

Measurement of tibial translation in dogs with anterior cruciate ligament ruptures

Week 9 – October 25th to October 31st

Team Members: Graham Bousley – Team Leader
Alex Bloomquist – Communicator
James Madsen – BSAC
Mike Nonte – BWIG

Client: Peter Muir
Phone: (608) 263-9819
Email: muirp@svm.vetmed.wisc.edu

Advisor: Wan-Ju Li
Email: li@ortho.wisc.edu

Summary of Accomplishments:

- 1 Met with Lacey and Peter Muir about preliminary cadaver testing

Team Goals:

- 1 Progress further on design improvements and setup for cadaver testing

Problem Statement:

- 2 Arthritis in canines often leads to joint degeneration and rupture of the Anterior Cruciate Ligament (ACL). Diagnosis of this condition is often difficult because the current methods used are non-quantitative. The aim of this project is to quantify the amount of tibial translation in a canine's leg caused by a known applied force in order to determine the severity of an ACL rupture. Preliminary parts for a device that can accomplish this have been developed and it is the goal of this team to create and test a working model.

Activities:

Name	Activity	Time spent	Total Hours (all weeks)
James		0 hours	17 hours
Mike	Meeting with client	2 hours	16+2=18 hours

Alex	Meeting with client	1 hour	18+1=19 hours
Graham	Meeting with client	2 hours	19+2=21 hours

Project Timeline:

	September				October				November					December	
Tasks	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13
Project research		■		■	■										
Brainstorming			■					■							
Problem Statement			■												
Prototype testing				■				■							
Ordering								■							
Midsemester Report						■									
Device manufacturing															
Testing															
Re-designing								■							
Re-testing															
Presentation					■										
Progress report	■	■	■	■	■	■		■							
Website			■	■	■	■	■	■							

Expenses:

No expenses this week.