

Objective

The objective of this project is to improve upon Exactech's current reversible stemless shoulder implant the Equinox.

Background

- Shoulder joint complications are becoming more prevalent, especially with the aging population, diseases, and accidents
- The glenohumeral (shoulder) joint is the most mobile joint in the body
- \succ The current implant models (stemmed) require extensive bone loss





- Anatomic implants typically impede upon range of motion
- > Reversible implants increase range of motion and decrease scapular notching

Conventional





Reversed



Reversible Stemless Shoulder Implant T102

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Test Stand Future Work Finalize Test Stand > Test for Absolute Failure > Test for Fatigue Cycle > Analyze Results

- ► Review Possible Errors and Improvements
- Finite Element Analysis Validation

Acknowledgements

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