June 2018

AVHTM Newsletter

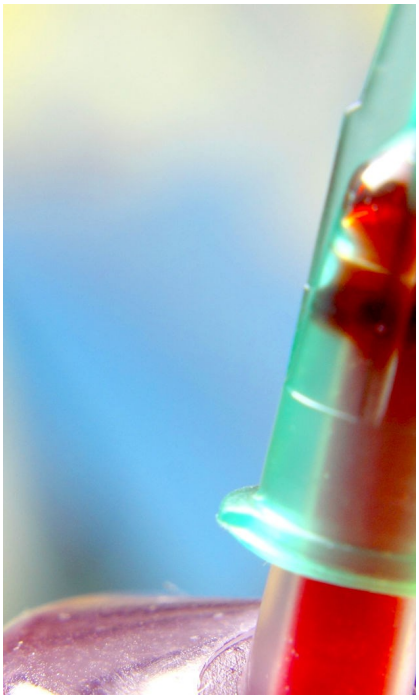
A 501(c)(3) nonprofit professional association

Volume 2, Issue 2

Special Events of Interest:

- American College of Veterinary Internal Medicine (ACVIM) Forum
  June 13 - 16, 2018
  (Seattle, WA)
- European College of Veterinary Emergency and Critical Care (ECVECC) Congress
  June 21 - 23, 2018
  (Venice, Italy)
- Congress of the European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA)
  September 6 - 8, 2018
  (De Doelen, The Netherlands)
- International Veterinary Emergency and Critical Care Society (IVECCS) Meeting
  September 14 - 18, 2018
  (New Orleans, LA)

Join us at ACVIM



The Association of Veterinary Hematology and Transfusion Medicine (AVHTM) is busy gearing up for the American College of Veterinary Internal Medicine (ACVIM) Forum June 13-16, 2018. If you plan on joining us in Seattle, we encourage you to attend the AVHTM stream of lectures on the afternoon of June 15th that include "A clinician and diagnostician's approach to the challenging bleeding patient", "FFP: friend or foe? A case-based discussion", and "Platelet transfusions in humans" (presented by an MD). At the end of the lecture series, we will be raffling off a copy of the textbook *Manual of Veterinary Transfusion Medicine and Blood Banking.* That evening, we will have our AVHTM Special Interest Group (SIG) Meeting at Stouts Pub Capital Hill. During the SIG, we will be discussing the drafting of guidelines related to veterinary transfusion medicine and blood banking. Dinner is included courtesy of sponsorship from Alvedia™, HemoSolutions™, and BodeVet™. Please visit www.avhtm.org/events for more information and email info@avhtm.org to RSVP.

AVHTM Updates

Our group is growing with over 270 members and more than 550 Facebook followers. Recently, our email group has shared discussions on several topics including canine crossmatching, blood collection systems, leukoreduction filters, sedation of feline donors, and medications that exclude canine donors. We encourage AVHTM members to continue using this fantastic resource by emailing questions and sharing ongoing research studies in the coming months.

Our Facebook Page also posted polls recently that garnered interesting results. For example, 81% of respondents always sedate feline donors, versus 19% do not. Additionally, 61% of respondents allow enrollment of female dogs who have previously had a litter, while 39% do not. Please 'like' or 'follow' us on Facebook and feel welcome to post links, images, and questions pertinent to veterinary hematology and transfusion medicine.

Introducing StablePlate RX®: The world's first commercial injectable freeze-dried platelet derived product

BodeVet™ is a commercial business seeking to solve the unmet needs of companion and exotic animals for transfusion medicine and regenerative therapies. Their mission is to promote animal health and welfare by developing and delivering new treatment solutions to veterinary medical practitioners.

BodeVet™ develops advanced transfusion treatment options for the veterinary industry, currently focusing on freeze-dried platelets. Their first commercial canine product is StablePlate RX®, a lyophilized derivative of canine platelets developed to treat life-threatening hemorrhage secondary to thrombocytopenia and trauma. The biological source materials are: in-dated, leukoreduced canine platelets with dextrose, trehalose, ethanol and polysucrose. StablePlate RX® has a final particulate concentration of 1.5 x 10^9 particles per milliliter and has the support of preclinical safety and bioactivity data as well as ongoing clinical trials demonstrating efficacy.

StablePlate RX® is available as a dry powder in a vial manufactured in the US. Once reconstituted with sterile water, it is functional, unlike stored platelets that may take up to 12 hours to work. StablePlate RX® aims to stop bleeding in patients so there is less of a need to use ancillary blood products, surgical intervention, or other invasive treatment options.

Offering a convenient 12-month shelf life when stored at room temperature, StablePlate RX® has the longest shelf life of a veterinary infusible platelet product. For intravenous administration only, a dose of 3.0 x 10^9 particles per kilogram is recommended for moderate to severe bleeding. StablePlate RX® is available commercially and comes in 8 ml (treats a 5-kg patient) or 16 ml vials (treats a 10-kg patient).

For more information about BodeVet™ or StablePlate RX® please visit their website: www.BodeVet.com or YouTube™ channel.

Recently Published Articles

The articles listed below are those published **March – May 2018** in the field of veterinary transfusion medicine, blood banking, and hemostasis:

- Behling-Kelly, E. L., & Wakshlag, J. (2018) A commercial soy-based phospholipid emulsion accelerates clot formation in normal canine whole blood and induces hemolysis in whole blood from normal and dogs with inflammatory leukograms. J Vet Emerg Crit Care 28(3), 252-260. doi:10.1111/vec.12716
- Blasi Brugue, C., Ferreira, R. R. F., Mesa Sanchez, I., et al. (2018) In vitro quality control analysis after processing and during storage of feline packed red blood cells units. BMC Vet Res 14(1), 141. doi:10.1186/s12917-018-1458-4 **[FREE Full Text]**
- Burton, A. G., Burges, J., Borchers, A., Hopper, K. (2018) In vitro assessment of the effect of acidemia on coagulation in dogs. J Vet Emerg Crit Care 28(2):168-172.
- Crestani, C., Stefani, A., Carminato, A., et al. (2018) In vitro assessment of quality of citrate-phosphate-dextrose-adenine-1 preserved feline blood collected by a commercial closed system. J Vet Intern Med. doi:10.1111/jvim.15056 **[FREE Full Text]**
- Cuq, B., Blois, S. L., Wood, R. D., et al. (2018) Reproducibility, stability, and biological variability of thrombin generation using calibrated automated thrombography in healthy dogs. Vet Clin Pathol. doi:10.1111/vcp.12602
- Goggs, R., Borrelli, A., Brainard, B. M., et al. (2018) Multicenter in vitro thromboelastography and thromboelastometry standardization. J Vet Emerg Crit Care 28(3): 201-212.
- Hadjesfandiari, N., Weinhart, M., Kizhakkedathu, J. N., et al. (2018) Development of antifouling and bactericidal coatings for platelet storage bags using dopamine chemistry. Adv Healthc Mater 7(5). doi:10.1002/adhm.201700839
- Mackenzie, C. J., McGowan, C. M., Pinchbeck, G., Carslake, H. B. (2018) Comparison of two blood sampling techniques for the determination of coagulation parameters in the horse: jugular venipuncture and indwelling intravenous catheter. Equine Vet J 50(3): 333-339.
- Nentwig, A., Meli, M. L., Schrack, J., et al. (2018) First report of *Cytauxzoon* sp. infection in domestic cats in Switzerland: natural and transfusion-transmitted infections. Parasit Vectors 11(1), 292. doi:10.1186/s13071-018-2728-5 **[FREE Full Text]**
- Reader, R. C., Barton, B. A., & Abelson, A. L. (2018) Comparison of two intramuscular sedation protocols on sedation, recovery and ease of venipuncture for cats undergoing blood donation. J Feline Med Surg 1098612x18760434. doi:10.1177/1098612x18760434
- Seshia, S., Gaunt, M. C., Kidney, B. A., & Jackson, M. L. (2018) The effect of 3 resuscitative fluid therapies on hemostasis as measured by rotational thromboelastometry in dogs. Vet Clin Pathol 47(1), 38-44. doi:10.1111/vcp.12573
- Shropshire, S., Olver, C., & Lappin, M. (2018) Characteristics of hemostasis during experimental *Ehrlichia canis* infection. J Vet Intern Med doi:10.1111/jvim.15130 **[FREE Full Text]**
- Solbak, S., Epstein, S. E., Hopper, K. (2018) Influence of needle gauge used for venipuncture on measures of hemostasis in cats. J Feline Med Surg May 1:1098612X18766154. doi: 10.1177/1098612X18766154
- Tansey, C., Wiebe, M. L., Hybki, G. C., et al. (2018) A prospective evaluation of oral Yunnan Baiyao therapy on thromboelastographic parameters in apparently healthy dogs. J Vet Emerg Crit Care 28(3) 221-225.
- Thomason, J. M., Archer, T. M., Wills, R. W., & Mackin, A. J. (2018) Effects of immunosuppressive agents on the hemostatic system in normal dogs. J Vet Intern Med doi:10.1111/jvim.15132 **[FREE Full Text]**
- Vilar, J. M., Manera, M. E., Santana, A., et al. (2018) Effect of leukocyte-reduced platelet-rich plasma on osteoarthritis caused by cranial cruciate ligament rupture: A canine gait analysis model. PLoS One 13(3), e0194752. doi:10.1371/journal.pone.0194752 **[FREE Full Text]**

AVHTM
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We're on the web!

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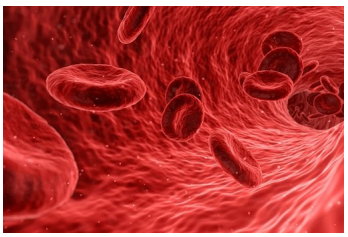
AHVTM is an IRS approved 501(c)(3) nonprofit professional association composed of veterinarians, hematologists, academics, veterinary technicians, blood bankers, and interested public who desire to further scientific advances in transfusion medicine and veterinary hematology.

We engage in veterinary research, promote industry standards, develop guidelines for canine and feline blood collection and processing, and publish scientific research in peer-reviewed publications.



Membership Benefits

As an AVHTM member, you are eligible for the following:

- Reduced IVECCS registration fee (veterinarians save $100 and technicians save $25!)
- Access the a "Members Only" section of the AVHTM website, which includes access to:
  - Other AVHTM profiles
  - PubMed articles
  - Forum for posting questions, cases, and research
- Ability to ask and answer questions posted to the AVHTM members only email group.

Please feel welcome to share this newsletter with interested colleagues and encourage them to become an AVHTM member!