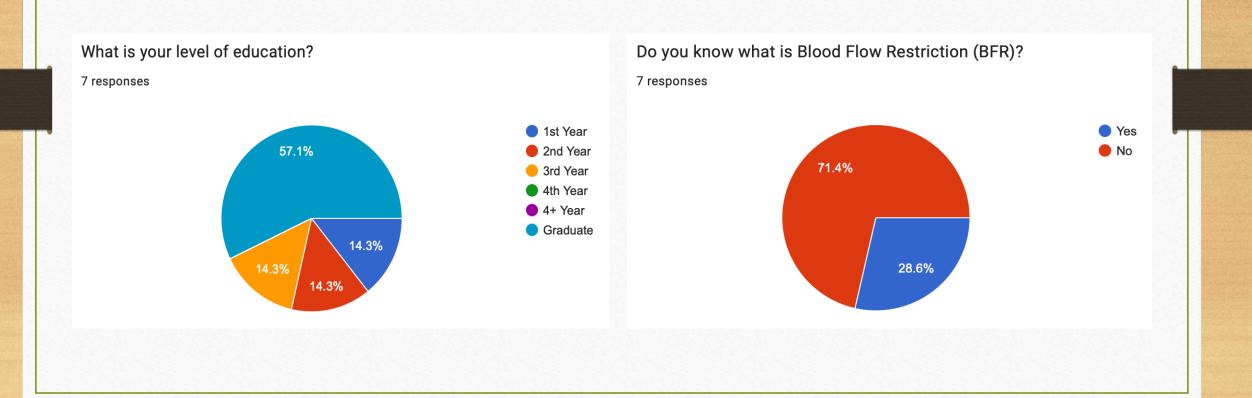
BFR – Usability Test Results

Siddhesh Mahadeshwar

Testing Process and Data Collection

- Conducted a pre-testing questionnaire
- Ran through 4 scenarios with descriptions to prompt users to explore different areas of the application
- Measured time taken to complete each scenario
- Took notes on any facial reactions
- Took notes on overall testing observations
- Asked questions regarding each scenario
- Conducted a post-testing questionnaire

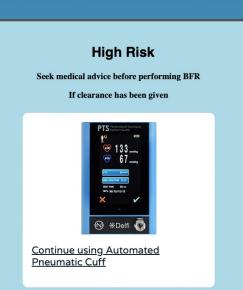
Pre-Testing Results



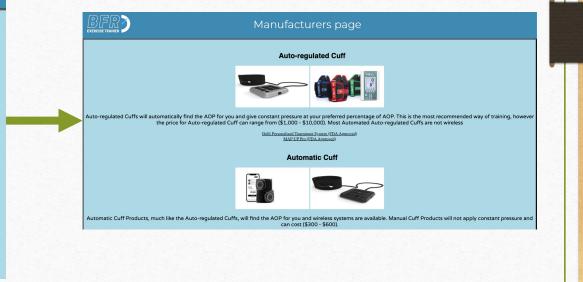
Scenario 1 & Resulting Pages

• Scenario criteria:

- Male
- Diabetes
- No budget limitations



Risk Level Evaluation Form



Scenario 2 & Resulting Pages

Risk Level Evaluation Form

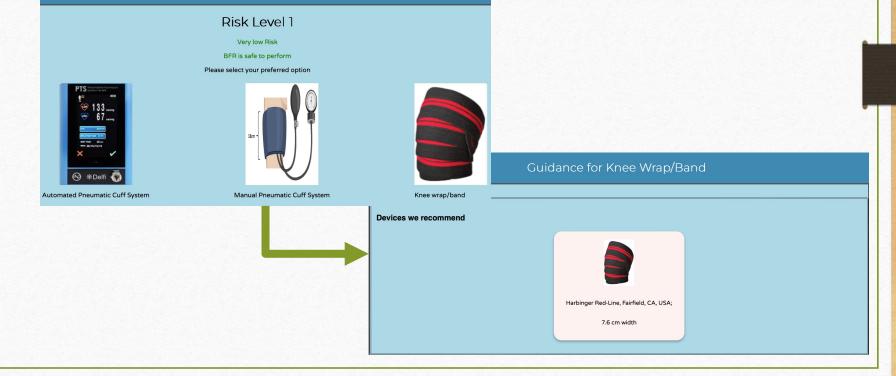
- Scenario criteria:
 - Female
 - BMI 25-30
 - Manual BFR preferred

l	LOW & Moderate Risks BFR is safe to perform		
	Please select the device you will use		
Automated Pneumatic Cuff System		Jam - Example 2 Cuff System	Manual Pneumatic Cuff Input pressure and can be cost effective at (\$20 -\$500) while remaining wireless. However, it cannot calculate the AOP, or for how long you have been using it. Overuse can cause major health problems.
	L		
			EDGE Restriction System Bistrong Training System Bistrong Training System Set

Scenario 3 & Resulting Pages

Risk Level Evaluation Form

- Scenario criteria:
 - Male
 - 40-50 years age
 - Knee band/wrap preferred

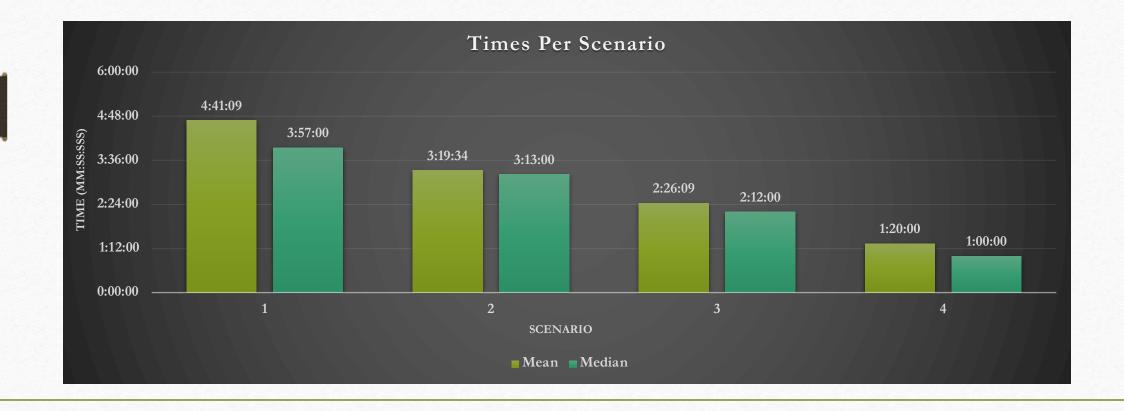


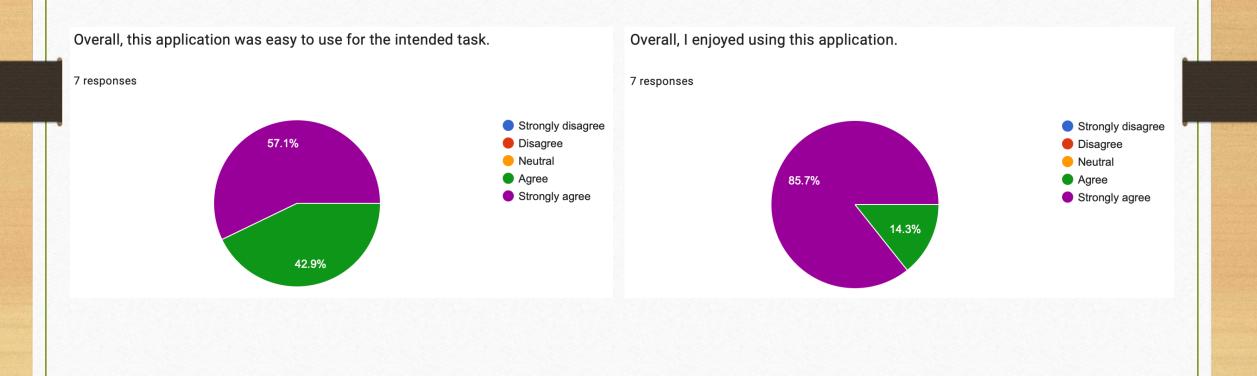
Scenario 4 & Resulting Pages

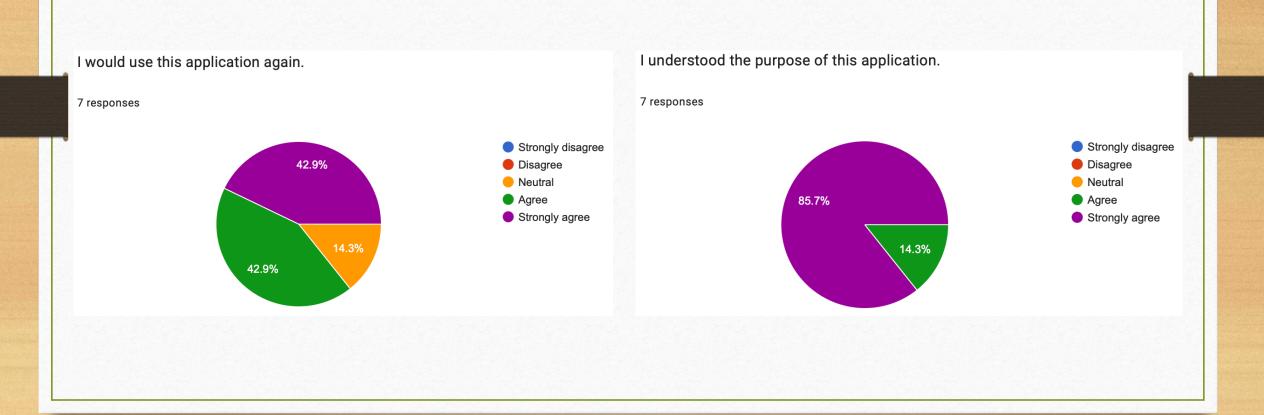
- Scenario criteria:
 - Female
 - Family history of blood clotting disorders

Risk Level Evaluation Form Very High Risk Do not perform BFR exercise Return to screening form

Test Results – Time to Complete Scenarios



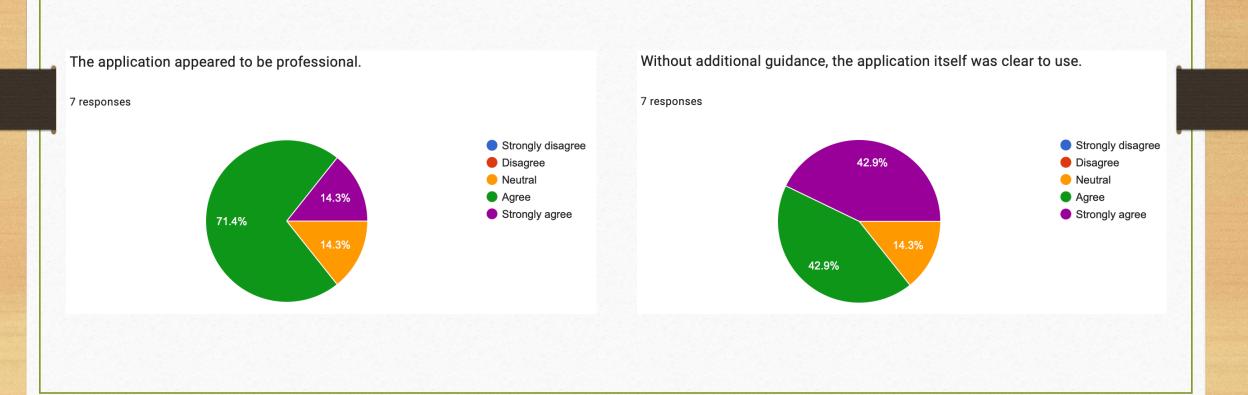




The application appears to solve a problem or facilitate an inconvenience.

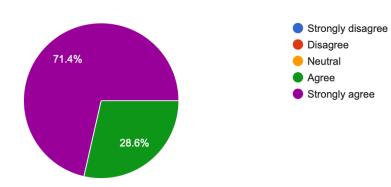
Imagining that I am the intended user, this application would be useful for me.

7 responses 7 responses Strongly disagree Strongly disagree 57.1% Disagree Disagree 71.4% Neutral Neutral Agree Agree Strongly agree Strongly agree 14.3% 14.3% 28.6% 14.3%

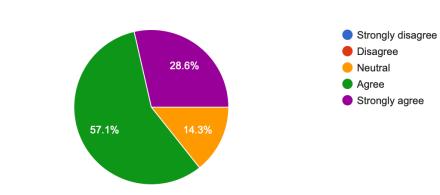


I would recommend this application to a medical practitioner who may need such a technology.

7 responses



The user interface and experience were well thought out even for people who may not have a technical background.



7 responses

Common Usability Questions

- Did you feel lost/confused at any point during the test?
- Did the front page of the website clearly communicate how to go through the general workflow of the application?
- Did you think the initial information page was helpful to learn about the devices?
- Was the "High Risk" page communicative that BFR is not recommended?

Bugs				
Bug Number	g Number Summary			
1	Input values for manual cuff page should be "required"	4		
2	Input validation on manual cuff page			
3	Submit button on manual cuff page requires excessive scrolling to reach	4		
4	404 ERROR: clicking on "Return to Screening Form" from High-Risk page	5		
5	5 Some pages open on new tabs but not all (lack of consistency)			

B

Select Upper/Lower Body Application
 Upper Body
Lower Body
Choose Your Cuff Width
○ 5cm
• 11cm
0 13cm
0 18cm
Please enter the following information
Systolic Blood Pressure (mmHg)
Diastolic Blood Pressure (mmHg)
Limb Circumference (cm)
Upper body instructions
Back Reset Submit Query

Recommended Changes

- Assuming that all bugs will be fixed, here are some other recommendations:
 - Consistency of button sizes for all pages
 - Provide some hints on every page to help the user with their options
 - The Help Page should open on a new tab by default from every page
 - The Help Page should have more comprehensive information for every reachable page
 - Back buttons and Homepage buttons should be available on all pages
 - *Temporarily save screening form responses if the user uses the application's Back button