ELEPHAS MAXIMUS (no subsp)
Asiatic elephant
Name: RUTH
-

Sex: Female
Age: 55Y 11M 2D

Acc. \#: 5
Birth: 29.Oct. 1958

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    .2014...
    9.Jul Clinical note recorded. (LAC)
    15.Jul Clinical note recorded. (LAS)
    28.Jul Clinical note recorded. (LAC)
    3.Aug Clinical note recorded. (LAC)
    4.Aug Purpose/Problem: antibiotic
            Rx: SSD CREAM lb topically BID until further notice.
            Clinical note recorded. (IAC)
            6.Aug Clinical note recorded. (LAC)
            7.Aug Clinical note recorded. (LAC)
            12.Aug Purpose/Problem: antibiotic
            Rx: ENROFLOXACIN 6.35gm PO q48h for 14 days. (2 mg/kg)
            Clinical note recorded. (LAC)
    25.Aug Purpose/Problem: antibiotic
            Rx: ENROFLOXACIN 7000mg PO q72h for 14 days.
            Clinical note recorded. (LAC)
            3.Sep Purpose/Problem: antibiotic
            Rx: SSD CREAM topically SID until further notice.
            Clinical note recorded. (LAC)
    17.Sep Clinical note recorded. (LAC)
    24.Sep Clinical note recorded. (LAC)
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## Clinical Note:

9.Jul. 2014

Vet consult:
Dr. MM and Dr. KW came in to look at Ruth's tail today and they agree that with the current separation of tissue the distial portion does have the potential to fall off. Discussed different options for surgical removal and anesthisia. Have another consült with MR on Friday (7/11) to further discuss options.
Keeper cleaned the tail area for us so we could get a better look and there did appear to be a slight amount of inflammed area just above the demarcation, will keep a close eye on it.
It does appear thought that surgery to remove the tissue is the best option. (LAC)

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## Clinical Note:

Radiologist Report:
HISTORY
Consult Type: FILMINTERP, SIG: DOB: 7/15/1958, Age: 56 Y, Sex: F UNALTERED, Wt: 7500lbs, Breed: asian, Species: OTHER, Images: 10, Case Details: In January 2014 Ruth, a 54 year old asian elephant in good health suffered frostbite of her ears, vulva and tail. Over the next 6 months her
ears and tail have healed. However, the distal portion of her tail has become necrotic and clinically there is a clear demarkation of viable and nonviable
tissue (seen on radiograph at the level of distal vertebra 3-4). A surgical intervention is planned. We are submitting multiple views taken from
February 2014 to July 2014.
Questions; Where is the most distal radiographic evidence of Osteonecrosis? of osteomyelitis ?
The veterinary and elephant staff of the Buttonwood Park Zoo thank you for you help. Please feel free to contact me for more information. Findings
Tail: The two most current (7.7.14) views of the distal tail are compared to multiple studies dating back to 3.4.14. The current study indicates a marked
decrease in soft tissue thickness surrounding the most distal three coccygeal vertebrae and gas is likely present between the skin and coccygeal
vertebrae. These distal three coccygeal vertebrae are modeled and relatively radiolucent compared to the more proximal vertebrae. The 4th most
distal vertebra contains minor periosteal reaction and slight
mottling. This vertebra is surrounded by either surface dirt or decaying necrotic skin
causing the ring of superficial radiopaque material. The 5th most distal coccygeal vertebra appears normal.
Conclusion
Tail: The distal three coccygeal vertebrae appear non-viable/ischemic and the early stages of a similar process is suspected to be involving the 4th
most distal vertebra. The demarcation between viable and nonviable soft tissue is located level with the mid 4th most distal vertebra; the 5th most
distal vertebra appears viable as does the soft tissue surrounding it. The planned amputation of the tail should include four of the most distal

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## Clinical Note:

coccygeal vertebrae and one could even consider, to be safe, performing the amputation between the 5 th and 6 th most distal vertebrae.
Read By:
H. Mark Saunderis, VMD, MS, DACVR (LAS)

## Clinical Note:

28.Jul. 2014

Keepers are progressing on holding patient's tail up during training to help with possible procedure. Tail is at this time static from two weeks ago. Will continue to monitor and discuss with other vets. (I.AC)

## Clinical Note:

3.Aug. 2014

Keepers reported that patient ear tag has separated more. On exam the area separating from the healthy ear tissue is more than previous exams and the tissue in between is slightly swollen, but the tissue underneath appears to be very healthy.
Plan: Keepers to clean with chlorhex twice daily and finish with SSD cream. (I,AC)

Clinical Note:
4.Aug. 2014

Rx: SSD CREAM 1 b topically BID until further notice. (LAC)

Purpose: antibiotic
Prescription Data $\gg$
Starting date: 4.Aug.2014
Drug: SSD CREAM Ib topically BID until further notice
Formulation: cream Prescribed by: LAC (4.Aug.2014) Filled by: LAS (4.Aug.2014) Treatment weight: 3175 kg
Clinical response to treatment: Good
Comments $\gg$
Topical treatment: Āpply to to left ear tip

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## Clinical Note: <br> 6.Aug. 2014

Keepers called me out to barn in the early am to look at Ruth's ear with the skin tag.
Exam: the healthy tissue is much less swollen and there is less tissue holding the ear tag onto the normal tissue, but just enough that it won't come off.

Later in the morning both elephants were out for their walk and $I$ was able to look at the ear again. There was even less tissue holding it together and $I$ was able to manually remove the piece. The tissue under it looks very healthy and will likely heal great in the two days.
There was a very small amount of blood from where the tissue had still been adhered, but it stopped almost immediatley.
Plan: instructed keepers to wash the ear area off when they were
finished with the walk and put some SSD on it today. It should be fine
after that. (LAC)

## Clinical Note:

7.Aug. 2014

Survey feet rads:
Lateral radiographs of each of her feet were taken, nothing significant was found. Left and right rear radiographs were great quality, however the quality for the front feet was not as good, but detail of the proximal foot was decent.
With this being the first attempt with protected contact radiographs, re-do radiographs were not performed, but keepers and vet staff are continuing to train the behavior and radiographs will only get better! (LAC)

Clinical Note:
12.Aug. 2014

RX: ENROFLOXACIN 6.35 gm PO q48h for 14 days. (AH00652)
Recheck patient's ear today, there is greatly decreased swelling from where the scab was attached and it appears to be healing very well. Keepers to clean the area with water twice daily and apply SSD once at the end of the day. (LAC)

Purpose: antibiotic
Prescription Data >>
Starting date: 12.Aug. 2014
Drug: ENROFLOXACIN 6.35 gm PO 948 h for 14 days
Formulation: 68.00 mg tablet Bottle/Lot \#: AH00652
Prescribed by: LAC (12.Aug.2014) Filled by: LAS (12.Aug.2014)
Drug dosage: $2 \mathrm{mg} / \mathrm{kg}$ Treatment weight: 3175 kg
Clinical response to treatment: Good
Comments >>
Printed on: 30.Sep. 2014

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Prescription Record (continued) :
Tradename of drug used is BAYTRIL 60.
ENROFLOXACIN $=$ ENROFLOXACIN + STREPTOMYCIN SULFATE

Clinical Note:
25.Aug. 2014

Rx: ENROFLOXACIN 7000 mg PO q72h for 14 days. (ĀHO0652) (LAC)

Purpose: antibiotic
Prescription Data >>
Starting date: 25.Aug. 2014
Drug: ENROFLOXACIN 7000 mg PO $q 72 h$ for 14 days
Formulation: 68.00 mg tablet Bottle/Lot \#: AH00652
Prescribed by: LAC (25.Aug.2014) Filled by: LAS (25.Aug.2014)
Treatment weight: 3175 kg
Clinical response to treatment: Good
Comments $\gg$
Tradename of drug used is BAYTRIL 60.
ENROFIOXACIN = ENROFLOXACIN + STREPTOMYCIN SULFATE

## Clinical Note:

We have been slowly weaning Ruth off of systemic Baytril over the last month. As of today she is completely off of the oral antibiotics. Keepers are to continue with SDD, DMSO, Baytril mixture topically on tail.
Rx: SSD CREAM topically SID until further notice. (LAC)

Purpose: antibiotic
Prescription Data $\gg$
Starting date: 3.Sep. 2014
Drug: SSD CREAM topically sID until further notice
Formulation: cream
Prescribed by: LAC (4.Aug.2014) Filled by: LAS (4.Aug.2014) Treatment weight: 3175 kg
Clinical response to treatment: Good

## Comments >>

Printed on: 30.Sep. 2014
/ISIS/MEdARKS/5.54.h

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## Prescription Record (continued) :

Topical treatment: Apply to to tail.

## Clinical Note:

Tail is static with no advancement of the separation. (I,AC)

Clinical Note:
Tail is static with no advancement of the separation. (LAC)

Scientific name: exephas maximus Common Name: Asiatic elephant

## Scientific name: elephas maximus

 Common Name: Asiatic elephant|  |  | ISIS <br> Mean |  | lues S.D. | Min. | Max. | (N) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CPK | IU/L | 225 | $\pm$ | 170 | 23 | 1260 | (486) |
| OSMOLARITY | MOSMOL/L | 264 | $\pm$ | 29 | 0 | 325 | (98) |
| ALPHA GLOB. | MG/DI. | 250.4 | $\pm$ | 353.1 | 0.7 | 500.0 | (2) |
| ALPHA-1 GLOB | MG/DL | 0.8 | $\pm$ | 0.1 | 0.7 | 1.0 | (6) |
| ALPHA-2 GLOB | MG/DL | 0.9 | $\pm$ | 0.2 | 0.7 | 1.1 | (6) |
| BETA GİB. | MG/DI, | 1.0 | $\pm$ | 0.6 | 0.6 | 1.4 | (2) |
| Body Temperat | ture: | 36.3 | $\pm$ | 0.5 | 36.0 | 37.0 | (4) |
| CO2 | MMOL/L | 24.8 | $\pm$ | 4.0 | 15.8 | 37.0 | (230) |
| CORTISOL | UG/DL | 2.0 | $\pm$ | 1.0 | 0.5 | 5.4 | (35) |
| ESR | MM/HR | 98 | $\pm$ | 32 | 53 | 130 | (7) |
| FIBRINOGEN | MG/DL | 371 | $\pm$ | 181 | 0 | 810 | (238) |
| GGT | IU/L | 7 | $\pm$ | 5 | 0 | 33 | (314) |
| LIPASE | U/I. | 19 | $\pm$ | 30 | 0 | 127 | (53) |
| PROGESTERONE | NG/DL | 18.82 | $\pm$ | 62.45 | 0.020 | 346.0 | (379) |
| TESTOSTERONE | NG/ML | 20.34 | $\pm$ | 27.95 | 0.570 | 40.10 | (2) |
| A-TOCOPHEROL | UG/DL | 19 | $\pm$ | 15 | 0 | 42 | (8) |
| TOTAL T4 | MCG/DL | 10.0 | + | 2.7 | 4.2 | 12.6 | (10) |
| T3 UPTAKE | 응 | 28 | $\pm$ | 2 | 26 | 29 | (2) |
| AIBUMIN (E) | GM/DL | 4.1 | $\pm$ | 0.6 | 3.5 | 4.9 | (4) |
| GAMMA GLOB | GM/DL | 2.9 | $\pm$ | 2.9 | 0.0 | 9.0 | (11) |

