

Clinical Notes - Individual Specimen Report
TULSA ZOOLOGICAL PARK

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<i>ELEPHAS MAXIMUS</i> (no subsp)	Sex: Female	Acc. #: 327
ASIATIC ELEPHANT	Age: 57Y 0M Est.	Birth: 16.Nov.1950
Name: GUNDA		

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.....2005...

17.Oct.2005

Problem: osteoarthritis - both front limbs (Suspected); abscess - left rear foot (Confirmed)

Proc 1. Visual exam - L rear foot, chronic solar abscess at pad nail interface plantar aspect D2. Two focal depressions present. Keepers have trimmed out additional portion of soft fibrous tissue.

Proc 2. Cryotherapy to left rear foot lesions.

A: superficial solar abscess

P: Continue bi-weekly cryotherapy, magnesium sulfate foot baths, and regular trimming. (TAG)

20.Oct.2005

Problem: osteoarthritis - both front limbs (Suspected); abscess - left rear foot (Confirmed)

Proc 1. Cryotherapy to L rear foot lesions. (TAG)

24.Oct.2005

Problem: osteoarthritis - both front limbs (Suspected); abscess - left rear foot (Confirmed)

Proc 1. Cryotherapy to L rear foot lesions. (TAG)

17.Nov.2005

Problem: osteoarthritis - both front limbs (Suspected); abscess - left rear foot (Confirmed)

16.Dec.2005

Problem: abscess - left rear foot (Confirmed)

.....2006...

4.Apr.2006

Problem: VACCINATION WNV

Proc 1. Vaccination: 1mL WNV Ft.Dodge 1666143A 28Apr07 IM L rear
1mL Tetanus toxoid Ft.Dodge 1630100A 10Jan07 IM L rear

Proc 2. Blood collection L ear.

Assess: routine vaccines, blood draw

Plan: repeat vaccination q year (KEV)

10.Oct.2006

Routine fecal negative, no parasites seen. (RAB)

13.Nov.2006

Problem: edema - VENTRAL BODY WALL (Confirmed)

Proc 1: visual exam: ventral edema noted by keepers today. Animal is

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13.Nov.2006

Problem: edema - VENTRAL BODY WALL (Confirmed)

BAR. Moderate edema noted on ventral abdomen, no edema under jaw.
right tusk was flushed with dilute chlorhexidine.

Proc 2: Blood sample collected - EDTA and serum. submitted to vet pro
for CBC and large animal profile.

Assess: ventral edema. rule out hypoproteinemia, parasites, other.

Plan: Phenylbutazone x 3 days.

Rx Phenylbutazone 8.5 grams PO today, then 5 grams PO SID for the next
2 days. (KHF)

22.Nov.2006

Problem: edema - VENTRAL BODY WALL (Confirmed)

Note: Keeper reports Gunda is sore on her feet today, ventral edema is
not yet resolved.

Rx Phenylbutazone 8.5 grams PO today then 5 grams PO SID for 3 days
per KAB. (KHF)

25.Nov.2006

Problem: edema - VENTRAL BODY WALL (Confirmed)

.....2007....

5.Feb.2007

3lb jar cosequin dispensed for routine administration. (RAB)

14.Feb.2007

Proc 1. National Veterinary Services Laboratories showed no
mycobacteria isolation from three trunk washes 11 Nov-13 Nov. (RAB)

5.Apr.2007

Proc 1. Routine fecal direct and float: NPS (KHF)

20.Apr.2007

Problem: VACCINATION WNV

Proc 1. Vaccination: 1 ml Fort Dodge West Nile Innovator Vaccine IM
left rear leg.

Assess: routine vaccination

Plan: repeat in one year. (KHF)

18.May.2007

Problem: VACCINATION EEE-T

Proc 1. Vaccination Fort Dodge Encephalomyelitis-Influenza vaccine
with tetanus toxoid 1ml IM left rear leg. Serial 1807101A exp
12Nov07.

A: Routine vaccination.

P: repeat yearly. (RAB)

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2.Jul.2007

Proc 1. Visual exam oral cavity. Both mandibular molars show mild spurring on the mesial side of the tooth. No abrasions or other lesions in the oral cavity.

Assess: Molar is likely getting ready to be replaced.

Plan: Monitor for food conversion and quality of stool. Assist with feeding if necessary. (RAB)

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ELEPHAS MAXIMUS (no subsp)

ASIATIC ELEPHANT

Name: GUNDA

Sex: Female

Age: 57Y 0M Est.

Acc. #: 327

Birth: 16.Nov.1950

16.Jul.2007

Problem: abscess - digit (Confirmed)

<<< Microbiology >>>

Laboratory: VetPro

Sample Accession #:

Collection Date: 16/07/2007

Submission Date:

Reporting Date:

Submission type:

- aerobic bacteriology
- anaerobic bacteriology
- mycology
- enteric pathogen screen
- mycobacterial

Sample source: toe abscess

Organism:

1. Staph aureus
- 2.
- 3.

Growth:	heavy	moderate	light
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sensitivity:

	1	2	3
Amoxicillin:	s		
Amox'/Clav'nate:	s		
Ampicillin:			
Amp./Sulbactam:			
Aztreonam:			
Cefazolin:	s		
Ceftazidime:			
Ceftizoxime:			
Ceftriaxone:			
Cefuroxime:			
Chloramphenicol:	s		
Ciprofloxacin:	s		
Clindamycin:			
Enrofloxacin:	s		
Erythromycin:			

	1	2	3
Gentamicin:	s		
Naladixic Acid:			
Nitrofurantoin:			
Norfloxacin:			
Oxacillin:			
Penicillin:	r		
Piperacillin:			
Sulfamethoxazole:			
Tetracycline:			
Tobramycin:			
Trimeth./Sulfa:			
Vancomycin:			
Imipenem:			
Lincomycin:			
Cephalothin:			

Comments: (ACH)

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16.Jul.2007

Problem: abscess - digit (Confirmed)

Proc 1. Visual exam of left rear foot for swelling at cuticle of P-3. Soft, painful and flocculent. Lanced thin area proximal to cuticle and expressed thick pink exudate.

Flushed with nolvasan

Proc 2. Microbiology: Swab submitted for aerobic bacterial culture.

Assess: nail abscess of LR P-3

Plan; tomorrow more aggressive opening of abscessed toe. Begin daily epsom salt soaks and flushing. (KAB)

17.Jul.2007

Problem: abscess - digit (Confirmed)

Proc 1. Operant conditioning presentation of left rear foot.

Proc 2. undermined and necrotic section of nail LR P-3 trimmed away, underlying debris removed, flushed with nolvasan and epsom salt crystals packed into nail

Assess: Toe nail abscess

Plan: keepers to begin daily flushing of abscess, epsom salt soaks and trimming of underside of nail to see if migrating tract exists.

for first week dry salts should be packed into deficient dry and disinfect abscessed area. (KAB)

23.Jul.2007

Problem: abscess - digit (Confirmed)

Proc 1. Presentation of left rear foot.

Proc 2. Brief exam, area that was undermined and necrotic at proximal extent of nail is well dried and underlying fibrous tissues is dry and filling in the defect. Trimmed a bit more of nail to expose pocket and small amount of necrotic debris removed.

Assess: nail abscess appears limited to 2 cm extent of top of nail.

Plan: weekly rechecks

Cease epsom salt packed into nail but continue epsom salt soaks. (KAB)

30.Jul.2007

Problem: abscess - digit (Confirmed)

Proc 1. Visual exam, defect in toenail of left rear foot has quickly filled in with healthy tissue. Small crevice still collects debris.

Plan: Staff to start slowly thinning nail around crevice.

Continue daily epsom salt soaks. (KAB)

20.Aug.2007

Problem: abscess - digit (Confirmed)

Proc 1. Brief visual exam, nail has grown in relatively quickly.

Slight soft area in center of nail that requires attention and some trimming.

Plan: monitor (KAB)

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9.Oct.2007

Fecal (routine): negative (ACH)

Report Start Date
1/1/1900

Specimen Report for TULSA / 327

Report End Date
11/2/2007



Taxonomic name: *Elephas maximus*

Family: Elephantidae

Common name: Asiatic elephant

Order: Proboscidea

Current information

Sex: Female Sire ID: WILD at Obtained From Wild
Birth type: Wild Born Dam ID: WILD at Obtained From Wild
Birth Location: Obtained From Wild Rearing: Parent
Birthdate-Age: ~ Nov 1950 - 56Y,11M,16D +/-06 Mo. Hybrid: Not a hybrid
Time since last Acq: 52Y,11M,16D as of report end date

Date in	Acquisition - Vendor/local Id	Holder	Disposition - Recipient/local Id	Date out
16 Nov 1954	Donation from PUBLIC / UNK	TULSA / 327		

Date	Identifier type	Identifier	Location	Comments
16 Nov 1954	House Name	GUNDA		
16 Nov 1954	Regional Studbook #	239	AZA	239 "International Studbook Number" from ARKS 2 records
16 Nov 1954	Studbook Name	GUNDA		

Date	Type	Value	Units	Comments
10 Nov 1981	live animal weight	11000	pound	[12:00:00 PM] Weighed by Oklahoma Highway Patrol.
3 Apr 1995	live animal weight	8080.0	pound	[12:00:00 PM]
17 Mar 1997	live animal weight	8620.0	pound	[12:00:00 PM]
5 Jun 1997	live animal weight	8470.0	pound	[12:00:00 PM]
16 Jun 1997	live animal weight	8374.0	pound	[12:00:00 PM]
15 Feb 1998	live animal weight	8390.0	pound	[12:00:00 PM]
8 Sep 1998	live animal weight	8252.0	pound	[12:00:00 PM]
13 Nov 1998	live animal weight	8290.0	pound	[12:00:00 PM]
17 Jan 1999	live animal weight	8336.0	pound	[12:00:00 PM]
30 Jun 1999	live animal weight	8129.0	pound	[12:00:00 PM]
21 Feb 2000	live animal weight	8340.0	pound	[12:00:00 PM]
27 Feb 2000	live animal weight	8402.0	pound	[12:00:00 PM]
11 Mar 2000	live animal weight	8370.0	pound	[12:00:00 PM]
13 Mar 2000	live animal weight	8422.0	pound	[12:00:00 PM]
14 Mar 2000	live animal weight	8345.0	pound	[12:00:00 PM]
23 Mar 2000	live animal weight	8350.0	pound	[12:00:00 PM]
5 Jun 2000	live animal weight	8445.0	pound	[12:00:00 PM]
3 Sep 2000	live animal weight	8016	pound	
24 Jan 2001	live animal weight	8375	pound	
2 Feb 2001	live animal weight	8475	pound	
18 Feb 2001	live animal weight	8395	pound	
4 Mar 2001	live animal weight	8282	pound	
18 Mar 2001	live animal weight	8350	pound	
25 Mar 2001	live animal weight	8358	pound	
8 Apr 2001	live animal weight	8354	pound	
12 May 2001	live animal weight	8248	pound	
10 May 2003	live animal weight	8280	pound	MC
21 Sep 2003	live animal weight	8270	pound	JS
17 Oct 2004	live animal weight	3751.8	kilogram	JS
21 Oct 2004	live animal weight	8240	pound	MC
4 Nov 2004	live animal weight	8242	pound	MC

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1/1/1900

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Report End Date
11/2/2007



		Also, she managed to reach the hose left by City electrician while in reserve yard. She broke the hose in several locations and possibly ingested a small amount. MC
16 May 2005	Physical condition	Sluggish during a.m., but seems to progress as day went by. JS
2 Jun 2005	Foot management	MS trimmed LF abscessed #3 nail (update of progress/condition). MH
9 Jun 2005	Medical note	Ultrasound on female 12181: performed on edema on R upper forearm. Also performed needle aspiration on edema on R upper forearm. Measured edema on both upper forearms (7" diameter). MS Also performed ultrasound on female 327's upper forearm for comparison. Gunda and Sooky's looked the same. No fluids or tumors were found in any samples. MS
27 Jun 2005	Training note	Radiograph training on RF and LF. JS
11 Jul 2005	Physical condition	Heavy discharge from L temporal gland. MC
12 Jul 2005	Foot management	Two abscesses possibly developing on LR. Will monitor. JS
21 Aug 2005	Physical condition	Overnight, females 327, 12181 obtained ~ 6' of hose from reel (NW corner) in main stall. JS
27 Sep 2005	Medical note	Day 1 of 3 - TB testing on 2702, 327, 12181. All three did great, full samples. JS
28 Sep 2005	Medical note	Day 2 of 3 - TB testing on 2702, 327, 12181. All three did great, full samples. AK
29 Sep 2005	Medical note	Day 3 of 3 - TB testing on 2702, 327, 12181. MC
6 Oct 2005	Physical condition	Checked L temporal gland, some material present, flushed with Nolvasan. MH
10 Nov 2005	Foot management	Cryotherapy was discontinued on LR #1 abscess. MS (Data recorded on 11 Nov 2005 report.)
11 Nov 2005	Physical condition	Checked temporal gland and it was clean. MS
12 Nov 2005	Weight/Length	8000 lbs. MC
14 Nov 2005	Weight/Length	7840 lbs. MS
16 Nov 2005	Weight/Length	7950 lbs. AK
20 Nov 2005	Weight/Length	7926 lbs. AK
11 Dec 2005	Weight/Length	7970 lbs. MC
7 Jan 2006	Training note	Training: session with 327, 12181 with the bite block, occurred outside. Utilized a stool for height. Both did very well, but 12181 a little more hesitant. JS
3 Feb 2006	Foot management	#1 Abscess maintenance on LR foot. MS
5 Feb 2006	Weight/Length	Wt: 7,996 lbs. MC, JS
11 Feb 2006	Environment	None of the heaters were working in the barn today. Propane heaters were set up at bull end and NE corner for heat. TV, AK
13 Feb 2006	Environment	Barn heaters operational, and city HVAC will return tomorrow to finish repairs. All heaters working except one nearest barn service doors. MC, MS
		This comment was added to the following specimens: 327, 2702, 12181.
12 Mar 2006	Foot management	Dug out abscess #1 on LR leg. JS
21 Mar 2006	Foot management	No longer need to soak LR foot in eposom salts. KAB
4 Apr 2006	Medical treatment	All elephants (2702, 327, 12181) received WNV and tatanus vaccinations. AM, LK
17 Apr 2006	Medical note	Thermographic photos were taken. MC
2 May 2006	Physical condition	R tush broken off at sulkais. Will monitor for infection. JS
3 May 2006	Diet	Began mixing Timothy hay in with prairie hay for elephants (2702, 327, 12181) and white rhinos (5590, 5591). MH
9 May 2006	Medical note	KAB checked tush. Advised nolvasan flush BID. JS
19 May 2006	Medical treatment	Flushing R tush area BID. MC
18 Jun 2006	Medical treatment	Continuing to flush R tush region. JS
2 Aug 2006	Diet	Cleared the use of prairie hay with KD. Now using 1/2 prairie hay and 1/2 timothy hay. MH, MS
5 Aug 2006	Animal management note	Attempted to restrict both 12181 and 327 in cow chute, between stalls, with canvas covered chains, for foot radiograph training. 12181 did okay with initial training. 327 would not enter area as asked. JS, MC
26 Aug 2006	Physical condition	Left temporal area: pocket full of white discharge as seen through previous summers. JC, MC
26 Aug 2006	Medical treatment	Left temporal area will be flushed BID. JS, MC
9 Sep 2006	Enrichment note	Elephants (327, 12181) were given ice block and bamboo enrichment. MC, JS
19 Sep 2006	Foot management	First real attempt at foot radiographs. Obtained 3 images. Overall, she did very well. JS, MS



23 Sep 2006	Physical condition	Found discharge on L temporal area. JS, MC
23 Sep 2006	Medical treatment	Will continue to flush L temporal area with nolvasan BID. JS, MC
25 Sep 2006	Animal management note	Today was day 1 of elephants (327, 12181) having access to renovated reserve yard throughout the day and overnight. JS, MC
11 Oct 2006	Medical note	Day 1 of 3 TB tests. All were successful today. AK, JS
12 Oct 2006	Medical note	Day 2 of 3 for TB tests on elephants (2702, 327, 12181). MS, JS
13 Oct 2006	Medical note	Day 3 of 3 for elephant (2702, 327, 12181) TB tests. MS, JS
31 Oct 2006	Medical note	Radiographs taken on her RF foot. Six images were obtained. She did very well overall. AK, JS
4 Nov 2006	Behavior note	Females (327, 12181) gave themselves access to the demo yard overnight. Damage to the demo yard occurred. A chain was added for security until further notice. MC
12 Nov 2006	Physical condition	Umbilicus area slightly more swollen. Feels as though it is fluid filled. MC
12 Nov 2006	Animal management note	We will exercise her and cut back on hay and grain. MC
13 Nov 2006	Medical treatment	Given 8.5 tablets of phenalbutazone. MS
14 Nov 2006	Physical condition	Abdominal swelling seems slightly smaller and less tender today. JS
15 Nov 2006	Medical treatment	Day 3 of 3 for phenylbutazone. JS
18 Nov 2006	Physical condition	Ventral edema remains unchanged. Moving and acting normal, but has decreased appetite. JS
21 Nov 2006	Physical condition	Edema is less pronounced, and appetite is good in AM. Does not appear to feel well in PM. Slow moving and reluctant to move into barn - frequent yawning. AK, JS
22 Nov 2006	Medical treatment	Day 1 of 4 for phenylbutazone. MS
25 Nov 2006	Medical treatment	Day 4 of 4 for Phenylbutazone tablets SID. JS
12 Dec 2006	Animal management note	Blood draws on elephants (2702, 327, 12181) will include whole blood every week, until further notice, for herpes research. JS
22 Dec 2006	Enrichment note	Gatorade mix in elephant (2702, 327, 12181) drinkers overnight for enrichment. JS
11 Jan 2007	Foot management	Obtained thermal images of elephants (2702, 327, 12181). They were very cooperative. JS
3 Feb 2007	Behavior note	Seemed sluggish today. Moved very slowly and did not seem interested in food. JS
4 Feb 2007	Diet	Grain adjustment: 1 1/2 scoops - 2X daily. TV
7 Feb 2007	Animal management note	Gave females (327, 12181) access to hallway. Placed bamboo and hay for incentive. JS
16 Feb 2007	Animal management note	Left females (327, 12181) access together overnight in cow section of barn. MS
20 Feb 2007	Animal management note	Females (327, 12181) given first official access to demo yard. Both were hesitant at first, but they did well. JS
22 Feb 2007	Animal management note	Females (327, 12181) were stationed at west end of main yard while demo gate was opened and closed. 327 was hesitant to leave the demo yard. JS
24 Feb 2007	Animal management note	Females (327, 12181) were left together overnight. JS
8 Mar 2007	Training note	Began preliminary "recycle" behaviors. JS
10 Mar 2007	Training note	Working recycling and painting behaviors in demo yard with females (327, 12181). JS
1 Apr 2007	Animal management note	Bathed 1.2 elephants (2702, 327, 12181). Females bathed in main stall together after AM grain. Both did extremely well. MC
3 Apr 2007	Environment	Operations began construction on scratching wall. JS
4 Apr 2007	Animal management note	Females (327, 12181) shifted from res. stall, through barn via E bull stall, into bull yard, and into res. yard. Both did great. JS
10 Apr 2007	Physical condition	All 1.2 elephants (2702, 327, 12181) are draining from temporal glands. AK
14 Apr 2007	Human interaction	Kofi's pride from 7-9. 2 groups - about 40 people. Elephants (327, 12181) were not very compliant. MC
17 Apr 2007	Physical condition	Had loose stools in afternoon. Also seems to have a stomach ache. Did not eat PM grain. JS
20 Apr 2007	Medical note	1.2 elephants (2702, 327, 12181) received WNV vax. Fecal results were also negative. JS
21 Apr 2007	Enrichment note	Elm and hackberry browse to 1.2 elephants (2702, 327, 12181). JS
22 Apr 2007	Physical condition	Fungal intrusion #1 RR. Will monitor. MC
30 Apr 2007	Training note	Worked on "head down." Executed behavior differently, but cooperated well. AK
15 May 2007	Enrichment note	Bamboo and elm browse to 1.2 elephants (2702, 327, 12181). JS
18 May 2007	Medical treatment	1.2 elephants (2702, 327, 12181) and 1.1 rhinos (5590-1) received Tetanus / encephalitis vaccines. MC
27 May 2007	Enrichment note	Bamboo to 1.2 elephants (2702, 327, 12181). AK

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Report End Date
11/2/2007



7 Jun 2007	Enrichment note	Bamboo to 0.2 elephants (327, 12181). MS
17 Jun 2007	Enrichment note	Bamboo browse to 1.2 elephants (2702, 327, 12181). MC
25 Jun 2007	Physical condition	Bottom molars seem sharp-edged. Appetite is good. Will monitor. MS
2 Jul 2007	Physical condition	Checked teeth - look normal for her age. KAB
4 Jul 2007	Behavior note	0.2 Elephants (327, 12181) removed tumbuckle from pillar inside barn overnight. JS
13 Jul 2007	Enrichment note	Bamboo, cane, and mulberry browse to 1.2 elephants (2702, 327, 12181). JS
16 Jul 2007	Foot management	#1 nail abscess was examined by Dr. Kay. MC
17 Jul 2007	Medical treatment	Will receive treatment of Epson salt soak SID, pack with salt for first week, and nolvasan flush BID. KAB, JS
20 Aug 2007	Medical note	LR nails were checked by KAB. Advised to continue treatment. MC
27 Aug 2007	Research note	Blood drawn from 1.2 elephants (2702, 327, 12181) for "genetic defense against disease" study. MC
12 Sep 2007	Enrichment note	Bubble baths for 1.2 elephants (2702, 327, 12181). JS
8 Oct 2007	Enrichment note	Bamboo and banana trees to 1.2 elephants (2702, 327, 12181). AK

<u>Date</u>	<u>Enclosure</u>	<u>Reason</u>
10 Mar 1995	EL1	Moved to the new elephant facility. Had access to the entire facility for several days.
22 Nov 2003	EL2	Moved females 327, 12181 from EL1 to EL2, as there are plumbing problems with the main cow pool. JS
19 Sep 2004	EL2	Moved females 326, 12181 from EL1 to EL2, due to painting in EL1. JS

<u>Date</u>	<u>Sex</u>	<u>Comments</u>
16 Nov 1954	Female	

<u>Date</u>	<u>Rearing</u>	<u>Comments</u>
16 Nov 1954	Parent	

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