

Medication Delivery and Use in Home-Based Hospital Care

(Medication Delivery)

Date: 9/4/2026 - 9/11/2026

Client: Jennifer Woodard

Advisor: Randy Bartels

Team:

Aariel Moore - Team Leader, ajmoore4@wisc.edu

Sascha Jameson - BWIG, sjameson@wisc.edu

Alayna Allsop - BSAC, alallsop@wisc.edu

Caiden Krzmarzick - Communicator, ckrzmarzick@wisc.edu

Sarvesh Anandhaganesen - Co- BPAG, anandhaganes@wisc.edu

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Problem statement

Patients when entering home-based hospital care that have poor vision, weak grip strength, or shaky hands tend to struggle when opening and taking their medication. Currently hospital packaging takes too much physical force and hand control. This then leads to issues with taking the correct doses, dropping medication, or completely skipping it. We need an easy tool that patients like these can use to open their medication without difficulty or the need of a care provider.

Brief status update

The team has met outside of class to discuss the current problem and future expectations for the semester.

Difficulties / advice requests

Pending after more progress is made and questions are answered by the client.

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	

Goals

Major team goals for the next week

1. Meet with Client to review design concepts and finalize project requirements
2. Meet with advisor about next steps
3. Work on the Product Design Specifications Draft due September 17th

Next week's individual goals

- Ariel Moore...
 - Begin research on in home care
 - Understand clients needs and began prototyping
 - Organize Lab archive notes
- Alayna Allsop
 - To brainstorm design ideas based on the client's specifications
 - Work on the PDS Draft
 - Continue researching
- Caiden Krzmarzick
 - Begin research and enter into notebook
 - Keep in touch with client
 - Set up in-person meeting with advisor (was out of town week of 9/7-9/11)
- Sascha Jameson
 - Brainstorm design ideas
 - Update the team website
 - Research medication delivery and devices currently in use on the market
 - Work on the PDS draft
- Sila Olcay
 - Continue finding relevant research & keep entries in notebook
 - Meeting with the client and advisor
 - Start working with the team, client and advisor
- Sarvesh Anandhaganesen
 - Continue research and create research entries in notebook

- Begin brainstorming ideas with the team
- Meet with client and advisor

Timeline

Task	Sept				Oct					Nov				Dec	
	4	10	17	24	1	8	15	22	29	5	12	19	26	3	10
Project R&D															
Empathize															
Background...															
Prototyping															
Testings															
Deliverables															
Progress Reports															
Prelim presentation															
Final Poster															
Meetings															
Client															
Advisor															
Website															
Update															

Filled boxes = projected timeline

X = task was worked on or completed

Detailed accomplishments

Previous week's goals and accomplishments

- Ariel Moore...
 - Chose project and assigned roles
 - Set up lab archives
 - Completed 4 research articles
- Alayna Allsop
 - Assigned to BSAC role and signed up to be a mentor
 - Began project research
 - Set up semester schedule with a client meeting timeline
- Caiden Krzmarzick
 - Chose project and acquired a role
 - Reached out to client and introduced ourselves
 - Attempted to set up a teams meeting with client(s)
- Sascha Jameson
 - Choose project and acquired role
 - Update the team website
 - Begin project research

BME Design: 200, 300, 301, 400 and 402

- Sila Olcay
 - Chose project and acquired a role
 - Began project research
- Sarvesh Anandhaganesen
 - Chose project and decided team roles
 - Met with advisor
 - Began the first stage of project research

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	9/7/2026	Research	3	3	3
Alayna Allsop	9/9/2026	Research	3	3	3
Caiden Krzmarzick	9/9/2026	Research	1	1	1
Sarvesh Anandhagansen	9/10/2026	Research	1	1	1
Sila Olcay	9/10/2026	Research	1	1	1
Sascha Jameson	9/10/2026	Research	3	3	3