

DOLPHIN GROSS NECROPSY LONG FORM

FIELD #: LA-498/MCT 20110330-LA062	NECROPSY DATE: 4-01-2011
OIL SPILL CODE:	STRAND DATE: 3-30-11
AGE CLASS: sub adult	STRAND LOCATION:
SEX: male	THAW DATE: \emptyset
PROSECTOR(S): Cara Field DVM, PhD	CARCASS CONDITION CODE: 2 (fresh)
	TIME: START: 0700 END: 1000

Circle one: E = examined NE = not examined NA = not applicable
 NOTE: If unable to assess, circle NE and write why (ex: decomposed/missing/scavenged/etc.)

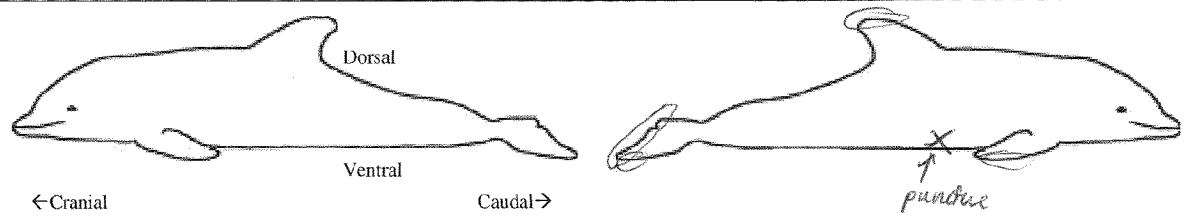
- Consider: (1) **lesion**
 (2) **location** within the body and symmetry,
 (3) **distribution** within the organ,
 (4) **relationship** to other organs/lesions,
 (5) **approximate percent of organ affected/** severity,
 (6) **amount/size**
 (7) **degree of demarcation,**
 (8) **shape/structure,**
 (9) **texture/consistency,**
 (10) **homogeneity,**
 (11) **color & odor**

STRANDING OR SAMPLING HISTORY:
 Caught in trawl net with 2 conspecifics

BODY CONDITION (EXTERIOR):
 Emaciated: Visible transverse processes of the spine, pronounced nuchal concavity ("peanut head"), scapulae visible
 Thin: Concave/sunken dorsal body muscles, moderate nuchal concavity ("peanut head")
Average: No bony prominences or nuchal concavity observed
 Robust: Bulging dorsal body musculature
overall good

SKIN / HUMAN INTERACTION: E / NE / NA

Life History (Circle if present): rostral hairs, rostral hair follicles, fetal folds (If present, count, draw & describe location below)
Describe the skin: texture (ex: leathery, rubbery), color
Look for: parasites, circular lesions, ulcers, rake marks, net marks, wounds, missing tissue/skin, bruising
If abnormalities present, describe: location, size (length, width, depth of penetration into body), missing tissue, number of parasites (ex: *Xenobalanus*, <10, 10-20, 20-50, >50)
1 puncture mid-abdomen - pinpoint (2x2mm); round; 2mm deep
multiple rounded 4x4cm to 6x6cm; all healed - poss. cookie cutter
shark bites.



FIELD #: LA-498

DISCHARGES: PRESENT (E) / ABSENT

If present, note location: OCULAR, BLOW HOLE, ORAL, PENILE/ VULVAR, ANAL, OTHER: _____

Describe (color, consistency): _____

UMBILICUS: (Circle:) Stump Present/ Stump Absent (hole only)/ Recently Healed/ Scarred E / NE / NA

Life History (Circle): Umbilical stump: Patent (partly / completely), Closed, Moist / Dry; Length: _____

Falciform ligament (umbilical vein)/ Umb arteries: Patent (partly / completely), Closed, NE

Urachal ligament (urachus): Patent (partly / completely), Closed, NE

Notes: _____

BLUBBER: (E) / NE / NA

Describe (ex: color, texture)

Look for: (Parasites) Bruising, Penetrating wound, Foreign body, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty), Scavenger damage

If abnormalities present, describe: location, size (length, width, and describe depth of penetration into body/missing tissue), approx. number of parasites (<10, 10-20, 20-50, >50) parasites-multiple cysts throughout blubber/muscle interface, multiple healed scars along right side
parasites in formalin and blubber in formalin Cysts range from 4x4mm to 1x1cm.

SKELETAL MUSCLE: (E) / NE / NA

Describe (ex: color, texture)

Look for: gas bubbles, bruising / hemorrhage, mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty), parasites

If abnormalities present, describe: location, size (length, width, and describe depth of penetration into body/missing tissue)

Also describe lymph nodes (ex: axillary, prescapular, mandibular) and note if enlarged/swollen, hardened, watery, and describe color (in cross section)

Notes: normal

SKELETON AND JOINTS: (E) / NE / NA

Describe: Although skeletons are not usually completely flensed, look for abnormalities during dissection

Look for: Broken bones, bony deformities, bony growths, foreign bodies

Note: Describe any nearby tissue damage.

Notes: Scapula humeral joint locked normal
Atlanto-occipital joint NSF

EYES: Right: (E) / NE / NA Left: (E) / NE / NA

Look for: Missing, deflated, enlarged, out of socket, foreign body; penetrating wound

Notes: normal

FIELD # 498

ORAL CAVITY:

(E) / NE / NA

TEETH: (CIRCLE ONE: Unerupted, Just erupting, Fully erupted)

Look for: Missing; Broken; Worn (some / all); Discharge

Notes: 2 missing dorsal LTR - bottom all present

Describe inside the mouth: (ex: are there papillae on tongue?)

Notes:

THORACIC CAVITY:

(E) / NE / NA

Free fluid in thoracic cavity: Present / Absent

Describe if present (amount, color, consistency)

Look for: Penetrating wound, Foreign body, Mass, etc.

Also describe lymph nodes (ex: lung-associated, tracheobronchial, etc.)

Look for: enlarged/swollen, hardened, watery, and describe color (in cross section)

Notes: LN: TB + cardiac WNL

ESOPHAGUS:

(E) / NE / NA

CONTENT (AMOUNT / DESCRIBE) (Ex: empty, fish, digesta, blood)

Describe esophagus tissue: (ex: color) normal

Look for: Discoloration, Foreign body, Ulcer, Mass, Dilated / Constricted, Obstruction, Parasites (<10, 10-20, 20-50, >50)

If abnormalities present, describe: location, size (length, width, depth), texture

Notes: Small amount of light brown material; otoliths collected from esophagus several

THYROID:

(E) / NE / NA

Describe color (pale tan, pale pink, red, purple) uniformity of color:

Notes: firm, WNL.

THYMUS:

E / NE / (NA)

LIFE HISTORY: (Involved, Present)

Notes:

TRACHEA / BRONCHI / LUNGS:

(E) / NE / NA

AIRWAY CONTENT (AMOUNT/LOCATION/DESCRIBE): (ex: foam, mucous, blood, pus, digesta)

DESCRIBE UNIFORMITY OF COLOR, TEXTURE OF LUNGS (EX: PINK, LIGHT AND SPONGY):

LOOK FOR: parasites, congestion with blood, nodules (ex: mass, abscess, parasite-filled), hardness, symmetry, fluid

If abnormalities present, describe: location, percentage of lung affected

Notes: Severely edematous + congested - both lungs; small amount of tan foam in trachea and both bronchi;

FIELD #: LA-498

HEART / PULMONARY ARTERIES / AORTA : E / NE / NA

Congenital: (not applicable in adults)

patent Ductus arteriosus (connection between aorta and pulmonary artery): (Circle one: OPEN / CLOSED), NE

Foramen ovale (connection between right and left atria): (Circle one: OPEN / CLOSED), NE

Describe pericardial sac, note presence and amount/color/consistency of fluid between sac and heart muscle.

Describe heart chambers, vessels, valves (color, thickness, size) and note any fat surrounding heart muscle.

Look for: abrupt changes in vessel diameter (constriction/dilation), discoloration, thickened valves, masses

Notes: Ductus art. was patent - saved in formalin.
Rest of heart NSF

ABDOMINAL CAVITY: E / NE / NA

Free fluid in abdominal cavity: Present / Absent

Describe if present (amount, color, consistency) red-tinged clear; small amount (~100ml)

Look for: Penetrating wound, Foreign body, Mass, etc.

Also describe lymph nodes (ex: mesenteric, colonic, inguinal, etc.)

Look for: enlarged/swollen, hardened, watery, and describe color (in cross section)

Notes: mesenteric, hepatic, sublumbar, colonic LN NSF

LIVER: E / NE / NA

Describe: (color, texture, sharp vs rounded edges)

Look for: Parasites, thick liver capsule, spotted appearance (externally or on cross section), Nutmeg coloration, congestion, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: color, location, size (length x width x depth)

Notes: mildly-moderately congested otherwise normal

SPLEEN: E / NE / NA

Describe: (shape, size, color)

Look for: Accessory spleens (splenules), congestion, discoloration / mottled

Notes: 5x4x2.5cm DARK PURPLE, globular NSF

PANCREAS: E / NE / NA

Describe: (shape, size, color, texture)

Notes: pink, normal texture

STOMACH: E / NE / NA

IF COLLECTED WHOLE, SKIP SECTION.

Stomach contents (amount / describe): (Ex: empty, gas, fish, foreign body)

Look for: Parasites, ulcers, perforations, obstructions

If abnormalities, describe: which chamber and describe size, color, percentage of stomach affected

Notes: tied off & saved whole (-> frozen)

FIELD #

LA498

SMALL INTESTINE:

(E) / NE / NA

Content (amount / describe): (Ex: Empty, ~~Digesta~~, Frank blood (red), Digested blood (black/tarry))

Look for: Parasites, Discoloration, Foreign body, Perforation, Mass, Hardening, etc.

If abnormalities present, describe: Size, location, etc.

Also describe lymph nodes (ex: mesenteric) → see abdomen

Notes:

Moderate # green / brown digesta throughout.
No parasites noted.

LARGE INTESTINE:

(E) / NE / NA

Content (amount / describe): (Ex: Empty, pasty feces, tarry feces, meconium (neonatal green-brown feces))

Look for: parasites, discoloration, foreign body, perforation, mass, hardening

If abnormalities present, describe: Size, location, etc.

Notes:

No feces in colon (collected sm. # distal intestinal contents)

ADRENAL GLAND:

Right: (E) / NE / NA

Left: (E) / NE / NA

Ratio of cortex to medulla:

Right Adrenal: 1:1

Left Adrenal: 1:1

Describe (color on cross-section, texture)

Look for: nodules/masses, different sizes (right vs left), hemorrhage

If abnormalities present, describe: Size, location, etc.

Notes:

NSF

URINARY BLADDER:

(E) / NE / NA

CONTENT (AMOUNT / DESCRIBE): (Ex: Clear, Opaque, Yellow, Red, gritty)

Look for: ulcer, dilated / constricted, rupture, proliferation, thickened, mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty), stones

If abnormalities present, describe: location, size, etc.

Notes: small amount of urine (< 1 ml total) - dark yellow.

KIDNEY:

Right: (E) / NE / NA

Left: (E) / NE / NA

Describe: (texture, color, color on cross section, etc.)

Look for: differences in size (compared to each other), dilation, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty), stones

If abnormalities present, describe: location, size, etc.

Notes:

normal

FIELD #: LA 498

MALE REPRODUCTIVE TRACT: (E) / NE / NA

Life history: Evaluate size of testes (Circle one: Active (swollen), ~~Immature~~) [measure if unsure]

Describe testes and penis (ex: uniformity in color and texture on cross section of testes)

Look for: Differences in size (compared to each other), mass (solid), abscess (pus-filled), cyst (watery fluid filled or empty)

If abnormalities present, describe: organ, location, asymmetry, size, texture

Look for and describe lymph nodes (ex: inguinal)

Notes: parasites from area in histo : Numerous parasite cysts throughout connective tissues surrounding tissues, but not invading ~~the~~ organs. Testes symmetrical; prostate WNL

FEMALE REPRODUCTIVE TRACT (Ovaries, Uterus, Cervix, Vagina, Vulva) E / NE / NA
PREGNANT? Y / N
***Complete Neonatal Characters Sheet for fetus if present; collect placenta.**

Life history: Reproductively active females will have cyst-like structures on their ovaries—if present, count, describe color, contents, and size.

Describe all reproductive organs (ex: color, texture, size)

Look for: differences in ovarian and uterine size (compared to the other side), distention, enlargement, scarring, pregnancy, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: organ, location, asymmetry, size, texture.

Look for and describe lymph nodes (ex: inguinal)

MAMMARY GLANDS/NIPPLES:

Look for and describe: Lactating, Non-lactating, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

Notes:

INSIDE SKULL: (E) / NE / NA

Describe inside of skull bones and associated membranes (color, thickness, presence of fluid, etc).

Note: Dura mater is the outer lining of the brain that lies next to the skull. Assess carefully for bruising, thickening, etc.

Notes: NSF

BRAIN: Cerebrum: (E) / NE / NA Cerebellum: (E) / NE / NA
Brain stem: (E) / NE / NA

Describe (uniformity of color, texture):

Look for: Asymmetry, Bruising, Fluid, Mass (solid), Abscess (pus-filled), Cyst (watery fluid filled or empty)

If abnormalities present, describe: size, location, texture, number of lesions, etc.

Notes: Symmetrical, NSF

SPINAL CORD: (E) / NE / NA

Spinal cord in code 3-4 animals is usually decomposed; assess at base of skull if necessary.

Describe: uniformity of color, texture and size, location, etc. of any abnormalities.

Notes: Only examined cranial 5cm - appears WNL.