

Medication Delivery and Use in Home-Based Hospital Care

(Medication Delivery)

Date: 10/10/2026 - 10/15/2026

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, anandhaganesen@wisc.edu

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

Problem statement

Older adults and others with reduced grip strength, dexterity, or vision frequently cannot open blister-packaged medication, particularly peel-back foils. Existing aids either require substantial force, fail on peel-away packaging, or are too large, costly, or hazardous for personal use. As a result, patients drop pills, use sharp tools, or miss doses. A portable, low-force, low-cost tool is needed that safely opens both peel-back and push-through blister packaging without modifying the package or exposing sharp edges.

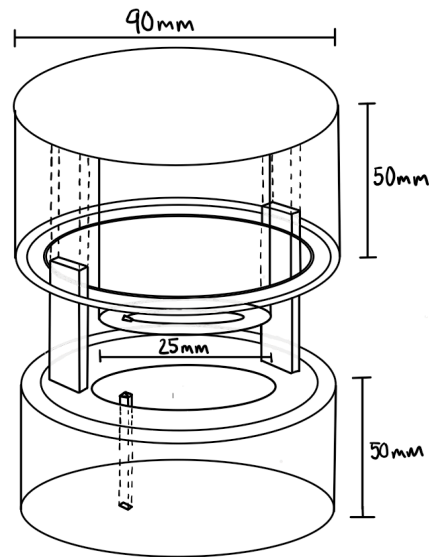
Brief status update

The team has met outside of class to discuss the preliminary designs and present them to a small group of classmates and advisors. Future client meetings to discuss progress have been scheduled to discuss these designs. We will begin using SolidWorks to bring our final preliminary design to life and create an initial prototype to test on various blister packaging. 3D printing of an initial prototype was completed.

Difficulties / advice requests

N/A

Current design



Materials and expenses

Item	Description	Manufacturer	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. Test prototypes
3. Continue advancing design

Next week's individual goals

- Ariel Moore
 - Testing

- Meet with client
- Reprint and change issues with prototype
- Alayna Allsop
 - Meet with client
 - Perform initial tests on prototype
 - Continue research
- Caiden Krzmarzick
 - Continue research into materials
 - Test prototype
 - Finish training requirements
- Sascha Jameson
 - Test the new prototype
 - Research materials for a secondary prototype
 - Meet with group members
 - Analyze testing results
- Sila Olcay
 - Continue research
 - Test prototype
 - Work on training requirements
 - Met with solidworks advisor for new design ideas
- Sarvesh Anandhaganesen
 - Test prototype
 - Look for improvements and compare to competing designs
 - Work on completing required trainings

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

Update	X	X	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
 - Finished solid working
 - 3D printed
 - Reassess design
- Alayna Allsop
 - Researched 3D printing and design materials
 - Worked on dimensioning initial prototype
- Caiden Krzmarzick
 - Research into final design materials
 - Continued contact with client and advisor
 - Worked on required trainings
- Sascha Jameson
 - Researched final design materials
 - Connected with team members about client and team goals
- Sila Olcay
 - Worked on required trainings
 - Found more relevant research
- Sarvesh Anandhaganesen
 - Researched more competing designs and potential testing struggles
 - Worked on required trainings

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	10/14/2026	Research,Solidworking, 3D Printing	7	7	24
Alayna Allsop	10/14/2026	Research	3	3	20
Caiden Krzmarzick	10/14/2026	Research, Training	4	4	20
Sarvesh Anandhagansen	10/14/2026	Training, Research	2	2	16
Sila Olcay	10/14/2026	Research, Training	6	6	18

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

Sascha Jameson	10/14/2026	Research	1	1	18
----------------	------------	----------	---	---	----