EXHIBIT 3

Iatrogenic Segmental Gangrene

2 pages

Still Photos of Ruth's Right Ear

3 photos

DISEASE SUMMARY PAGE

latrogenic Segmental Ear Gangrene in Elephants and Lagomorphs



| Silver and Alice of Miscollan | SummaryInformation |
|-------------------------------|--|
| Alternative Names | latrogenic sloughing of the ear |
| Disease Agents | In Elephants |
| | Irritant drugs inadvertently injected perivascularly when using the ear veins to give an intravenous injection. (B10.49.w21, J196.72.w1, P64.1.w2, W580.Aug2005.w1) |
| | In Lagomorphs |
| | Necrosis of the pinna tip or part of the ear can occur sometimes following: Catheterisation of the auricular vein or artery This may be due to phlebitis caused by administration of irritant solutions or medications; aggressive taping of the ear; or mechanical irritation due to the catheter itself. |
| | Injection of irritant drugs into the marginal ear vein Taking blood from the central auricular artery. |
| | (<u>B600</u> .3.w3, <u>B601</u> .2.w2, <u>B602</u> .14.w14, <u>B606</u> .17.w17) |
| | Non-infectious (s) - Non-infectious (s) - Agent(s) (s) (s) (s) (s) (s) (s) (s) (s) (s) |
| General | Physical/Agent(s) - |
| Description | Perivascular administration of some drugs when injecting into the ear veins may lead to necrosis and sloughing of the affected portion of the ear. (B10.49.w21, D301.3.w3, J196.72.w1, P64.1.w2, W580.Aug2005.w1) Segmental gangrene and sloughing of a portion of the ear has been recorded in two elephants following intravenous injection of phenylbutazone into the auricular vein. (J196.72.w1) Sloughing of the skin of the ear has been reported following injection of concentrated (5%) thiopental |

1:17-cv-11809-WGY Document 17-4 Filed 12/12/17 Page 3 of 6 sodium. (J329.10.w1, P64.1.w2) o Segmental gangrene and sloughing has been seen following injection of glucose into an ear vein. (B16.18.w18) Thrombophelbitis occurred in the ears of two elephants following injections of hypertonic calcium solution, leading to development of holes of 10 -25 cm diameter in the affected ears. (B214.3.7.w3) Clinical signs In Elephants • Phlebitis/thrombophlebitis at the injection site. (B214.3.7.w3, J196.72.w1) Necrosis and sloughing of the affected area of the ear. (B16.18.w18, <u>J196</u>.72.w1, <u>J329</u>.10.w1, <u>P64</u>.1.w2) In Lagomorphs Ischaemic necrosis, sloughing of the ear tip or part of the ear. (B600.3.w3, B601.2.w2, B602.14.w14, B606.17.w17) Prevention nformation In Elephants • Phenylbutazone should be given orally to elephants. (J196.72.w1) • In case of intravenous administration of irritant solutions, a dilute solution should be injected slowly into the ear vein via an intravenous catheter rather than a needle. (B10.49.w21, B23.77.w12, J196.72.w1, W580.Aug2005.w1) Use light sedation of the elephant to prevent the elephant from struggling or flapping its ears. (B10.49.w21, W580.Aug2005.w1) Alternatively, a leg vein may be chosen for injection rather than an ear vein. (B10.49.w21, D301.2.w2, W580.Aug2005.w1) In Lagomorphs • Care should be taken to avoid perivascular administration when injecting medications into this vein because many drugs are irritant and sloughing of the pinna may occur. (B606.17.w17) Associated Techniques Afterial Catheterization of Rabbits (Techniques) Antraverious injection and Catheterisation of Rabbits (Techniques) Environmental Assessment History & Documentation Physical Examination of Mammals Necropsy of Mammals Clinical Pathology of Lagomorphs Treatment and Care

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| | G |
|----------------------------|--|
| | Environmental and Population Management Preventative Medicine for Mammals Chapter 2 - B36 Field Manual of Wildlife Diseases - Specimen Collection and Preservation Chapter 3 - B36 Field Manual of Wildlife Diseases - Specimen shipment Appendix A - B36 Field Manual of Wildlife Diseases - Sample specimen history form |
| Host taxa groups | Further information on Host species has only been incorporated for |
| /species | species groups for which a full Wildpro "Health and Management" |
| PER PROPERTY. | module has been completed (i.e. for which a comprehensive |
| | |
| | literature review has been undertaken). Host species with further |
| | information available are listed below: |
| | Flankauta (Flankautidas Flankauta (Family)) |
| | Elephants (<u>Elephantidae - Elephants (Family)</u>) |
| | Elephas maximus - Asian Elephant |
| | Loxodonta africana - African Elephant |
| | Oryctolagus cuniculus domesticus - Domestic European |
| | rabbit |
| | |
| | (List does not contain all other species groups affected by this |
| | disease) |
| D. TOWNS THE STREET STREET | THE TAXABLE PROPERTY AND ADDRESS OF THE PROPERTY OF THE PROPER |
| Disease Author | DriDebra Bourne MA VetMB PhD MRCVS (V.W5) |
| Referees William | |

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