

MARINE MAMMAL GROSS NECROPSY LONG FORM

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| ACCESSION #: 2000126 | NECROPSY DATE: 3/15/2011 |
| NAME: | PROSECTOR(S): gulland, barbone, Ruz |

- > 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

HAIR COAT AND INTEGUMENT: N / A / U / NE / NA

LIFE HISTORY: Lanugo/ Blackcoat (part./complete); Molt (part./complete); Guard Hair loss; Hair Coat not developed
DEVELOPMENTAL (FETAL) CHARACTERISTICS: (Circle if present) Eyebrows, Muzzle whiskers, Chin whiskers, Nails, Fetal folds, Other notations: NONE

Finding: Ectoparasites (mite, lice, barnacle, tick) (<10, 10-20, 20-50, >50), Discolored, Patchy, Alopecia, 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: _____

DISCHARGES : Absent, circle and describe if Present:

OCULAR, NASAL, AURICULAR, ORAL, PENILE/ VULVAR, ANAL, OTHER: _____

Note Color and Consistency: NONE

UMBILICUS: Present/ Absent 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: _____), Discharge, Discolored, Swollen / Thickened, Erosion / Ulcer, Scar, Vesicle/ Pustule, Abnormal foci, Mass, Fluid (edema), Other: _____

Description & Comments: NONE

BLUBBER: N / A / U / NE / NA

Finding: Parasites (<10, 10-20, 20-50, >50), Discolored, Penetrating wound, 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, Tear (partial / complete), Pale / Discolored/ Streaked, Abnormal foci, Edema, Hematoma, 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); Desmetocoel (bulged); Rupture; Lens luxation; Anterior synechia; Material in anterior chamber (behind cornea); Foreign body; Corneal Opacity; Cataract; Conjunctivitis; 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, Canine vs. Incisor length: >, =, < Color: Black; Brown; White

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

MUCOUS MEMBRANES; Color: Red, Pink, Pale pink, White, Yellow, Blue, Other: _____

TONSILS; Color: _____, Enlarged / Discharge / Other: _____

PARASITES: Nasal mites (long / fat type; <10, 10-20, 20-50, >50); Other (<10, 10-20, 20-50, >50) _____

Other Findings: Laceration, Abrasion, Erosion / Ulcer, Scar, Vesicle / Pustule, Plaque, Abnormal foci, Mass, Abscess

Location: Lips (Upper / Lower); Tongue; Mucosa (Gumline / Bucal / Roof / Floor of mouth); Pharynx; Larynx

Description & Comments: _____

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

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

Effusion: (Slight) Moderate, Copious (approximate amt: 50 ml)

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

Finding: Pneumothorax (communication with skin / abdomen), Penetrating wound, Foreign body, Adhesions (to lung, diaphragm, pericardium, other: _____), Discolored, Plaque; Abnormal foci, Mass

Description & Comments: _____

SALIVARY GLANDS: (N) / A / U / NE / NA

Finding: Swollen, Discolored, Abnormal foci, Mass, Abscess, Other: _____

Description & Comments: _____

| | |
|---|---|
| CRANIAL LYMPH NODES: | Mandibular: (N) / A / U / NE / NA |
| Retropharyngeal: N / A / U / NE / NA | Cervical: (N) / A / U / NE / NA <i>proscap N</i> |
| Axillary: N / A / U / NE / NA | Sternal: N / A / U / NE / NA |
| Mediastinal: N / A / U / NE / NA | Tracheobronchial: N / A / U / NE / NA |

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

Description & Comments: _____

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

CONTENT (AMOUNT / DESCRIBE): empty, formula, fish, digesta, mucous, other: _____

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

Location: Cervical (extra-thoracic), Thoracic, Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface)

Description & Comments: _____

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

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

Location Left, Right; Symmetrical, Asymmetrical (R > L, L > R)

Description & Comments: _____

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

LIFE HISTORY: Involution, Prominent, Apparent

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

Description & Comments: _____

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

CONTENT (AMOUNT / DESCRIBE): Foam / Mucous / Blood / Pus / Digesta / Other: _____

Clear, Opaque; Color: _____; Other: _____

PARASITES: Parafilaroides (ND, 1+, 2+, 3+, 4+, 5+) / Otostrongylus (ND, <10, 10-20, 10-50, >50)

Finding: Discolored/ Pale, Abnormal foci, Mass, Dilation / Constriction, Depressed / Collapsed / Consolidated, Congested, Expanded, 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, Proliferation

Location: Trachea (cervical, thoracic), Bronchus, Lobe: R cranial / R middle / R caudal / L cranial / L caudal / All lobes
Dorsal / Hilar, Ventral / Cranioventral, Mid / All regions, Pleura, Parenchyma, Interlobular (space between lobules)

Description & Comments: _____

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

(DO NOT FORGET TO RECORD HEART WEIGHT AND WALL THICKNESS' ON SHORT FORM IF MEASURED)

PARASITES: Otostrongylus/ Other: _____ (<10, 10-20, 20-50, >50)

CONGENITAL: Ductus arteriosus: Patent, Membrane covered but probe patent, Closed

Foramen ovale: patent, 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)

Left AV valve, Aortic valve, Right AV valve, Pulmonic valve

Plaques on atrium / vessel inner surface above valvular lesion (mild, moderate, severe)

Epicardium, myocardium, endocardium: Finding: Dilation (ventricle L/R; atrium L/R), Wall thin / thick (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: Normal

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

Abdominal fat (Perirenal, Omental): 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: Pneumoabdomen (communication with skin / thorax), Penetrating wound, Foreign body / Ingesta (with or without GI rupture), Adhesions (to wall / organs: _____), Discolored, Plaque, Abnormal foci, Mass, Abscess,

Location: Peritoneum, Mesentery, Omentum

Description & Comments: _____

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

PARASITES: Flukes / Other: _____ (ND, 1+, 2+, 3+, 4+, 5+ or <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

Capsule, Subcapsular, Parenchyma

Description & Comments: _____

GALL BLADDER, BILE DUCT, PANCREATICODUODENAL DUCT: (N) A / U / NE / NA

PARASITES: Flukes / Other: _____ (ND, 1+, 2+, 3+, 4+, 5+ or <10, 10-20, 20-50, >50)

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

Bile: Liquid, Viscous, Inspisated, Gritty, Calculi (SAVE), Green (dark / light), Yellow, Orange, Black

Finding: Discolored, Ulcer / Erosion, Proliferation; Thickened, Plaque, Abnormal foci, Mass, Cyst, Dilated / Constricted,

Description & Comments: _____

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

Finding: Engorged (slight, moderate, marked) Contracted, Fragments of (satellite) spleen, Capsular fibrosis / siderotic plaque, 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: _____

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

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

Location: Left arm of pancreas, Right arm of pancreas (against duodenum); L / R; Symmetrical, Asymmetrical (R>L, L>R)

Description & Comments: _____

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

STOMACH CONTENTS (AMOUNT / DESCRIBE / FUNDIC VS PYLORIC): Empty, Dilated w/ gas, Mucous, Formula, Fluid, Sand / Rocks, Fish, Cephalopods, Foreign bodies, Undigested, Partially digested, Digested, Other: _____

Not opened

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: Fundic / Pyloric / Non-glandular / Duod Ampulla; Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface)

Description & Comments: _____

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

CONTENT (AMOUNT / DESCRIBE): Empty, Digesta, Frank blood, Digested blood, Fluid, Other: _____

PARASITES: Type: _____ (<10, 10-20, 20-50, >50 or 1+, 2+, 3+, 4+)

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

Location: Duodenum, Jejunum, Ileum; Lumen, Mucosa, Submucosa, Wall, Serosa (outer surface)

Description & Comments: _____

LARGE INTESTINE: Cecum: (N) / A / U / NE / (NA) Colon: (N) / A / U / NE / NA

CONTENT (AMOUNT / DESCRIBE): Empty, Feces: Normal (firm), thin/pasty, dry, tarry, meconium present
Other: _____

PARASITES: Type: _____ (<10, 10-20, 20-50, >50 or 1+, 2+, 3+, 4+)

Finding: Discolored/ Pale, Penetrating wound, Foreign body, Rugae swollen / loss / thickened, 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: Gastric: N / A / U / NE / NA; Mesenteric: (N) / A / U / NE / NA;
Renal: N / A / U / NE / NA; 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: _____ 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)

Findings: 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: _____

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: _____

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 Scrotum: N / A / U / NE
Penis: (N) / A / U / NE Prostate: N / A / U / NE Prepuce: N / A / U / NE

LIFE HISTORY: Active (swollen), Resting, (Immature) Testes: Undescended (abdomen/ inguinal canal)
Finding: Enlarged, Discolored / Pale, Cyst (fluid filled / empty), Obstructed (by _____), Prolapse, Perforation, Swollen / Thickened, Fluid-filled, Erosion / Ulcer, Plaque, Abnormal foci, Mass, Torsion, Laceration / Abrasion, Vesicle / Pustule, Fractured baculum, Hernia, Other: _____

Location: Testes; Epididymus (head / tail), Scrotum, Prostate, Penis, Prepuce; 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/NEPPLES: 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, Assymmetrical (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: _____

CSF: N / A / U / (NE) / NA **CYTOLOGY:** Yes / No **Where examined:** _____

Finding: Increased amount of CSF, Discolored, Other: _____
Description & Comments: skull not opened

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DURA MATER AND INSIDE CALVARIUM: 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: _____

**BRAIN: Cerebrum: N / A / U / (NE) / NA; Cerebellum: N / A / U / (NE) / NA
Brain stem: 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: _____

SCIATIC NERVE: N / A / U / (NE) / NA

Finding: Discolored, Tear (partial / complete), Abnormal foci, Mass, Other: _____
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: _____

cranial 2 cms collected from foramen magnum

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: _____)

Bone Marrow: NE, Present in femur / rib / sternbrae
Decreased / Lack, Soft, Red, Abundant (hyperplasia), Fatty, Replaced by tissue / mass

Description & Comments: _____

