

**Research title:****Anaesthesiology and chronic pain management in animal****Anestesia e gestione del dolore cronico negli animali****Tutor**

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**State of the art and aim of the study**

The anaesthesia and perioperative pain management service at the Veterinary Teaching Hospital (VTH) of The Faculty of Veterinary Medicine of Milan provides comprehensive anaesthetic and pain management for all species with concentration on the common domestic species.

Patients with chronic pain generally require higher dosages of analgesic drugs than patients with acute pain and are more likely to require multimodal analgesia and the use of drugs that are not traditionally considered analgesics. Despite aggressive treatment, many patients in chronic pain state that their pain is actually never successfully relieved<sup>1</sup>. Because of the physiological and psychological changes brought about by chronic pain states, chronic pain has been defined as a disease rather than just a symptom of a disease<sup>2-3</sup>.

Aim of the study is to enrol patients affected by chronic pain in order to create a database that correlates the administrations of a specific analgesic drugs or treatments to a specific subtypes of chronic pain.

**Recent publications of the tutor in the field**

1. Abbiati RA, Cagnardi P, **Ravasio G**, Villa R, Manca D. A physiologically based model for tramadol pharmacokinetics in horses. J Theor Biol. 2017 Sep 21;429:46-51
2. Cagnardi P, Villa R, **Ravasio G**, Lucatello L, Di Cesare F, Capolongo F, Boccardo A, Pravettoni D. Pharmacokinetics and sedative effects of dexmedetomidine in dairy calves. N Z Vet J. 2017 Jan;65(1):14-18.
3. Arena A, Lamanna J, Gemma M, Ripamonti M, **Ravasio G**, Zimarino V, De Vitis A, Beretta L, Malgaroli A. Linear transformation of the encoding mechanism for light intensity underlies the paradoxical enhancement of cortical visual responses by sevoflurane. J Physiol. 2017 Jan 1;595(1):321-339
4. Villa R, **Ravasio G**, Ferraresi C, Zonca A, Carli S, Borghi L, Cagnardi P. Pharmacokinetics of intravenous ketorolac in cats undergoing gonadectomy. N Z Vet J. 2015 May;63(3):162-6.
5. Falavolti C, Gidaro S, Ruiz E, Altobelli E, Stark M, **Ravasio G**, Lazzaretti SS, Buscarini M. Experimental Nephrectomies Using a Novel Telesurgical System: (The Telelap ALF-X)-A Pilot Study. Surg Technol Int. 2014 Nov;25:37-41.