

Aligna-Painless IUD placement

Progress Report 4

9/25/2026 - 10/2/2026

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)

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

This past week the team assembled our research and design ideas/matrix into a presentation to share with our cohort. We continued to iron out the details of our funding proposal and will turn in our preliminary report in the coming week.

Previous Week Individual Goals and Accomplishments

- Kendra Ohde
 - Work on preliminary presentation slides
 - Determine best design based on client's feedback
- Carolyn Randolph
 - Develop preliminary presentation slides
 - Finalize application for funds
- Ashmita Bhowmik
 - Work on preliminary presentation
 - Meet with client to finalize design idea
 - Start brainstorming and developing fabrication protocols for finalized prototype
- Francesca Angiulli
 - More concretely establish/outline design idea from matrix for the upcoming assignment deadlines
 - Write a cost/budget proposal for our project
- Alexis DePuydt
 - Work on the preliminary presentation
 - Discuss design ideas and budget with the client
 - Research materials for prototyping

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Carolyn	9/25 - 9/29 9/30-10/1 9/30-10/1	Preliminary presentation Revising preliminary presentation Budget Proposal	1 1 1.5	3.5	14.5
Ashmita	9/27, 9/30 9/29	Research on Nano/Micro cameras Work on preliminary report	1 2	3	14
Kendra	9/28-10/1 10/1	Preliminary Presentation Microcamera research	2 1	3	13
Francesca	9/25 9/26-10/1 9/27	BPAG Meeting Preliminary Presentation Suction Design Research	0.5 2 0.5	3	14
Alexis	9/28-10/1 9/30	Preliminary Presentation Research on cameras	2.5 1	3.5	14.5

Major Team Goals For The Next Week

1. Preliminary Report
2. Start CAD/Design Process

Next Week's Individual Goals

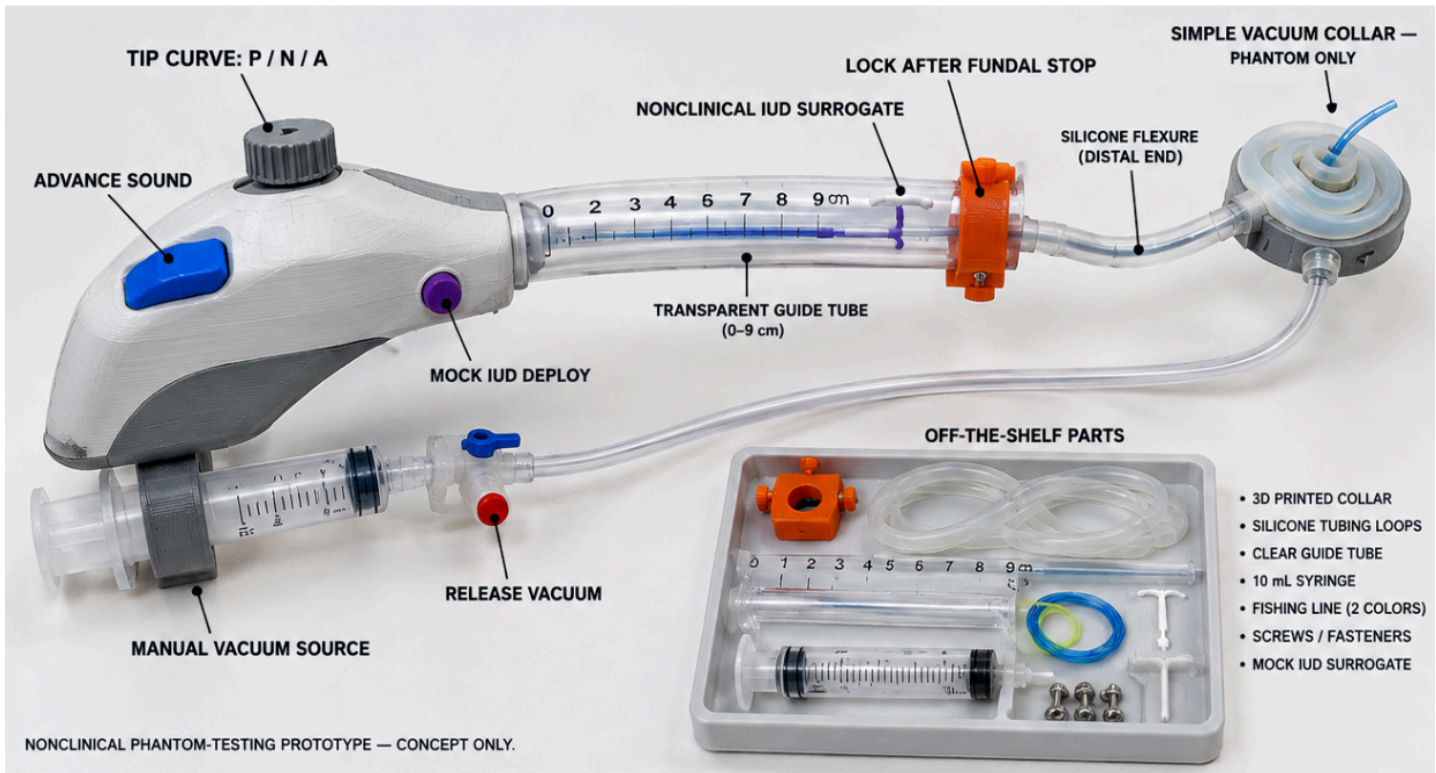
- Kendra Ohde
 - OBGYN Zoom meeting
 - Preliminary Report Work
 - Prototype planning
- Carolyn Randolph
 - Preliminary Report
 - Begin CAD design for the distal end suctioning component
 - Verify materials list with rest of team
- Ashmita Bhowmik
 - Meet with OBGYN from UHS to talk about feasibility of our design and clear up any procedural questions
 - Work on Preliminary Report
 - Start prototyping and create a protocol/plan
- Francesca Angiulli
 - Gynecologist Discussion
 - Work on the Preliminary Report
 - Start planning for prototyping
- Alexis DePuydt
 - Meet with an OBGYN Provider to discuss more about IUD process and if our design seems feasible
 - Work on the Preliminary Report
 - Begin CAD and ordering materials for prototyping

Difficulties / advice requests

N/A

Current design

Design Matrix: [link here to full document](#) with criteria descriptions



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

Task	Week #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Project Selection		X														
Project Report		X														
Client Meeting			X													
PDS				X												
Design Matrix					X											
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)