Project Title: Redesigning intramedullary rod surgical instruments used for canine long bone fracture repair

Team Members:
Erik Yusko – Leader
Danielle Ebben – Communications
Tony Wampole – BSAC
Anna Moeller – BSAC
Jon Sass – BWIG

Client:
Tass Dueland, DVM
UW Veterinary School
email: duelandt@svm.vetmed.wisc.edu

Professor Ray Vanderby, Jr.
UW Biomedical Engineering and others
email: vanderby@orthorehab.wisc.edu

Date: 10/12/05 – 10/19/05

Problem Statement: Improve the design of an intramedullary rod to fix canine long bone fractures. Specifically a device enabling surgeons to consistently drill to the screw holes in the nails without missing.

Individual Goals:
Erik – Notebook, Presentation, Mid-Semester Report
Danielle – Notebook, Presentation, Mid-Semester Report
Tony – Notebook, Presentation, Mid-Semester Report BSAC
Anna – Notebook, Presentation, Mid-Semester Report BSAC
Jon – Notebook, Presentation, Mid-Semester Report BWIG

Summary of Accomplishments: The team has presented our mid-semester presentation. We have also completed our mid-semester report. In doing so a design matrix was created to aid in choosing a final design. We will discuss our next steps this Friday.

Statement of Team Goals: Choose a final design by this Friday. Begin technical drawings such that a prototype can be manufactured. Measure the force required to achieve some angle of deflection between the nail and jig such that we have a quantitative baseline to improve upon.

Rough Project Schedule:
9/9/05: Met with Client
9/16/05: Developed a fluid PDS document and began brainstorming
9/16/05-9/30/05: Evaluated brainstormed ideas. Beginning mid-semester presentation and report.
10/14/05: Presented Midsemester presentations
10/14/05-11/18/05: Build and finalize a prototype or design plans.
11/18/05-12/2/05: Test prototype, produce final poster presentation & report.
12/2/05: Final Poster Presentations
12/7/05: Final report due.

**Difficulties:** None at the moment.

**Activities week to date:**

Erik – notebook, compiling paper 8 hours
Danielle – notebook, paper 6 hours
Tony – notebook paper 3 hours
Anna – notebook, paper, BSAC 2 hours
Jon – notebook, paper, BWIG 5 hours

**Running Total:**

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<tr>
<th>Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Erik</td>
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