Morpho-Imaging: a veterinary website of anatomy and imaging

Introduction: The Morpho-Imaging website is based on an interactive multi-dimensional presentation of the anatomy and its relevant imaging. Its objective is to teach a practical approach of veterinary anatomy that must be adapted to the clinician work.

Methods: From domestic animals: imaging (Radiography, Magnetic Resonance Imaging, Computed Tomography and Echography) was performed and correspondant dissections (Osteology, Arthrology and Myology) were photographed. Morpho-Imaging and its content was produced using Adobe programs. It was hosted on the RVC1 multimedia platform and linked to the educational Philips iSiteTM Picture Archiving and Communication System (PACS) of the VUB5.

Results: Morpho-Imaging consists of three major components named anatomy, imaging and pathological imaging. The pages are transversally and vertically connected with others, and always surmounted by a navigation bar with drop-down menus (DDM). The first DDM corresponds to the anatomy menu by species, the second and third DDMs correspond to the normal and pathological Imaging respectively. The Morpho-Imaging website is linked towards to WikiVet1 and the PACS by means of URL’s.

Conclusion:
The three dimensional viewing of anatomy and pathology is better presented using modern visualization tools and techniques, such as Volume Rendering Technique and Multi Planar Reconstruction. In addition, a real anatomic related atlas of multiple imaging sources is available for the users. Morpho-Imaging is a valuable tool used to challenge the cognitive process during training sessions of veterinary anatomy and imaging.