

## CWSF 2018 - Ottawa, Ontario



### Torrie Spence, Shauntay Malcolm

#### Investigating Diabetes, Obesity, and Adipogenesis

**Challenge:** Health

**Category:** Senior

**Region:** Manitoba First Nations

**City:** Ebb and Flow, MB

**School:** Ebb And Flow School

**Abstract:** 90% of people with diabetes are obese. The best indicator of diabetes is obesity. We performed an experiment on fat cells with different levels of sugar to find a connection between diabetes and obesity.

#### Biographies

Torrie - My name is Torrie Spence, I am 16 years old. I am from Ebb and Flow First Nation. I go to Ebb and Flow School. I've been doing science fair projects for 7 years. I also play volleyball and am on my high school volleyball team. When i graduate I'd like to go to university or college to study medicine and become a paediatric nurse or doctor. I've been with the Manitoba First Nations Science Mentorship for 3 years. The inspiration for our project is the very highly growing concern of diabetes and obesity in First Nation Communities across Canada. We wanted to show people what happens inside their body when they have a poor diet and exercise in h...

Shauntay - My name is Shauntay Malcolm, I am 17 years old and I have been working with the Manitoba First Nations science mentorship program for 3 years, The inspiration for our project is the highly growing concern on diabetes and obesity across First Nations communities throughout Canada, We wanted to show people what happens in their body in hopes they change their diets. For future investigations, I am thinking about studying further into type 1 diabetes, for example, what causes it to be an autoimmune disease? Could this type of disease be prevented? Why is it so common for kids and teenagers? Type 1 diabetes is a very questionable disease and wher...

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