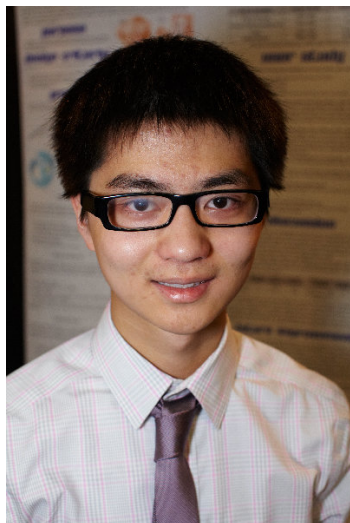


ESPC 2012 - Charlottetown (Ile-du-Prince-Édouard)



Tiange Li

Adjustable Circular Cutter for Baseplates in the Ostomy Pouching System

Défi: Innovation

Catégorie: Sénior

Région: Toronto

Ville: North York, ON

École: A.Y. Jackson S.S.

Sommaire: An adjustable circular cutter was designed and prototyped for use on baseplates in the ostomy pouching system. Cost estimates and experiments were conducted, with the results that the device will be relatively cheap to manufacture, is quick and easy to operate, and forms neat and round cuts on ostomy baseplates. Positive feedback was obtained from potential users of the device after conducting several interviews.

Biographie

I am currently enrolled at A.Y. Jackson Secondary School in North York, Ontario. I am involved in a number of school groups and activities, as well as volunteering in various healthcare institutions. It is through my interactions with a nurse with previous ostomy care experience that I discovered the inefficiency of current methods of making openings on ostomy baseplates. My science fair is therefore the analyzing of and improvement to such methods. After making a prototype of the current design, I conducted a series of interviews with ostomates and ostomy care nurses to receive feedback. I am currently working on improving aspects of my projects that the interviews raised (i.e. portability, clamping methods, and optimizing user experience), moving the ostomy cutter towards practical usage. For others planning on doing a science fair, my input is to look around you for recurring problems that might be over looked by others. If you are able to analyze and come up with a simple but novel solution to such problems, it can become a very meaningful project.

Prix

Valeur

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| Prix d'excellence - Senior - Médaille de bronze Commanditaire: Société de gestion des déchets nucléaires | 300,00 \$ |
| Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa | 1 000,00 \$ |
| Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western | 1 000,00 \$ |
| Total | 2 300,00 \$ |