Title: Progress Report 3

Date: 02/13/2025

Client: Dr. Andrew Ross Advisor: Dr. Megan McClean Team: Student 1: Ana Toscano Student 2: Rini Anand Student 3: Gabriela Cecon Student 4: Sofia Yeates-Delahoz

Problem statement

Design and develop a prototype that securely supports, stabilizes, and precisely maneuvers needles during awkward, image-guided minimally invasive radiology procedures to enhance ergonomics, reduce operator fatigue, and improve accuracy and patient outcomes

Brief status update

The team watched several cervical injection procedures this week to gain insight on the procedure. The team is currently working on the design matrix for the device.

Difficulties / advice requests

None to report.

Current design

This project is still in the research phase. There is no current prototype or design as of this week.

Materials and expenses

Currently, there are no expenses as the project is still in the preliminary research phase.

Item	Description		Mft Pt#	Vendor	Vendor Cat#	Date	#	Cost Each	Total	Link	
Category 1											
									\$0.00		
									\$0.00		

Category 2											
									\$0.00		
									\$0.00		
								TOTAL:	\$0.00		

Major team goals for the next week

- 1. Preliminary Presentation
- 2. Client Meeting
- 3. Brainstorming material
- 4. Start working on the preliminary report

Next week's individual goals

- Ana Toscano
 - Prepare for client meeting
 - Write Preliminary Report
 - Practice Presentation
- Rini Anand
 - Work on presentation
 - Practice presentation
 - Compile Preliminary Report
- Gabriela Cecon
 - Practice presentation with team
 - Work on the presentation
 - Begin to work on the Preliminary Report
- Sofia Yeates-Delahoz
 - Work on the preliminary presentation
 - Practice the preliminary presentation with the team
 - Start working on the preliminary report

Timeline

Took	Jan		F	eb		March				Ap	Мау				
Task	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8
Project R&D															
Empathize	Х														
Background															
Prototyping															
Testings															
Deliverables															
Progress Reports	Х	Х	Х												

Prelim presentation									
Final Poster									
Meetings									
Team	Х	Х	Х						
Client		Х							
Advisor	Х	Х	Х						
Website									
Update	Х	Х	Х						

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Ana Toscano	2/09 - 2/13	 Researched and wrote about the ease of use criteria for design matrix Observed a cervical injection procedure to gain insights into precision techniques and procedural challenges. Contributed to design brainstorming sessions 	3	3	10
Rini Anand	2/09 - 2/13	 Researched and wrote criteria for design matrix Attended procedure 	2	2	9
Sofia Yeates-Delahoz	2/09 - 2/13	 Worked on the "Effectiveness" criteria of the design matrix Attended a cervical injection procedure with Dr. Cooley and gained insight on the challenges with the current procedure Met with team to brainstorm design matrix criteria and preliminary design ideas 	3	3	9.5
Gabriela Cecon	2/09 - 2/13	 Completed drawings of the prototype for the design matrix Researched and wrote criteria for design matrix Attended a cervical spine injection procedure 	3	3	9