

Medication Delivery and Use in Home-Based Hospital Care

(Medication Delivery)

Date: 9/10/2026 - 9/17/2026

Client: Jennifer Woodard

Advisor: Randy Bartels

Team:

Aariel Moore - Team Leader, ajmoore4@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. Part of the team participated in the first client meeting. We will begin brainstorming design ideas individually and collectively we will complete the design matrix.

Difficulties / advice requests

Waiting for information from the client regarding pharmacy contact.

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. Complete Design Matrix
2. Complete more research entries
3. Choose first design draft

Next week's individual goals

- Ariel Moore
 - Continue Research
 - Begin preparing for presentation
 - Start solidworking design ideas
- Alayna Allsop
 - Develop and prepare for presentation
 - Update prototype drawing in solidworks
- Caiden Krzmarzick
 - Continue research
 - Modify design prototype
 - Work on oral presentation
- Sascha Jameson
 - Continue research
 - Work on presentation
 - Finalize a design
 - Complete design matrix
- Sila Olcay
 - Continue research
 - Work on design & come up with design improvements
 - Work on presentation
- Sarvesh Anandhaganesen
 - Continue research
 - Work on preliminary presentation

- Finalize design matrix

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	X	X	X	X											
Background...		X	X												
Prototyping															
Testings															
Deliverables															
Progress Reports	X	X	X	X											
Prelim presentation															
Final Poster															
Meetings															
Client				X											
Advisor			X	X											
Website															
Update	X	X	X	X											

Filled boxes = projected timeline

X = task was worked on or completed

Detailed accomplishments

Previous week's goals and accomplishments

- Aariel Moore...
 - Completed more research entries
 - Completed design
 - Met with team about design matrix
- Alayna Allsop
 - Drafted a drawing for a potential design
 - Met with client to clarify project scope
 - Met with team to go over design matrix
- Caiden Krzmarzick
 - Completed research entries
 - Completed design
 - Met with advisor
 - Had initial client meeting
- Sascha Jameson

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

- Completed 4 new research entries
 - Met with team
 - Met with advisor
 - Completed PDS
- Sila Olcay
 - Completed more research entries
 - Completed a sample design
 - Met with advisor
 - Had our first client meeting
 - Met with team about design matrix
- Sarvesh Anandhaganesen
 - Continue research
 - Met with team to discuss design ideas
 - Worked on design matrix
 - Met with advisor

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	9/7/2026	PDS, Research	1.5	1.5	8.5
Alayna Allsop	9/23/2026	Designing, Client Meeting	5	5	9
Caiden Krzmarzick	9/22/2026	Research, Design	3	3	11
Sarvesh Anandhagansen	9/17/2026	PDS, Research, Matrix, Designs	4	4	8
Sila Olcay	9/23/2026	PDS, Research	3	3	8
Sascha Jameson	9/10/2026	Design Matrix, Research	4	4	11