

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

Sascha Jameson - BWIG, sjameson@wisc.edu

Alayna Allsop - BSAC, alallsop@wisc.edu

Caiden Krzmarzick - Communicator, ckrzmarzick@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. We will begin brainstorming design ideas individually and collectively, and we will finish the PDS draft this week.

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-	Mft	Vendor	Vendor	Date	#	Cost	Total	Link
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		turer	Pt#		Cat#			Each		
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 PDS Draft
2. Complete more research entries
3. Begin drawing designs
4. Develop a design matrix

Next week's individual goals

- Ariel Moore...
 - Continue Research
 - Create 3 different designs
 - Meet with Client
- Alayna Allsop
 - Meet with client
 - Continue research
 - Brainstorming design ideas
 - Work on the design matrix
- Caiden Krzmarzick
 - Continue research into other diseases
 - Attend client meeting
 - Spend time on one design based on meeting
- Sascha Jameson
 - Continue research, but shift to competing designs
 - Meet with client
 - Brainstorm design ideas
- Sila Olcay
 - Continue researching and doing the research entries
 - Meet with client
 - Come up with design ideas
- Sarvesh Anandhaganesen
 - Continue research
 - Discuss client needs and come to an understanding
 - Start brainstorming design ideas

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

Filled boxes = projected timeline

X = task was worked on or completed

Detailed accomplishments

Previous week's goals and accomplishments

- Ariel Moore...
 - Completed three research entries
 - Met with team
 - Assigned PDS sections
- Alayna Allsop
 - Attended the first BSAC meeting
 - Worked on PDS sections
 - Researched patents and relevant standards
- Caiden Krzmarzick
 - Completed 4 research entries
 - Worked on PDS sections
 - Communicated with client and found meeting time
- Sascha Jameson
 - Updated the team website
 - Researched medication delivery and devices currently in use on the market

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

- Worked on the PDS draft
- Sila Olcay
 - Completed several research entries
 - Worked on the PDS draft
- Sarvesh Anandhaganesen
 - Worked on first draft of PDS
 - Completed more research entries

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	9/7/2026	PDS, Research	4	4	7
Alayna Allsop	9/9/2026	PDS, Research	4	4	7
Caiden Krzmarzick	9/16/2026	PDS, Research	6	6	8
Sarvesh Anandhaganesen	9/17/2026	PDS, Research	3	3	4
Sila Olcay	9/10/2026	PDS, Research	4	4	5
Sascha Jameson	9/10/2026	PDS, Research	4	4	7