Vaginal Self-Swab Device to Minimize Contact Contamination

Client: Dr. Jean Riquelme

Advisor: Prof. Randolph Ashton

Date: 09/06/2024

Team:

Jackie Behring jbehring@wisc.edu (Co-Team Leader & BSAC)

Tatiana Predko tpredko@wisc.edu (Co-Team Leader & Communicator)

Mariah Smeeding jimenezsmeed@wisc.edu (BWIG)

Ava Fevold fevold@wisc.edu (BPAG)

PROBLEM STATEMENT

To design a vaginal self-swab to minimize contact contamination. The device needs to be easy to use, while also being comfortable for the user. Additionally, the device needs to be accurate, while also avoiding contamination from the user or environment.

BRIEF STATUS UPDATE

• The team met and went through the expectations and instructions provided for the first week. Team roles were assigned, as well as introductions to the advisor. The team was introduced to the client and got the first client meeting set up.

SUMMARY OF WEEKLY TEAM MEMBER DESIGN ACCOMPLISHMENTS

- Team:
 - Met advisor and set expectations for semester project
 - Emailed and introduced the team to the client
 - Introduced team to one another and determined meeting times
- Jackie Behring:
 - o Bought and set up lab archives notebook for the team
 - Set up a google drive for the team to stay organized
 - Assigned team roles

- Began researching STI swab techniques
- Familiarized and reviewed past team projects to understand what the new problem/product will be

Tatiana Predko:

- Prepared and shared progress report outline with the team
- Emailed and set up meeting times with both the client and the advisor; created and shared a Zoom meeting link
- Researched the efficacy and reliability of vaginal self-swabbing in comparison to physician-administered swabs; recorded in LabArchives
- Researched the benefits of self-swabbing with regard to the diagnosis of vaginal infections; recorded in LabArchives

• Mariah Smeeding:

- Successfully assigned to project and started researching competing designs
- Set team roles and responsibilities
- Explored Labarchives and our teams notebook
- Learned how to submit to our team website

Ava Fevold:

- Refamiliarized with LabArchives and the team notebook
- Researched a competing product and recorded notes in LabArchives
- Read over my roles and responsibilities as BPAG
- Met with the client

PROJECT DIFFICULTIES

• None to report

UPCOMING TEAM AND INDIVIDUAL GOALS

• Team:

• Meet with our client, Dr. Jean Riquelme and discuss project specifications on 9/12

• Meet with our advisor, Prof. Randolph Ashton on 9/13

• Jackie Behring:

- o Continue researching after consulting with advisor and client
- Begin working on the PDS
- Continue keeping lab archives updated with research and meetings

• Tatiana Predko:

- Research current competing designs and possible methods for device improvement
- Begin working on the PDS
- Add possible design ideas and additional research to LabArchives

• Mariah Smeeding:

• Submit first progress report to team website

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• Ava Fevold:

- Record any expenses that arise after meeting with the client
- Continue researching competing designs and start reading about the biological aspects of our project
- Begin working on the PDS

PROJECT TIMELINE

Task	Sep.			Oct.				Nov.				Dec.			
	15	22	29	6	12	14	21	28	4	11	18	25	2	9	14
Deliverables															
Progress Report															
PDS Draft															
Design Matrix															
Preliminary Oral															

Presentation													
Preliminary Lab Notebook													
Preliminary Report													
Preliminary Evaluations													
Show and Tell													
Final Poster Presentation													
Final Lab Notebook													
Final Report													
Final Evaluations													
Meetings													
Team													
Advisor													
Client													

EXPENSES

Item	Description	Manufacturer	Part Number	Date	QTY	Cost Each	Total	Link
TOTAL:								\$0.00