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For the advancemet of veterinary and comparative pathology

THE DAVIS–THOMPSON FOUNDATION NEWSLETTER

February

VOL. 55

28-year-old, sorrel Quarter Horse mare with history of colic found to have a pedunculated lipoma entrapment.
In dogs, where is this tumor most frequently located in the abdominal cavity?

A. Mesentery
B. Retroperitoneal space
C. Omentum
D. Perirenal fat

INSIDE THIS ISSUE

MONTHLY COVER IMAGE WINNER:

Mayane Faccin, DVM, PhD, DACVP

Assistant Professor

Department of Comparative Medicine

Keeling Center for Comparative Medicine and Research

Answer: C. Omentum (JKP, 6th ed, v. 2, pg. 256)

Submit your image today (images@davisthompsonfoundation.org)!

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-Dr. M. Donald McGavin - Cover Image Composition Analyst

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MESSAGE FROM THE CEO

Dear colleagues,

Welcome to the February issue of the Davis-Thompson Foundation news-letter, brilliantly prepared, as always, by our great managing editors, Javier Asin and Jeann Leal. Thank you, Javier and Jeann!

This issue is full of great training opportunities all over the world and in several languages. Amongst these, I want to highlight POLA, CLIIC (both in the US and in the UK), the Australian Descriptive Veterinary Pathology Course, the Latin American Roadshow and our free virtual seminars in Spanish. New this year are the Spanish versions of the General Pathology and the Introduction to Veterinary Histopathology courses. Stay tuned for the announcement of great virtual seminars in English throughout the year.

Our YouTube videos are, as always, very popular. This month, in an effort to broaden the reach of our material, we are proud to announce the inclusi-on of Portuguese close captions to some of our YouTube videos. This is a great ongoing effort put in motion by Alexandre Arenales and Maria Eduar-da Cordeiro, and coordinated by Rafaela de Negri. Thank you, Alexandre, Maria Eduarda and Rafaela.

Last, but not least, we are grateful to Dr Roger Kelly, who contributed a great article for our Expert's corner. Thank you, Roger!!

Looking forward to seeing you in one of our training activities.

Warm regards

Francisco (Paco) Uzal
Chief Executive Officer
Davis-Thompson Foundation

EXPERT'S CORNER

Sterile synovitis in a calf with intestinal salmonellosis

by Dr Roger Kelly, University of Queensland Veterinary School (retired)

Describe the gross pathology of this opened hock joint (anterior view) from a 4-week-old calf with severe fatal fibrinous enteritis. A heavy growth of *Salmonella typhimurium* was obtained from the intestine, but no *Salmonella* was cultured from the normal-appearing synovial fluid from this joint. Describe the abnormalities, and can you explain them and the failure to recover *Salmonella* from the joint?

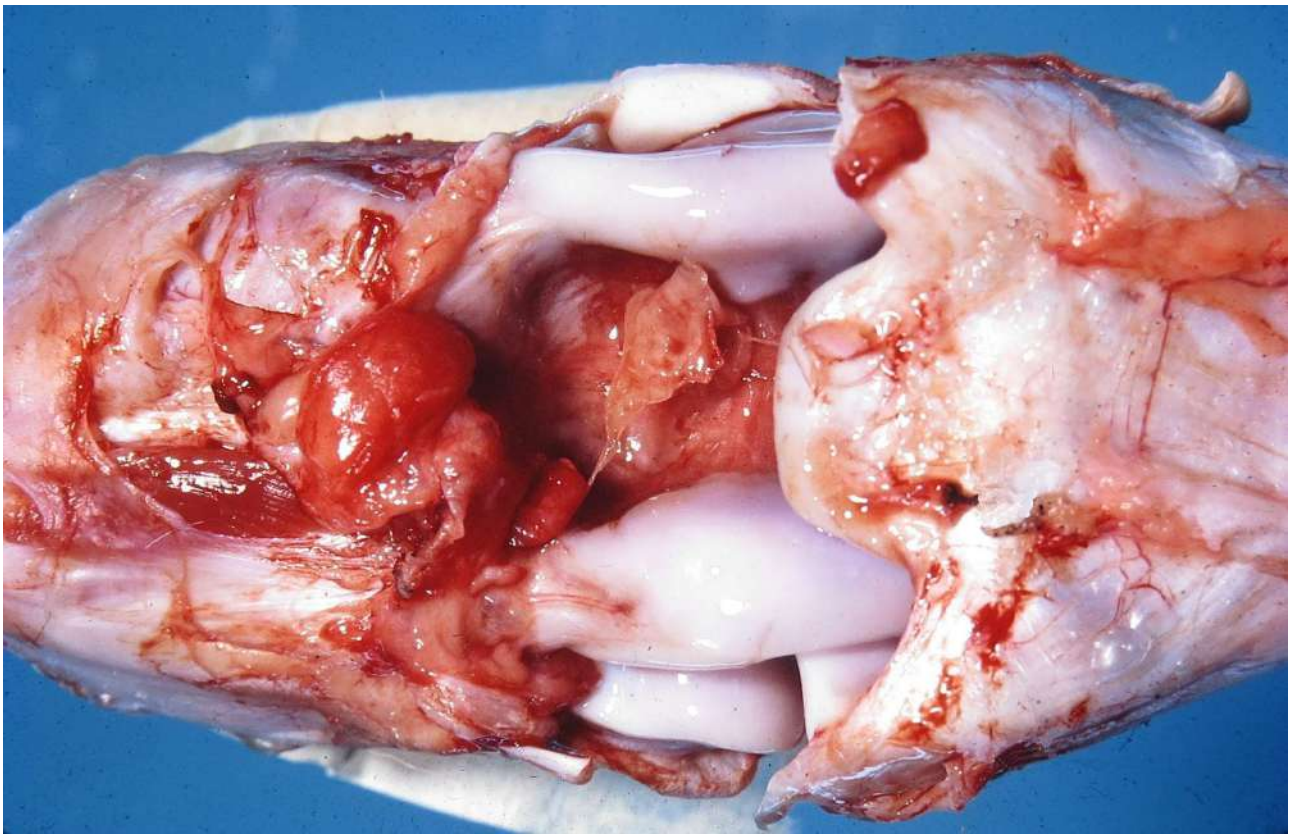


Image 1. Hock joint from a calf with intestinal salmonellosis

See answer in next page...

EXPERT'S CORNER

Response: In cases of severe acute alimentary tract inflammation or vascular alimentary tract catastrophe (such as visceral torsion) in calves, the synovium of compound joints often shows injected capillaries (hyperaemia) and fibrin deposition in the joint space. It is tempting to ascribe these changes to acute inflammation caused by bacterial invasion, but these joints are usually sterile, and we used to explain these changes as a response to shock and/or circulating endotoxin. But we were only guessing…

As evidence that bacteria do not have to be primarily involved in this reaction, the second image is of the hock joint of a young calf that died of abomasal torsion.

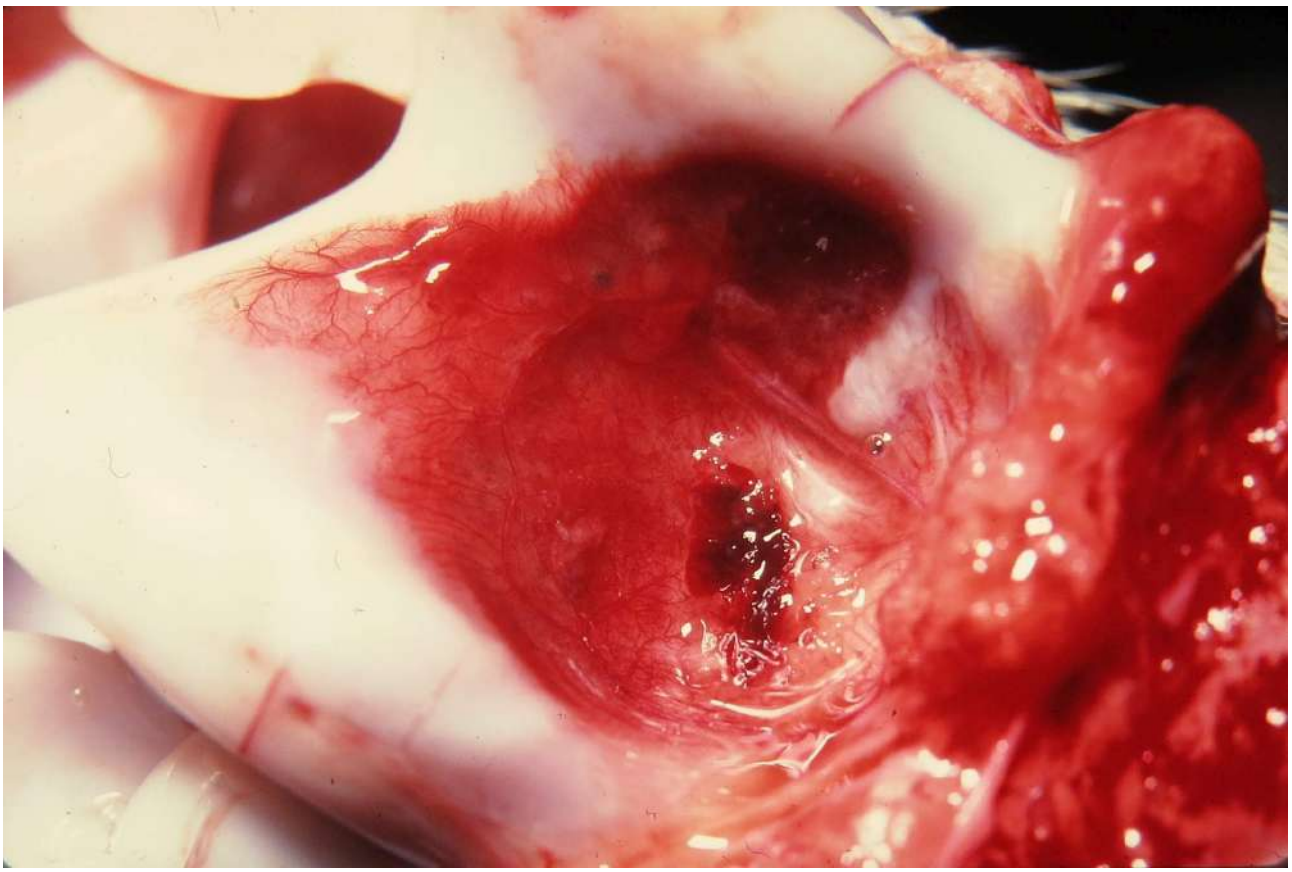


Image 2. Hock joint of a calf with abomasal torsion

JVDI IN FOCUS

Our February focus is an article appearing in the January issue: "**Bacillary hemoglobinuria in beef cattle infected with *Fascioloides magna* in Missouri**" by Rosalie A. Ierardi, Annabelle L. Burnum, Lauren E. Camp, Lauren E. Delaney, Tamara Gull, Brett M. Havis, Gayle C. Johnson, Dae Young Kim, Kei Kuroki, Renata M. Mammone, William J. Mitchell, Mauricio A. Navarro, Luis A. Rivero, Karen Shapiro, Amanda C. Smith, Courtney M. Valerio, Fred Williams III, Michael M. Zinn, Francisco A. Uzal.

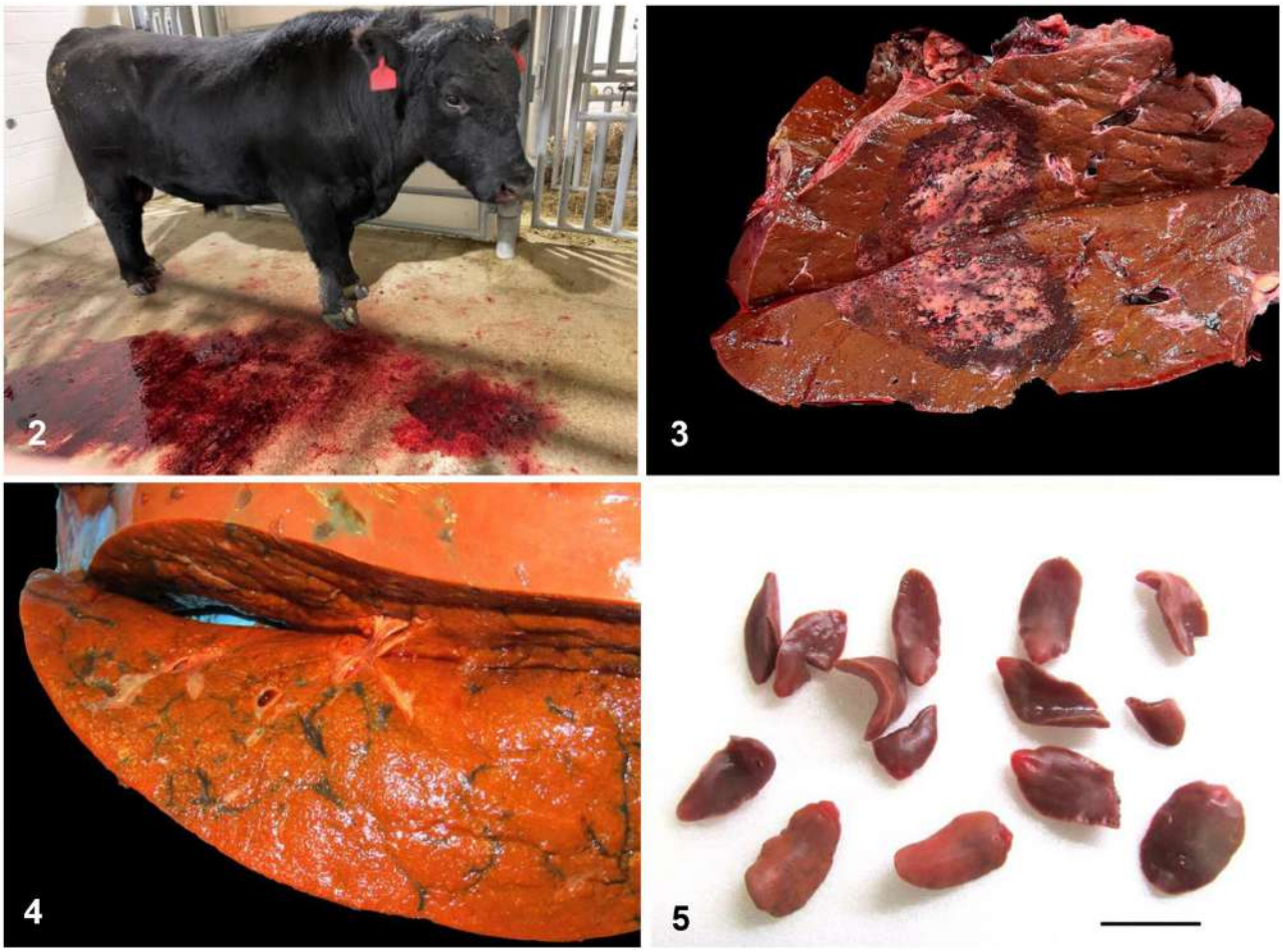
J Vet Diagn Invest 2025;37(1). https://journals.sagepub.com/doi/10.1177/10406387241280741

Bacillary hemoglobinuria (BH) is an infectious disease, mostly affecting cattle, caused by *Clostridium haemolyticum* (*C. novyi* type D), with acute hepatic necrosis and intravascular hemolysis. Cattle are typically predisposed to BH by liver injury caused by *Fasciola hepatica*, although cases have been reported in cattle without evidence of this parasite. Here we describe a cluster of 14 BH cases from 7 counties in north-central to central Missouri submitted to a veterinary diagnostic laboratory between December 2020 and April 2023. Postmortem examination in all cases revealed hemoglobinuria and acute hepatic necrosis with large numbers of gram-positive bacilli with terminal-to-subterminal spores. Flukes, fluke ova, and/or fluke pigment consistent with *Fascioloides magna* were identified in 12 of 14 cases. Sequences of the nuclear ribosomal internal transcribed spacer 1 (ITS1) from one fluke had 100% identity to *F. magna*. *C. novyi* was detected by fluorescent antibody testing of liver impression smears (11 of 12 cases) and by immunohistochemistry of liver sections (7 of 7 cases). PCR on formalin-fixed, paraffin-embedded tissues amplified the *C. haemolyticum* beta toxin gene in each of the 7 cases tested. To our knowledge, a confirmed cluster of BH associated with *F. magna* has not been reported previously in cattle.

The Journal of Veterinary Diagnostic Investigation is the official journal of the American Association of Veterinary Laboratory Diagnosticians. The mission of the Journal is to educate by informing readers of progress in veterinary laboratory medicine and related fields of endeavor. The key objectives of the JVDI are to promote the science of veterinary laboratory medicine and the betterment of animal and public health. JVDI fully supports diversity, equity, and inclusion in our publishing activities.

Editor-in-chief, Dr. Grant Maxie / https://journals.sagepub.com/home/VDI

JVDI IN FOCUS



Figures 2–5. Clinical and gross findings in cases of bacillary hemoglobinuria diagnosed at the University of Missouri VMDL. **Figure 2.** Clinical presentation of case 1, a bull with lethargy, hemoglobinuria, hematuria, and hematochezia. **Figure 3.** Liver of case 1 with a large focal area of acute necrosis. **Figure 4.** Pigmented fluke migration tracts in the liver parenchyma of case 11. **Figure 5.** Fascioloides magna recovered from the liver parenchyma in case 11. Bar = 3 cm.

The Journal of Veterinary Diagnostic Investigation is the official journal of the American Association of Veterinary Laboratory Diagnosticians. The mission of the Journal is to educate by informing readers of progress in veterinary laboratory medicine and related fields of endeavor. The key objectives of the JVDI are to promote the science of veterinary laboratory medicine and the betterment of animal and public health. JVDI fully supports diversity, equity, and inclusion in our publishing activities.

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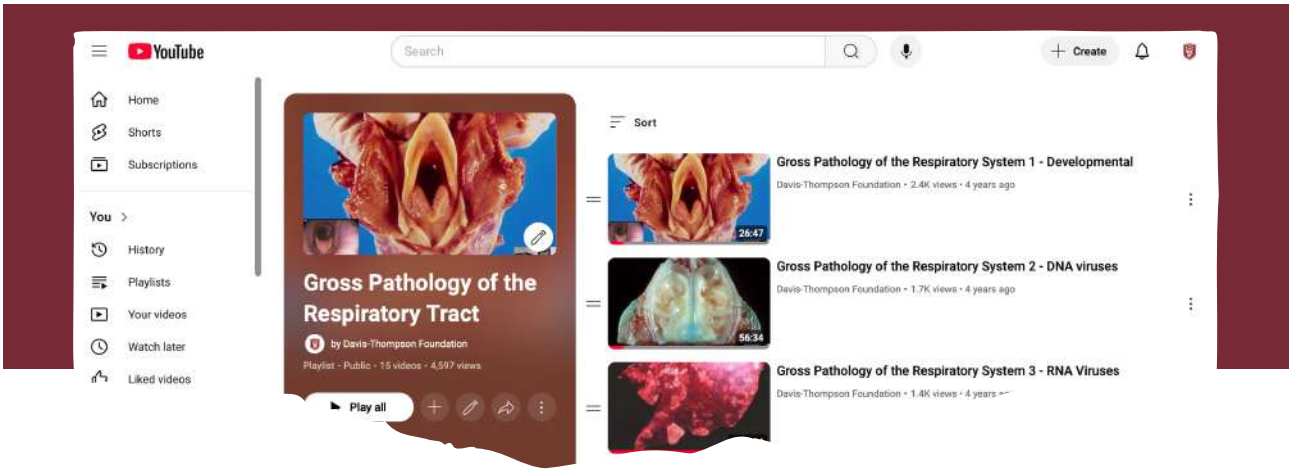
CAPTIONS IN PORTUGUESE



NEW EDUCATIONAL RESOURCES FOR PORTUGUESE SPEAKERS

Rafaela De Negri

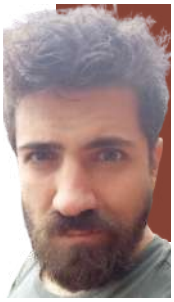
A new collaborative project aims to make the educational resources offered by the Davis-Thompson Foundation (DTFoundation) more accessible to Portuguese-speaking audiences.

Portuguese is the 8th most-spoken language globally, with 264 million native speakers. Despite its widespread use in countries like Brazil, Portugal, Angola, and Mozambique, it accounts for only 3.1% of online content (International Center for Language Studies, Inc., n.d.), highlighting the need for more accessible educational resources in Portuguese, especially in fields like veterinary medicine.

The DTFoundation open-access educational videos, which cover a wide range of veterinary pathology topics, have become invaluable resources for professionals and students worldwide. Yet, the majority of this content is available in English and Spanish, with limited offerings in Portuguese.

Dr. Alexandre Arenales, a Veterinary Pathology professor at Universidade do Oeste de Santa Catarina (UNOESC) in Brazil and a dedicated volunteer with the DTFoundation, recognized the importance of bridging this language gap.

Driven by a commitment to improving veterinary education and outreach, he has taken the lead on an ambitious project to add Portuguese closed captions to the Foundation's YouTube videos. Starting with the "Gross Pathology of the Respiratory Tract" playlist.



Dr. Arenales

Supported by his student, Maria Eduarda Cordeiro, he hopes this project will enhance the learning experience and deepen the understanding of critical pathology concepts for Portuguese-speaking students and professionals.

For more information and to access the closed captions, visit the instructional video linked below.

LEARN MORE

www.youtube.com/@DavisThompsonFoundation

DIAGNOSTIC EXERCISE

Case #: 252; **Month:** December; **Year:** 2024

Contributors: Ariadni Kotzias Bandeira[1], Silvio C. Fonseca[1] and Fábio S. Mendonça[1]

[1]Laboratory of Animal Diagnosis, Federal Rural University of Pernambuco, Recife, PE, Brazil.

Corresponding author: Fábio S. Mendonça (fabio.mendonca@ufrpe.br)

Clinical History: A technical visit to a farm was requested due to the birth of a neonate calf with anatomical deformities in its head. The calf was unable to suckle and, for this reason, was receiving fresh cow milk in a feeding bottle but died 3 days after birth.

Gross Images:

Figure 1.

*The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation. These exercises are contributed by members and non-members from any country of residence. Consider submitting an exercise! A final document containing this material with answers and a brief discussion will be posted on the CL Davis website (https://davisthompsonfoundation.org/diagnostic-exercise/).

DIAGNOSTIC EXERCISE

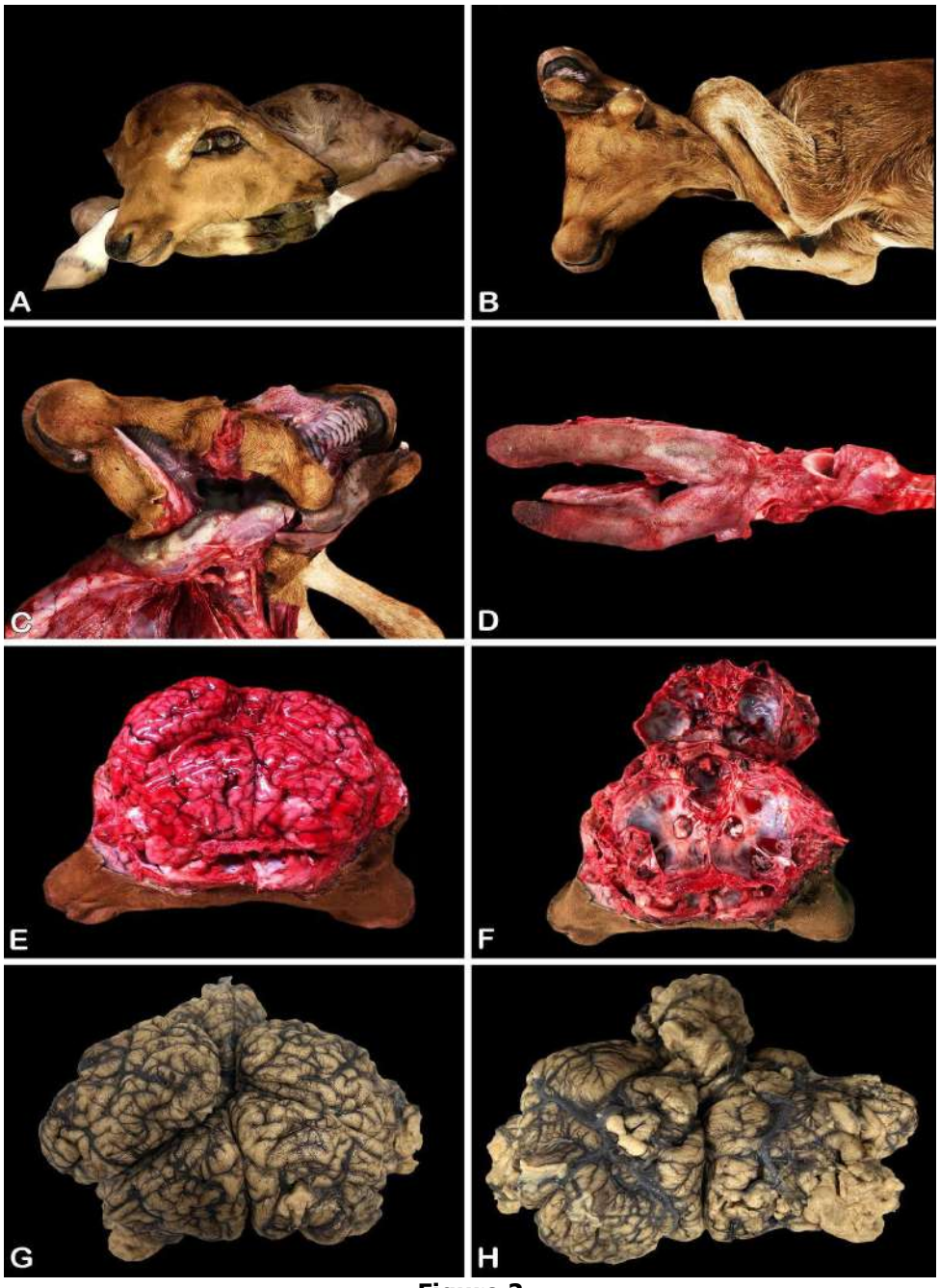


Figure 2

Follow-up questions:

- *Macroscopic description*
- *Name of the condition*
- *Possible etiologies*

Click here for answers

Associate Editor for this Diagnostic Exercise: Saulo Pavarini
Editor-in-chief: Claudio Barros

PATHOLOGY OF REPTILES REWIND

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RODADAS DE HISTOPATOLOGIA

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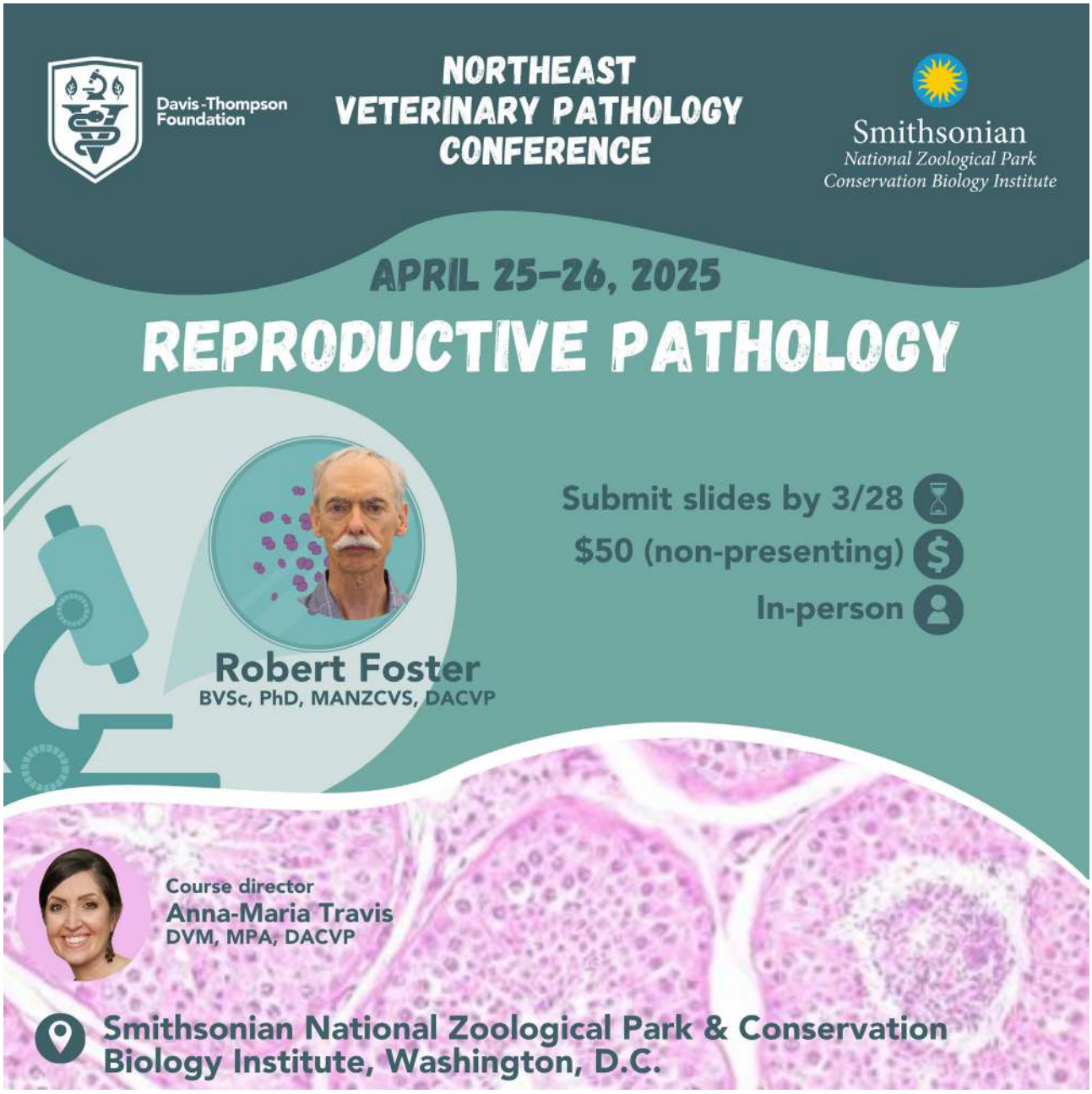
NORTHEAST CONFERENCE



More information available on the website soon

WEST COAST CONFERENCE

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CLASS & POLA

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WESTERN ROUND ROBIN CASE

CONTRIBUTING LABORATORY:
Oregon National Primate Research Center

Tissue from a juvenile female rhesus macaque *(Macaca mulatta)*

History:
A juvenile (1 year, 221 day old) female rhesus macaque, born at ONPRC, assigned to terminal research protocol and euthanized at experimental endpoint. Animal received a single SHIV SF162P3 (SIV/HIV chimera passaged in rhesus macaques) challenge intravenously at start of study. Animal was in the control group which did not receive any anti-viral treatment during the 15-week study. Plasma viral load was sustained between 10^7 and 10^8 SHIV RNA copies per mL.

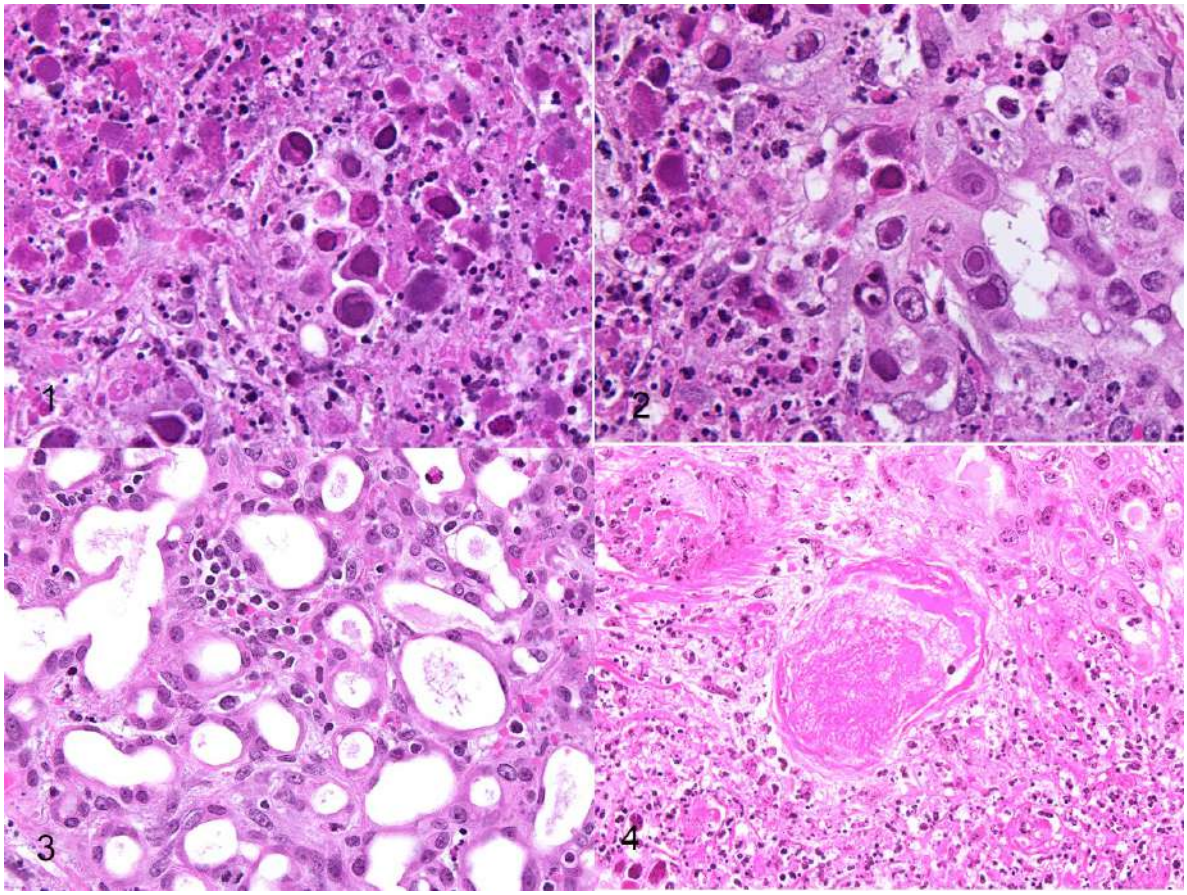
Gross Findings:
The pancreas is severely enlarged (27.1 g), firm, mottled red, white/tan with areas of dry tissue (necrosis); adhered to the omentum, spleen, left renal capsule, and duodenal and proximal jejunal serosa. The major intrapancreatic ducts are markedly enlarged with thickened walls.

Histology:
The majority of normal pancreatic architecture is effaced by extensive mixed coagulative and lytic necrosis. Regions of coagulative necrosis contain disrupted remnants of acini with markedly enlarged nuclei with marginated chromatin and large basophilic intranuclear viral inclusions (Figs. 1 and 2). Areas of lytic necrosis feature abundant cellular debris and neutrophils. At the margins of some lobules, there are clusters of dilated ductular structures lined by plump attenuated cells (regeneration) (Fig. 3). Multifocally, there is abundant fibrin deposition, hemorrhage, vascular necrosis and

WESTERN ROUND ROBIN CASE

numerous intravascular fibrin thrombi (Fig. 4). On the serosal surface and between lobules there is abundant fibroplasia with loose myxomatous matrix as well as areas of granulation tissue with lymphocytic, plasmacytic, and histiocytic inflammation. Several larger pancreatic ducts are moderately hyperplastic.

Morphologic diagnoses:
Pancreas: Pancreatitis, necrotizing, neutrophilic, severe, diffuse, chronic, with high numbers of intranuclear inclusion bodies.



WESTERN ROUND ROBIN CASE

Comments: The severe diffuse necrotizing pancreatitis is attributed to adenovirus infection, an opportunistic infection subsequent to immune suppression from high SHIV viral load. Characteristic deeply basophilic intranuclear inclusions which enlarge the nucleus with a narrow rim of marginated chromatin are present in unusually high numbers. The presence of immature proliferating ducts indicate a subacute to chronic time course. Immunohistochemistry for adenovirus was positive.

Similar to the previous case, this juvenile rhesus macaque had high sustained viral load throughout the study. Overall, the primary findings are attributable to SHIV infection and include lymphoid depletion of thymus, lymph nodes, and spleen, and numerous opportunistic infections. Marked interstitial pneumonia and mild lymphadenitis are attributed to cytomegalovirus infection, characterized by cytomegalic cells, numerous Cowdry type A intranuclear inclusion bodies, and neutrophilic inflammation. An additional minor focus of CMV infection is noted in a pelvic peripheral nerve. Cryptosporidia are associated with squamous metaplasia and loss of cilia in the trachea; mild multifocal mucinous bronchitis and bronchiolitis; and villous atrophy in the aborad jejunum and ileum. Trichomonad flagellates are present in high numbers in the stomach, cecum, and colon. Mesenteric inflammation is characterized by relatively low numbers of lymphocytes, plasma cells, and histiocytes with scattered foci of stellate to spindle shaped cells interpreted as reactive fibroblasts in relatively abundant loose basophilic (myxomatous) matrix. A causative agent is not identified; *Spironucleus* and *Enterocytozoon* are considered possible etiologies. Serositis/omentitis noted grossly is microscopically somewhat distinct from the mesenteric lesion in that there is limited fibroplasia, no myxomatous matrix, and more mesothelial proliferation and hypertrophy; this lesion is most consistent with Enterocytozoonosis.

Click here to see this slide in Noah's slidebox

ASVP CORNER

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IDEXX CASECONNEXX CORNER

Signalment: 9-year-old, male, neutered, Siberian Huskey dog

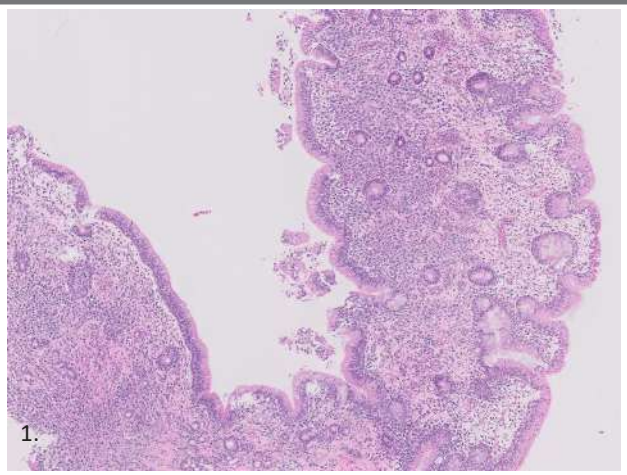
Source/ History: Patient presented for persistent sneezing and bloody mucoid nasal discharge from the left nostril. Progressed to bilateral nasal discharge.

Histopathologic Description:
Nasal cavity: There is dense, multifocal to coalescing to diffuse expansion and effacement of the nasal lamina propria by prominent populations of round cells. These round cells are accompanied by prominent eosinophilic and neutrophilic infiltrates. The round cells have distinct cell borders, small to moderate amounts of lightly basophilic and faintly granular cytoplasm, and a large round to oval to amoeboid nucleus which contains finely to coarsely stippled to lacy chromatin and poorly distinct nucleoli. Approximately 5-7 mitotic figures can be counted per 0.237 mm2. The nasal epithelium is multifocally attenuated or ulcerated. Giemsa and toluidine blue stains highlight strongly positive violet metachromatic cytoplasmic granules.

Interpretation:
Nasal cavity: Dense lamina proprial mast cell infiltrates, consistent with intranasal mast cell tumor

Comments:
Histopathology of these nasal endoscopic biopsies revealed marked infiltration of the nasal lamina propria by dense sheets of mast cells. As such, a diagnosis of an intranasal mast cell tumor is indicated. Mast cell tumors are an uncommon primary neoplasm of the nasal cavity, accounting for approximately 1% of all primary nasal neoplasms. The intranasal subset of mast cell tumors is reported to demonstrate a more aggressive clinical course than those tumors on the haired skin. In a brief case series of 20 dogs, metastases were reported in 55% of the cases, with the mandibular lymph node representing the most common site. Though distant metastases to distant abdominal organs was identified in only one case. Intranasal mast cell tumors appear prone to metastasis and have a generally poor prognosis, with survival times of less than 1 year reported for most cases.

Reference: Larsen et al. Vet Pathol 59(6): 915-921, 2022.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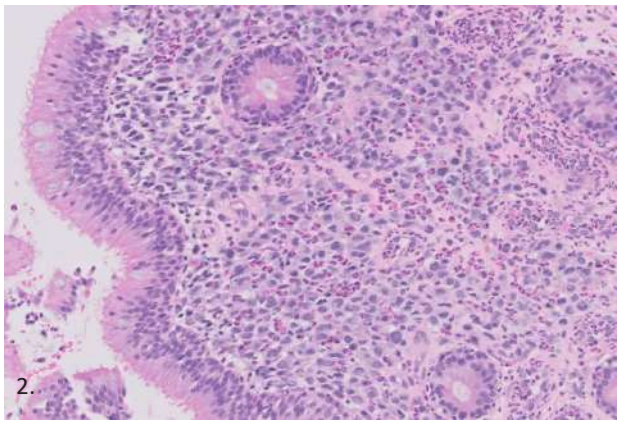
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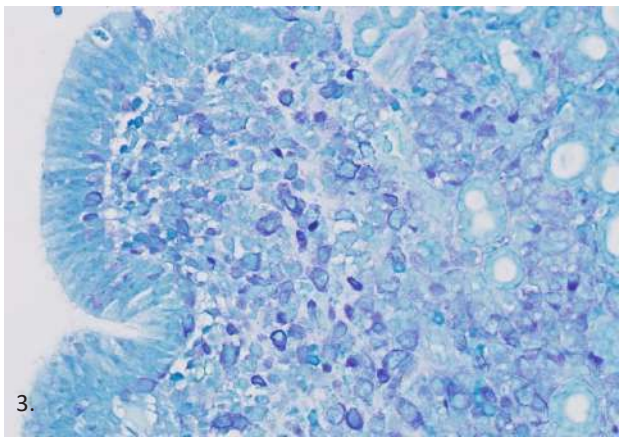
3.

Figure 1. Marked multifocal to coalescing sheet-like infiltrates of round cells expand and efface the lamina propria of the nasal mucosa. 10 x magnification, H&E. **Figure 2.** Higher power evaluation reveals round cells with lightly basophilic and faintly granular cytoplasm. The round cells are accompanied by prominent populations of eosinophils and neutrophils. 40x magnification, H&E. **Figure 3.** Metachromatic violet cytoplasmic granules are clearly visible. 60x magnification, Giemsa stain.

Case by:
Luke Haydock BVSc (Dist.) DVSc DACVP

IDEXX
CaseConnexx
Visit CaseConnexx.com to Register

LCPG CORNER

Country	City	Event	Speaker	Subject	Date	Organizer
Argentina	Córdoba	XIV Reunión Argentina de Patología Veterinaria	Don Meuten, Verena Affolter, Claudio Barbeito, Juan Micheloud, Francisco Uzal, others.	Multiple	Sept 24-26	Leonardo Minatel
Brazil	Cuiabá (Mato Grosso)	ENAPAVE	Amy Durham	Hematopoietic pathology	Sept 12	Renato de Lima Santos
	Sao Paulo	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 20-21	Renee Amorim
Chile	Santiago	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 17-18	Federico Cifuentes
Colombia	TBD	TBD	Raquel Rech	Neuropathology	TBD	Paola Barato
México	Mexico city	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 24-25	Itzel Yañez
	On line	5th Necropsy Course	Laura Romero, Rubén López, Francisco Carvallo, María del Carmen Carmona, Alfredo Pérez, Diana Galván, Mario Bedolla, Luís García, Elizabeth Rodríguez, Mireya Juárez, Vicente Ávila, Carlos González, Elizabeth Morales, Félix Sánchez	Gross lesions in animals	Ap 20 - May 14	Rubén López
Paraguay	Asunción	TBD	TBD	TBD	TBD	Mirtha Suárez
Perú	Lima	TBD	TBD	Intestinal morphometry	TBD	Rosa Perales
Venezuela	Barquisimeto	III Annual Meeting of the Venezuelan Division	Lauren Stranahan	Dermatopathology	Oct 17-18	Yaritza Salas

LCPG CORNER

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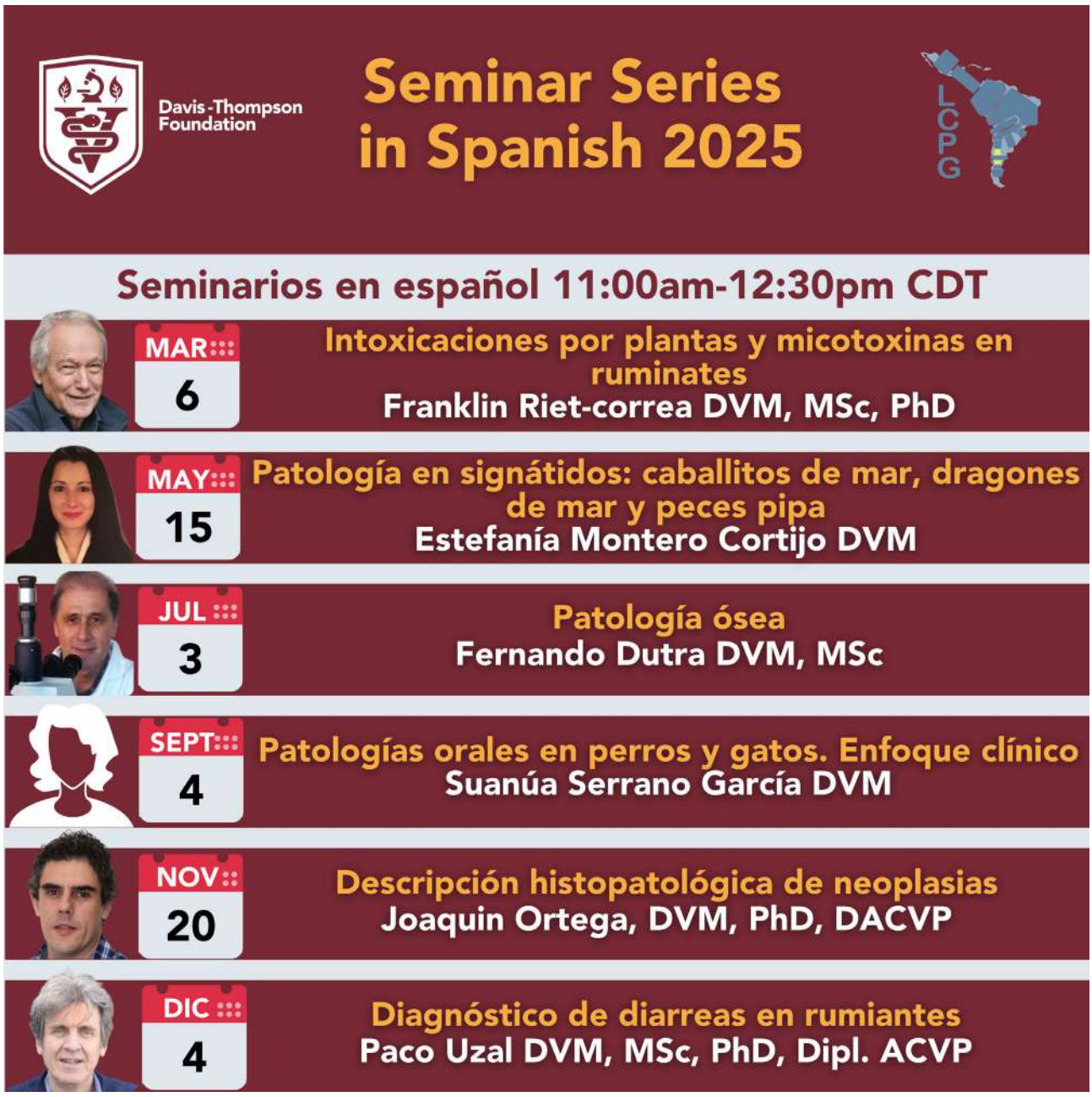
LCPG CORNER



Registration for individual sessions available on the website soon

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More information available on the website soon

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GHPN SCHOLARSHIPS

DTF-GHPN Education Scholarship For Select DTF On-Line and/or Course Material

Background. The Global Health Pathology Network (GHPN), under the umbrella of the Davis-Thompson Foundation (DTF) for Veterinary Pathology, conducts workshops in resource-constrained settings focused on enhancing veterinary diagnostic abilities using interactive educational modalities and adult learning principles. In part, the success of the GHPN training workshops is built on the successes of in-country veterinary pathologists and professionals in various locations worldwide. Consequently, to expand the sphere of the network through the development of capable, motivated professional cadre, the GHPN recognizes the importance of practicing professionals to have the opportunities for continued professional development.

Objective. Through GHPN's alignment with the DTF, the DTF will offer up to 10 educational scholarships to attend select DTF on-line courses and/or have access to the course material at no-cost.

Application Criteria. All applicants must prepare a 2-3 paragraph statement (no more than 300 words) addressing the following:

- Biographical information to include current work or academic history
- Reason(s) for applying for the DTF educational scholarship
- If awarded, the applicant's willingness to host a future GHPN workshop in his/her country.

Selection procedures and policies. GHPN leadership will screen all applications and submit the qualified applicants to the DTF for recommendation and final approval. Scholarship selection is based on the assessment of the applicant's statement and will be determined based on several factors

GHPN SCHOLARSHIPS

to include relevant background, aptitude, training and mentorship abilities in veterinary pathology and animal health. The applicant's current location of employment and/or training will also be considered to ensure equitable distribution of scholarship opportunities in the given year. Applicants should send applications 30-60 days prior to the beginning of the course to allow for adequate review of the application. A list of upcoming and/or recurring select courses can be found under "Events" tab on the DTF website: https://davisthompsonfoundation.org/

Application Procedures Questions and Answers:

Q: Where and when are applications available/due?

A: Open registration; applications can be received at any time

Q: Where should applications be sent?

A: A signed PDF or word document paragraph statements are sent to GH-PathNetwork@gmail.com

Q: What additional information/documents must accompany the application?

A: None; the signed paragraph statement is the only item required

Q: How and when will the scholarship award winners be notified?

A: Award winners will be notified via electronic correspondence sent to the email address in the paragraph statement

Q: When can the educational scholarships to attend select DTF on-line courses and/or have access to the course material be used?

A: Once awarded, the scholarship can be used at any time over a 365 day period from the date at which the scholarship is awarded. Any additional questions regarding the DTF-GHPN educational scholarships and/or the GHPN general can be submitted to GHPathNetwork@gmail.com

MISCELLANEOUS ANNOUNCEMENTS

JVDI Journal of Veterinary Diagnostic Investigation

The Official Journal of
American Association of Veterinary Laboratory Diagnosticians

"Special issue on racehorse diseases, injuries, welfare, and safety"

Racehorse welfare and safety is a vital component of the racing industry, with ever-increasing scrutiny and expectations from both the general public and the racing community. Since 2009, catastrophic musculoskeletal injuries sustained during Thoroughbred racing have decreased by over 40%, with continued room for improvement. The postmortem examination provides invaluable information not only in cases of catastrophic musculoskeletal injury, but in the event of exercise-associated sudden death, or deaths due to medical causes. We are inviting submissions to a JVDI special issue on racehorse diseases, injuries, welfare, and safety to be guest edited by Dr. Laura Kennedy, University of Kentucky; Dr. Francisco Uzal, University of California–Davis; Dr. Julie Engiles, University of Pennsylvania; and Dr. Sue Stover, University of California–Davis.

If you are interested, **please submit an abstract of up to 250 words describing your proposed topic by March 1, 2025.** Full research papers, case series, brief reports, and reviews of a focused topic will be considered, as will single-animal case reports if they are novel and include a review of the literature on the focused topic of the report. For abstracts on topics considered suitable for the special issue, authors will be notified by March 15, 2025, and full submissions will be expected by September 1, 2025. Submitted manuscripts will proceed through the usual JVDI peer-review and editorial process, with publication expected in the winter of 2025–2026. Page charges of $75/printed page will apply—there is no color page charge for online-only publications.

Please submit your abstract to guest editor Dr. Laura Kennedy, *drlaurakennedy@uky.edu*

MISCELLANEOUS ANNOUNCEMENTS

Dear Colleague,

The Society of Toxicologic Pathology (STP) is seeking to broaden its membership by reaching out to scientists and students (veterinary/residents/graduate) involved or interested in safety assessment, teaching, or research in toxicologic pathology/toxicology and inviting them to join the STP and attend our 44th Annual Symposium: Toxicologic Neuropathology: Basics and Beyond, scheduled for **June 22–25, 2025**, at the **Fairmont Chicago – Millennium Park** in **Chicago, Illinois**. The symposium promises an exceptional opportunity to engage with leading experts, share insights, and deepen our understanding of critical topics in toxicologic neuropathology.

To help us reach scientists and students at your institution with a variety of backgrounds and research interests, we kindly ask that you post our Annual Symposium (see below) in your departmental newsletter and/or continuing education section of your Website. Alternatively, please forward this information to the appropriate person or provide us with the contact information.

Please note that there are several different opportunities for **students** to apply for monetary awards through the generous Student Awards program. The deadline for most awards is **March 30**. See individual award details for nomination/application and selection processes. Registration fees are waived for active STP student members. Nonmember students who apply by **April 1** for STP student membership ($35 annual dues) and are approved can also register for free. In addition, *nonmember meeting registrants who apply for membership by July 1 and are accepted will receive complimentary membership for the remainder of* 2025. Please visit www.toxpath.org to apply for membership.

Important Deadlines

- Abstract Submission Deadline: **March 30**
- Student Awards Application Deadline: **March 30**
- Early Bird Registration Deadline: **April 30**

Student Awards and Grants (Deadline: March 30)
(**http://www.toxpath.org/am2025/awards.asp**)

- Student Travel Grants
- STP Young Investigator Awards
- STP Environmental Toxicologic Pathology SIG Student Research Award
- The Daniel Morton and Laura Dill Morton Scholarship *(Deadline: November 1, 2025)*
- IATP/STP Charles Capen Trainee Award *(Deadline: November 1, 2025)*

For the Web:

SOCIETY OF TOXICOLOGIC PATHOLOGY (STP) 44TH ANNUAL SYMPOSIUM

STP cordially invites you to the **STP 44th Annual Symposium: Toxicologic Neuropathology: Basics and Beyond**, scheduled for June 22–25, 2025, at the Fairmont Chicago – Millennium Park in Chicago, Illinois. The unifying theme of the symposium, "Effective animal-to-human translation in neurotherapeutic development," features five comprehensive sessions, covering topics such as Fundamentals of Neuropathology, Neurodegenerative Diseases, Neurobiomarkers, Neuro-Omics, Hot Topics, Challenges, and Future Directions. Join your colleagues and immerse yourself in a dynamic program with cutting-edge scientific sessions, enriching continuing education courses, and valuable networking opportunities. Please visit the Annual Symposium website for additional information and to review the preliminary program.

Thank you very much.

Best regards,
STP Membership Committee

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Tel: 703-438-7508 · Fax: 703-438-3113 · Email: stp@toxpath.org · Website: www.toxpath.org

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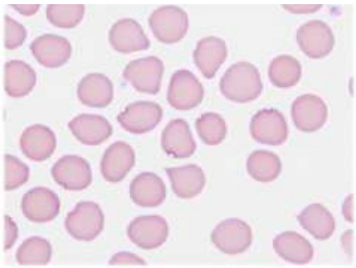

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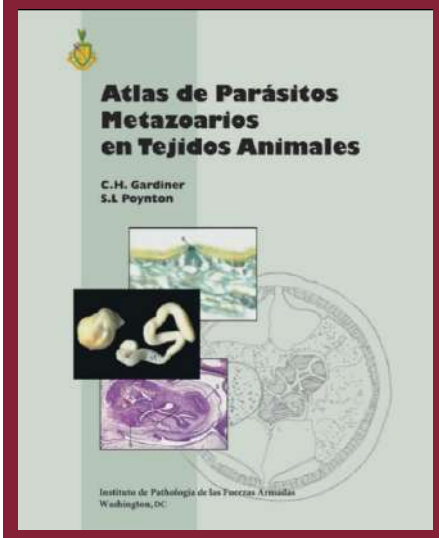

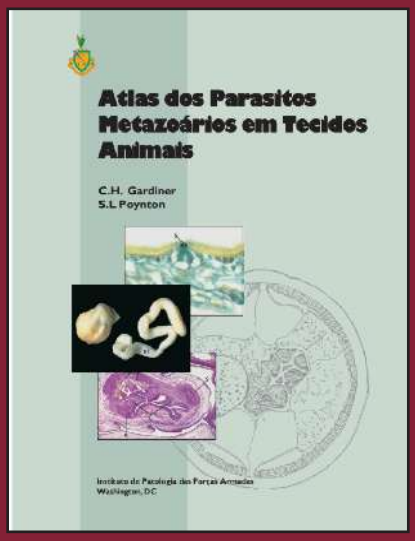

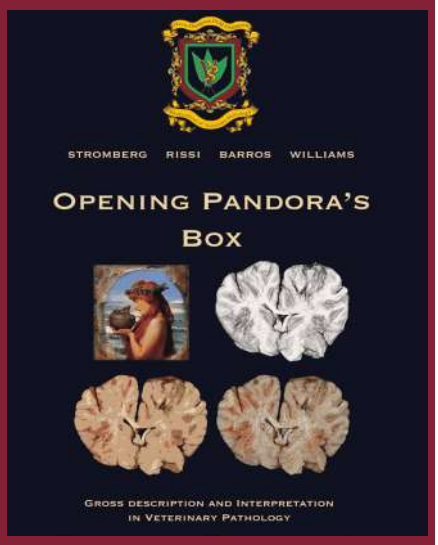

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Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodachromes and other similar materials for its Correspondence Division and Study Centers. All materials should be well identified with as much accompany history and discussion as possible, as these materials are expressly used for teaching. Moreover, as the Foundation is a publicly donative charity, all donated materials are tax-deductible. For more information, please contact Dr. Bruce Williams at **bruce.h.williams.dvm@gmail.com.**

Davis-Thompson Foundation Pathology Externship

Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always interested in having veterinary students apply for an externship and we would like to add more externship sites that do not usually have veterinary students, to help increase their interest and knowledge of pathology with some off-campus experience. For more information, contact Dr. Jim Britt, **jobritt@sbcglobal.net;** 501-912-1449.