Vicente Herrería-Bustillo

Urgent reversal of anticoagulation

We will address the critical need for emergency reversal of anticoagulation in dogs and cats. With the escalating use of anticoagulants in veterinary practice, timely interventions are paramount. We'll emphasize the diverse strategies required, tailoring interventions to specific anticoagulant types and individual patient characteristics. This presentation aims to underscore the urgency and complexity of managing anticoagulation-related emergencies in our furry companions, providing veterinarians with a comprehensive understanding of the evolving landscape in this crucial aspect of veterinary care. Join us as we explore the nuanced approaches to ensure the well-being of our animal patients in the face of anticoagulation challenges.(1)(1-11)

Bibliography:

- 1. Milling TJ, Pollack CV. A review of guidelines on anticoagulation reversal across different clinical scenarios Is there a general consensus? Am J Emerg Med. 2020 Sep;38(9):1890–903.
- 2. Hecht P, Besser M, Falter F. Are We Able to Dose Protamine Accurately Yet? A Review of the Protamine Conundrum. J Extra Corpor Technol. 2020 Mar;52(1):63–70.
- 3. Wallisch WJ, Kidd B, Shen L, Hammer R, Siscel J. Coagulopathy and Emergent Reversal of Anticoagulation. Anesthesiol Clin. 2023 Mar;41(1):249–61.
- 4. Yee J, Kaide CG. Emergency Reversal of Anticoagulation. West J Emerg Med. 2019 Aug 6;20(5):770–83.
- 5. Campbell PG, Yadla S, Sen AN, Jallo J, Jabbour P. Emergency reversal of clopidogrel in the setting of spontaneous intracerebral hemorrhage. World Neurosurg. 2011;76(1–2):100–4; discussion 59-60.
- 6. Campbell PG, Yadla S, Sen AN, Jallo J, Jabbour P. Emergency reversal of clopidogrel in the setting of spontaneous intracerebral hemorrhage. World Neurosurg. 2011;76(1–2):100–4; discussion 59-60.
- 7. Herrería-Bustillo V, Masiá-Castillo M, Phillips HRP, Gil-Vicente L. Evaluation of the effect of etamsylate on thromboelastographic traces of canine blood with and without the addition of heparin. Vet Q. 2023 Dec;43(1):1–6.
- 8. Cobo-Nuñez MY, El Assar M, Cuevas P, Sánchez-Ferrer A, Martínez-González J, Rodríguez-Mañas L, et al. Haemostatic agent etamsylate in vitro and in vivo antagonizes anti-coagulant activity of heparin. Eur J Pharmacol. 2018 May 15;827:167–72.
- 9. Mooney ET, Agostini G, Griebsch C, Hickey M. Intravenous vitamin K1 normalises prothrombin time in 1 hour in dogs with anticoagulant rodenticide toxicosis. Aust Vet J. 2020 Jun;98(6):225–31.
- 10. Cao D, Amabile N, Chiarito M, Lee VT, Angiolillo DJ, Capodanno D, et al. Reversal and removal of oral antithrombotic drugs in patients with active or perceived imminent bleeding. Eur Heart J. 2023 May 21;44(20):1780–94.

11. Li C, Hirsh J, Xie C, Johnston MA, Eikelboom JW. Reversal of the anti-platelet effects of aspirin and clopidogrel. J Thromb Haemost JTH. 2012 Apr;10(4):521–8.