

Medication Delivery and Use in Home-Based Hospital Care

(Medication Delivery)

Date: 9/25/2026 - 10/01/2026

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

Sila Olcay - Co- BPAG, solcay@wisc.edu

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.

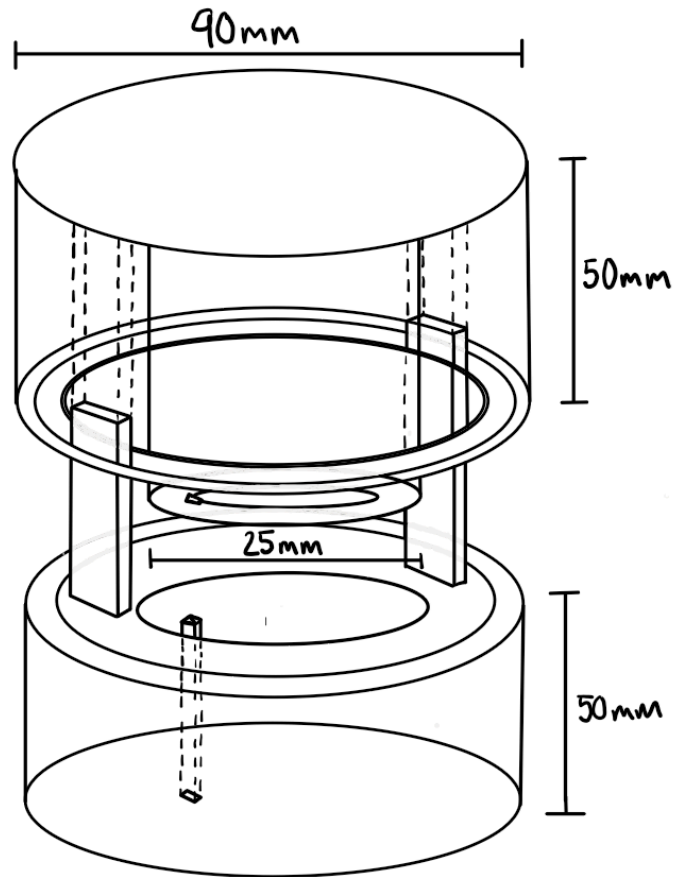
Brief status update

The team has met outside of class to discuss the preliminary designs and create a design matrix. Future client meetings to discuss progress were also scheduled during that time. We will begin using SolidWorks to bring our final preliminary design to life and create an initial prototype to test on various blister packaging.

Difficulties / advice requests

N/A

Current design



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. Begin solidworks and prototyping
2. Continue advancing design
3. Finish Preliminary report

Next week's individual goals

- Ariel Moore
 - Continue Research
 - 3D print design
 - Begin and edit preliminary report
- Alayna Allsop
 - Work on developing a solidworks file for the final design
 - Continue research
 - Improve and update features of the design as needed
- Caiden Krzmarzick
 - Continue research
 - Give design feedback
 - Continue constant communication with client & advisor
- Sascha Jameson
 - Continue research
 - Update website
 - Give design feedback
- Sila Olcay
 - Continue research
 - Give design feedback
 - Begin and edit preliminary report
- Sarvesh Anandhaganesen
 - Meet with client to continue updates and gather feedback
 - Work on developing design and continuing to update
 - Continue research and find out how we can improve our design

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	X										
Background...		X	X												
Prototyping															
Testings															
Deliverables															
Progress Reports	X	X	X	X	X										
Prelim presentation					X										
Final Poster															
Meetings															
Client				X	X										
Advisor			X	X	X										
Website															
Update	X	X	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 more research entries
 - Began solidworking
 - Finished slides for oral presentation
- Alayna Allsop
 - Finished slides for preliminary presentation
 - Completed dimensioned drawing of final design
 - Began creating a solidwork file of the design
- Caiden Krzmarzick
 - Completed research and training entries
 - Scheduled client meetings for rest of semester
 - Finished slides for first presentation
- Sascha Jameson
 - Finished preliminary slides
 - Completed more research entries
 - Provided feedback on preliminary designs
- Sila Olcay
 - Finished slides for first presentation
 - Completed more research entries
 - Came up with a design & provided feedback on designs
- Sarvesh Anandhaganesen
 - Discuss Design Ideas
 - Met with advisor and gathered feedback on design and thought process
 - Work on preliminary design presentation
 - Practice presentation

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	9/7/2026	Presentation slides, prototype	4	4	12.5
Alayna Allsop	9/30/2026	Designing, Client Meeting	4	4	13
Caiden Krzmarzick	9/29/2026	Presentation slides, Research	2	2	13
Sarvesh Anandhagansen	9/17/2026	PDS, Research, Matrix, Designs	3	3	11
Sila Olcay	9/23/2026	PDS, Research	3	3	8
Sascha Jameson	9/30/2026	Preliminary Presentation, Research, Website	4	4	15