

In the Equation Workshop

Towards Indigenous-led Infectious Disease Modelling Research

February 18-19, 2025

Engage with communities to understand the
“who, what, why, and how” of modelling

WHO?

Who does this work
serve?

Who is leading the
research, and who is a
part of this project?

WHAT?

What are the implications
of this research?

What does it contribute to
community?

WHY?

Why modelling research?

Why does the model
benefit the community?

HOW?

How is the research
going to be conducted?

How will the modelling
research complement
Indigenous ways of
knowing?



National Collaborating Centre
for Infectious Diseases

Centre de collaboration nationale
des maladies infectieuses

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Ensure that research
is not transactional.

Learn about the
community's history,
culture, and ways of
knowing.

TIME



Uphold the principles
of Indigenous data
sovereignty.

Data has spirit!

Co-develop new
modelling methods.

Plan for an iterative
research process with
continued engagement.

Include the social
determinants of
health in models.

**Respectful partnerships
in modelling research**

Build capacity
within
communities.

Interrogate biases
and racism in data
and methods.

**Talk to Elders
and youth!**

Decolonize
research
systems

Build relationships
based on trust,
commitment, and
humility.



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Best practices for data sovereignty and governance in modelling research



- Ensure free, prior, and informed consent of data collection and use
- Understand community-specific principles of data sovereignty
- Co-develop formal data agreements
- Disaggregate data and incorporate the social determinants of health

- Spend time with Elders, youth, and community members to develop strengths-based, community-centered practices
- Decolonize existing hiring, funding, and knowledge mobilization practices in research
- Plan for sustainable community-based research and data management roles

Culturally safe interpretation, knowledge sharing, and capacity building



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