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DVM FOUNDATION

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For the advancement of veterinary
and comparative pathology

THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

February

VOL. 54



Gross photograph comparing a chicken with a normal iris (left) to one with ocular Marek's disease (right) in which the iris is infiltrated by lymphocytes resulting in grey discoloration. Presenting complaint was progressive paresis and paralysis involving the hindlimbs and wings. Nearly every examined organ, including both sciatic nerves, were infiltrated by lymphocytes.

Marek's disease is caused by a _____ leading to the proliferation of _____

- a) Alphaherpesvirus; B cells
- b) Alphaherpesvirus; T cells
- c) Gammaherpesvirus; B cells
- d) Gammaherpesvirus; T cells

INSIDE THIS ISSUE

Monthly cover photograph winner:

Brianne M Taylor

Oklahoma State University

Answer: b. Marek's disease is caused by an alphaherpesvirus leading to the proliferation of T cells

-Dr. Katherine D. Watson - Cover Image Editor

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

- | | | | |
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MESSAGE FROM THE CEO

Dear colleagues,

Welcome to the February 2024 issue of the Davis Thompson Foundation Newsletter prepared by our outstanding managing editors, Javier Asin and Jeann Leal. This issue comes, as usual, with myriad information on all our training activities around the globe, in English, Portuguese and Spanish. By the time you receive these pages, the first of the Foundation's "Big 4", our 2024 General Pathology Review Course, will be in full swing and scheduled to finish on February the 8th with a special mock exam. This course is being offered fully online. Registration for the other three of the "Big 4" (CLIIC, POLA and Descriptive Pathology Course) will open soon. Keep an eye out for them.

Starting this month, we will be featuring a case of the Western Round Robin, a slide conference that has been running for 30+ years among veterinary diagnostic laboratories. This year, for the first time, the conference is being held digitally and the slides submitted by the participating laboratories are uploaded to Noah's slidebox. Thanks a lot to all the participants! You can check the conference in the website ([https://davisthompsonfoundation.org/wsi_archive/?wdt_column_filter\[2\]=West%20Coast%20Round%20Robin](https://davisthompsonfoundation.org/wsi_archive/?wdt_column_filter[2]=West%20Coast%20Round%20Robin)) and in the following pages.

We are very proud to announce the free online publication of two atlases of Histo-pathology and Gross pathology, respectively, of equine abortion and reproductive loss. These two masterpieces were produced by a multidisciplinary team of equine clinicians, epidemiologists and pathologists in Australia. Look them up in the E-Books section of our website or follow this link: <https://davisthompsonfoundation.org/equine-abortion-ebook-demo/>

Also, look at the announcement of the "Archivo Veterinario del Este" a great compilation of cases put together by Dr Fernando Dutra in Uruguay. As we explained in previous editions, this document is in Spanish, but for those who are not familiar with this language, the outstanding images speak volumes in the international "language of pathology".

Last but not least, I want to highlight again our great Volunteer Appreciation Campaign that started last year and will continue for several months to come. Thank you Rafaela De Negri for the great job you are doing organizing this campaign! All the activities of the Foundation are done by volunteers, who are the pillars of our organization. Please thank them warmly any time you have the pleasure to interact with them.

Looking forward to seeing everyone in one of our seminars.

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

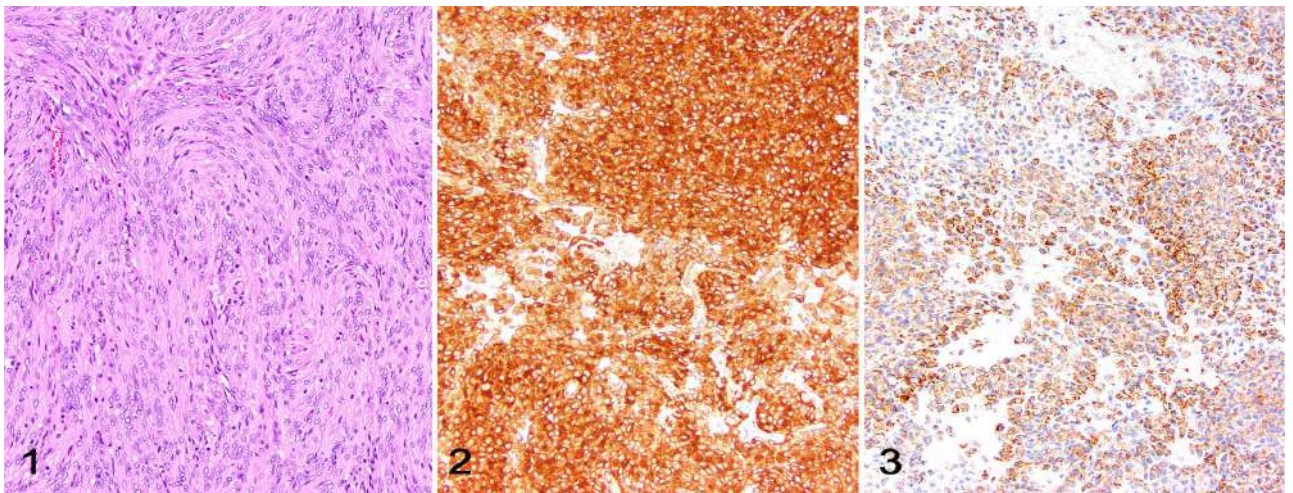


JVDI IN FOCUS

Our February focus is an article appearing in the March issue: “**Diagnostic immunohistochemistry of primary and secondary central nervous system neoplasms of dogs and cats**” by Daniel R. Rissi, Andrew D. Miller, Elena A. Demeter, Molly E. Church, Jennifer W. Koehler.

J Vet Diagn Invest 2024;36(2). <https://journals.sagepub.com/doi/epub/10.1177/10406387231221858>

The diagnosis of primary and secondary CNS neoplasms of dogs and cats relies on histologic examination of autopsy or biopsy samples. In addition, many neoplasms must be further characterized by immunohistochemistry (IHC) for a more refined diagnosis in specific cases. Given the many investigations assessing the diagnostic and prognostic IHC profile of CNS neoplasms in the veterinary literature, it may be difficult for the diagnostic pathologist or pathology trainee to narrow the list of reliable diagnostic IHCs when facing a challenging case. Here we compile a comprehensive list of the most diagnostically relevant immunomarkers that should be utilized for the diagnostic support or confirmation of the most common primary and secondary CNS neoplasms of dogs and cats.



Figures 1–3. Meningioma in the brain of a cat. **Figure 1.** Meningothelial meningioma characterized by sheets and lobules of neoplastic meningeothelial cells with abundant eosinophilic cytoplasm and round-to-oval nuclei. H&E. **Figure 2.** Neoplastic meningeothelial cells with widespread membranous immunolabeling for vimentin. **Figure 3.** Neoplastic meningeothelial cells with widespread membranous immunolabeling for E-cadherin.

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>

VOLUNTEER CORNER

Hello! I'm Fábio Ranyeri



What's your background?

I'm from Fortaleza-Ceará, in the northeast of Brazil. I received my Doctor of Veterinary Medicine degree in 2018 from the Universidade Estadual do Ceará. I completed a residency program in veterinary anatomical pathology at the Universidade de Brasília, where I advanced my pathology skills and brought to my hometown where after worked at a private laboratory until I established my own practice.

What's your role?

I assist at the foundation's marketing and video-editing teams I create flyers, edit videos, make them available, etc.

Tell us more about yourself!

I love the heavy diagnostic routine of a surgical pathology lab, the more the better, and I am passionate about ocular and bone pathology. I want to receive board certification from the ACVP, for that, I am seeking a formal residency at an American program. On my free time I catch up on scientific articles, spend time at the beach and I cycle. Ceará is a wonderful state with gorgeous beaches and great culinary. If you ever visit, just let me know and I will share the locals' secrets with you!



DIAGNOSTIC EXERCISE



Case #: 228; **Month:** January; **Year:** 2024

Contributors: Caroline S. Silveira¹, Melissa Macías-Rioseco², Francisco A. Uzal³, (fauzal@ucdavis.edu). ¹Animal Health Research Platform, National Institute for Agriculture Research (INIA), La Estanzuela Experimental Station, Colonia, Uruguay. ²California Animal Health and Food Safety Laboratory System, Tulare Branch, University of California-Davis, Tulare, CA, USA ³California Animal Health and Food Safety Laboratory System, San Bernardino Branch, University of California-Davis, San Bernardino, CA, USA
mmaciasrioseco@ucdavis.edu

Clinical History: Two-year-old female goat with a 2-day history of fever, bloody vaginal discharge, and anorexia after kidding. Due to poor prognosis, euthanasia was elected.

Gross Findings: The main necropsy findings were observed in the uterus. The left uterine horn was enlarged and had three well-demarcated bulging, transmural, irregular, dark red to blueish foci visible from the serosal surface (Fig. 1A). In the lumen of the uterus there was large amount of dark red fluid, and the mucosal surface was dark red (Fig. 1B).



Figure 1. Uterus.



DIAGNOSTIC EXERCISE



Microscopic Findings:

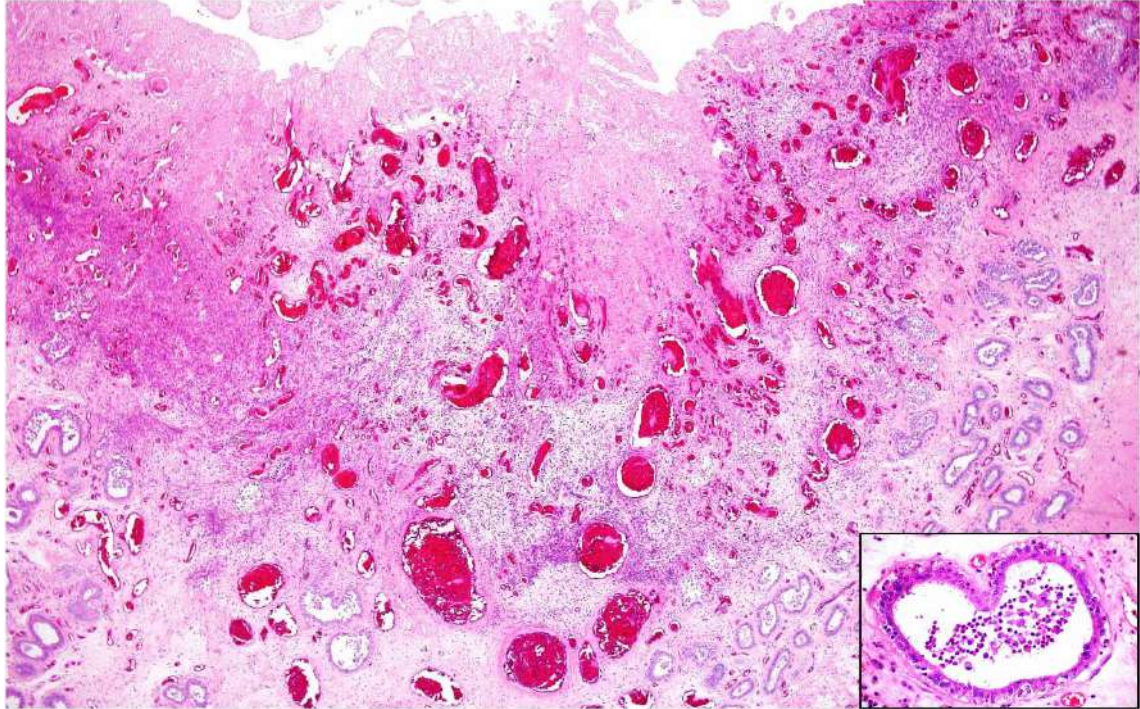


Figure 2

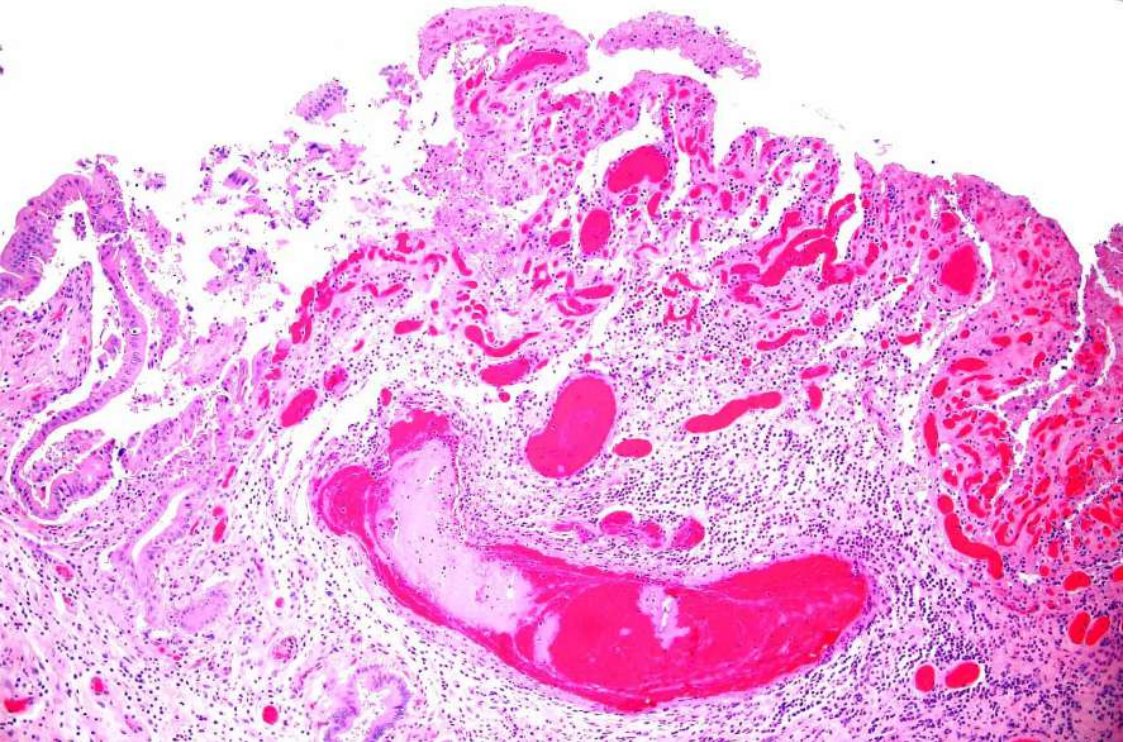


Figure 3



DIAGNOSTIC EXERCISE

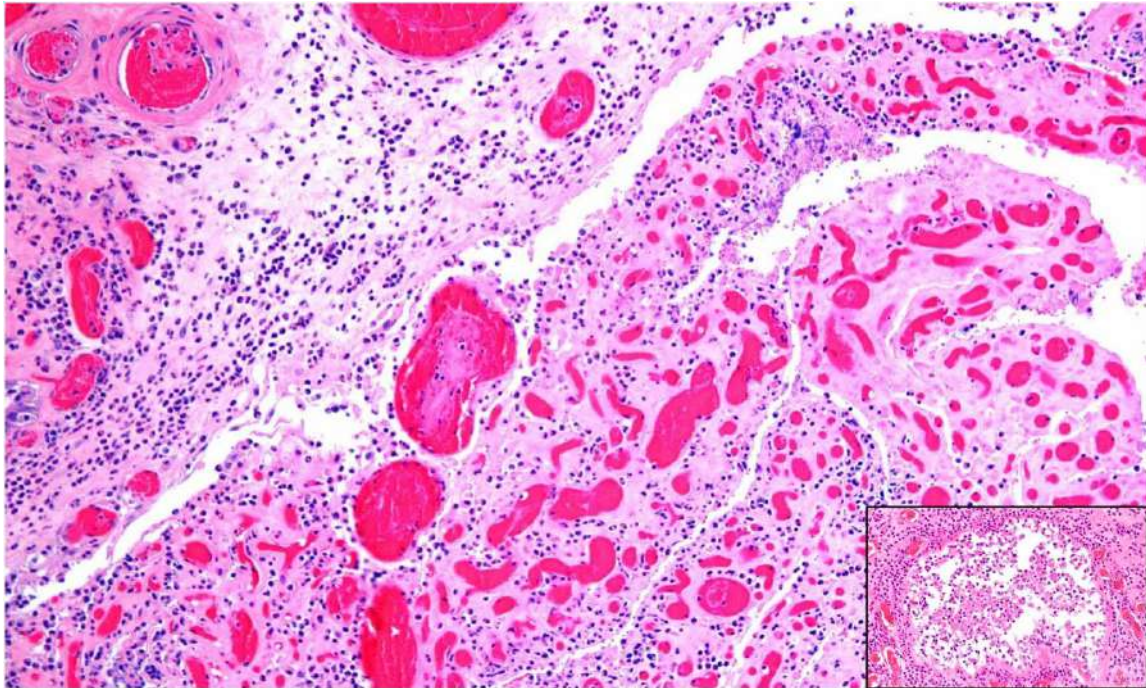


Figure 4

Follow-up questions

- Histologic description*
- Ancillary test*
- Morphologic diagnosis*
- Etiologic diagnosis*

Click here for answers

Editor-in-chief: Claudio Barros

Associate Editor for this Diagnostic Exercise: Francisco A Uzal

*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 Foundation's website (<https://davisthompsonfoundation.org/diagnostic-exercise/>).

SEMINAR REVIEWS



GHPN & DTF AFRICAN PATHOLOGY WORKSHOPS 2023

by Kathy Gabrielson



Morocco

In October of 2023, a veterinary pathology workshop was held on zoonotic diseases at Rabat, Morocco at the Institut Agronomique et Vétérinaire Hassan II (veterinary school). It was sponsored by the veterinary school faculty, the Dean's office, Global Health Pathology Network (GHPN) and GHPN team member Kathy Gabrielson. Veterinary school faculty hosts were Dr. Ikhlass El Berbri, head of Microbiology, Immunology and Infectious Diseases Unit and veterinary pathologist, Dr. Faouzi Kichou, chair of the department. The group included 30 veterinary and graduate students who worked in small groups to discuss 5 unknown cases all zoonotic diseases that occur in Morocco including, Leishmaniasis, Rabies, Brucellosis, Anthrax and Echinococcosis. For each disease, there was a human case and an animal case used for comparison of clinical signs and gross and histopathology. Impacts of this workshop included future plans for a Fulbright research application for one of veterinary school faculty. Additionally, post-workshop discussions with the director of the Institut Agronomique et Vétérinaire Hassan II centered on the great success of the students in group discussions with the English format, who are normally taught in French. Veterinary school cuisine on Fridays includes Couscous and rivaled 5-star restaurants! The veterinary school has expressed interest to host more pathology workshops.



SEMINAR REVIEWS

Kenya

Two veterinary pathology workshops were held in late November 2023 in East Africa. The first workshop was held in Nairobi, Kenya at the University of Nairobi Veterinary campus on November 24th organized and supported by the Davis-Thompson Foundation, the Global Health Pathology Network, University of Nairobi veterinary and medical schools and Dr. Dan Milner, M.D. and the Center for Global Health. The University of Nairobi hosts were veterinary pathologist Dr. Peter Karuri Gathumbi and medical pathologist Dr. Edwin Walong. The Deans of both schools assigned a team of faculty to facilitate planning of the event. Dean Mande was in attendance of the workshop and addressed the need for workshops in the future between the veterinary and medical schools.



University of Nairobi veterinary and medical students and pathology residents were divided into multidisciplinary collaborative groups and assigned disease scenarios (12 diseases common to Kenya) that included signalment, history, clinical pathology data, gross and histopathology of the disease in both a human and an animal. Many of the cases were from published real-life disease outbreaks. Groups of 5-7 participants reviewed data and then shared their experiences and conclusions with the larger group in an engaging and educational interactive session. A competitive pathology Jeopardy game on these same diseases allowed the students to show what they had learned. The day activities were facilitated by Drs. Kathy Gabrielson, Linden Craig, and Ed Gabrielson from the US, and Drs. Peter Karuri Gathumbi (DVM) and Edwin Walong (M.D.) from University of Nairobi. Snacks included yogurt produced by the veterinary school and it was delicious! On the previous day, November 23rd, Dr. Linden Craig who happe-

SEMINAR REVIEWS

ned to be in Kenya for USDA Faculty Exchange Program, dazzled the veterinary students with an interactive multiple-choice gross pathology exam. The students used an application on their phones to answer the questions in a class poll using PointSolutions. Students enjoyed this novel way to bring them into the diagnosis discussion.



Rwanda

A three-day veterinary pathology workshop was held at the University of Rwanda veterinary school in Nyagatare, Rwanda from November 28-30th. This workshop was organized and supported by the Davis-Thompson Foundation, the Global Health Pathology Network (GHPN), Gorilla Doctors, University of Rwanda veterinary school and medical school. Dr. Emmanuel Irimaso, chairman of Department of Veterinary Medicine was the faculty host for the workshop. Dr. Jean Claude Byishimo, Anatomy instructor, facilitated the discussions with veterinary students. On day one, veterinary students reviewed and practiced basic ruminant and poultry necropsy techniques with veterinarian Dr. Noel Noheri of Gorilla Doctors. Notes were provided by Dr. Sarah Corner of GHPN. The next learning sessions were organized by Dr. Kathy Gabrielson and Dr. Noel Noheri who focused on common diseases in Rwanda for poultry and small ruminants using case scenarios. Groups of 5-7 veterinary students (assigned to teams) reviewed cases (gross and histopathology provided) and then the entire group of 50 veterinary students met to review the cases. Competitive Jeopardy games were used to review and test the material learned. Students enjoyed this interactive way of reviewing and testing the material. The third



SEMINAR REVIEWS



learning experience was based on One Health case scenarios. The University of Rwanda veterinary students from Nyagatare were joined by 15 medical students from the University of Rwanda medical school in Kigali, Rwanda. The Deans of both schools helped facilitate the two-day workshop. Dr. Richard Nduwayezu faculty member from the medical school selected and facilitated the transport of the medical students who attended. Dr. Dan Milner, M.D. (through Center for Global Health) provided travel and housing funds for these medical students and representative faculty Dr. Mojeed Akorede Gbadamosi who all traveled 4 hours to attend this event. Twelve diseases common to humans and animals were presented as unknowns and the medical and veterinary students collaborated by answering multiple questions posed to the groups. Group meals were provided by the veterinary school at a local Rwandan food restaurant. The cooked greens were a favorite! Learning material developed for

these workshops was given electronically to all participants for each workshop. Both veterinary and medical schools plan to hold another event like this one in the future.



BANGLADESH GHPN SEMINAR



Davis-Thompson
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Sher-e-Bangla Agricultural University
Since 1938



**CPD TRAINING FOR ACADEMIC VETERINARIANS ON
ANIMAL DISEASE PROGRESSION AND THEIR DIAGNOSIS
IN THE LABORATORY AND FIELD**

FEBRUARY 13-15, 2024

information:

vetkbm.meph@sau.edu.bd



K.B.M SAIFUL ISLAM
DVM, PGD, PhD



DERRON "TONY" ALVES
DVM, DACVP



JAVIER ASIN
DVM, PhD, DECVP



BRANDEN NETTLES
DVM, MPH



in person



Faculty of Animal Science & Veterinary Medicine (FASVM)
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

[Click here to register](#)

HISTO ROUNDS IN SPANISH



RODADAS DE
HISTOPATOLOGÍA DA LCPG



Davis-Thompson
Foundation

ENFERMEDADES VIRALES

Quinta-feira 15 de febrero, 2024
10:30 AM - 11:30 AM CT

INTERACTIVO



VIRTUAL

EN ESPAÑOL



Mariano Carossino

DVM, PhD, DACVP, DACVM

[Click here to register](#)

CURSO DE NECROPSIA



Davis-Thompson
Foundation



4to Curso de Necropsia: Identificación e interpretación de lesiones macroscópicas en animales

8, 10, 12, 15, 17 y 19 de abril, 2024 (16h- 19h, CST)



Francisco R. Carvalho Chaigneau
DVM, DSC, DACVP



Mireya Juárez Ramírez
MVZ, EDV, MC, DRA



Alfredo Pérez Guiot
MVZ, MMVZ



Diana P. Galván Vela
MVZ, MMVZ



Mario A. Bedolla Alva
MVZ, MMVZ



Laura P. Romero Romero
MVZ, MC, PhD



Gerardo Salas Garrido
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Carlos M. González Riveros
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Rubén A. López Crespo
MVZ, MMVZ, CERTAQV



Elizabeth Morales Salinas
MVZ, MC, DR



Elizabeth T. Rodríguez Galindo
MVZ, EDCV

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EASTERN EUROPEAN MEETING

5th Annual Davis-Thompson Foundation Eastern European Veterinary Pathology Meeting

May 22-24, 2024



Davis-Thompson Foundation



Veterinarski fakultet
Faculty of Veterinary Medicine



Sveučilište u Zagrebu
University of Zagreb



Daniela Denk
DECVP, MRCVS, DR MED VET



Ivan-Conrado Šoštarić-Zuckermann
DVM, PhD, DECVP



Julie Engiles
DVM, DACVP



in person



220 - 250



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EUROPEAN DESCRIPTIVE PATHOLOGY



Davis-Thompson
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SAVE THE DATE

EUROPEAN DESCRIPTIVE VETERINARY PATHOLOGY COURSE

JUNE 25-29 2024



JEY KOEHLER
DVM, PHD, DACVP



LINDEN CRAIG
DVM, PHD, DACVP



PATTY PESAVENTO
DVM, PHD, DACVP



SCHOOL OF VETERINARY MEDICINE,
CEU UNIVERSIDAD CARDENAL HERRERA, VALENCIA, SPAIN



IN PERSON



[Click here to register](#)

POLA & EUROPOLA SAVE THE DATE

A poster for the 2024 seminars. At the top left is the Davis-Thompson Foundation logo, and at the top right is the University of Pennsylvania logo. The main text reads "SAVE the DATE" in large, bold letters, with "the" in a smaller, blue script font. Below this, it says "CURRENT LAB ANIMAL SCIENCE SEMINAR (CLASS) & PATHOLOGY OF LAB ANIMALS (POLA) 2024". The dates are listed as "CLASS JULY 20-21" and "POLA JULY 22-26". At the bottom, it indicates "in person" and "Hill Pavilion, UPenn. Philadelphia, PA".

In 2024 there will be CLASS, POLA...

...and EuroPOLA!

A poster for EuroPOLA 2024. At the top left is the Davis-Thompson Foundation logo, and at the top right is the University of Bern logo. The main text reads "SAVE THE DATE" in large, bold letters, with "EuroPOLA 2024" below it. Underneath is "PATHOLOGY OF LAB ANIMALS". The dates are listed as "OCT 28 - NOV 1". At the bottom, it indicates "in person" and "UNIVERSITAT BERN, BERN SWITZERLAND". There are also logos for COMPATH and a mouse silhouette.

More information in our website soon

WESTERN ROUND ROBIN CASE

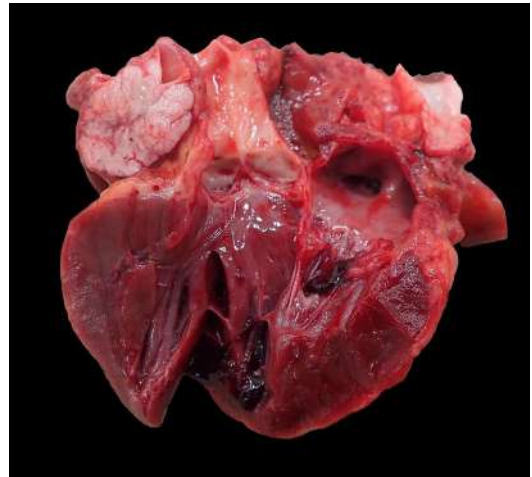
CONTRIBUTING LABORATORY: NORTH DAKOTA STATE UNIVERSITY DIAGNOSTIC LABORATORY

Clinical history:

A 5-year-old, male, intact Boston Terrier canine with previous diagnosis of chronic heart failure for 1 month.

Gross findings:

The abdomen is severely distended with 150cc of thin, clear, serosanguinous fluid (ascites). There are multiple, fibrous adhesions along the ventral body wall and from the liver capsule to the diaphragm. The liver is small, multilobulated, firm, and dark red. The pericardium has 20cc of thin, clear, serosanguinous fluid (pericardial effusion). The heart is small with a 1.5x1.5x0.5cm, multilobulated, bulging, white, firm mass attached to the adventitia of the pulmonary artery adjacent to the aorta. The aorta has multiple depressions (jet lesions). The stomach has multiple, round, depressions near the pylorus.



Histopathology:

Aortic mass: Effacing the adventitia of the pulmonary artery and ascending aorta is a pseudo-encapsulated, well demarcated, densely cellular neoplasm composed of polygonal cells arranged in nests and packets supported by a thin rim of fine fibrovascular stroma with lobules separated by a dense band of fibrovascular connective tissue. Neoplastic cells have indistinct borders with moderate amounts of eosinophilic, frequently vacuolated, granular cytoplasm, and a round, centrally located nucleus with coarsely stippled chromatin and 1-2 variably prominent nucleoli. There is mild anisocytosis and anisokaryosis. There is one mitotic figure in 2.37mm². There are multiple infiltrates of lymphocytes, plasma cells, and macrophages (often hemosiderin-laden), as well as areas of scattered hemorrhage.

Diagnosis: Chemodectoma

WESTERN ROUND ROBIN CASE

Comment:

For definitive diagnosis, immunohistochemistry for Chromogranin A was performed on serial sections of the aortic mass (submitted to Animal Health Diagnostic Center, Ithaca, NY). There was a strong positive cytoplasmic immunoreactivity to the neoplastic cells confirming our diagnosis of chemodectoma. Controls were appropriate.

Chemodectomas are neoplasms that arise from chemoreceptor organs which are responsible for detecting and responding to changes in carbon dioxide, pH, and oxygen tension leading to the regulation of respiration and circulation. Chemoreceptor organs are found throughout the body but the most prevalent area for development of neoplasm, in domestic animals, is the aortic body. Additionally, neoplasms are observed in the carotid body, although this is a less prevalent area. The reverse is true in humans. There are predilections for aortic body tumors in male, brachycephalic breeds (specifically Boston Terriers). Theories exist that chronic hypoxia, commonly observed in brachycephalic breeds, may be one reason for the increased incidence of these type of tumors.

Aortic and carotid body tumors are often presented as space-occupying lesions. This case is unique in that additional clinical signs and gross lesions were present for congestive heart failure including hydropericardium, ascites, and passive congestion of the liver.

Aortic body tumors must be differentiated from ectopic thyroid tumors which can be done via observation of thyroid follicles or immunohistochemistry. Additional differentials for neoplasms at this site include ectopic parathyroid chief cell adenoma, malignant lymphoma, hemangiosarcoma, and thymoma.

Additional slides were not submitted for other lesions. However, there were multiple gastric ulcers observed as well as an enteritis. Enteric culture of the intestines was negative. Differentials for these lesions include either paraneoplastic syndromes, medication, or idiopathic. The glossitis is most likely from trauma associated with the canine teeth abutting the tongue.

Contributor: Quynn Steichen, DVM, MS, Anatomic Pathology Resident

[CLICK HERE TO SEE THIS SLIDE IN NOAH'S SLIDEBOX](#)

BSTP CORNER

BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

Notice of Future Meetings

Virtual Continuing Education Symposium 9: Digestive System
20th – 29th February 2024
Tuesday, Wednesday and Thursday
13.00 – 17.00 (GMT+0, London/UCT+0/ET-5)



CES 9 will be held over two weeks - on the afternoons of Tuesday 20th, Wednesday 21st, Thursday 22nd, Tuesday 27th, Wednesday 28th and Thursday 29th February 2024, from 13.00 – 17.00 (GMT+0, London/UCT+0) each day.

REGISTRATION IS NOW OPEN WITH AN EARLY BIRD DEADLINE OF FRIDAY 26th JANUARY 2024

This CES will give you the opportunity to have an overview of the normal anatomy and physiology of the digestive system; repair and regeneration mechanisms; spontaneous lesions of the rodent, rabbit, and non-human primate GI tract; toxicology and carcinogenesis of the exocrine pancreas; health monitoring of laboratory rodent colonies; pathology of infectious GI diseases of rodents, rabbits and non-human primates; anatomy, physiology, histology and pathology of the teeth. Other topics to be covered include spontaneous pathology and infectious disease in the canine and minipig digestive system; rodent models of inflammatory bowel disease; from biomarkers to AI; bioaccumulation of therapeutic drugs.

Reduced fee funding opportunities are also available for trainee/early career pathologists as well as a number of free registration bursary places.

If you would like further information, have any queries, or would like to reserve a place, please contact the Hg3 Conferences Ltd - events@hg3.co.uk

This symposium will be organised by Hg3 Conferences Ltd, who have been appointed by the Council of the BSTP to take over the administrative organisation of all BSTP events – events@hg3.co.uk

or visit: <https://www.bstp.org.uk/events/ces-9-digestive-system/>

Virtual Continuing Education Symposium 10: Urinary System
9th – 18th July 2024
Tuesday, Wednesday and Thursday
13.00 – 17.00 (GMT+1, London/UCT+1)

CES 10 will be held over two weeks – on the afternoons of Tuesday 9th, Wednesday 10th, Thursday 11th, Tuesday 16th, Wednesday 17th and Thursday 18th July 2024, from 13.00 – 17.00 (GMT+1, London/UCT+1) each day.

This CES will give you the opportunity to learn about the urinary system. There will also be roundtable/share knowledge discussions and questions.

Updated information about this symposium will be posted on the BSTP website and BSTP group LinkedIn pages as it becomes available.

If you would like further information, have any queries or would like to reserve a place, please contact the Hg3 Conferences Ltd - events@hg3.co.uk

This symposium will be organised by HG3 Conferences Ltd, who have been appointed by the Council of the BSTP to take over the administrative organisation of all BSTP events – events@hg3.co.uk

or visit: <https://www.bstp.org.uk/events/ces-10-urinary-system/>

For registration and more information about the events, visit the BSTP website:
<https://www.bstp.org.uk/events/bstp-events/>

IDEXX CASECONNEX CORNER

Signalment: 6 month old, female, Labrador retriever dog

Source/ History: Kennel dog that presented with signs of acute respiratory disease and then was found dead. Lungs showed signs of a hemorrhagic disease process.

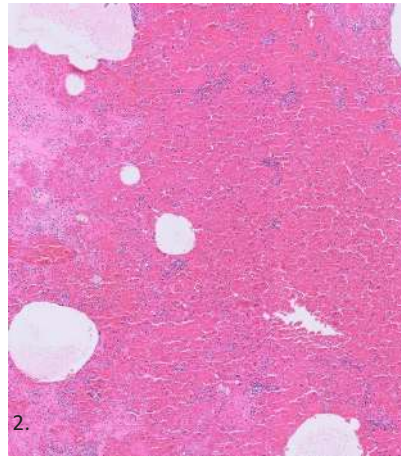
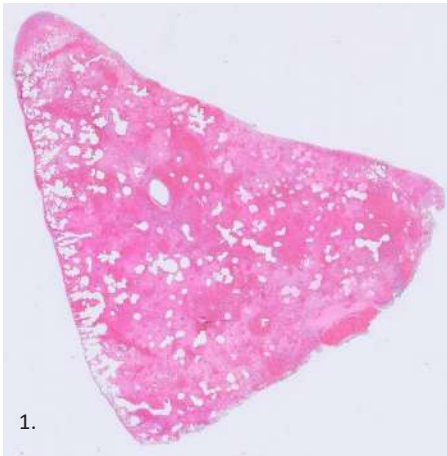


Figure 1. (4X magnification, H&E stain). Air spaces throughout the lung are extensively filled by hemorrhage and proteinaceous fluid

Figure 2. (10X magnification, H&E stain). Confluent hemorrhage and degenerate cellular debris replace parenchymal architectural detail.

Figure 3. (40X magnification, H&E stain). Proteinaceous edema, degenerate cell debris, and colonies of coccobacilli (black arrow) fill alveoli. Alveolar septa are hyper eosinophilic and acellular.

Figure 4. Bacterial culture of the lung yields 3+ growth of *Escherichia coli*.

Histologic Description:

Lung: Up to 80-90 % of air spaces throughout the lung parenchyma are filled with extensive confluent hemorrhage, proteinaceous fluid, and scant to moderate aggregates of degenerate leukocytes and necrotic cell debris. There is extensive loss of alveolar septal architectural detail, with septa appearing hyper eosinophilic and acellular (septal necrosis). Throughout the hemorrhagic and proteinaceous alveolar contents, there are numerous scattered, dense colonies of 1 – 2 um diameter coccobacilli.

Interpretation:

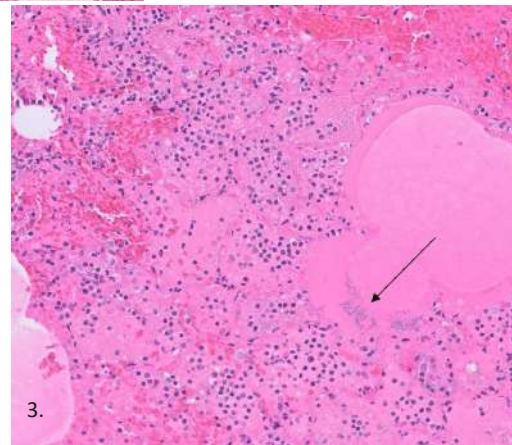
Lung: Pneumonia, necrohemorrhagic, severe, diffuse, with marked proteinaceous edema and intralesional coccobacilli

Comments:

Histopathology of this lung revealed severe diffuse necrohemorrhagic pneumonia. While severe pulmonary hemorrhage is a finding that can be associated with a number of etiologies including coagulopathies (e.g. rodenticide toxicity), trauma (e.g. pulmonary contusions), severe systemic disease (e.g. disseminated intravascular coagulation), or acute interstitial lung disease, the accompanying necrotizing lesions, degenerate inflammation, and intralesional colonies of coccobacilli suggest a specific form of bacterial pneumonia caused by extraintestinal pathogenic *Escherichia coli* (ExPEC).

Pulmonary infection of dogs and cats with ExPEC is associated with a peracute pneumonia that is characterized by extensively hemorrhagic and necrotizing lesions and rapid death occurring within 24 - 48 hours of onset of clinical signs. The virulence of ExPEC is related to its production of cytotoxic necrotizing factor-1 and alpha-hemolysin toxins, and its expression of adhesins that permit colonization of extraintestinal sites. Infection with ExPEC is considered to be via inhalational or hematogenous routes but is not associated with aspiration of gastrointestinal contents. In this case, bacterial culture of lung tissue yielded a pure culture of *Escherichia coli*. While whole genome sequencing to confirm the presence of ExPEC virulence factors was not performed in this case, the combination of the histological findings and positive bacterial cultures are highly suggestive of necrohemorrhagic pneumonia caused by ExPEC.

References: Caswell, J. C., Williams, K. J. (2016). Respiratory System In M. G. Maxie (6th ed.), Pathology of Domestic Animals (pp. 465-591). St. Louis, MO: Elsevier; Handt, L. K., et al. (2003). Clinical and microbiologic characterization of hemorrhagic pneumonia due to extraintestinal pathogenic *Escherichia coli* in four young dogs. Comparative medicine, 53(6), 663-670.



Site:	Respiratory
Culture Results:	Status: FINAL
	Isolate 1: <i>E. coli</i> - 3+
	Isolate 1 MIC
Amoxicillin	R >=32
Amoxicillin-Clavulanic Acid	R 4
Cephalexin	R 8
Cefpodoxime	S <=0.25
Cefovecin	S <=0.5
Ceftazidime	S <=0.12
Ceftiofur	S <=1
Imipenem / Carbapenem	S <=0.25
Amlikacin	S <=2
Gentamicin	S <=1
Ciprofloxacin	S <=0.06
Enrofloxacin	S <=0.12
Marbofloxacin	S <=0.5
Doxycycline	R >=16
Chloramphenicol	S 4
Trimethoprim/Sulfamethoxazole	S <=20
Cefotaxime	S

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



CaseConnex

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RONDAS DE HISTOPATOLOGÍA DEL LCPG 2024 10:30 - 11:30 CT



Davis-Thompson
Foundation

Janeiro



Doenças de pele
Cesar Menk, DVM, DACVP
em Português

Febrero

15



Enfermedades virales
Mariano Carossino, DVM, PhD, DACVP, DACVM
en español

Março

21



Histopatologia ocular
Ingeborg Langhor, DVM, PhD, DACVP
em Português

Abril

18



Casos misceláneos
Federico Giannitti, DVM, PhD, DACVP
en español

Maio

16



Casos variados de animais de dermatopatología
Rachel Neto DVM, MS, DACVP
em Português

Junio

20



Casos misceláneos
Javier Asin, DVM, PhD, DECVP
en español


[Click here to register to individual seminars](#)

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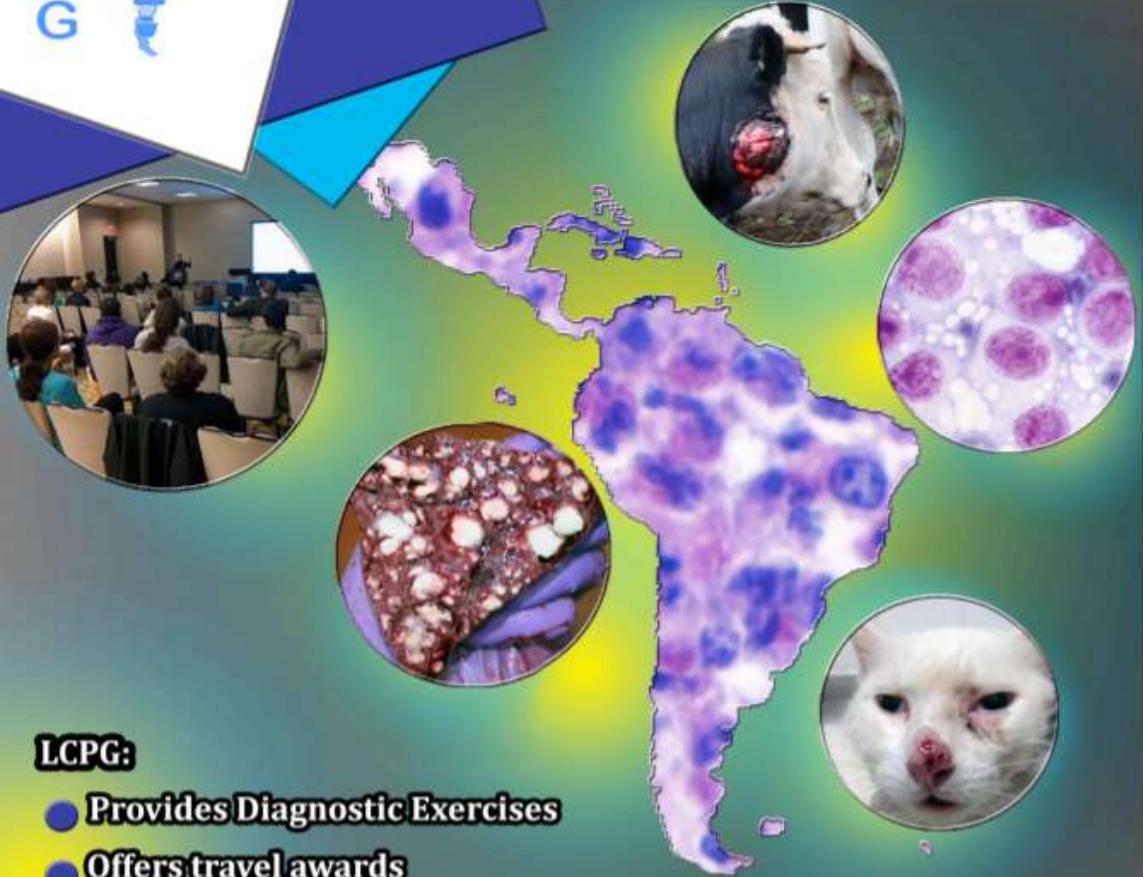
2024 LCPG & DTF ACTIVITIES IN LATIN AMERICA

Country	Name of Seminar	Dates	Place/University	Speakers	Organizer/s
Argentina	XVIII Seminar of the Argentinean Subdivision of the Davis-Thompson Foundation and XII Forum on Teaching Veterinary Pathology	Aug 18-19	Rosario, Argentina. Facultad de Ciencias Veterinarias, Universidad Nacional de Rosario	Francisco Uzal, Pablo Pineyro	Javier Sarradell
	Latin American roadshow: Gastrointestinal pathology	Oct 24-25	Buenos Aires, Argentina. Universidad de Buenos Aires.	Francisco Uzal	Leonado Minatel
Brazil	2024 Brazilian Symposium of the DTF - Pathology of zoo and wildlife	Sept, TBD	Universidade Federal de Minas Gerais - Belo Horizonte, MG, Brazil	D. McAloose	Renato de Lima Santos / Ayisa Rodrigues de Oliveira
Chile	Pathology of Wildlife	Aug 8-9	Valdivia, Chile. Universidad Austral de Chile	Mauricio Seguel, Enrique Paredes, Mauricio Navarro, Manuel Moroni.	Mauricio Navarro
Colombia	Latin American roadshow: Gastrointestinal pathology	Nov 1-2	Barranquilla, Colombia. Universidad San Martin	Francisco Uzal	Paola Barato
Costa Rica	Workshop in freshwater fish medicine and pathology in Latin America	Mar 22-23	San Jose, Costa Rica. Escuela de medicina y cirugía veterinaria San Francisco de Asís	Esteban Soto, Paola Barato	Roberto Olivares
Guatemala	Latin American roadshow: Gastrointestinal pathology	Nov 4-5	Ciudad de Guatemala, Guatemala. Universidad de San Carlos.	Francisco Uzal	Deborah Rodriguez
México	IV on-line necropsy course	Apr 8-19	México (On-line)	Elizabeth Rodriguez, Maria del Carmen Carmona, Alfredo Pérez, Mario Bedolla, Carlos Gonzalez, Elizabeth Morales, Gerardo Salas, Mireya Juárez, Luis Garcia-Marquez, Diana Galván, Ruben Lopez, Laura Romero, Francisco Carvallo.	Ruben Lopez
	V seminar of the mexican subdivision of the Davis-Thompson Foundation	Sept, TBD	TBD	TBD	Ubicelio Martin
	Workshop in freshwater fish medicine and pathology in Latin America	Nov 21-22	Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México.	Esteban Soto, Paola Barato	Roben Lopez
Paraguay	Latin American roadshow: Gastrointestinal pathology	Oct 28-29	Asunción, Paraguay. Universidad Nacional de Asunción.	Francisco Uzal	Leila Maidana, Mirtha Suarez
Uruguay	Latin American roadshow: Gastrointestinal pathology	Oct 21-22	Montevideo, Uruguay. Universidad de la Republica.	Francisco Uzal	Jose Manuel Verdes
Venezuela	II Seminar of the Venezuelan Subdivision of the Davis-Thompson Foundation	Jul, TBD	TBD	Francisco Uzal	Yaritzta Salas

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Arch. Vet. Este N° 26, Año 2023	ISSN: 1688-6321
	ARCHIVO VETERINARIO DEL ESTE
Publicación del Laboratorio Regional Este de MGAP/DILAVE "Miguel C Rubino", Uruguay Los Archivos anteriores pueden bajarse de SMVU-Archivo del Este	
Fecha de publicación: enero 2024	

EDITORIAL

Al concluir el segundo semestre de 2022 y presentar los diagnósticos correspondientes al año 2023, abordamos en este nuevo número del Archivo Veterinario del Este tanto enfermedades relegadas al olvido como aquellas que, debido a su alta frecuencia o a su reciente reconocimiento, resulta inevitable no discutir. La casuística diagnóstica de DILAVE es enorme (>50 años). Su análisis ha permitido recientemente calcular las millonarias pérdidas que las enfermedades del ganado ocasionan a nivel nacional, destacando así la importancia del diagnóstico como fuente crucial de información. La reciente epidemia de Encefalomielit Equina del Oeste destaca también la importancia de nuestro laboratorio en el diagnóstico, pero ha evidenciado limitaciones en términos de investigación. Este escenario nos invita a reflexionar sobre el papel esencial de los laboratorios de diagnóstico en el abordaje efectivo de las crisis sanitarias y a la necesidad de fortalecer su capacidad de investigación.



Dr. Fernando Dutra Quintela
Encargado del Laboratorio

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ENCEFALOMIELITIS EQUINA DEL OESTE (EEO) EN EL ESTE



La encefalomielit equina por el virus del Oeste (EEO) es una antigua enfermedad nerviosa viral que ha resurgido en nuestro país después de varias décadas. En este nuevo número del Archivo Veterinario, presentaremos una breve historia de la enfermedad en Uruguay, describiremos su rica patología y su nicho ecológico en la región Este, y nos preguntamos acerca de las razones de su reemergencia.

Click her to see the latest
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Archivo Veterinario del Este

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Latin-American Veterinary Training Mini-Symposium in Fish Medicine and Pathology

Escuela de Medicina y Cirugía Veterinaria
San Francisco de Asís. Vázquez de Coronado

Valor US\$100

Información para el pago en el link registro

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Esteban Soto
MSc, DVM, PhD, Dipl. ACVM,
CertAqV



Paola Barato
DVM, Esp, PhD

Dear all:

This is just a friendly reminder we are in that time of the year to renew your LCPG membership. The LCPG has offered a lot of activities lately and a lot more wait ahead.

If you remember, membership fees can be paid directly with a credit card through the Charles Louis Davis and Samuel Wesley Thompson foundation in the following link.

<https://davisthompsonfoundation.regfox.com/lcpg-membership>

We also encourage all interested to spread the word so more people interested in Veterinary Pathology can become members of this organization.

In the next page, you can find the 2024 ANNUAL MEMBERSHIP APPLICATION, please fill it in with your updated information and send it to lcpgsecretary@gmail.com

The registration and payment deadline are March 31, 2024.

Thank you for your interest in joining and supporting the LCPG!

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LATIN COMPARATIVE PATHOLOGY GROUP 2024 ANNUAL MEMBERSHIP APPLICATION

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E-mail:

LANGUAGES: English () Spanish () Portuguese () Other (Specify)

DEGREE(S) & CERTIFICATION(S)

_DVM _PhD _MS _MD _DACVP _ECVP _ASVCP _POST-DOC _Other:

SPECIALTY & AREA(S) OF INTEREST:

AMOUNT PAID for 2023: \$

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Contributions above the minimum values are encouraged and welcome!

Thank you for interest in joining and supporting the LCPG!

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NEW MANUALS FOR CLINICIANS AND PATHOLOGISTS

Investigating Equine Abortion and Reproductive Loss

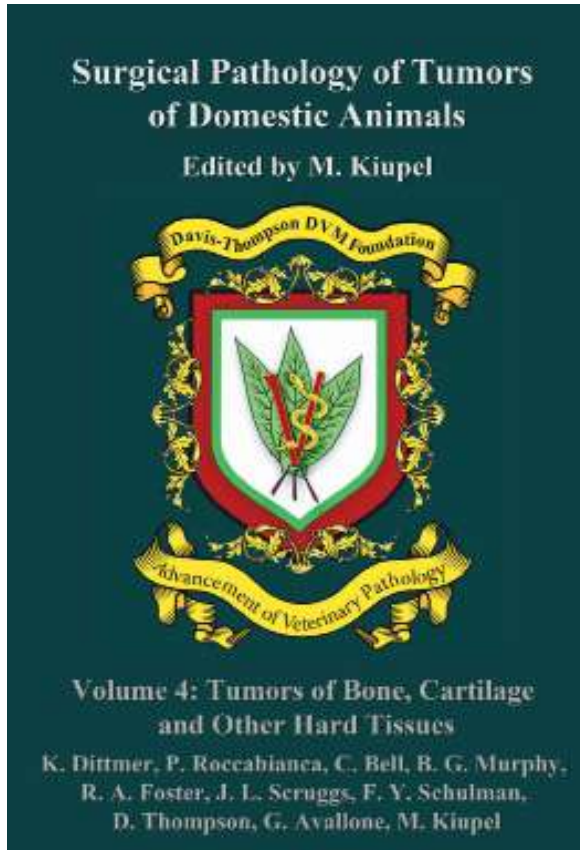


A multidisciplinary team of equine clinicians, epidemiologists and pathologists in Australia create 2 atlas of Histopathology and Gross Pathology of equine reproductive loss.

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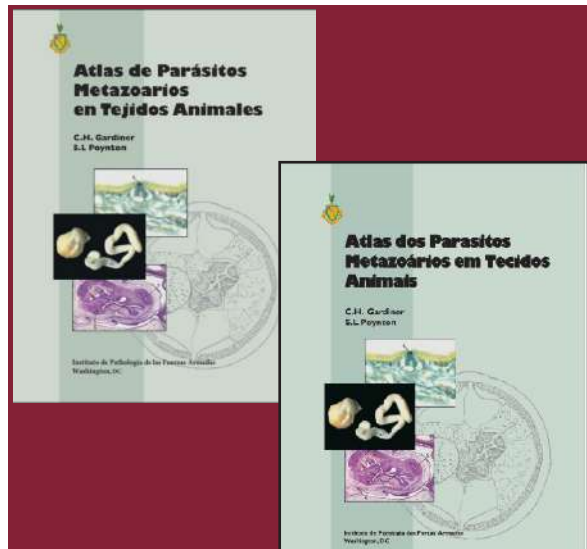
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RETIRING?

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.



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February 2024