

Aligna-Painless IUD placement

Progress Report 1

9/5/2026 - 9/10/2026

Team:

Kendra Ohde (ohde@wisc.edu)	Team Leader
Carolyn Randolph (crrandolph@wisc.edu)	Communicator
Ashmita Bhowmik (bhowmik3@wisc.edu)	BSAC
Francesca Angiulli (fangiulli@wisc.edu)	BPAG
Alexis DePuydt (adepuydt@wisc.edu)	BWIG

Advisor:

Prof. Darilis Suarez-Gonzalez (dsuarez@wisc.edu)

Client:

Ms. Reshma Kandipati (kandipati@wisc.edu)

Dr. Beth Martin (kandipati@wisc.edu)

Problem statement

Intrauterine devices (IUDs) are highly effective in preventing pregnancy with no significant impact on fertility post-removal. They serve as a relatively low maintenance form of birth control that lasts up to 10 years. Despite the implementation of pain management techniques such as NSAIDs, the insertion process remains moderately to severely painful for more than half of patients. Our team aims to design a device that will prioritize patient comfort during the IUD insertion process while maintaining the efficacy of the procedure.

Brief status update

After selecting the project, the team made contact with the client, began research, and developed preliminary questions.

Previous Week Individual Goals and Accomplishments

N/A

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Carolyn	9/6-9 9/4-9	Coordinated client meeting and drafted agenda Researched and generated questions	1 1	2	2
Ashmita	9/9	Performed literature search on IUD insertion and current pain management techniques and come up with client questions	2	2	2
Kendra	9/7-9	Researched IUD insertion procedure, competitive devices, and recommendations from the USDA on IUD insertions. Along with generating questions for our client	2	2	2
Francesca	9/6-8 9/9-10	Did project background research on anatomy and current IUD practices Generated questions to ask client	2	2	2
Alexis	9/10 9/8	Researched IUD insertion procedure and Why NSAIDS tend to not provide pain relief Came up with questions for the client	1.5 0.5	2	2

Major Team Goals For The Next Week

1. Engage in additional research
2. Continue communication with client
3. Begin brainstorming potential designs and work on the PDS document

Next Week's Individual Goals

- Kendra Ohde
 - Use research and client specification to think about design ideas for materials and overall structure.
 - Complete PDS
- Carolyn Randolph
 - Begin to develop the product design specifications based upon input from the client and document literature review.
- Ashmita Bhowmik

- Start on PDS, brainstorming project designs, develop design matrix, continue literature review, meet with client
- Attend BSAC meeting
- Francesca Angiulli
 - Continue researching existing solutions, work towards comprehensive understanding of involved anatomy and this specific medical procedure
- Alexis DePuydt
 - Continue research on current methods and competing devices
 - Begin working on the PDS

Difficulties / advice requests

N/A

Current design

N/A

Materials and expenses

Item	Description	Manufac-turer	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	

Timeline

[illegible]

PDS																
Design Matrix																
Prelim Presentation																
Prelim Deliverables																
Final Design																
Project Manufacturing																
Invention Disclosure Report																
Show and Tell																
Final Poster																
Final Deliverable																

Filled boxes = projected timeline

X = task was worked on or completed

Important Dates:

First PDS Draft Due: September 18th

Design Matrix Criteria and Design Ideas Due: September 25th

Preliminary Presentation: October 2nd

Preliminary Deliverables: October 7th

(Optional) Invention Disclosure Report: October 16th

Show and Tell: October 30th

Final Poster Presentations Due: December 4th

Final Deliverables Due: December 9th

Current References:

1)