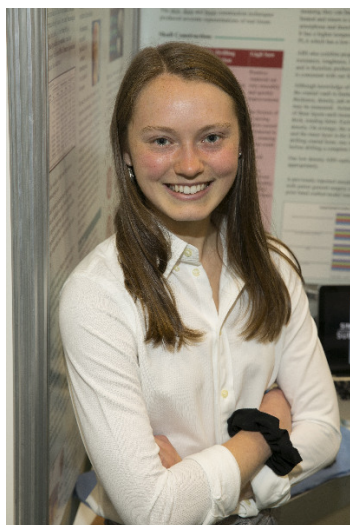


ESPC 2017 - Regina (Saskatchewan)



Nora Boone

It's only Brain Surgery! 3D Printing: Developing a Craniotomy Simulation Tool

Défi: Innovation

Catégorie: Sénior

Région: Eastern Newfoundland

Ville: St. John's, NL

École: Holy Heart High School

Sommaire: Utilizing 3D printing technology, we successfully developed a simulation tool to train Non-Neurosurgeons (General surgeons), living in rural communities, to perform emergency craniotomies when life threatening intracranial hematomas do not allow transfer time to neurosurgical care. Outcome from serious head injuries requiring operative intervention is highly dependent on timely intervention. We believe education programs utilizing our device can improve head injury outcomes in rural

Biographie

I am a level 2 student at Holy Heart High School, St. John's, Newfoundland and Labrador. I am an active member of my school and my community. I serve on the student council, and am a member of various bands and sports teams including the Senior Girls Volleyball team and the Ultimate Frisbee team. I also run a knitting group at a local retirement home and help coach the Special Olympic Snowshoeing Team. I love travelling and taking part in unique educational experiences. Last summer I completed a Leadership in Training program in Ontario and embarked on a 10 day canoe and portage trip which was incredible! This summer I am very excited to take part in the Students on Ice Arctic Expedition! I also enjoy running, yoga and reading. I am interested in Science and Medicine and hope to pursue a career in Medicine. I am also interested in global issues and giving back to my community. The idea behind our project stemmed from an interest in Medicine as well as solving a local issue in our community. We hope to further refine our model. Hopefully it can be incorporated into the surgical resident training program at Memorial University.

Prix

Valeur

Prix Jeunesse innovante - Sénior	1 000,00 \$
Commanditaire: La Fondation Gwyn Morgan et Patricia Trottier	
Prix du défi - Innovation - Sénior	
Commanditaire: Sciences jeunesse Canada	
Prix d'excellence - Sénior - Médaille d'or	250,00 \$
Commanditaire: Sciences jeunesse Canada	
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	5 000,00 \$
Médaille d'or, sénior - Bourse d'admission de 5 000 \$	
Commanditaire: Université Dalhousie, Faculté des sciences	
Prix d'admission en sciences de UBC (Vancouver)	4 000,00 \$
Médaille d'or, sénior - Bourse d'admission de 4 000 \$	
Commanditaire: The University of British Columbia (Vancouver)	
Bourse d'admission de l'Université du Manitoba	5 000,00 \$
Médaille d'or, sénior - Bourse d'admission de 5 000 \$	
Commanditaire: Université du Manitoba	
Bourse d'admission de l'Université d'Ottawa	4 000,00 \$
Médaille d'or, sénior - Bourse d'admission de 4 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	4 000,00 \$
Médaille d'or - Bourse d'admission de 4 000 \$	
Commanditaire: Université Western	
Total	23 250,00 \$