



Ministry of
Agriculture
and Lands

Animal Health Centre

AAVLD - Accredited Laboratory

Ministry of Agriculture and Lands
1767 Angus Campbell Road
Abbotsford BC V3G 2N9
Telephone: (604) 558-3003
Facsimile: (604) 558-3010
Toll-Free: 1-800-661-9639

Final Report AHC Case: 11-700

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Robert Leakos

Clinic: Wiebe & Leakos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: Hastings Park

Phone:

Fax:

Owner: Trainer: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed:

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

LF shoulder.

Horse ID: s.22

Trainer:

s.22

Owner:

Final Diagnosis

Final Diagnosis:

Left humeral fracture

Necropsy

One racehorse was submitted for necropsy. The horse exhibited instability of the left shoulder due to a non articular spiral fracture of the proximal humeral shaft. The right distal radius exhibited a resolving chip fracture on the anterior aspect of the intermediate facet. Joints were evaluated as per racehorse study protocol.



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Toll-Free: 1-800-661-9903

Final Report AHC Case: 11-921

Last Updated:

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: The HBPA of BC

Phone:

Fax:

Owner:

s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed:

Sex: G

Age: 3 Years

Premise ID:

Case History

Submitted one 3 year old s.22 gelding for post mortem.

Animal in distress at s.22 Administered Flunixin meglumine 10ml. s.22 pulse 100/min/
unable to rise, in shock. Euthanized with T61 s.22

Animal ID: s.22

Final Diagnosis

Final Diagnosis:

Ruptured ileal ulcer with marked acute septic peritonitis

Comment:

Perforated ileal ulcer with severe secondary septic peritonitis was the immediate cause of the profound distress and shock. The distal ileum was an unusual location for a perforating ulcer especially in light of the lack of other gastrointestinal pathology. Gastrointestinal ulceration in the horse is most commonly associated with peptic ulcer disease involving areas of the gastrointestinal tract which are exposed to acid. Thus, these ulcers are usually observed in the stomach and to a lesser extent the duodenum.

Why the ileum ulcerated and perforated in this horse is unclear. There was no evidence of endoparasitism, foreign body, obstruction, impaction or any significant inflammatory disease within the ileum or remaining intestinal tract. This unusual lesion has been reported previously in a horse for which no underlying cause could be found (White and Mair (2008), Equine Veterinary Education, 20(3):142-147).

Necropsy

One 3 year old gelding Thoroughbred horse was received for necropsy. The horse was in good body condition and advanced autolysis. Upon opening the abdominal cavity, copious serosanguineous fluid flecked with fibrin and ingesta was observed. There was a 2 to 3 inch diameter full thickness ruptured ulcer in the ileum approximately 4 inches proximal to the ileocecal junction. The ileal wall immediately surrounding the site of the rupture exhibited marked subcutaneous edema and congestion and measured about 1 cm in depth. The remainder of the ileum and the intestinal tract exhibited no significant gross abnormalities.

Fetlock joints were evaluated as per racehorse protocol.

Joint scores (distal articular surface of 3rd metacarpus and metatarsus):

Joint	WL	PA	CE
LF	0	1	0
RF	0	1	0
LH	0	1	0
RH	0	0	0

WL= wear lines

PA = palmar arthrosis

CE = cartilage erosion

History of Communication

Date	To	Description
s.22	Wiebe & Lealos Vet.Ser. - e-mail	bc report generated



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Telephone : (604) 556-3003
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Toll-Free : 1-800-661-9903

Final Report AHC Case: 11-1095

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date: s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: HBPA of BC

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

Horse galloped 5/8 mile and dropped pulling up. Not euthanized. Dead on examination. Animal is insured. Animal ID: s.22 Racehorse.

Final Diagnosis

Final Diagnosis:

Marked pulmonary congestion and edema with moderate to marked intra-alveolar and interstitial hemorrhage

Comment:

The marked pulmonary edema and congestion with hemorrhage was severe and is the presumed immediate cause of death. No other pathological process was observed. There was no evidence of an underlying disease process which would explain the acute death. It is unclear what triggered the pulmonary reaction.

Necropsy

One Thoroughbred gelding was received for necropsy. The gelding was in good body condition with congestion of the oral mucous membranes. s.22 was noted. There was a marked degree of stable hemorrhagic froth in the tracheobronchial tree throughout the lung field. Lungs exhibited marked congestion and purplish dark red discoloration on pleural surface with widespread petechiation of the pleura and mediastinum. On cut surface pulmonary parenchyma was purplish dark red in colour with blood oozing from the surface and hemorrhagic froth is seen from airways. The discoloration affected approximately 90% of the lung field with sparing of the ventral margins of the diaphragmatic lobes. The spleen was shrunken. There was chronic chip fracture on the distal anterior aspect of the right intermediate carpal bone. No other gross abnormalities were noted.

Gross diagnosis:

Severe pulmonary congestion and edema

Joint scores (distal articular surface of 3rd metacarpus and metatarsus):

Joint	WL	PA	CE
LF	1	1	0
RF	0	2	0
LH	0	1	0
RH	0	1	0

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

Histopathology

Bronchial lymph node: There is marked transudative red blood cells across the node.

Lung: There is moderate to marked pleural edema with moderate to marked generalized congestion and scattered foci of marked alveolar hemorrhage. Marked interlobular hemorrhage is observed in several sections as well.

Thyroid gland, liver, heart, brain: No significant lesions.

Bacteriology

Aerobic Culture - Comp Resulted by: Erin Zabek Verified by: Sean Byrne on
AM

s.22

Specimen	ID	Isolate	Result	Level
Lung			No Bacteria Isolated	
Liver			No Bacteria Isolated	
Spleen			No Bacteria Isolated	

History of Communication

Date

To

Description

s.22

Wiebe & Lealos Vet.Ser. - e-mail

bc report generated



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Final Report AHC Case: 11-1099

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date: s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: HBPA of BC

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

Enlargement of lateral right metacarpus / medial left metacarpus and lateral left metatarsus of 6 months duration. Continue to enlarge and now causing unsoundness. Radiographs show starburst, lobulated, calcified masses. Incidental severe lesions on radiographs of proximal left tibia.

Requested histopathology of lesions.

Euthanized: T61. DOD: s.22
osteosarcoma or hemangiosarcoma.

Clinical diagnosis:

Final Diagnosis

Final Diagnosis:

Multiple marked chronic periosteal exostoses of right fore, left fore and left hind cannon bones

Comment:

The bony outgrowths on the cannon bones were benign subperiosteal proliferations of new bone unrelated to the growth plates of the affected bones. This pattern of bone growth is most suggestive of a reactive lesion to periosteal trauma or long standing edema. No underlying evidence of bone trauma or bone pathology was found. The lesions are not interpreted to be malignant. These lesions

differ from equine multiple cartilaginous exostoses, an uncommon heritable bone disease of horses, in that there is no significant cartilage capping of the bony proliferations nor is there a connection with the growth plate of affected bones or continuation of the marrow cavity from the long bone to the exostoses. No evidence of lung pathology was found to suggest that the exostoses represent hypertrophic pulmonary osteopathy.

Necropsy

One equine gelding was received for necropsy. The horse exhibited firm bony swellings on the posterior, lateral and medial right third metacarpal bone ranging in size from 2" x 3" to 3" x 5" with medial displacement of the flexor tendons. There was a firm bony swelling measuring about 2 x 3" on the medial left third metacarpal bone and another on the lateral left third metatarsal bone, neither of which was interfering with the flexor tendons. On incision these swellings were composed of dense solid subperiosteal bone continuous with the underlying cortical bone.

No internal abnormalities were noted in the horse and no other abnormalities of the limbs were noted. Joints were examined and photographed as per the racehorse protocol.

Joint Scores (distal third metacarpal and metatarsal bones):

Joint	WL	PA	CE
LF	0	0	1
RF	0	0	1
LH	0	0	0
RH	0	1	0

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

Histopathology

Lung: No significant lesions.

Legs: All lesions examined from all affected limbs exhibit similar findings. The bony growths noted clinically are composed of mature trabecular bone extending in a perpendicular fashion from the cortical surface of the metacarpal and metatarsal diaphyseal cortex to the overlying periosteum.

History of Communication



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Final Report AHC Case: 11-1376

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: The HBPA of BC

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex: M

Age:

Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

RF abscessed foot 6 months ago. Laminitis chronic. Lameness chronic. Euthanized with T61 s.22

s.22

Animal ID: s.22

Final Diagnosis

Final diagnosis:

Marked chronic laminitis, left fore foot

Necropsy

One Thoroughbred gelding, s.22 was received for necropsy. The horse was in good body condition with a horizontal cleft in the anterior aspect of the right fore hoof wall about midway between the coronet and the bottom of the hoof. The wall above the cleft projected out above the level of the lower hoof wall in a smooth arc from the cleft to the coronet. Bisection of the right fore hoof revealed mild thickening of the laminae with the overlying hoof wall corresponding to the projection observed externally. The white line deviated posteriorly at the anterior tip of P3.

The left fore foot exhibited a slightly dropped sole on external examination and on bisection was found to have rotation of P3 with marked chronic thickening of the laminae.

Joints were evaluated as per the racehorse protocol and joint scoring of the distal third metacarpal and metatarsal bones is reported below. A chronic chip fracture of the anteromedial aspect of the right hind P3 was observed.

Joint	WL	PA	CE
LF	0	1	0
RF	0	1	0
LH	1	2	0
RH	0	0	0

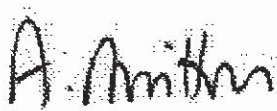
WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Final Report AHC Case: 11-1407

Last Updated:

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: Hastings Park

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

Went down working s.22 RF tendons and suspensory torn. Not weight bearing. Euthanized T 61.

Animal ID: s.22

Final Diagnosis

Final diagnosis:

Right mid-shaft humeral fracture

Necropsy

One Thoroughbred horse was received for necropsy. The horse was in good body condition with instability of the upper right foreleg. There was a midshaft humeral fracture on the right side. Suspensory ligament and flexor tendons on the right foreleg exhibited no significant abnormalities. Joints were photographed and the distal articular surfaces of all metacarpal and metatarsal 3 bones were scored as per the racehorse protocol.

Joint	WL	PA	CE
LF	0	0	0
RF	0	0	0
LH	0	0	0
RH	0	0	0

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

History of Communication

Date

s.22

To

The HBPA of BC - e-mail

Description

bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Final Report AHC Case: 11-1607

Last Updated: s.22
Pathologist: Stephen Raverty, DVM
Received Date: s.22
Collected Date: s.22
Client Ref No:

Veterinarian: Dr. Edward Wiebe
Clinic: Wiebe & Lealos Vet.Ser.
Phone: (604) 533-3966
Fax: (604) 533-4320

Submitter: Hastings Park
Phone:
Fax:
Owner: Trainer: s.22
Phone:
Fax:

Animal Data
Species: Equine
Breed:
Sex:
Age:
Premise ID:

Case History

Submitted one equine for post mortem.

Ataxia. EPM, WNV, dull, listless. Ataxia for one month duration. Owner requested euthanasia.

Owner: s.22
Trainer: s.22
Tattoo: s.22
Animal ID: s.22

Final Diagnosis

MORPHOLOGIC DIAGNOSIS:

1). Calverium, right caudal aspect: Presumptive choristoma, curvilinear and cylindrical with compression and displacement of adjoining brain tissue and secondary hydrocephaly

2). Brain: Edema, moderate, multifocal to coalescing, subacute

There are no significant lesions within the peripheral nerves, peripheral vasculature, adipose tissue, liver, intestine, skeletal muscle, thyroid gland, tongue, heart, or spinal cord.

COMMENTS:

Histopathology of the mass was suggestive of a possible choristoma, a benign congenital anomaly associated with heteropic rests. Additional recuts will be forwarded for outside consultation and an addendum to follow, if informative. The mass was likely spontaneous, sufficiently severe to account for the antemortem clinical signs and would not have any significant clinical consequence to in contact animals. Aerobic culture of the brain yielded a few *Streptococcus* sp and *Actinobacilli equuli* subsp *haemolyticus*, which are not considered pathologically significant and PCR proved negative for west Nile virus and equine protozoal myelitis.

Necropsy**GROSS FINDINGS:**

An adult horse, s.22 is presented euthanized, s.22 in good body and post mortem condition. The animal is well fleshed. There is a moderate amount of ingesta within the stomach and throughout the small and large intestines. Within the right caudal portion of the skull, emanating from the ear and protruding up to 4 cm, is a 1.0-1.5 cm curvilinear cylindrical mass, there is a bony proliferation which peripherally displaces and compresses the adjoining brain tissue. There is marked internal hydrocephaly. There are no other significant gross internal or external lesions.

COMMENTS:

The bony protrusion within the right caudal aspect of the cerebellum most likely represents a benign neoplasm. Due to prolonged growth, compression and displacement of the adjoining brain tissue, there was likely partial obstruction of the central canal with secondary accumulation of cerebrospinal fluid within the lateral ventricles. This process would have been sufficiently severe to account for the antemortem clinical signs. Further evaluation is pending histopathology and ancillary studies.

GROSS DIAGNOSIS:

1). Calverium, right caudal aspect: Mass, curvilinear and cylindrical with compression and displacement of adjoining brain tissue and secondary hydrocephaly.

PENDING:

Histopathology

Aerobic culture

Spinal cord, PCR for *Sarcocystis neurona* and WNV

Histopathology

Refer to Morphologic Diagnosis.

Bacteriology

Aerobic Culture - Comp Resulted by: Erin Zabek Verified by: Sean Byrne on s.22 @ 11:07 AM

Specimen	ID	Isolate	Result	Level
Brain		Actinobacillus sp.	Positive	Few
Brain		Streptococcus sp. (alpha)	Positive	Few
Brain		A equuli subsp. haemolyticus	Positive	Few

Molecular Diagnostics

Sarcocystis neurona Resulted by: Julie Bidulka Verified by: A Scouras on s.22

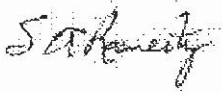
Specimen	ID	Test	Result	
Tissue	sp. cord & brain	Sarcocystis neurona	Negative	
**: Test validation in progress.				

West Nile virus Resulted by: A Scouras Verified by: Dr. J. Robinson on s.22

Specimen	ID	Test	Result
Tissue	sp. cord & brain	West Nile virus	Negative

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



Stephen Raverly, DVM
Stephen.Raverly@gov.bc.ca

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Final Report AHC Case: 11-1866

Last Updated:

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date:

Client Ref No:

s.22

Veterinarian:

Clinic:

Phone:

Fax:

Submitter: The HBPA of BC

Phone:

Fax:

Owner:

Phone:

Fax:

s.22

Animal Data

Species: Equine

Breed: Thoroughbred

Sex:

Age:

Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

Fell 3/8 pole during race. Unable to rise. Obvious fracture distal femur LH. Euthanized with T-61.
Bone injury - femur, tibia. Musculoskeletal - LH.

Animal ID:

s.22

Final Diagnosis

Final Diagnosis:

Left mid shaft comminuted tibial fracture

Necropsy

One Thoroughbred gelding was received for necropsy. The gelding exhibited marked swelling and abnormal angulation of the left hind leg above the hock. There was marked subcutaneous and intermuscular hemorrhage over the left gaskin with fracture of the underlying tibia extending from distal to the crest to proximal to the hock joint. The tibial fracture exhibited multiple variably sized, but predominantly large longitudinal, bone fragments.

Fetlock joints (metacarpal and metatarsal 3 bones) were evaluated as per the racehorse protocol as follows:

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

Joint	WL	PA	CE
LF	2	1	1
RF	2	1	0
LH	1	1	0
RH	0	1	0

History of Communication

Date


s.22

To

The HBPA of BC - e-mail

Description

hc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Toll-Free : 1-800-661-9903

Final Report AHC Case: 11-1865

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: The HBPA of BC

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex: M

Age: 2 Years

Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

Chronic lameness. Bad conformation. Elective euthanasia with T61 . s.22

Animal ID: s.22

Final Diagnosis

Final Diagnosis:

Chronic left lateral radial articular fracture

Necropsy

One Thoroughbred gelding was received for necropsy. The gelding exhibited swelling of fetlock joints and left carpus associated with increased serous fluid in the joint cavities. The lateral aspect of the left distal articular surface of the radius (styloid process) exhibited a condylar type fracture with several small round smooth articular bone fragments firmly attached to the main fragment. Fibrous connective spanned the space between the main bone fragment and the shaft of the radius mediating limited movement of the fracture site on manual manipulation. The joint capsule was thickened over the fracture area and adherent to the adjacent bone. There was cartilage roughening and erosion of the anterior aspect of the intermediate facet and to a lesser extent the medial facet of

the left radius. Wear lines were visible in the left radial articular cartilage.

Fetlock joints (metacarpal and metatarsal 3 bones) were evaluated as per the racehorse protocol as follows:

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

Joint	WL	PA	CE
LF	3	2	0
RF	3	2	0
LH	0	1	0
RH	2	1	0

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Abbotsford BC V3G 2M3
Telephone: (604) 556-3003
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Final Report AHC Case: 11-2016

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date: s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: HBPA

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex: F

Age: 9 Years

Premise ID:

Case History

Submitted one equine for post mortem.

Worked 48 hrs ago. 4/5 lame LII. Fractured tibia this am.

Animal ID: s.22

Treatments: anti-inflammatories: Flunixin/Butazone. Euthanized: T61.

Final Diagnosis

Final Diagnosis:

Left tibial spiral fracture

Necropsy

One 2 year old Thoroughbred filly was received for necropsy. The filly was in good body condition with an abrasion on the anterior aspect of the distal left stifle. Palpation of the left tibia revealed instability and there was marked intramuscular hemorrhage. The tibial shaft was fractured into several large and small fragments extending in a spiral fashion from the medial aspect of the diaphysis to the lateral aspect of the metaphysis at about the level of the tip of the fibula. Both carpi exhibited increased joint fluid with synovial hyperplasia. There was mild cartilage erosion of the proximal surface of right carpal bone 3. Fetlock joints were evaluated as per the racehorse protocol. Distal metacarpal and metatarsal 3 articular surfaces were scored for wear lines (WL), cartilage

erosion (CE) and palmar arthrosis (PA).

Joint	WL	PA	CE
LF	0	0	0
RF	0	0	0
LH	0	0	0
RH	0	0	0

History of Communication

Date

s.22

To

The HBPA of BC - e-mail

Description

bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Telephone: (604) 556-3003
Facsimile: (604) 556-3010
Toll-Free: 1-800-661-9933

Final Report AHC Case: 11-2221

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: The HBPA of BC

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex: F

Age: 9 Years

Premise ID:

Case History

Submitted one Thoroughbred horse for post mortem.

Galloping and fractured. Euthanized with T61 s.22

Animal ID: s.22

Final Diagnosis

Final Diagnosis:

Compound comminuted condylar and metaphyseal fracture of distal right metacarpal 3 bone

Necropsy

One 2 year old female Thoroughbred horse was received for necropsy. The right distal foreleg dangled distal to perforation of the broken end of the metacarpal 3 bone through the skin on the anterior aspect of the leg. The metaphysis of the right third metacarpal bone exhibited fracture into multiple variably sized bone fragments with one fracture line extending distally through the medial physis and epiphysis to the articular surface. There was marked surrounding hemorrhage. Joints were evaluated as per the racehorse protocol and photographed. Joint scores of MC3 and MT3 are as follows:

Joint	WL	PA	CE
LF	0	1	0
RF	0	1	0
LH	0	0	0
RH	0	0	0

WL= wear lines

PA = palmar arthrosis

CE = cartilage erosion

History of Communication

Date	To	Description
	The HBPA of BC - e-mail	bc report sent
s.22	Wiebe & Lealos Vet.Ser. - e-mail	bc report sent
	The HBPA of BC - e-mail	bc report sent



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Ann.P.Britton@gov.bc.ca

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Facsimile: (604) 556-3010
Toll-Free: 1-800-661-9903

Final Report AHC Case: 11-2283

Last Updated: s.22
Pathologist: Stephen Raverty, DVM
Received Date: s.22
Collected Date:
Client Ref No:

Veterinarian: Dr. Edward Wiebe
Clinic: Wiebe & Lealos Vet.Ser.
Phone: (604) 533-3966
Fax: (604) 533-4320

Submitter: The HBPA of BC
Phone:
Fax:
Owner: Trainer: s.22
Phone:
Fax:

Animal Data
Species: Equine
Breed:
Sex:
Age:
Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

s.22 - tied up in stall - episode of "fainting". Fell against stall wall. 4/5 lame RH immediately after, swelling and visibly displaced ilium. s.22 - 3/5 lame, crepitus in ilial area. Fractured tuber coxae right side. Owner elected euthanasia. Euthanized with T61 on s.22

Animal ID: s.22

Final Diagnosis

MORPHOLOGIC DIAGNOSIS:

1). Pelvis, right iliac crest: Fracture, comminuted, severe, subacute, with moderate displacement of bone fragments, extensive subcutaneous and periosteal hemorrhage, and edema fluid

Necropsy

GROSS FINDINGS:

An adult horse, s.22 is presented euthanized, s.22 in good body and post mortem condition. At the distal third of the right iliac crest, there is a transverse fracture with marked displacement of bone fractures and extensive periosteal hemorrhage which tracks

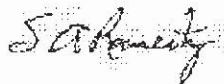
dependent along multiple fascial planes. Circumferentially extending from the stifle there is extensive subcutaneous edema fluid and hemorrhage. There are no other significant gross internal or external lesions.

COMMENTS:

Gross examination confirmed the clinical diagnosis of a closed comminuted fracture of the right ileal crest. The injury is considered spontaneous.

History of Communication

Date	To	Description
	The IIBPA of BC - e-mail	bc report sent
s.22	Wiebe & Lealos Vet.Ser. - e-mail	bc report sent
	Wiebe & Lealos Vet.Ser. - e-mail	bc report sent
	The HBPA of BC - e-mail	bc report sent



Stephen Raverty, DVM
Stephen.Raverty@gov.bc.ca

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Toll-Free : 1-800-661-5909

Final Report AHC Case: 11-2685

Last Updated

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Veterinarian: Dr. Robert Lealos

Received Date:

Clinic: Wiebe & Lealos Vet.Ser.

Collected Date:

s.22

Phone: (604) 533-3966

Client Ref No:

Fax: (604) 533-4320

Submitter: Hastings Park

Animal Data

Phone:

Species: Equine

Fax:

Breed: Thoroughbred

Owner:

s.22

Sex: F

Phone:

Age: 2 Years

Fax:

Premise ID:

Case History

Submitted one equine for post mortem.

Working 3/8 this morning. Fell, non-weight bearing RF. Suspect humerus. Euthanized T-61

Animal ID:

s.22

Trainer:

s.22

Tattoo:

s.22

Final Diagnosis

Final Diagnosis:

Comminuted articular fracture of right scapula

Necropsy

One Thoroughbred filly was received for necropsy. The horse was in good body condition with laxity of the upper right shoulder area. There was a comminuted articular fracture of the right scapula extending from the glenoid fossa to the midshaft area and involving the scapular spine. Fetlock joints were evaluated as per the racehorse protocol as follows:

Joint	WL	PA	CE
LF	0	0	0
RF	0	1	0
LH	0	1	2
RH	0	1	0

WL = wear lines

PA = palmar arthrosis

CR = cartilage erosion

History of Communication

Date

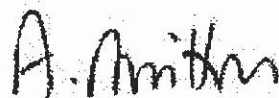
s.22

To

The HBPA of BC - e-mail

Description

bc report sent



Ann Britton, DVM, MSc, PhD

Ann.P.Britton@gov.bc.ca

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Facsimile: (604) 556-3071
Toll-Free: 1-800-651-9900

Final Report AHC Case: 11-3005

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Robert Lealos

Clinic: EJ Wiebe and Associates

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: Hastings Park

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed:

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

Single limb (RF), carpal

Animal ID: s.22

Trainer: s.22

Tattoo: s.22

Final Diagnosis

Final Diagnosis:

Right distal radial carpal chip fracture

Necropsy

One Thoroughbred racehorse was received for necropsy. The horse was in good body condition with chip fracture of the distal anterior aspect of the radial carpal bone. Distal metacarpal and metatarsal joint surfaces were evaluated as per the racehorse protocol as follows:

Joint	WL	PA	CE
LF	0	1	0
RF	1	1	0
LH	0	1	0
RH	0	1	0

WL = wear lines

PA = palmar arthrosis

CE = cartilage erosion

History of Communication

Date	To	Description
	EJ Wiebe and Associates - fax	bc report sent
	The HBPA of BC - e-mail	bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Toll-Free : 1-800-661-9905

Final Report AHC Case: 11-3257

Last Updated: s.22

Pathologist: Stephen Raverty, DVM

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Edward Wiebe

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: Hastings Park

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex: G

Age: 8 Years

Premise ID:

Case History

Submitted one equine for post mortem.

Febrile seven day ago. Antibiotics/phenylbutazole. Profuse diarrhea for 3 days, progressive to shock state. Euthanized T61 at 6:30pm on s.22

Animal ID: s.22

Final Diagnosis

MORPHOLOGIC DIAGNOSES:

- 1). Stomach and colon: Ulcerations, marked, multifocal to coalescing, subacute with pronounced accumulation of fluid ingesta throughout the small and large intestines (possible ileus) and ascites (Gross diagnosis)
- 2). Stomach: Erosions, moderate, multifocal with fibroplasia and pyogranulomatous infiltrate, submucosal edema and acute hemorrhage
- 3). Kidney: Congestion, cortical, moderate, diffuse with multifocal tubuloproteinosis
- 4). Colon: Colitis, moderate, multifocal, lymphoplasmacytic and fibrosing with erosions and glandular blunting and fusion

- 5). Liver: Cholangiohepatitis, moderate, multifocal, subacute with biliary ductular hyperplasia and scattered periductular fibrosis
- 6). Liver: Congestion, sinusoidal, centrilobular to midzonal, moderate, diffuse
- 7). Peripheral vasculature: Presumptive leukocytosis, moderate, multifocal, neutrophilic and mononuclear
- 8). Adrenal gland: Necrosis, moderate, focal, with scattered acute hemorrhage and abundant dystrophic mineral deposition
- 9). Heart: Edema, subepicardial, mild, focal, acute
- 10). Lung: Edema, bronchoalveolar, mild to moderate, multifocal, acute

There are no overt lesions within the peripheral nerves, adipose tissue or skeletal muscle.

COMMENTS:

The grossly noted gastric and colonic ulcers are borne microscopically and based on the nature of the inflammatory infiltrate, the process would have been chronic and likely ongoing. There were no discernible pathogens associated with the ulcers and an iatrogenic response to NSAIDs may be a consideration. The cholangiohepatitis is consistent with an ascending infection from the bowel, likely due to disruption of the mucosa and the multisystemic congestion and edema, adrenocortical necrosis and presumptive leukocytosis are considered sequelae to sepsis. No *Salmonella* were recovered from the bowel and the heavy mixed growth likely represents normal flora.

Necropsy

GROSS FINDINGS:

An 8 year old gelding Thoroughbred horse is presented euthanized s.22 in moderate body and good post mortem condition. The animal is moderately well fleshed and there is mild tackiness (dehydration) of the mucous membranes and subcutis. The stomach is moderately distended with gas and dark green brown fluid ingesta. Throughout the nonglandular compartment, approximately 1-2 cm distal to the margo plicatus, there are numerous 2-3 cm diameter mucosal ulcers with prominent serpiginous to curvilinear and occasionally crenated, raised and rolling mucosal margins that undermine the lateral borders of the defect. Multifocally along the entire length of the dorsal and ventral colons, there are scattered erosions and ulcers, which are occasionally hemorrhagic. There is abundant slightly opaque yellow brown fluid chyme with a small amount of gas throughout the small intestine and the ventral and dorsal colons are moderately distended by dark green fluid ingesta. The mucosa is overlaid by a fine margin of green mucus. There is moderate enlargement of the mesenteric lymph nodes which are grey white and glistening on sectioned surfaces. There are no other apparent, gross internal or external lesions.

COMMENTS:

The grossly noted gastric and colonic ulcers are significant and the intestinal fluid contents are consistent with ileus, although low grade enteritis cannot be entirely discounted. Further evaluation is pending histopathology and ancillary studies.

GROSS DIAGNOSES:

1). Stomach and colon: Ulcerations, marked, multifocal to coalescing, subacute with pronounced accumulation of fluid ingesta throughout the small and large intestines (possible ileus) and ascites

PENDING:

Histopathology

Microbiology

Histopathology

Refer to Morphologic Diagnoses

Bacteriology

Aerobic Culture - Comp Resulted by: Erin Zabek Verified by: Sean Byrne on
AM

s.22

Specimen	ID	Isolate	Result	Level
Lung		E.coli (non-haemolytic)	Positive	4+
Spleen			No Bacteria Isolated	
Small Intestine		E.coli (non-haemolytic)	Positive	4+
Small Intestine		Klebsiella sp.	Positive	4+
Small Intestine		Proteus sp.	Positive	
Colon		E.coli (non-haemolytic)	Positive	4+
Colon		Klebsiella sp.	Positive	4+
Colon		Escherichia fergusonii	Positive	4+
Colon		Actinobacillus sp.	Positive	4+

Culture - Salmonella Resulted by: Erin Zabek Verified by: Sean Byrne on

s.22

Specimen	ID	Isolate	Result	Level
Small Intestine			No Salmonella sp. Isolated	
Colon			No Salmonella sp. Isolated	

History of Communication

Date

To

Description

Wiebe & Lealos Vet.Ser. - e-mail

bc report sent

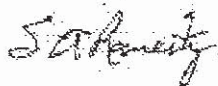
s.22

The HBPA of BC - e-mail

bc report sent

The HBPA of BC - e-mail

bc report sent



Stephen Raverty, DVM
Stephen.Raverty@gov.bc.ca



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Animal Health Centre

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Facsimile: (604) 556-3010
Toll-Free: 1-800-661-9923

Final Report AHC Case: 11-3345

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date:

Collected Date: s.22

Client Ref No:

Veterinarian: Dr. Robert Lealos

Clinic: Wiebe & Lealos Vet.Ser.

Phone: (604) 533-3966

Fax: (604) 533-4320

Submitter: Hastings Park

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed: Thoroughbred

Sex:

Age:

Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

Musculoskeletal - right front limb. Small bones (both).

Animal ID: s.22

Note: Dr. Lealos will call with additional information. 1:30 pm: Dr. Lealos said that the horse broken down today working.

Final Diagnosis

Final Diagnosis:

Right fore bilateral proximal sesamoid fracture

Necropsy

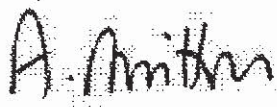
One Thoroughbred racehorse with s.22 was received for necropsy. The horse was in good body condition with swelling of the right fore fetlock. There was a bilateral apical non-displaced fracture of the proximal right fore sesamoids.

Joints were evaluated as per the racehorse protocol below:

Joint	WL	PA	CE
LF	0	1	1
RF	1	1	0
LH	0	1	0
RH	2	1	0

History of Communication

Date	To	Description
s.22	Wiebe & Lealos Vet.Ser. - e-mail	bc report sent
	The HBPA of BC - e-mail	bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Toll-Free : 1-800-661-9933

Final Report AHC Case: 11-3371

Last Updated:	s.22	
Pathologist:	Ann Britton, DVM, MSc, PhD	Veterinarian: Dr. Joanne Weetman
Received Date:	s.22	Clinic:
Collected Date:		Phone:
Client Ref No:		Fax:
Submitter:	Hastings Park	Animal Data
Phone:		Species:
Fax:		Breed:
Owner:	s.22	Sex:
Phone:		Age:
Fax:		Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

Fell in race at 1/16 pole. Non-weight bearing RF, severe instability at fetlock. Euthanized with T-61.
Musculoskeletal: RF. Large bone (s) - cannon-condylar? P1 (long pastern)?

Animal ID: s.22

Final Diagnosis

Final Diagnosis:

Right fore medial proximal sesamoid fracture

Necropsy

One thoroughbred filly was recieved for necropsy. The horse was in good body condition with marked autolysis. There was swelling of the right fore fetlock. There as an oblique fracture of the medial sesamoid without displacement.

Joints were evaluated as per the race horse protocol:

Joint	WL	PA	CE
LF	0	0	1
RF	0	N/A	0
LH	0	0	0
RH	0	0	0

Joints were markedly discoloured red due to autolysis and palmar arthrosis could not be assessed in the right fore fetlock as a result.

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



Ann Britton, DVM, MSc, PhD
Ann.P.Britton@gov.bc.ca

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Final Report AHC Case: 11-3532

Last Updated:

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Veterinarian: Dr. Edward Wiebe

Received Date:

Clinic: Wiebe & Lealos Vet.Ser.

Collected Date:

s.22

Phone: (604) 533-3966

Client Ref No:

Fax: (604) 533-4320

Submitter: Hastings Park

Animal Data

Phone:

Species: Pony X

Fax:

Breed:

Owner:

s.21

Sex:

Phone:

Age: Adult

Fax:

Premise ID:

Case History

Submitted one aged Pony for post mortem.

Colic 5:30 am. Rx analgesics - Flunixin, Torbugesic dormosodran. Oil one gallon nasogastric tube. Symptoms: progressive - more severe to recumbency. Pleasure horse. Euthanized 12:30 pm T-61.

Animal ID: s.22

Final Diagnosis

Final Diagnosis:

Mesocolonic tear with secondary jejunal entrapment

Comment:

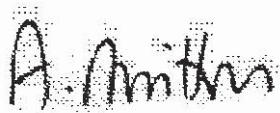
It is unclear how the pony came to develop a tear in the mesocolon. No other abnormalities were found at the time of gross post mortem other than the jejunal entrapment. The ingesta within the large colon was semimoist but not as inspissated as one would observe with an impaction. Thus impaction is not suspected as a contributing factor in this case.

Necropsy

One mature pony gelding was received for necropsy. The oral mucous membranes were markedly injected. The cecum was displaced ventrally with dorsal displacement of the left ventral and dorsal colon. Content in the colon was semimoist. There was marked tearing of the omentum with small bowel loops disorganized within the abdomen and a tight band felt below the root of the mesentery deep in the abdomen. Exploration of the band lead to the discovery of a 6 cm tear in the mesocolon at the level of the junction of the transverse and small colon. Approximately 15 feet of jejunum was entrapped within the mesocolonic tear and situated dorsal and to the right of the cecum. Entrapped jejunum was discoloured dark red black and content was hemorrhagic.

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



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Final Report AHC Case: 11-3531

Last Updated:

s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Veterinarian: Dr. Joanne Weetman

Received Date:

s.22

Clinic:

Collected Date:

Phone:

Client Ref No:

Fax:

Submitter: Hastings Park

Animal Data

Phone:

Species: Equine

Fax:

Breed: Thoroughbred

Owner:

s.22

Sex:

Phone:

Age:

Fax:

Premise ID:

Case History

Submitted one Thoroughbred for post mortem.

Fell in race 3/8 pole. Open fracture RF. Euthanized T-61.

Musculoskeletal - RF. Large bone - cannon - other.

Animal ID:

s.22

Final Diagnosis

Final diagnosis:

Compound comminuted midshaft fracture of right metacarpal 3 bone

Chip fractures, first phalanges, right and left fore fetlocks

Necropsy

One Thoroughbred racehorse was received for necropsy. The horse was in good body condition with compound comminuted midshaft fracture of the right metacarpal 3 bone. Bilateral chip fractures of the anterior aspect of the proximal right fore first phalanx and medial chip fracture of the medial anterior aspect of the proximal left fore first phalanx were observed.

Joints were examined as per the racehorse protocol as follows:

Joint	WL	PA	CE
LF	0	0	0
RF	1	0	0
LH	0	0	0
RH	0	0	1

History of Communication

Date

s.22

To

Weetman, Dr. Joanne - e-mail

Description

bc report sent



Ann Britton, DVM, MSc, PhD

Ann.P.Britton@gov.bc.ca

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Ministry of Agriculture
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Final Report AHC Case: 11-3625

Last Updated: s.22

Pathologist: Ann Britton, DVM, MSc, PhD

Received Date: s.22

Collected Date:

Client Ref No:

Veterinarian: Dr. Mario Trillo

Clinic: Trillo, Dr. Mario

Phone: (604) 534-3299

Fax: (604) 534-3290

Submitter: Hastings Park

Phone:

Fax:

Owner: s.22

Phone:

Fax:

Animal Data

Species: Equine

Breed:

Sex:

Age:

Premise ID:

Case History

Submitted one equine for post mortem.

Worked s.22 1 3/8 mile. Lamé Sunday - diagnosed fx metatarsal.

Large bone: P1 (long pastern)

Tattoo:

s.22

Owner:

Final Diagnosis

Final Diagnosis:

Medial chip fracture, proximal phalanx 1, right hind fetlock

Necropsy

One Thoroughbred gelding was received for necropsy. The gelding was in good body condition. There was a large chip fracture of the medial anterior aspect of the proximal first phalanx in the right hind fetlock joint. The distal articular surface of the third metacarpal and metatarsal bones were scored from 0 to 3 for wear lines (WL), palmar arthrosis (PA) and cartilage erosion (CE).

Joint scores:

Joint	WL	PA	CE
LF	0	1	0
RF	2	1	0
LH	0	0	0
RH	1	1	0

History of Communication

Date	To	Description
s.22	The HBPA of BC - e-mail	bc report sent



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These results relate only to the animals or items tested.

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END OF REPORT