

## **VETERINARY ORTHOPEDIC GUIDELINES ON A DOG SKELETAL MODEL IN COMBINATION WITH EDUCATIONAL MULTIMEDIA INTERACTIVE PROGRAM.**

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### **SUMMARY**

The present orthopedic guidelines represent a valuable educational aid for students and practitioners especially with the increasing student number and constrained resources. It includes a dog skeletal model on which variable orthopedic techniques were applied for stabilization and fixation of artificially induced fractures at different selected sites. Additionally, selected surgical anatomical approaches were done on dog cadavers for procuring the target bones.

A multimedia interactive computer program has been developed. The program comprised various methods of internal fixation, selected surgical anatomical approaches, and digital images for each reconstructed bone and its corresponding contact radiograph. Quizzes were added for user self-evaluation.

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### **INTRODUCTION**

Implementation of various methods of internal fixation in small animal practice has dramatically increased (Withrow and Holmberg, 1977; Withrow, 1980; Brinker, Piermattei and Flo, 1983; Eagger, 1983 and 1993, Brinker, Piermattei, and Flo, 1990).

Throughout the present study, guideline examples were demonstrated to cover most influential types of internal fixation at various selected fractures. Alongside these guidelines, a designed multimedia interactive piece from an educational perspective was included. This program enhances computer assisted learning (CAL) in veterinary education, especially with the increasing students, number and constrained resources.