

MSDII Testing – Prototype Aesthetics

Team: P15001: Active Ankle Foot Orthotic

Engineer: Geni Giannotti – Biomedical Engineer

Related System: AA- Apply AFO (easily)

This test will inform the team of whether or not the developed prototype is aesthetically pleasing to users and determine if any adjustments are needed to make the product more aesthetically pleasing.


Engineering Requirements:




rqmt. #	Importance	Source	Engr. Requirement (metric)	Unit of Measure	Ideal Value	Marginal Value	Direction of improvement	Mapping to Functional Decomposition
ER17	1	CF1, CF6	Aesthetically Pleasing	yes/no	yes	yes	▼	(AA) Apply AFO (easily)

Testing Plan

A total of at least 10 volunteers will be asked to examine the AFO and answer the following survey questions.

- 1.) Compared to current commercially-available ankle-foot orthotics, would you consider this device aesthetically pleasing? (better, same, worse)

Commercially Available AFO 	Rating (circle one answer for each device)		
	Better	Same	Worse

	Better	Same	Worse
	Better	Same	Worse
	Better	Same	Worse

2.) Are there any specific features that make our device not aesthetically pleasing? Please be specific and feel free to offer suggestions for improvement.

Overall, this test will take approximately 3-4 minutes for each volunteer to complete. A table displaying the device and project information will be set up in one or more academic building(s) on campus. We will select individuals who express interest, in the study, at the booth and will only allow individuals who are over the age of 18 to participate.

Start Date: 03/09/2015

End Date: 03/26/2015

Budget

Equipment	Price	Quantity
Working Prototype with Air Tank	-	1
Total:	-	1