments
#1	0845	< 1 cc				too little to bother
#2	8:43	15cc	70%	4	7.0	mod. clumps
#3	8:49	15-20	<5%	3	7.7	yellow colored
#4	8:52	30-40cc	50%	4	7.5	hvy struv, hvy
clumps						
#5	9:01	20-30cc	40%	4	7.5	mod clumps,
mod struv						
#6	9:02	20-30	50%	4	7.6	hvy stru, hvy
clumps						
#7	9:04	30 cc	<5%	2	8.0	urine, mod
struv, mod clump						
#8	9:07	3 cc	65%	4	8.0	hvy clumps, hvy
struv						
#9	9:11	3 cc	35%	4	8.0	mod clumps, low
struv						
#10	9:13	8-10	20%	3	8.3	mod clumps, hvy
struv						
#11	9:19	7 cc	10%	3	8.3	mod clumps, hvy
struv						
#12	9:22	5 cc	<5%	3	8.3	hvy struv, low
clumps						
10:00 analysis						
Fraction #2			60%	4	7.0	mod-hvy clump,
no struv						
Fraction #4		20cc	0%	0	7.7	hvy struv

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981
=====

19.Sep.2007

tested #4 after pussing in green top unwashed with extender.
Fraction #8 raw 5cc 50% 3-4 7.7 struv
mod, hvy clump
before put in green top

Fraction #8 5cc 50% 3-4 7.7
in green top washed with extender

Fraction #8 10 cc 20% 4 7.0
5 cc semen, 5 cc equine extender same temp

- 1. Flushed catheter with 5 cc extender
2. 3 cc raw fraction #2
3. 10 cc extender flush
4. 14 cc of extended #8 1:1
5. flush with 10 cc extender

Total volume 42 cc
Lost 18 cc, lost 43%: <1% motility, minor movement, no foward
progression
Kept catheter in for 10 minutes post insemination. Endoscope removed
after 2 minutes of insemination.

JB, MC, DL, LH, AM, and myself in procedure (low staff #). TC
occupying Nisha.
MC was able to get catheter up to pelvic rim. Visualization in
endoscope still unrewarding due to poor scope.
JB and AM report LH hormone level a 5/5 in the afternoon blood draw.
(SB)

20.Sep.2007

AI #4
S) JB and AM conducted this AI (I was out of town).
AM reports LH hormone level 3/5 (SB)

1.Dec.2007

Calf - Nisha (6002) died in the early moring hours. See file on 6002
for details. (AM)

3.Dec.2007

Foreign body found:
What appeared to be a vaginal mucous plug was found on the stall floor
this AM. (AM)

5.Dec.2007

Anovulatory LH surge. (JB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS INDICUS
Indian elephant
Name: MOOLA

Sex: Female Acc. #: 4022
Age: 26Y 10M 26D Birth: 8.Aug.1981

=====

11.Dec.2007

Started daily blood collection to detect anovulatory LH surge.
(JB)

19.Dec.2007

Rear pads and nails trimmed. Moola standing in Stall #1, rear feet on waterer. Bradford and Dickson attending. (JB)

25.Dec.2007

LH assay strong positive indicating ovulatory LH surge. (JB)

.....2008....

13.Jan.2008

Rx: FLUNIXIN MEGLUMINE 1250 mg IM SID for 1 day. (MS)

1.Feb.2008

Endoscopy training/conditioning procedure of Moola's reproductive tract preparatory to AI in April. Unable to visualize beyond cranial portion of vestibule. Moola did very well. (JB)

14.Feb.2008

Endoscopy training/conditioning procedure of Moola's reproductive tract preparatory to AI in April. Visualized vagina, procedure took 45 minutes. Moola continues to do well, showing no signs of discomfort.
(AM)

20.Feb.2008

Endoscopy training/conditioning procedure. (AM)

28.Feb.2008

Endoscopy of reproductive tract, visualized interior of cervix first time. (JB)

5.Mar.2008

First of three trunk washes collected for TB testing. (AM)

5.Mar.2008

Endoscopy procedure performed in cow bldg ERD. (JB)

6.Mar.2008

Second of three trunk washes collected for TB testing. (AM)

7.Mar.2008

Third of three trunk washes collected for TB testing. (AM)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS INDICUS

Sex: Female

Acc. #: 4022

Indian elephant

Age: 26Y 10M 26D

Birth: 8.Aug.1981

Name: MOOLA

=====

9.Mar.2008

Strong LH surge, anovulatory LH surge. (JB)

10.Mar.2008

LH assay indicate mild LH surge. (JB)

15.Mar.2008

Endoscopy of reproductive tract. (JB)

19.Mar.2008

Endoscopy of reproductive tract. (JB)

21.Mar.2008

Endoscopy of reproductive tract. (JB)

28.Mar.2008

TB test results = negative. (AM)

28.Mar.2008

Rx: WEST NILE VIRUS VACCINE 1 ml IM SID for 1 day. (1666148B)

Rx: TETANUS TOXOID 1 ml IM SID for 1 dose. (1630105C) (MS)

29.Mar.2008

Ovulatory LH surge today, very strong. (JB)

31.Mar.2008

Endoscopy of reproductive tract, visualized vagina, cervix and uterus.
160 cm into reproductive tract. (JB)

2.Apr.2008

Endoscopy of reproductive tract, visualized vagina. (JB)

17.Apr.2008

Endoscopy of reproductive tract. (JB)

6.May.2008

Endoscopy of reproductive tract. (JB)

15.May.2008

Episode of presumed colic. Refused ration this AM, threw bucket due to obvious discomfort, spasms observed on flanks. Resolved without treatment by 10 AM. Normal temperment and appetite. Dr. Stafford notified of situation. (JB)

16.May.2008

No evidence of colic today. She acting normal. (AM)

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 5500

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus hirsutus*

Family: Elephantidae

Common name: Malayan elephant

Order : Proboscidea

Current information

Sex: Male Sire ID: UNK at Unknown Location
Birth type: Wild Born Dam ID: UNK at Unknown Location
Birth Location: PERAK Rearing: Unknown
Birthdate-Age: ~ 1988 - ~19Y at transfer Hybrid: Not a hybrid
Time since last Acq: 5Y,1M,27D as of transfer to CINCINNAT

<u>Date in</u>	<u>Acquisition - Vendor/local Id</u>	<u>Holder</u>	<u>Disposition - Recipient/local Id</u>	<u>Date out</u>
10 Sep 2002	Loan In from CINCINNAT / 191018	DICKERSON / 5500	Loan Return to Owner CINCINNAT / 191018	7 Nov 2007

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
10 Sep 2002	House Name	Sabu		
10 Sep 2002	Regional Studbook #	297	AZA	

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
25 Sep 2002	Male	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
25 Sep 2002	Unknown	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
25 Sep 2002	Sire	UNK	UNKNOWN	
25 Sep 2002	Dam	UNK	UNKNOWN	

Sabu

Public Name – Sabu

Studbook # - 297

Date of Birth – 1988

Acquisition Date – 10 SEP 2002

Birthplace – Perak, Malaysia

Transaction history – Malaysia, Cincinnati Zoo, Louisville Zoo, Dickerson Park Zoo

Recurring medical problems – none

Weight – 9,500 lbs.

Socialization/behavior history – He has limited social interaction, unless he has access to a cow in a breeding situation. He has been overly aggressive with Patience in a breeding situation, but this has not been as much of a problem with other cows. He is usually mild mannered, unless he is in musth. During musth he is aggressive and often charges and throws objects at persons or vehicles.

Commands – trunk, salute, bow, stretch out, foot, back foot, move up, back up, come here, steady, alright, are you a good boy? (he nods).

Reproduction – He has sired two calves. The first was born at the Cincinnati Zoo in 1998, but died in 2005 of EEHV. The second calf was born here in 2006 but died of EEHV in 2007

Additional Comments – Sabu was returned to owner, Cincinnati Zoo, in 2007.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS HIRSUTUS

Sex: Male

Acc. #: 5500

Malayan elephant

Age: 20Y Est.

Birth: 1.Jul.1988

Name: Sabu

=====

.....2007...

6.Mar.2007

1st of three TB trunk washes. (JB)

7.Mar.2007

2nd of Three TB trunk washes. (JB)

8.Mar.2007

3rd of three TB trunk washes. (JB)

16.Mar.2007

TB trunk wash: negative for AF smears
S) Missouri State tuberculosis laboratory.
Specimen quality: adequate (SB)

30.Apr.2007

TB trunk wash Neg for culture
O) Missouri State Tuberculosis Lab negative
Sample quality: adequate (SB)

13.May.2007

Blood pressure measurements with Dr. Suedmeyer
S) Sabu was the best behaved of the elephants for the first round of the study. He tolerated the procedure in the ERD without incident. He was strapped on the front and rear right feet. We gained access to the tail via the side door. (SB)

26.May.2007

Routine foot trimming all pads, nails, and cuticles in ERD. Rotated 8:25 am, upright 9:50 am (laid on side one hour and 25 minutes). No defects, Sabu was fidgety and resisted some during strapping, once rotated was calm. Blood collected from ear vein.
M. Dickson, D. Luedde, and L. Hart attending. (JB)

30.Jun.2007

Yesterday Connie was placed in with Sabu for breeding, impending estrus projected for this week. Today Sabu mounted Connie, no penetration as Connie would not stand. Sabu resisted separation from Connie this PM. Blood collected from Connie for LH and P4 analysis.
(JB)

1.Jul.2007

Minor tusk issue
S) JB reported that during my weekend, Sabu got a tusk stuck in an enrichment ball. No signs of trauma, JB feels he is acting normally.
P) Will investigate when he goes into the crush. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS HIRSUTUS

Malayan elephant

Name: Sabu

Sex: Male

Age: 20Y Est.

Acc. #: 5500

Birth: 1.Jul.1988

=====

12.Jul.2007

Confirmed breeding, Sabu and Connie. Videotaped. (JB)

1.Aug.2007

Semen collection

S) JB cleaned the rectum, massaged for collection. The ampullae pre-ejaculated appeared as one single cavity. The seminal vesicles are large and wnl. JB was able to get ~4 contractions and collections. Post ejaculation, the medial wall of the ampulae was present on US. After 4 collections, one ampullae was empty, while the other was still 70% full.

Cytology

S) Sedi-stain, no stain, cooked Diff-Quick, and air dried Diff quick were all tried. Allowing the slides to air dry worked well for Diff-Quick more than heat fixation. The semen was severely urine contaminated. Heads and tails were separated in ~30% of the sample. Tail spirals were present in 10-15% of the intact sperm. Numerous Ca like crystal were present in the urine as were the occasional WBC. (SB)

11.Aug.2007

Sabu semen collection:

10 ejaculates, most were urine contaminated. 90 mls total. Ampullae 40-50% emptied. (JB)

30.Aug.2007

Semen collection. Several of latter fractions 5% motility. 10% detached heads. All contaminated with urine. (JB)

31.Aug.2007

Semen collection. 11 fractions. Latter fractions 5% motility, all urine contaminated. Sabu tolerated the procedure well. (JB)

3.Sep.2007

Blooddraw request

S) Requested blood on Sabu due to possible breeding trauma to Connie that may result in a mild abscess. His sperm last collection was abnormal according to MC. I did not see the sample. (SB)

18.Sep.2007

Collection for Moola AI, culture semen

S) See Moola's record for sperm analysis. Improved motility compared to all previous collections.

P) 9/17 and 9/18 swab samples, I took to USDA for culture and sensitivity (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS HIRSUTUS
Malayan elephant
Name: Sabu

Sex: Male
Age: 20Y Est.

Acc. #: 5500
Birth: 1.Jul.1988

19.Sep.2007

Collection for AI: raw semen data

Sabu collection Data: Best motility to date, broken head 10+: 1 intact sperm. I suggested to JB to clean him out, we are seeing much improved motility likely due to new spermatozoa production. Only one ampullae emptying. Free heads far outnumber intact sperm by 10+:1.

Raw sperm data:

Fraction	Time	Volume	%motility	SOP	pH	comments
#1	0845	< 1 cc				too little to bother
#2	8:43	15cc	70%	4	7.0	mod. clumps
#3	8:49	15-20	<5%	3	7.7	yellow colored
#4	8:52	30-40cc	50%	4	7.5	hvy struv, hvy clumps
#5	9:01	20-30cc	40%	4	7.5	mod clumps, mod struv
#6	9:02	20-30	50%	4	7.6	hvy stru, hvy clumps
#7	9:04	30 cc	<5%	2	8.0	urine, mod
#8	9:07	3 cc	65%	4	8.0	hvy clumps, hvy struv
#9	9:11	3 cc	35%	4	8.0	mod clumps, low struv
#10	9:13	8-10	20%	3	8.3	mod clumps, hvy struv
#11	9:19	7 cc	10%	3	8.3	mod clumps, hvy struv
#12	9:22	5 cc	<5%	3	8.3	hvy struv, low clumps

Fraction #7 and # 10 listed as urine contaminated by AM during collection. This accurately corresponds with my blinded semen analysis. (SB)

20.Sep.2007

Collection for AI: raw semen data

Sabu collection data: Motility and quality of semen continue to improve. Top motility approximately 70%. Continue to see high percentage of tailless heads. Three best fractions extended 1:1 with NEXT GENERATION UNIVERSAL SEMEN EXTENDER. Extended semen had immediate dieoff down to 5%-10% motility. Decision made to iseminate anyway. Modified insemination catheter diminished backwash (deposited cranial portion of vestibule) so good retention was acheived despite inability to penetrate vaginal os due to poor visualization of endoscope.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS HIRSUTUS
Malayan elephant
Name: Sabu

Sex: Male
Age: 20Y Est.

Acc. #: 5500
Birth: 1.Jul.1988

20.Sep.2007

OvLH surge less than 24 hours ago so timing was good. Semen quality was poor. Semen placement was poor but as good as possible due to limitations of endoscope.
Moola tolerated the procedure very well.

Start Time: 8:25 AM

Stop Time: 8:50

AM

Fraction	Time	Comments
#1	8:37	
#2	8:39	
#3	8:40	
#4	8:40	
#5	8:42	
#6	8:46	
#7	8:47	
#8	8:47	
#9	8:48	

LAB EVALUATION - Raw sperm data: *Volume is estimated

Fraction	Time	Volume	%Motility	SOP	pH	Comments
#1	8:44	0.5mL	70	5	7.0	
#2	8:48	3mL		5	7.0	
#3	8:51	5mL	>1	1	8.0	
#4	8:57	8-10mL	>1	0	8.0	
#5	8:59	3mL	>1	0	8.0	
#6	9:01	15mL	0	0	8.0	
#7	9:04	25mL	30	4	7.5	
#8	9:09	5mL	40	4	6.5	
#9	9:15	15mL	>5	1	8.5	Urine in sample

Samples 1 & 2 combined and extended 1:1 at 8:50.
Sample 8 extended 1:1 at 9:01.

Extended Samples retested:

Fraction	Time	Volume	pH	Comments
#1&2	9:38	12-13mL	6.5	Water bath at 92 degrees
#8	9:40	12mL	6.5	Water bath at 92 degrees

Ultrasound pictures taken:

After Fration#	# of Pictures
0	3
5	1
9	1 (AM)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

ELEPHAS MAXIMUS HIRSUTUS
Malayan elephant
Name: Sabu

Sex: Male
Age: 20Y Est.
Acc. #: 5500
Birth: 1.Jul.1988

21.Sep.2007

Collection for AI: raw semen data

Sabu collection data:

Start Time: 9:57 AM Stop Time: 10:10 AM

Contractions	Fraction	Time	Comments
2	#1	10:01	
3	#2	10:06	urine after 2nd contraction,
allowed full retraction of penis			
2	#3	10:07	
2	#4	10:09	

LAB EVALUATION - Raw Sperm data: *Volume is estimated

Fraction	Time	Volume	%Motility	SOP	pH	Comments
#1	10:07	70mL	>1	2	7.5	
#2	10:11	20mL	30	2	8.0	
#3	10:19	8mL	95	5	7.5	
#4	10:21		30		8.0 (AM)	

21.Sep.2007

Culture results from semen: Staph aureus and Strep spp.

O) USDA lab

Semen swabs from 9/17 and 9/18 both yielded Staph aureus and Strep spp. sensitive to clinda, eryth, penicillin, tetra, genta, ceftiofur, chloram, amox/clavulanic, and enrofloxacin. (SB)

15.Oct.2007

Problem: Preshipment ; TRUNK WASH - TUBERCULIN TESTING & FECAL CULTURE

Missouri State Tuberculosis Laboratory

Mt Vernon, MO 65712

Culture No: 4044

Sample 10-15-07

Date Reported: 10/18/2007

Specimen examined: Trunk Wash

AFB Smear= NEGATIVE

P) Fecal culture results: NEGATIVE for Salmonella, Shigella, and Campylobacter sp.

Grew only E. coli

MO. Dept. of Ag. Vet Diag Lab Acces.# VELE142

Report Date 10-18-07 (JB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS HIRSUTUS

Malayan elephant

Name: Sabu

Sex: Male

Age: 20Y Est.

Acc. #: 5500

Birth: 1.Jul.1988

=====

16.Oct.2007

Problem: Preshipment ; TRUNK WASH - TUBERCULIN TESTING

Missouri State Tuberculosis Laboratory

Mt Vernon, MO 65712

Culture No: 4045

Sample 10-16-07

Date Reported: 10/18/2007

Specimen examined: Trunk Wash

AFB Smear= NEGATIVE (JB)

17.Oct.2007

Problem: Preshipment ; TRUNK WASH - TUBERCULIN TESTING

Missouri State Tuberculosis Laboratory

Mt Vernon, MO 65712

Culture No: 4046

Sample 10-17-07

Date Reported: 10/18/2007

Specimen examined: Trunk Wash

AFB Smear= NEGATIVE (JB)

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 6002

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus*

Family: Elephantidae

Common name: Asiatic elephant

Order : Proboscidea

Current information

Sex:	Female	Sire ID:	5500 at Dickerson Park Zoo
Birth type:	Captive Born	Dam ID:	4022 at Dickerson Park Zoo
Birth Location:	Dickerson Park Zoo	Rearing:	Parent
Birthdate-Age:	18 Jul 2006 - 1Y,4M,14D at death	Hybrid:	Not a hybrid
Time since last Acq:	1Y,4M,14D as of death		

<u>Date in</u>	<u>Acquisition - Vendor/local Id</u>	<u>Holder</u>	<u>Disposition - Recipient/local Id</u>	<u>Date out</u>
18 Jul 2006	Birth	DICKERSON / 6002	Death	1 Dec 2007

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
18 Jul 2006	Regional Studbook #	641	AZA	
12 Sep 2006	House Name	Nisha		

<u>Date</u>	<u>Note type</u>	<u>Comments</u>
1 Dec 2007	Carcass note	Carcass Recipient - Columbia Vet School (herpes virus research)

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
18 Jul 2006	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
18 Jul 2006	Parent	

<u>Date</u>	<u>Parent(s)</u>	<u>local Id</u>	<u>Location</u>	<u>Comments</u>
18 Jul 2006	Sire	5500	DICKERSON	
18 Jul 2006	Dam	4022	DICKERSON	

Death Information

According to DICKERSON

Circumstances:	Infection Associated
Carcass Disposition:	Given to an Institution
Carcass recipient:	PUBLIC
Necropsy (Topological):	Unknown
Necropsy (Etiological):	Unknown

Nisha

Public Name – Nisha

Studbook # - 641

Date of Birth – 18 JUL 2006

Acquisition Date – same

Birthplace – Dickerson Park Zoo

Transaction History – Dickerson Park Zoo

Chronic or recurring medical problems – none

Weight – 650 lbs.

Socialization/behavior history – She is a normal, rambunctious calf.

Commands – trunk, salute, open (mouth), move up, back up, steady, come around.

Reproduction – none

Additional Comments – Died of EEHV in 2007.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: Nisha

=====

Sex: Female
Age: 1Y 11M 17D

Acc. #: 6002
Birth: 18.Jul.2006

=====

.....2007....

14.Mar.2007

Doing well, training progressing
S) JG reports training has progressed. I have observed several training episodes with the trunk and open mouth activities being successful. JG reports she is slower than previous calves to respond to certain commands. (SB)

21.Mar.2007

Tetanus
S) 4 PM observation, she took apples from me without hesitation. JG reports she was a little lethargic today after her vaccination. She was also introduced to Patience today in the yard. She was BAR during today's evaluation.
P) right hip, 20 gauge 1.5 inch, barely noticed injection (JB)
No side effects. (SB)

28.Mar.2007

Last five days or so Nisha has shown little interest in eating apples. Tried pears, raisins, and potatoes with same lack of enthusiasm. She is eating more pellets. All other behaviours and attitudes unchanged. (JB)

1.May.2007

Watched training
S) She is beginning to bow and stretch. Training behaviors are far improved. BAR. (SB)

2.May.2007

Tetanus #2
P) 1 cc IM 20 gauge 1.5 inch needle.
Rx: TETANUS TOXOID 1 ml IM SID for 1 day. (SB)

28.May.2007

Yard observation
S) Nisha is constantly exploring the yard. I observed her repeatedly laying down and getting back up in an effort to dust cover herself. She was near Minyahk for 15 minutes before returning near Moola's vicinity. Jeff reports she has been spending more time with matriach Connie than her mother. Connie appears to even be attempting to nurse Nisha. (SB)

29.May.2007

Yard observation
S) Spent a lot of time playing in the south part of the yard. She spent all her time next to Minyahk or Connie. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: Nisha

Sex: Female
Age: 1Y 11M 17D

Acc. #: 6002
Birth: 18.Jul.2006

=====

24.Jun.2007

Oral exam

S) Two minor gingival scabs were found on the maxillary left side by DL. Both lesions were longer than they were wide. The largest lesion was roughly 1 cm long by 0.4 cm wide. They appear to be minor erosions caused by mouthing on objects. The hard palate and soft palate have no epidermal breaks or petechiae. There is the typical randomly shaped black pigmentation on the palate.

We are instituting a check for petechiae/ulcers on the upper palate due to new information I learned from the Riddle's Ultrasonography course that ulcerations on the hard/soft palate appear before cyanosis of the tongue.

Nisha was very inquisitive and active. No signs of lethargy or discomfort. (SB)

27.Jun.2007

Introduction to Patience

S) Patience went out with the other cows and Nisha today. Nisha was seen putting her trunk in Patience's mouth and other respectful, normal behaviors exhibited by calves to other females. Patience was tolerant, and JB reported no signs of aggressive behavior toward Nisha.

A) Good progress reintegrating the herd with safety for Nisha.

P) Will try another yard introduction tomorrow if possible. (SB)

28.Jun.2007

Nisha's second day with Patience

S) JB reports no behavioral issues between Nisha and Patience who seems to be tolerant of the calf to date. (SB)

30.Jun.2007

June 28th and today Patience and Nisha were placed together in the exhibit yard while being monitored by elephant staff. No problems were noted. Nisha seems intrigued by Patience, very attentive and playful. Patience is tolerant and receptive. Today Nisha vocalized and Patience ran over to her with a maternal and protective demeanor. Patience seems relaxed and at peace with the other herd members. (JB)

27.Aug.2007

Problem: localized swelling - head (Suspected)

Minor brow swelling

S) MC reported barely perceptible swelling on the brow of Nisha. DL had noticed something similar two weeks ago that he could not place as a real phenomenon. Connie is currently under suspicion for ophthalmic

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: Nisha

Sex: Female
Age: 1Y 11M 17D

Acc. #: 6002
Birth: 18.Jul.2006

=====

27.Aug.2007

Problem: localized swelling - head (Suspected)
(not EEHV) herpes given the time of year and the one time purulent drainage.
I observed her in the yard at 11 PM. She was away from all the cows exploring in a calm fashion tasting random items. I could not observe a change in the head at a distance.
A) Concerned that edema is present indicating elephant endotheliotropic virus.
P) Watch very closely (SB)

5.Sep.2007

Problem: localized swelling - head (Suspected)
Dorsal palate discoloration
S) JB reported at 4 PM some discoloration at the rostral end of the dorsal palate which he believed was likely due to her chewing on items. I did not return from running errands until all keeper staff had left, but due to herpes concern, an immediate exam was warranted. Erin helped distract Moola and Nisha with banana while I observed Nisha's upper palate via flashlight. Connie and Minyahk were very well behaved. They took banana with interest, but they displayed no aggressive behaviors. Patience was in the corral, otherwise the examination would not have occurred. The animals were fed with extreme caution at maximum distance.
I was able to get an excellent look in Nisha's mouth. The darkened discoloration are bilaterally symmetrical at the rostral end of the upper palate, each several cm in diameter, and appear caused by pigmentation or wear. No petechiae present in the pharynx. I observed Nisha playing with hay and possibly grazing. Activity is reported as BAR. No brow swelling noted.
A) Normal discoloration due to mouthing (normal play behavior) or typical pigmentation development. No signs of EEHV. (SB)

6.Sep.2007

Oral recheck:wnl
S) JB facilitated another oral examination, no petechiae or any ulcerations noted. BAR, eating well, took banana. (SB)

16.Sep.2007

No report of problems (SB)

17.Sep.2007

Moola AI, Nisha occupied
P) Jackson occupied Nisha outside while Moola was artificially inseminated in the cow barn stantion. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: Nisha

Sex: Female
Age: 1Y 11M 17D

Acc. #: 6002
Birth: 18.Jul.2006

=====

29.Nov.2007

Weight: 526.3 Kg (1160 Lb)

Nisha showing early signs of EEHV.

As reported by area keeper:

Nisha refused to stretch on command this morning, otherwise her behavior was normal. During the afternoon routine she again refused to stretch initially, then when coaxed with Fruit Loops she stretched slowly on the back legs as if she was sore. Upon inspection of her mouth (for herpes symptoms) she had approximately a 1" x 1/2" very faint blue patch on the tip of her tongue and one lesion on the roof of her mouth (neither of which were present during the AM check). She also had moderate swelling above the eyes and around the cheeks. At 5 PM keeper began trying a variety of foods to put the meds into to get Nisha to eat it. The initial dose was 13 tabs of FAMCICLOVIR 500mg. Approximately 6 1/2 tabs were consumed after crushing them, mixing them in jello and corn syrup and then coring out and filling small chunks of apple. Other food items were attempted with limited or no success (banana, fruit loops, grapes, doughnuts, cooked sweet potato, yogurt, et.). It took 1 1/2 hours to get her to eat 1/2 the prescribed dose. At 6:30 PM 10 mLs of Dual Pen was administered IM using a 16g, 1.5" needle. At 7:30 PM she was sleeping soundly. Nisha was weighted at 4:30 PM - 1160 LBS. At 7:30 PM, while she was sleeping 1 purple top tube of blood was drawn from her ear. Her ear temp was 96 degrees, and her respiration rate was 8/minute. One keeper remained overnight. (AM)

30.Nov.2007

Continued treatment:

As reported by area keeper:

At 1:00 AM keepers began trying to entice Nisha to take food items laced with the second dose of FAMCICLOVIR. Nisha was uncooperative. At 1:21 AM 40mg Rompum was administered in her left shoulder for a standing sedation to allow the Famciclovir to be administered rectally. Upon observation, Nisha was still too alert to attempt the procedure, so at 1:42 an additional 40mg of Rompum was administered to her left hip. Then 50mg to her right hip at 1:58 AM to achieve an acceptable level of sedation. The Famciclovir was crushed and turned into a paste with saline and administered rectally. At 2:22 AM shortly after being treated Nisha expelled 3 boluses, so at 2:31 AM additional 6 1/2 tabs were crushed and administered rectally. At 2:24 AM 500mg of Tolazoline was administered IM for the reversal. At 7 AM Dr. Stafford observed her and prescribed 1mg/kg Banamine for pain management and 10ml Lasix for swelling. Banamine may be administered as needed for pain management (as per Dr. Stafford). 5ml of Lasix was successfully given and 530mg of Banamine IM was given at 7 AM. 3rd Famvir treatment was initiated at 10:28 AM when a standing sedative

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: Nisha

Sex: Female
Age: 1Y 11M 17D

Acc. #: 6002
Birth: 18.Jul.2006

=====

30.Nov.2007

dose of 10mg butorphanol and 10mg of Detomidine was given IM in RT hip. A good sedation was achieved at 10:54 AM when 13 500 mg tabs of Famvir was placed rectally. At 10:52 AM 23ml of Ceftiofur (antibiotic) was given IM. A reversal of 27 mg atiamisol and 100mg Naltrexene was given IM at 10:54. Heart rate at that time was 70 BPM. Nisha continues to drink frequently and splash water on herself. At 4:40 PM, she layed down for 15 minutes. At 4:55 PM, she pushed an enrichment tire, vocalized, and was observed limping on front right foot. At 5:11 PM she lay down for 17 minutes. 5:28 PM she pushed enrichment barrel and vocalized. At 6:30 PM she vocalized. At 6:50 PM she lay down 13 minutes. At 7:03 PM pronounced limping. At 7:43 PM she lay down 7 minutes. At 8:12 PM sedative was given (10 mg of Detomidine and Butorphanol IM). At 8:30 PM Famvir was placed rectally. At 8:40 blood was drawn for CBC and Chemistry. At 8:45 PM ECG was taken. At 8:49 PM Lasix (15ml) and Banamine (530mg) was given IM. At 8:50 PM reversal (100mg Naitrexone and 100mg Tolazoline) was given IM. Sedation rated as poor, ambulatory when stimulated. Nisha has discontinued nursing. She has started lying down more for less time, several minutes each time. (AM)

1.Dec.2007

Continued treatment:

As reported by area keepers:

Midnight forward - Nisha has been restless throughout the night; lying down for 2-4 minutes at a time approximately a dozen times from midnight to 2 AM. She has also been splashing water on herself and flapping her ears frequently. Nisha has been drinking water fairly often throughout her illness and had been nursing very often for short bouts until the last time she was observed nursing at 8 PM on Friday. At 2:25 AM Nisha layed down under the suspended tire. Connie (#1101) and Moola (#4022) seemed distressed that she chose to lay under the tire and they kept moving the tire off her and bumping Nisha with it. Nisha would periodically raise 1/2 way up, move her legs or trunk in response to the tire bumping her. At 2:45 AM Patience (in stall #1 & 2, not with Connie, Moola and Nisha) hit her street brush aggressively several time although there was no audible vocalization from any of the other cows or Nisha. Subsequent observations of Nisha for the next few minutes with a flashlight showed no movement or respiration. Upon entering the stall and closer insepction, Nisha had passed (presumably at 2:45 when Patience reacted so aggressively). Connie (1101) and Moola (4022) stayed standing quietly over Nisha until around 4:30 AM Moola moved away and began eating hay. At 4:00 AM the door to stall #6 from the transfer chute ws opened so that Minyahk (#65) (who was housed in the transfer chute) would have access to go

Report Start Date
1/1/1900

Specimen Report for DICKERSON / 1101

Report End Date
7/8/2008



Taxonomic name: *Elephas maximus*

Family: Elephantidae

Common name: Asiatic elephant

Order : Proboscidea

Current information

Sex: Female Sire ID:
Birth type: Wild Born Dam ID:
Birth Location: Rearing: Unknown
Birthdate-Age: ~ Jan 1963 - 45Y,6M,6D +/-1 Mo. Hybrid: Not a hybrid
Time since last Acq: 26Y,7M,12D 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>
25 Nov 1981	Purchase from ABILENE / 21	DICKERSON / 1101		

<u>Date</u>	<u>Identifier type</u>	<u>Identifier</u>	<u>Location</u>	<u>Comments</u>
24 Nov 1964	Regional Studbook #	105	UNKNOWN STUDBOOK	105 "International Studbook Number" from ARKS 2 records

25 Nov 1981	House Name	CONNIE
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<u>Date</u>	<u>Note type</u>	<u>Comments</u>
25 Nov 1981	Price	026500

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
25 Nov 1981	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
25 Nov 1981	Unknown	

Connie

Public Name – Pinky

Studbook # - 105

Date of birth – 1964

Acquisition date – 25 NOV 1981

Birthplace – Asia

Transaction History – Asia, Abilene Zoo, Dickerson Park Zoo

Recurring medical problems – none

Weight – 7,500 lbs.

Socialization/behavior history – She is currently the matriarch of the herd. She is somewhat aggressive with less dominant elephants, not including calves. She has been known to bite tails, kick and shove other elephants. She is very submissive and solicitous with keepers.

Commands – trunk up, put it away, open wide, head down, let me see your trunk, salute, bow, kneel, brace, split, foot pad, foot front, come here, move over, back up, move up, tail up, break, push, pick it up, get your butt over, get your head over, steady, stretch, lay down, come around, move around, come in line, hand it here, break it, kick it, step up, alright, come up and salute and open it (gate). Keepers can ride on her neck.

Reproduction – She has had three calves. The first calf was stillborn in 1985. The second calf was born in 1991, but died in 1993 of EEHV. The third calf was born here in 1995 and currently resides at the Oklahoma City Zoo.

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: CONNIE

Sex: Female Acc. #: 1101
Age: 45Y 6M Est. Birth: 1.Jan.1963

=====

21.Mar.2007

by a small amount (5-10%). Previous inflammation left some permanent changes (fibrosis) that are not affecting Connie's comfort or ability to navigate. The mild opacity was predictable and unavoidable. The tail is almost completely healed. Healing was rapid for this species in the past 2 weeks.
P) Ophthalmic antiviral drugs were will used in combination with antibiotics when the herpes lesion recurrns in the fall or late summer. Today was the last tail soak. (SB)

22.Mar.2007

Front pads trimmed. Procedure performed in Cow Bldg Stall #3 while Connie in standing position. J. Bradford and J. Glazier attending. (JB)

30.Apr.2007

TB trunk wash Neg culture
O) Missouri State Tuberculosis Lab negative
Sample quality: adequate (SB)

2.May.2007

Mild coli episode self resolved
S) JB reports Connie's appetite was decreased for hay and pellets in the PM. She appeared uncomfortable by pressing her side to the crush. She was given outdoor access again (exercise) and by 5 PM she was eating normally. Feces were more abundant than normal in the 5/3 AM and some were soft. Connie's feces and appetite on 5/3 were normal. Jeff and JB felt she was back to normal. Fecal culture was offered, but keepers think she is fine. (SB)

13.May.2007

Blood pressure measurement with Dr. Suedmeyer
S) First round of elephant blood pressure measurements done in the cow stanchion. She was well behaved in the stanchion. (SB)

30.Jun.2007

Yesterday Connie was placed in with Sabu for breeding, impending estrus projected for this week. Today Sabu mounted Connie, no penetration as Connie would not stand. Sabu resisted separation from Connie this PM. Blood collected from Connie for LH and P4 analysis. (JB)

2.Jul.2007

Observation
S) Observed in stanchion, took apples. WNL. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

<i>ELEPHAS MAXIMUS</i> (no subsp)	Sex: Female	Acc. #: 1101
Asiatic elephant	Age: 45Y 6M Est.	Birth: 1.Jan.1963
Name: CONNIE		

=====

12.Jul.2007

Confirmed breeding, Sabu and Connie. Videotaped. (JB)

19.Jul.2007

Nisha jello cake enrichment

S) Moola, Nisha, and Patience enjoyed the spray wash for the public. Connie participated a little. Minyank was not interested in the water spray. One large, one small jello cake with vegetable were given as part of Nisha' one year birthday party. (SB)

1.Aug.2007

All feet (pads and nails) trimmed, standing position in south stanchion. No significant defects. Bradford and Dickson attending. (JB)

17.Aug.2007

Problem: abscess - head (Confirmed)

19.Aug.2007

Problem: abscess - head (Confirmed)

Blood pulled

S) JB with DL assisting collected blood from the right ear per my request.

P) CBC sent to Steve Whisler at St. John's. CBC to Cox Walnut Lawn. (SB)

26.Aug.2007

Problem: abscess - head (Confirmed)

Report of discharge from urinary tract

S) AM left a note that SK JB found some purulent discharge from Connie on my weekend. I told keeper DL who was unaware of the issue to look into it today and give me a report. I called JB who reported that he's confident Connie has the discharge. He found 3 different spots of exudate of 3-5 mls, no blood. She does not appear uncomfortable or show any signs of disease. He did not feel she was in any discomfort.

A) Dx: Possible herpes recrudescence, possible post breeding abscess, excessive vaginal mucous, etc..

P) JB and will will examine her together on Tuesday when he returns. I suggested flushing the vagina to remove debris and start lysine in anticipation of her yearly ophthalmic herpes lesions. (SB)

27.Aug.2007

Problem: abscess - head (Confirmed)

Rx: LYSINE 16 gm PO SID for 28 days. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: CONNIE

Sex: Female Acc. #: 1101
Age: 45Y 6M Est. Birth: 1.Jan.1963

=====

28.Aug.2007

Problem: abscess - head (Confirmed)

Vaginal exam, facial abscess

S) JB and staff used leg restraints to allow me to visually inspect the outer labia. I found some white exudate on the medial surface of the left rear leg at the tarsus. No exudate or erosions were found on the outer labia. I was able to explore the vagina to a mild degree and found the keratinized skin was softer and red as would be expected. I do not know if that is normal or mildly inflamed tissue. No exudate for blood was found. Animal is eating and behaving normally. The right eye is unchanged, minor old scar on the cornea which is otherwise clear.

There is a superficial abscess 10 cm ventral to the right temporal gland. The exudate is very viscous and difficult to debride. It corresponds to a pressure sore which the staff have treated previously as Connie prefers to lay down on the left side.

A) Dx: Possible minor vaginitis from Sabu's breeding 1-2 weeks ago, masturbation, or herpes recurrence.

P) JB will pull blood for CBC and chemistry tomorrow to determine if AB are warranted. I gave JB a 1:30 chlorhex solution (1 gallon) and 60 cc catheter syringe to flush the abscess on the right side of the head. (SB)

30.Aug.2007

Problem: abscess - head (Confirmed); anemia (Confirmed)

Bloodwork: anemia

CBC:

O) 1. Hct 27.2 which is 10% lower than normal. RBC 2.16. Platelets also show destruction/consumption compared to previous blood analysis.
2. Bands are 57%, 7,700 which is the highest compared to 6,400 for the last previous high in Feb 06.

P) I am suspicious of an infection.

Antibiotics for 10 days, Will need to start antibiotics tomorrow or late today. (SB)

2.Sep.2007

Problem: abscess - head (Confirmed); anemia (Confirmed)

AB discussed with JB

S) Local pharmacies do not have any near enough AB (TMS) for treatment. JB suggested since Connie is behaving and eating normally, we pull blood again on Tuesday and determine then if we need to treat. (SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

=====

ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: CONNIE

Sex: Female Acc. #: 1101
Age: 45Y 6M Est. Birth: 1.Jan.1963

=====

3.Sep.2007

Problem: abscess - head (Confirmed); anemia (Confirmed)
More exudate discharge from vagina
S) MC reports more discharge
P) I suggested we attempt an vaginal flush/douche to remove exudate.
(SB)

6.Sep.2007

Problem: abscess - head (Confirmed); anemia (Confirmed)
Ultrasound: urogenital
S) Examined in chute while feeding banana and apple.
Transcutaneous: NSF, Connie crosses her legs preventing much access.
Rectal: Urethra appears symmetrical. No fluid pockets detected. The
body of the vagina appears to have fluid within the lumen. This may
be either mucous or an exudate. The luminal vaginal folds are clearly
visible. As this is Connie's first urogenital ultrasound, the fluid
cannot be construed as anything significant as yet. No fluid pockets
in the vaginal muscle were detected. The rectal mucosa on visible
inspection appears normal. (SB)

9.Sep.2007

Problem: abscess - head (Confirmed); anemia (Confirmed)
Bloodwork results
O) WBC continues to rise despite no clinical signs 13.5-14.1. The
14.1 is still wnl for her however. HCT has improved to WNL at 33.8.
A) With improved HCT, and rbc #, no intervention is necessary as there
are no complaints in appetite or activity. The previously affected
right eye is unchanged. No recurrence of exudate from the vagina.
P) Monitor. I need an update on minor facial abscess. (SB)

10.Sep.2007

Problem: abscess - head (Confirmed)
Facial abscess update
S) I asked MC about Connie's minor abscess. She reports it is slowly
healing (normal elephant healing) and very little exudate has been
expressed. I refilled a chlorhex gluconate spray bottle for daily
debridement. She did find more vaginal exudate yesterday.
P) I suggested MC, JB, and I meet to discuss TMS AB therapy. I would
like to start oral AB for a 10 day period despite normal activity and
normal bloodwork as a precaution. I also suggested a vaginal flushing
to treat the sparse reports of exudate from the urogenital system.
(SB)

13.Sep.2007

Problem: abscess - head (Confirmed)
Rx: SULFAMETHOXAZOLE TRIMETHOPRIM DS 75.84 gm PO BID for 5 days.
(SB)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: CONNIE
=====

Sex: Female Acc. #: 1101
Age: 45Y 6M Est. Birth: 1.Jan.1963
=====

16.Sep.2007

Problem: abscess - head (Confirmed)

60 cc exudate from vagina

S) JB found 60 cc of white exudate on Saturday. He gave me a sample today for staining.

P) We will try a vaginal flush this week: standing in a stall. (SB)

18.Sep.2007

Problem: abscess - head (Confirmed)

Rx: 1 day TMS, plan urogenital flush, culture urogenital exudate

Rx: SULFAMETHOXAZOLE TRIMETHOPRIM DS 75.9 gm PO BID for 1 day.

1. Thursday, if no Moola AI, use the disinfected catheter (modified endotrach tubes) to flush Connie's urogenital tract.

2. USDA culture of exudate collected on 9/15 (in refrigerator until now, Moola AI prevented previous sample submission). (SB)

21.Sep.2007

Problem: abscess - head (Confirmed)

Culture results

O) USDA of exudate culture Staph aureus resistant to aminoglycosides and penicillin, sensitive to clindamycin, erythromycin, ceftiofur, chlormphenicol, and enrofloxacin. (SB)

1.Nov.2007

Problem: abscess - head (Confirmed)

.....2008....

5.Mar.2008

First of three trunk washes collected for TB testing. (AM)

6.Mar.2008

Weight: 3267 Kg (7202 Lb)
Second of three trunk washes collected for TB testing. (AM)

7.Mar.2008

Third of three trunk washes collected for TB testing. (AM)

28.Mar.2008

TB test results = negative. (AM)

28.Mar.2008

Rx: WEST NILE VIRUS VACCINE 1 ml IM SID for 1 day.

Rx: TETANUS TOXOID 1 ml IM SID for 1 dose. (1630105C)

Rx: WEST NILE VIRUS VACCINE 1 ml IM (1666148B) (MS)

Clinical Notes - Individual Specimen Report
DICKERSON PARK ZOO

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ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: CONNIE

Sex: Female Acc. #: 1101
Age: 45Y 6M Est. Birth: 1.Jan.1963

=====

8.May.2008

Endoscopy of reproductive tract. (JB)

9.May.2008

Endoscopy of reproductive tract (JB)

15.May.2008

Endoscopy of the reproductive tract. (AM)