





























Agenda

- Introduction What is diabetes?
 - Star Activity
- 2. Background Food security
 - Wellness Tower
- 3. Research Questions
- 4. Methods
- 5. Results
 - Group activity
- 6. Discussion Conceptual Framework
- 7. Conclusion













Introduction



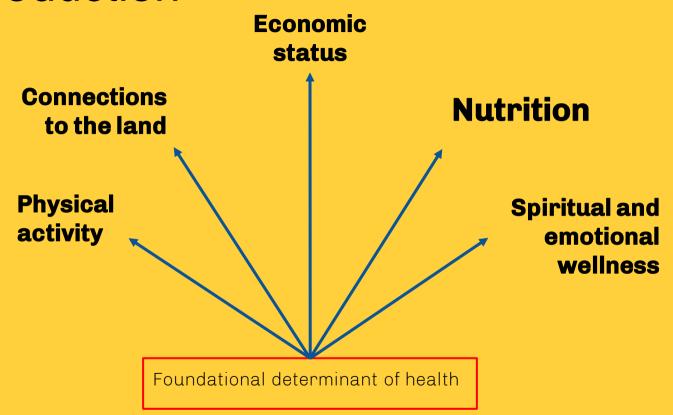
What is diabetes?

Definition by Western healthcare practitioners

Perceptions of diabetes by Indigenous peoples



Introduction













Biographical disruption of diabetes



Background

- Food systems
- Traditional foods

Food insecurity

Our focus ...

Colonialism



Background



Access

Utilization

Stability













Research Questions

- 1. What **community-based approaches** have Indigenous peoples in remote Canadian settings implemented to effectively address the increasing incidence of diabetes since 1990?
- 1. Based on these cases, what common themes have made community-based approaches effective in addressing diabetes?

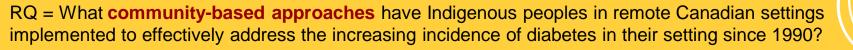
Focus is on approaches that address food insecurity and systems



GOALS

- 1. Identify **community-based approaches** that were successful in addressing diabetes in remote Indigenous communities since 1990
- 1. Present a preliminary conceptual framework that summarizes underlying themes behind these approaches to diabetes management





Why focus on community-based approaches?



Wellness Towers

Each coloured paper represents a different common resource used to address diabetes:

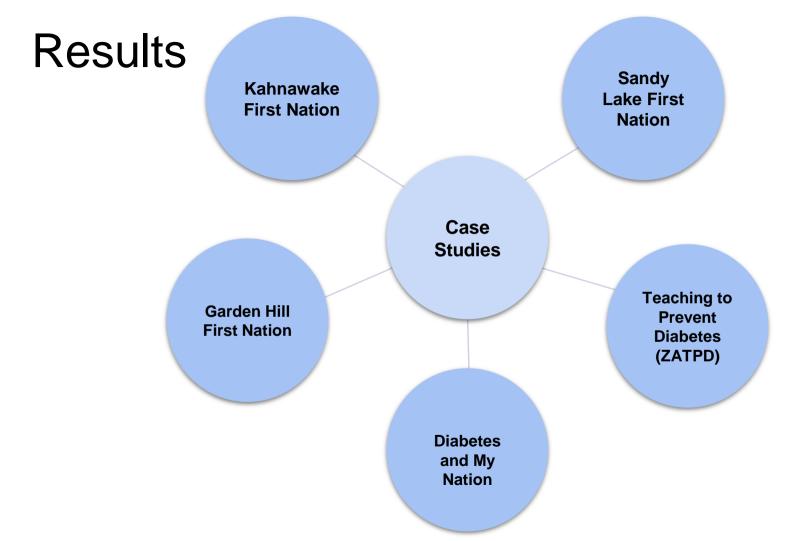
- Red = Educational programs
- Orange = School gardens
- Navy blue = Community gardens
- Purple = Access to traditional foods
- Light blue = Consultations with healthcare professionals
- Green = Youth programming
- White = Promotional materials on nutrition

Objective: Build the tallest paper tower possible

Methods

- ★ <u>Databases</u>: PubMed, SCOPUS and Indigenous Peoples North America
- ★ <u>Study Designs</u>: Case-studies, cohort studies, systematic reviews and meta-analyses
- ★ Other sources include websites by Indigenous communities, Facebook groups, community posters on social media





Results - Kahnawake First Nation

Context: Mohawk Community in Québec

Program: Kahnawake Schools Diabetes Prevention Project (KSDPP)

Objectives: Offer school-based programming to reduce diabetes incidence by improving dietary intake and sedentary behaviors in children



KSDPP

Key Findings:

- Program increased overall awareness of diabetes in the community
- Participants had a more holistic view of health
- Encouraged the building of local assets and sharing of resources within the community

Results - Sandy Lake First Nation

Context: Objibwe-Cree Community in Northwestern Ontario

Program: Sandy Lake Health and Diabetes Project (SLHDP)

Objectives: Community-based intervention targeting mental, physical, emotional and spiritual health through a school-based curriculum, diabetes radio show and Northern Store program



Key Findings:

- <u>School-based curriculum</u>: Activities such as taste testing and intergenerational learning increased dietary self-efficacy
- <u>Diabetes radio show</u>: Q&A sessions significantly increased community diabetes knowledge
- <u>Northern Store program</u>: The use of printed labels and taste tests increased selection of low-fat and sugar-free foods in the grocery store

Results - Zhiiwapenewin Akino'maagewin

Context: Seven First Nations communities in Northwestern Ontario

Program: Teaching to Prevent Diabetes

Objectives: Increase physical activity and improve the diets of community members through a school, store and community approach.



Key Findings:

- <u>School:</u> Adapted teachings from SLHDP study
- <u>Store:</u> Promoted healthier alternatives through artwork, flyers and cooking demonstrations
- <u>Community:</u> Mass promotion of health services through posters, local cable, and education workshops to learn about healthier behaviors
- Overall: Improvements in diet-related behaviors and T2DM management

Results - Diabetes and My Nation

Context: First Nations communities in British Columbia

Program: Creation of community-based E-health platform to access health information

regarding diabetes

Objectives: Offer culturally appropriate diabetes prevention and management programming and access to a Mobile and Virtual Diabetes Clinics

Key Findings:

- <u>Adults</u>: Viewed educational videos created by traditional healers and attended circle sessions for group discussion surrounding diabetes
- Youth and school-age children: Learned about diabetes through cultural activities
- <u>Overall</u>: Improved diabetes management as evidenced by lowered blood sugar and blood pressure levels among community members

Results - Garden Hill First Nation

Context: Ojibwe-Cree community located in Northeast Manitoba

Program: Peer-mentoring for diabetes prevention

Objectives: Offer an after-school peer-mentoring program to build strengths of youth in the community

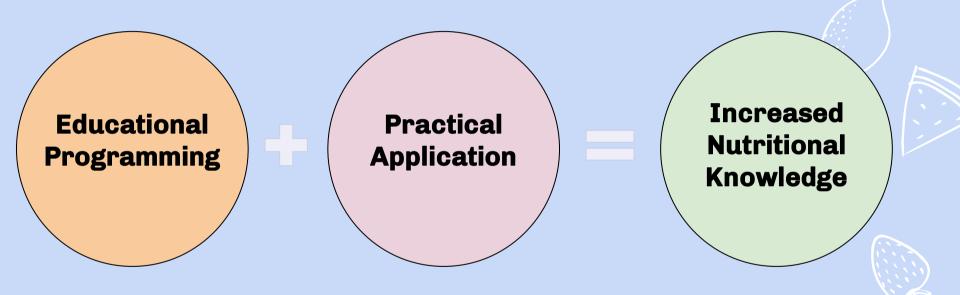


Key Findings:

- Reports of self-efficacy regarding healthy eating knowledge increased after peer-led sessions
- Decrease overall in children's waist circumference following the implementation of the initiative



Connection to Food Security

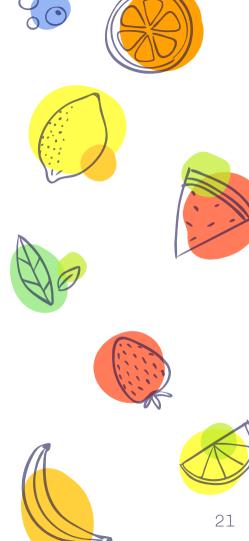


What roles do community stakeholders play?



Revisiting the research questions

- What community-based approaches have Canadian Indigenous peoples in remote settings implemented to effectively address the increasing incidence of diabetes in their setting since 1990?
- 1. Based on these cases, what common themes have made community-based approaches effective in addressing diabetes?



Adaptability Discussion Programs Self-Disease Ownership management efficacy Cultural Relevance