

OstoSeal: Waterproof and reusable ostomy pouch shower cover

Client: Mrs. Tami Mlodik

Advisor: Prof. Duc-Huy Nguyen

Team Members:

Eve Vosters (evosters@wisc.edu) - BWIG

Cassity Dechenne (dechenne@wisc.edu) - Co-Leader

Addison Tanner (artanner@wisc.edu) - Co-Leader

Kira Schienke (kschienke@wisc.edu) - Communicator

Lilli Tanner (ltanner5@wisc.edu) - BSAC

Lana Schardt (lschardt@wisc.edu) - BPAG

Date: September 4th, 2026 - September 11th, 2026

Problem statement

This project will work towards the creation of a safe, comfortable and effective ostomy pouch and wafer adhesive cover meant to keep the two components dry during showering. Current methods of keeping ostomy pouches and adhesives are often unreliable or inconvenient which negatively impacts the users quality of life. This cover is intended to work with a schedule of at least daily showers, and must be durable and easy enough to use in order to accommodate this stipulation. This device should be firmly waterproof and compact to support a schedule of daily use. Also, it must fit the variety of pouch sizes and waistline shapes and sizes that a person could have.

Brief status update

- Looked into expectations for respective roles and timeline of project deadlines.
- Started research on ostomy pouches and ostomies.
- Began research on safe materials to come in contact with ostomy pouches.

Difficulties/advice requests

None at this time

Current design

No design at this time

Materials and expenses

No materials or expenses at this time

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	

Major team goals for the next week

1. Learn about what our project is all about.
2. Meet as a team on Friday along with our advisor.
3. Begin researching.

Next week's individual goals

- Addison Tanner: Continue to learn about what an ostomy pouch/bag is, along with what materials are currently used.
- Eve Vosters: Conduct research on how the ostomy bag connects to the abdomen and continue researching materials used in similar projects/products.
- Kira Schienke: Research how an ostomy pouch works and what varies across different designs. Use notes from this week's client meeting to determine specific issues with existing products.
- Lana Schardt: Conduct research into the user experience of living with an ostomy and existing shower products for ostomy protection, familiarize myself with the expectations of the BPAG role.
- Lilli Tanner: Research what materials/adhesives are currently being used in products for showering with an ostomy pouch and what complaints/concerns there are with existing products.
- Cassidy Dechenne: Look into materials that can safely touch ostomy pouch/skin, research possible adhesives.

Timeline

 OstoSeal Project Timeline

Activities

Name	Date	Activity/Previous Week's Accomplishments	Time (h)	Week Total (h)	Sem. Total (h)
Addison Tanner	9/7/2026	• Filled in the LabArchives notebook to begin • Figured out my expectations as a Co-Leader	1	1	1

		Began conducting research on what an ostomy pouch is			
Eve Vosters	9/7/2026	- Conducted research on the different types of intestinal ostomies and documented aspects of each one. - Researched similar patents/projects, and noted viable materials that could be used for the waterproof seal. - Updated team website with team picture and progress report 1 and created project timeline.	1	1	1
Kira Schienke	9/8/2026	- Contacted the client to introduce our team. Set up a virtual meeting with the client to discuss specifics about the project. - Researched existing products that offer ostomy pouch protection from water.	1	1	1
Lana Schardt	9/7/2026	- Reviewed the BPAG Purchasing Guidelines slideshow - Set up a live mastercopy of our expense spreadsheet in the shared drive that we can continually update throughout the project - Researched existing ostomy products for water protection, as well as different adhesive and waterproof materials used in medicine and industry	1	1	1
Lilli Tanner	9/7/2026	- Researched different kinds of pouch systems and products currently on the market for showering - Noted dates of BSAC meetings	1	1	1
Cassity DeChenne	9/7/2026	- Researched ostomy pouches and need for waterproof sealing. - Looked into requirements and expectations for the Co-Leader role.	1	1	1