

# Objective

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

# Background

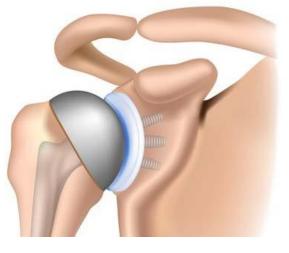
- Shoulder joint complications are becoming more prevalent, especially with the aging population, diseases, and accidents
- $\succ$  The glenohumeral (shoulder) joint is the most mobile joint in the body
- $\succ$  The current implant models (stemmed) require extensive bone loss





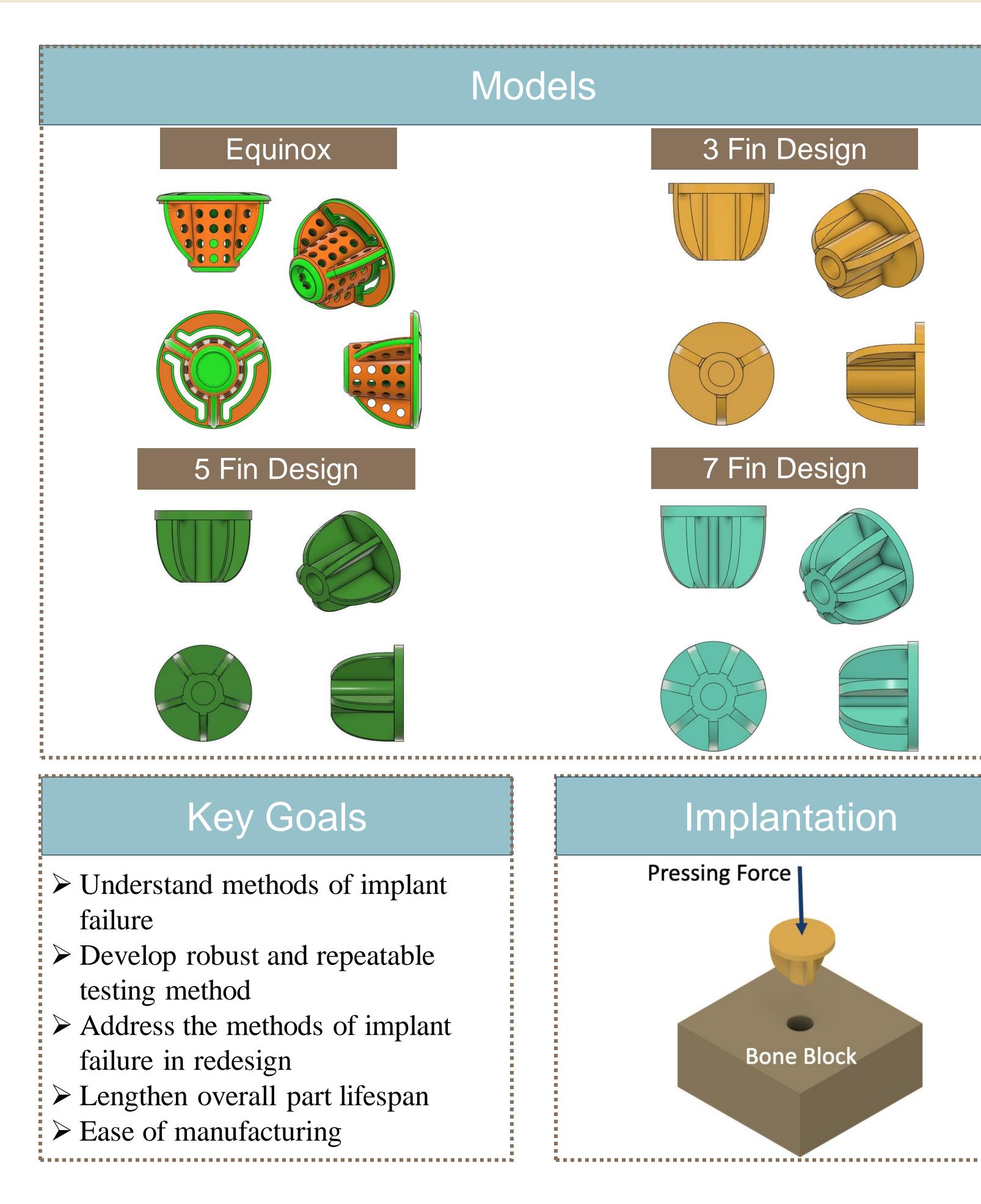
- Anatomic implants typically impede upon range of motion
- > Reversible implants increase range of motion and decrease scapular notching

Conventional





Reversed



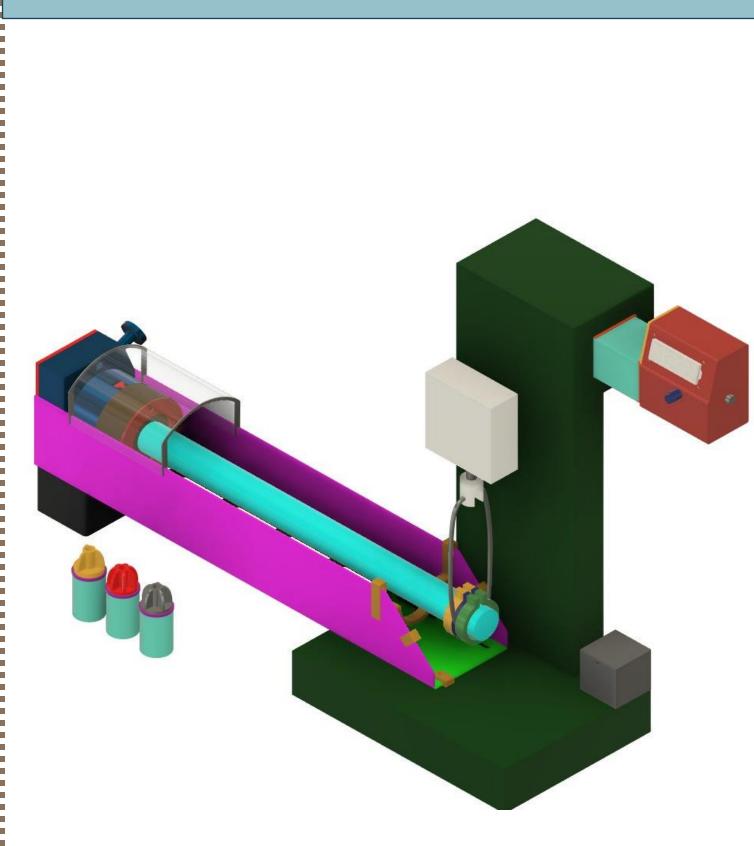
# **Reversible Stemless Shoulder Implant T102**

Kiersten Cady | Angelina Lanh | Santiago Lazarte John Sorenson | Taylor Vanderlinden | William Wartman





# Test Stand



# Results

> Preliminary results show a drastic improvement in fixation when comparing the three-fin to the fivefin design.

### Acknowledgements

**Sponsor**: Tom Vanasse Advisors: Stephan Arce, Ph.D. and Shayne McConomy, Ph.D.