



Application of BHSII in dogs' stifle joint diseases

Objective: assessment of reliability and reproducibility of BHSII for evaluation of all dogs' stifle joint diseases and healing process after conservative or surgical therapy. Consequently the BHSII could be used to compared different surgical procedures for treatment of the same pathology.

Materials and Methods: BHSII was used for all dogs referred at Veterinary University Hospital G. Gentile, presenting stifle diseases. Patients were grouped according to diagnosis and then according to the therapy. Follow up was recorded for each patient through BHSII. Parameters evaluated and recorded are lameness, pain, swelling soft tissue surrounded joint, capsular effusion, crepitus, instability, range of motion and muscle atrophy.

Moreover, owner evaluated his dog's quality of life through specific questions in BSHII.

During this two years, the PhD student was engaged in data collection, in order to obtain a significant cohort of population to compare and perform descriptive and statistical analysis. All radiographic studies performed for healing progress evaluation, will be used for assignment an osteoarthritis score, that could be correlated with parameters considered through BHSII.

Future Proposal: During the last year, all data collected will be grouped and analysed, in order to find a correlation between each parameters and between parameters and treatment chosen for specific stifle pathology. In addition, osteoarthritis score during the healing process could be used for two different surgical procedures comparison.

Period Abroad/at Company: currently attending Faculty of veterinary Science in Pretoria, Sud Africa and performing a project about assessment of strenght pull-out of transcondylar bone anchor vs lateral suture through femoro-fabella ligament for treatment of cranial cruciate disease in cats.

References:

- Pinna, S., et al. (2019). Evidence-based veterinary medicine: a tool for evaluating the healing process after surgical treatment for cranial cruciate ligament rupture in dogs. *Frontiers in Veterinary Science*, 6, 65
- Walton, M. B., et al. (2012). Canine osteoarthritis: validation of the owner-administered clinical outcomes measurement tools load, CBPI and HCPI. In: *Veterinary Orthopedic Society 39th Annual Conference Abstracts; Veterinary and Comparative Orthopaedics and Traumatology*. Vol. 4, Crested Butte, CO. p. A12.
- Wessely M., et al. (2017). Evaluation of Intra-and Interobserver Measurement Variability of a Radiographic Stifle Osteoarthritis Scoring System in Dogs. *Veterinary and Comparative Orthopaedics and Traumatology*, 30: 377-384

