

DOLPHIN GROSS NECROPSY LONG FORM

mc 252

ACCESSION #: <u>Smm-2011 0122-LA001</u>	NECROPSY DATE: <u>3/16/11</u>
TIME: START: <u>08:24</u> END: <u>13:37</u>	PROSECTOR(S): <u>F. Guillard, M. Barbieri, D. Greig, L. Rust, M. Tumin, J. Scallan, M. Becker, T. Norris, M. Brasso</u>

- > Circle one: "N" = normal; "A" = abnormal; "U" = unsure; "NE" = not examined; "NA" = not applicable
- > Complete required fields of "Content"; "Life History"; "Congenital", and "Parasites"
- > Describe "abnormal" or "unsure" findings
- > Describe as if to a blind person, without interpretation. Any interpretation / questions can be placed in parenthesis.
- > Consider: (1) **lesion**, (2) **location** within the body and symmetry, (3) distribution within the organ, (4) **relationship** to other organs/lesions, (5) **approximate percent of organ affected**/ severity, (6) **amount/size/size range**, (7) degree of demarcation, (8) shape/structure, (9) texture/consistency, (10) homogeneity, (11) color & odor

STRANDING OR SAMPLING HISTORY:

BODY CONDITION (EXTERIOR):

- Emaciated: Visible transverse processes; pronounced nuchal concavity, scapulae visible
- Thin: Concave/sunken epaxial muscles, moderate nuchal concavity
- Average: No bony prominences or nuchal concavity observed
- Robust: Bulging epaxial musculature

Description & Comments:

INTEGUMENT: (N) / A / U / NE / NA

LIFE HISTORY: Rostral hairs, Rostral hair follicles, Fetal Folds (Circle if present)
Finding: Ectoparasites (mite, lice, barnacle, Xenobalanus (<10, 10-20, 20-50, >50), Discolored, Patchy, Surgical incision, Penetrating wound, Foreign body, Laceration / Rake marks, Abrasion, Erosion / Ulcer, Scar, Vesicle / Pustule, Plaque, Abnormal foci, Mass, Abscess, Cyst (fluid filled / empty), Fluid (edema), Scavenging, Bruising (Hemorrhage, Petechia)

Description & Comments: diffuse dark pink bruising along body from rostrum to anus, a uniform 7cm long area of rake marks 7 separate marks 1cm apart with a connected baseline mark across top of melon 7cm long

DISCHARGES: (Absent) circle and describe if Present:

OCULAR, BLOW HOLE, ORAL, PENILE/ VULVAR, ANAL, OTHER:

Note Color and Consistency:

UMBILICUS: Present/ Absent (patent hole)/ Recently Healed/ Scarred (N) / A / U / NE / NA

LIFE HISTORY: Umbilical stump: Patent (partly / completely), Closed, Moist / Dry; Length: _____
 Falciform ligament (umbilical vein)/ Umb arteries: Patent (partly / completely), Closed
 Urachal ligament (urachus): Patent (partly / completely), Closed

Finding: Hernia (of: _____), Other: _____

Description & Comments: scavenger damage

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BLUBBER: (N) / A / U / NE / NA

Finding: Parasites (<10, 10-20, 20-50, >50), Discolored, Penetrating wound, Foreign body (describe: _____), Laceration, Abrasion, Abnormal foci, Mass, Abscess, Cyst (fluid filled./empty), Fluid (edema), Scavenging, Bruising (Hemorrhage, Petechia), Necrotic fat

Description & Comments: _____

SKELETAL MUSCLE: (N) / A / U / NE / NA

Finding: Atrophy, Pale / Discolored/ Streaked, Abnormal foci, Edema, Hemorrhage, Mass, Abscess, Parasite (<10, 10-20, 20-50, >50), Other: _____
Extent: Tracking along fascia; *Communicates with skin / blubber / bone / internal cavity

Description & Comments: _____

EYES: Right: (N) / A / U / NE Left: (N) / A / U / NE

Finding: Missing; Phthisis (shrunken); Buphthalmia (enlarged); Proptosis (out of socket); Rupture; Lens luxation; Material in anterior chamber (behind cornea); Foreign body; Corneal Opacity; Penetrating wound; Laceration; Abrasion; Erosion / Ulcer; Scar; Other: _____

Location: Conjunctiva; Third eyelid; Cornea; Anterior chamber; Lens; Entire globe; Periorbital soft tissue

Description & Comments: _____

ORAL CAVITY AND NASOPHARYNX: N / (A) / U / NE / NA

TEETH: Unerupted, Just erupting, Fully erupted

Finding: Missing; Broken/ Fractured; Worn (regular / irregular); Gingivitis; Discharge

Description & Comments: foreign object (fish) sheep's head in oral cavity
tail protruding forward, Goosebeak dislocated, separated from blowhole by fish

THORACIC CAVITY: N / (A) / U / NE / NA

Pericardial fat: Abundant, Fair amount, Reduced amount, None; Serous (gelatinous) change

Effusion: Slight, Moderate, Copious (approximate amt: _____ ml)

Liquid, Serous, Viscous, Clear, Opaque, Purulent, Flecks, Fibrin (stringy); COLOR: _____

Finding: Pneumothorax (communication with skin / abdomen; negative pressure not observed on puncture of diaphragm), Penetrating wound, Foreign body, Adhesions (to lung, diaphragm, pericardium, other: _____), Discolored, Plaque, Abnormal foci, Mass

Description & Comments: Sero sanguinous

CRANIAL LYMPH NODES:

Prescapular: (N) / A / U / NE / NA

Axillary: N / A / U / NE / NA

Lung-associated: N / (A) / U / NE / NA

Mandibular: (N) / A / U / NE / NA

Tracheobronchial: (N) / A / U / NE / NA

Other (location): _____

Finding: Swollen (slight, moderate, marked), Discolored, Lymphoid hyperplasia (regular demarcated white foci, Abnormal foci, Mass, Abscess (pus), Granuloma (crumbly), Wet / Fluid (edema), Other: _____

Description & Comments: Lymph node associated lymph node - mild congestion moderate congestion

ESOPHAGUS: N / (A) / U / NE / NA

CONTENT (AMOUNT / DESCRIBE): empty, (fish) digesta, mucous, blood, other: Fish bones

Finding: Discolored, Penetrating wound, Foreign body, Erosion / Ulcer, Perforation, Proliferation, Thickened, Plaque, Abnormal foci, Mass, Dilated / Constricted, Obstruction, Parasites (<10, 10-20, 20-50, >50)

Location: Cervical (in front of thorax), Thoracic, Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface)

Description & Comments: Entire length of Esophagus

THYROID: (N) / A / U / NE / NA

Finding: Enlarged, Discolored / Pale, Abnormal foci, Mass, Cyst (fluid filled / empty), Other: _____

Description & Comments: _____

THYMUS: (N) / A / U / NE / NA

LIFE HISTORY: (Involved) Present

Description & Comments: _____

TRACHEA / BRONCHI / LUNGS: N / (A) / U / NE / NA

CONTENT (AMOUNT / DESCRIBE): Foam / Mucous / Blood / Pus / Digesta / Other: No fluid in bronchi

Clear, Opaque; Color: _____; Other: _____

PARASITES: Describe: _____ Extent and distribution: _____

Finding: Discolored / Pale, Abnormal foci, Mass, Consolidated, Congested, Emphysema (air bubbles) / Bulla (air filled cyst), Clear foamy fluid / Edema (small / lg airway / septa; slight, mod, copious), Infarct (pale / red / red margins), Thrombus (part / complete vessel occlusion; w/infarct), Abscess, Obstruction

Location: Trachea, Bronchi, Lobe: R / L

Dorsal / Hilar, Ventral / Cranioventral, Mid / All regions, Pleura, Parenchyma, Interlobular (space between lobules)

Description & Comments: Sparse multi-focal 0.5cm nodules (12ft)

Right lung more congested

HEART / PULMONARY ARTERIES / AORTA : (N) / A / U / NE / NA

CONGENITAL: Ductus arteriosus: Open (diameter: _____), Membrane covered but probe patent, Closed

Foramen ovale: open (diameter: _____), probe patent but covered by membrane, Closed

Persistent left aortic arch: with esophageal dilation, without esophageal dilation

Atrial / Ventricular septal defect (diameter defect: _____; diameter outflow tract: _____)

Aortic / Pulmonic Constriction (valvular, above valve, below valve) (with post-constriction dilation)

Pericardium: **Effusion:** Slight, Moderate, Copious (approximate amt: _____ ml); COLOR: _____

Liquid, Serous, Viscous, Clear, Opaque, Purulent, Flecks, Fibrin (stringy)

Finding: Discolored, Rupture, Proliferation, Thickened, Plaque, Abnormal foci, Mass, Other: _____

Valves: Smooth thickening (nodular / diffuse), Roughened thickening (flat / proliferative)

Location: Left AV valve, Aortic valve, Right AV valve, Pulmonic valve

Myocardial thickness: L Ventricle outer wall: _____, R Ventricle outer wall: _____, Interventricular septum: _____

Finding: Chamber dilation (ventricle L / R; atrium L / R), Left Side Flaccid, Infarct (pale / red / red margins), Thrombus (part / complete occlusion), Roughened inner surface, Pale / Discolored, Abnormal foci, Mass, Abscess, Other: _____

Description & Comments: _____

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ABDOMINAL CAVITY: N / ~~A~~ / U / NE / NA

Abdominal fat (Perirenal, Omental): Abundant, Fair amount, Reduced amount, None

Effusion: Slight, Moderate, Copious (approximate amt: _____ ml)

Liquid, Serous, Viscous, Clear, Opaque, Purulent, Flecks, Fibrin (stringy); COLOR: _____

Finding: Penetrating wound, Foreign body / Ingesta (with or without GI rupture), Adhesions (to wall / organs: _____), Discolored, Abnormal foci, Mass, Abscess, Hemorrhage

Location: Peritoneum, Mesentery, Omentum

Description & Comments: Serous sanguinous

LIVER: (N) / A / U / NE / NA

PARASITES: Flukes / Others: _____ (ND, <10, 10-20, 20-50, >50)

Finding: Enlarged (slight, moderate, marked), Small, Capsular fibrosis, Fracture / Laceration, Discolored / Pale, Nutmeg appearance, Abnormal foci, Mass, Abscess, Cyst, Friable, Congested, Other: _____

Location: Lobe: Caudate / Right lateral / Right medial / Quadrate / Left medial / Left lateral / All lobes
Capsular, Subcapsular, Parenchyma

Description & Comments:

SPLEEN: (N) A / U / NE / NA

Finding: Engorged (slight, moderate, marked), Contracted, Capsular fibrosis, Lymphoid hyperplasia (regular discrete small white foci), Infarct (red / pale / red margin), Discolored / Mottled, Abnormal foci, Mass, Friable, Other: _____

Location: Head, Body, Tail, Capsule, Subcapsular, Parenchyma Color: _____

Description & Comments: -Mildly rounded

PANCREAS: N / A / U / (NE) / NA

Finding: Swollen, Small, Discolored / Pale, Abnormal foci, Mass, Other: _____

Description & Comments:

STOMACH: N / A / U / (NE) / NA / stomach collected whole

STOMACH CONTENTS (AMOUNT / DESCRIBE): Empty, Dilated w/ gas, Mucous, Formula, Fluid, Sand/ Rocks, Fish, Cephalopods, Foreign bodies, Undigested, Partially digested, Digested, Other: Full of whole fish

PARASITES: Nematodes: (<10, 10-20, 20-50, >50) with or without volcanic ulcer (mild, moderate, severe)
Other: _____ (<10, 10-20, 20-50, >50)

Finding: Discolored/ Pale, Penetrating wound, Foreign body, Rugae swollen / loss / thickened, Erosion / Ulcer / Volcanic ulcer, Perforation, Thickened, Plaque, Abnormal foci, Mass, Dilated / Constricted, Torsion, Obstruction

Location (chamber): First, Second, Third

Description & Comments: -not tied off at esophageal hole still frozen at time of necropsy, (no sample)

SMALL INTESTINE: (N) / A / U / NE / NA (lost)

CONTENT (AMOUNT / DESCRIBE): Empty, Digesta, Frank blood (red), Digested blood (black/tarry), Other: _____

PARASITES: Type: _____ (<10, 10-20, 20-50, >50)

Finding: Discolored/ Pale, Penetrating wound, Foreign body, Erosion / Ulcer, Perforation, Thickened, Abnormal foci, Mass, Dilated / Constricted, Torsion, Corrugated, Obstructed

Location: Duodenum, Jejunum, Ileum

Description & Comments:

LARGE INTESTINE: N / A / U / NE / NA

CONTENT (AMOUNT / DESCRIBE): Empty, Feces: firm, thin/pasty, dry, tarry, meconium (neonate; green-brown pasty material) Other: _____

PARASITES: Type: _____ (<10, 10-20, 20-50, >50)

Finding: Discolored/ Pale, Penetrating wound, Foreign body, Erosion / Ulcer, Perforation, Thickened, Plaque, Abnormal foci, Mass, Dilated / Constriction, Obstruction (by _____),

Location: Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface) -

Description & Comments: _____

ABDOMINAL LYMPH NODES: Mesenteric: N / A / U / NE / NA; Rectal (N)
Iliac: N / A / U / NE / NA; Inguinal: N / A / U / NE / NA;

Finding: Swollen (slight, moderate, marked), Discolored/ Pale, Lymphoid hyperplasia (regular demarcated white foci), Abnormal foci, Mass, Abscess, Wet / Fluid (edematous), Other: _____

Location: Left, Right, Symmetrical, Asymmetrical (R>L, L>R), Cortex, Medulla, Corticomedullary junction

Description & Comments: _____

ADRENAL GLAND: Right: N / A / U / NE / NA Left: N / A / U / NE / NA

CORTICOMEDULLARY RATIO: Right: 2 to 1 Left: _____

Finding: Enlarged/ Shrunken (slight, moderate, marked), Nodular cortical hyperplasia (mild, moderate, severe), Discolored / Pale, Abnormal foci, Mass, Abscess, Hemorrhagic, Striated

Location: Cortex, Medulla, Corticomedullary junction; Left, Right; Symmetrical, Asymmetrical (R>L, L>R)

Description & Comments: _____

URINARY BLADDER and URETERS: N (A) / U / NE / NA

BLADDER CONTENT: Patent, Obstructed (by _____) Distended, Partly full, Empty;

Urine: Clear, Opaque, Yellow (dark / light), Red-tinged Other: Gritty, Calculi (SAVE)

Finding: Discolored/ Pale, Erosion / Ulcer, Dilated (Constricted), Rupture, Proliferation, Thickened, Plaque, Abnormal foci, Mass, Abscess, Cyst (fluid filled / empty), Hydroureter, Calculi (SAVE)

Location: Bladder : Apex (tip), Body, Trigone (outflow site) / Ureter; Lumen, Mucosa, Submucosa, Wall, Serosa

Description & Comments: Bladder small mucosal thickness 5-5cm appears thickened

KIDNEY: Right: N / A / U / NE / NA Left: (N) / A / U / NE / NA

Finding: Swollen / Shrunken (slight, moderate, marked), Hydronephrosis (distended pelvis), Loss of corticomedullary renicular differentiation (slight, moderate, marked), Discolored / Pale, Infarct (red / pale / red margin), Cyst (fluid filled / empty), Hematoma, Thickened, Plaque, Abnormal foci, Mass, Abscess, Other: _____

Location: Cortex, Medulla, CM junction, Capsule, Subcapsule, Cranial / Caudal Poles

Description & Comments: _____

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URETHRA: (N) / A / U / NE / NA

CONTENT: Patent, Obstructed (by _____) Gritty, Calculi (SAVE)

Finding: Discolored/ Pale, Erosion / Ulcer, Dilated / Constricted, Thickened, Plaque, Abnormal foci, Mass, Abscess

Description & Comments: _____

MALE REPRODUCTIVE TRACT: NA
Testes: (N) / A / U / NE **Penis:** (N) / A / U / NE

LIFE HISTORY: Active (swollen), Resting, Immature

Finding: Enlarged, Discolored/ Pale, Cyst (fluid filled / empty), Obstructed (by _____), Perforation, Swollen/ Thickened, Fluid-filled, Erosion / Ulcer, Plaque, Abnormal foci, Mass, Torsion, Laceration/ Abrasion, Vesicle/ Pustule, Other: _____

Location: Testes; Epididymus (head/ tail), Penis

Left, Right, Symmetrical, Assymmetrical (R>L, L>R); Skin, Subcutis, Sac, Mucosa, Submucosa

Description & Comments: _____

FEMALE REPRODUCTIVE TRACT: (make new form for Fetus): NA
Ovaries: N / A / U / NE **Uterus:** N / A / U / NE **Cervix:** N / A / U / NE
Vagina: N / A / U / NE **Vulva:** N / A / U / NE

LIFE HISTORY: Left: Ovary: Corpora lutea (No. _____), Corpora hemorrhagic (No. _____), Follicles (No. _____)

Right Ovary: Corpora lutea (No. _____), Corpora hemorrhagic (No. _____), Follicles (No. _____)

Uterus: Placental scar (L/R uterine horn; No. _____)

Fetus Present: (L/ R uterine horn; Fetus Acc#: _____)

Placenta: Attached / unattached to fetus; Complete placenta / Part of: chorioallantois, amnion, umbilical stalk; Umbilical Stalk No. of Twist: _____

MAMMARY GLANDS/NIPPLES: MAMMAE: Lactation, Swollen without lactation, Non-lactating

Finding: Enlarged, Discolored/ Pale, Abnormal foci, Mass, Cyst (fluid filled / empty), Obstructed (by _____), Prolapse, Rupture, Perforation, Swollen/ Thickened, Fluid-filled, Erosion / Ulcer, Plaque, Abnormal foci, Mass, Torsion,

Location: Ovary, Uterus, Cervix, Vagina, Vulva; Left, Right, Symmetrical, Asymmetrical (R>L, L>R);

Capsule, Subcapsule, Parenchyma, Hilus, Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface);

Fetal attachment site, Non-attachment site, Chorioallantois, Amnionic sac, Umbilical stalk

Description & Comments: _____

DURA MATER AND INSIDE SKULL: N / A / U (NE) / NA

Finding: Discolored/ Pale, Congestion, Penetrating wound, Foreign body, Abnormal foci, Mass, Abscess, Hematoma, Fluid,

Location: Subleptomeningeal, Dura mater, Inside skull

Level of cerebrum / cerebellum / brainstem; Dorsal, Lateral, Ventral; L / R; Symmetrical, Asymmetrical (R>L, L>R)

Description & Comments: _____

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RAIN: Cerebrum: N / A / U / NE / NA;
Brain stem: N / A / U / NE / NA;

Cerebellum: N / A / U / NE / NA
Meninges: N / A / U / NE / NA

Finding: Discolored/ Pale, Asymmetry / Midline shift (towards L / R), Shallow sulci (grooves) / Flattened gyri (bumps), Congested, Edematous, Penetrating wound, Foreign body, Abnormal foci, Mass, Abscess, Hydrocephalus, Hematoma,

Location: Lobe: frontal / temporal / parietal / occipital; Dorsal, Lateral, Ventral; L/R; Symmetrical, Asymmetrical (R>L, L>R)

Description & Comments: _____

SPINAL CORD: N / A / U / NE / NA

Finding: Discolored, Disc herniation / Compressive lesion, Tear (partial / complete), Foreign body, Abnormal foci, Mass,

Location: Cervical, Thoracic, Lumbar, Sacral; Between bone and meninges/cord, Between meninges and cord, Parenchyma

Description & Comments: 1.0 cm Histology taken through spinal canal

SKELETON AND JOINTS: N / A / U / NE / NA

Joint Effusion: Slight, Moderate, Copious (approximate amt: _____ ml); Liquid, Viscous, Clear, Opaque, Flecks, Fibrin (stringy); White, Yellow, Tan, Brown, Red, Red-tinged, Other: _____

Finding: Bone pliable / brittle, Deformity, Bone loss, Sequestrum (bony / other), Cyst (filled / empty),

Fracture (single / multiple breaks; sharp / rounded edges; open to surface; callus on outside / inside of bony surface),

Luxation / Dislocation, Mass, Abnormal foci, Fluid (edema), Foreign Body, Other: _____

Joint surface: discolored / roughened / pitted / erosion / ulcer / proliferative / degenerative disease

Location: Bone / Joint _____; Joint surface, space, capsule

Proximal, Middle, Distal 1/3rd of bone; Physis, Metaphysis, Diaphysis; Vertebral Body, Process

Bone surface (outside / inside), Bone Cortex (one / both), Bone marrow cavity

Associated soft tissue (tendon, ligament, muscle, other: _____)

Description & Comments: _____

