

Accession#: C123460165



Texas A&M Veterinary Medical  
Diagnostic Laboratory

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**Final Report**

P.O. Drawer 3040, College Station, TX 77841-3040  
Phone: (888)646-5623 Fax: (979)845-1794 <http://tvmdl.tamu.edu/>

**Owner's Name:**  
Mikelski, Annmarie

(830)774-4100

**Veterinarian/Submitter: Account ID#: 5337**  
Val Verde Veterinary Hospital  
100 Lowe Drive  
Del Rio, TX 78840

**Date specimens received:** 12/11/2012

**Preliminary reports:** Email 12/14/2012, Email 12/17/2012

**Phone reports:**

**Final report:** Email 12/18/2012

|                               |                          |                         |
|-------------------------------|--------------------------|-------------------------|
| <b>Species:</b> Canine        | <b>Age:</b> 5.00 Years   | <b>Animal ID:</b> Nigel |
| <b>Breed:</b> German Shepherd | <b>Weight:</b> 79 Pounds | <b>Sex:</b> Castrate    |

**Tests Requested:** Histopath (ok to perform tests recommended by pathologist on tissues)

**Specimens Submitted:** Distal ileum, cecum and proximal colon (fresh)

**Clinical History:** 12/8/12. Acute HGE case. Pt. presented on 12/7/12, for vomiting and bloody diarrhea. Pt. initially treated with Ondansetron and Metronidazole. Pt. came back with profuse bloody diarrhea in the evening. Pt. found D/C this morning. Pt. treated with injectable Baytril, 0.9 % NaCl IV, and Vit K injectable. No known history of exposure to rat poison. Cecum found to be bruised, dark, spotted and fluid filled. Surrounding intestines also had some white spots visible externally. Intestines were filled with sanguineous fluid. /sp

\*\*\*\*TVMDL case specimen log: Received: fresh (moderate autolysis): large intestine - red discoloration of cecum; small intestines. Dr. Oliveira /sp

**Clinical Diagnosis:**

**Previous Cases:**

**Treatment:**

**Conclusion/Interpretation of Lab Findings:**

Histopathology findings, coupled with clinical history, are compatible with hemorrhagic gastroenteritis./tsh

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**LABORATORY TEST STATUS:****Ordered Current Status**

|  |                                 |
|--|---------------------------------|
| Histopath: Necropsy tissues, H&E stain (H)           | 12/13/2012 Completed 12/14/2012 |
| Virology comments (V)                                | 12/17/2012 Completed 12/17/2012 |
| Culture, Aerobic & Anaerobic (B)                     | 12/14/2012 Completed 12/18/2012 |
| Special stains - Histopath, histochemical stains (H) | 12/13/2012 Completed 12/13/2012 |

**Histopathology**

Date completed: 12/13/2012

Test: Special stains - Histopath, histochemical stains

| # | Stain | # | Stain | # | Stain | # | Stain | # | Stain |
|---|-------|---|-------|---|-------|---|-------|---|-------|
| 1 | Gram  |   |       |   |       |   |       |   |       |

**Special Stain Report:**

See histopathology report.

**Histopath: Necropsy tissues, H&E stain****Pathologist: Oliveira, Fabiano**

Date completed: 12/13/2012

Date report entered: 12/13/2012

Sections/Slides: 4/1

Nigel, Canine

# Tissues: 1

**DESCRIPTION:**

**LARGE AND SMALL INTESTINES:** Histologic changes compatible with those produced by autolysis hamper the histopathologic exam. Discernible changes include: The large intestine mucosa is effaced by necrosis and the surface of the mucosa contains a myriad of rods adhered to the remaining epithelium. Similar, but less severe, changes are also observed in the small intestine section. **Gram's stain** reveals Gram-positive rods adhered to the surface of intestinal mucosa.

**HISTOPATHOLOGIC DIAGNOSIS:****INTESTINE:** Diffuse, necrotizing enterocolitis with superficial Gram-positive rods.**COMMENT:**

The clinical findings (per history), coupled with the histopathologic findings are compatible with hemorrhagic gastroenteritis, which is a sporadic, usually fatal, peracute/acute gastroenteritis of dogs associated in some cases with *Clostridium perfringens* type A.

Fabiano Oliveira, DVM, MS, Diplomate ACVP  
/mr

**Bacteriology**

Date completed: 12/18/2012

Test: Culture, Aerobic &amp; Anaerobic

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|                   |                                |                |
|-------------------|--------------------------------|----------------|
| <b>Animal ID:</b> | Nigel                          |                |
| <b>Specimen</b>   | <b>Isolate</b>                 | <b>Comment</b> |
| Intestine         | Clostridium perfringens        |                |
| Intestine         | Escherichia coli               |                |
| Intestine         | Enterics                       |                |
| Intestine         | Negative Culture Salmonella    |                |
| Intestine         | Negative Culture Campylobacter |                |

**Comment:**

12/18/12

Please contact the lab as soon as possible if you would like to have this Clostridium perfringens typed by PCR.  
 ---A. K. Swinford, DVM, MS, DACVM /lak

** Virology**

**Date completed:** 12/17/2012

**Virology comments:**

Virology assignment removed, not indicated per histopathology. If virology testing is desired please contact the TVMDL and request testing. Fresh tissues will be held for 2 weeks from date of receipt.--Pam Ferro, Ph.D./va

**Veterinary Bulletin:**

TVMDL will get a new name and new web site on Sept. 1. We invite all of our clients to visit tvmdl.tamu.edu to experience Texas A&M Veterinary Medical Diagnostic Lab's new online presence.