

Vaccine hesitancy and First Nations, Inuit, and Métis Populations

Potential implications during the COVID-19 Pandemic

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NCCIH & NCCID Webinar

January 12, 2021





...if the world becomes without us, we the absent deliverers of the gone, it will at the very least have peace, meaningless peace, animalful peace, smogless, noiseless, plasticless, thunderous peace.

Aftermaths – Tommy Orange

	Yes	No
I am member of an Advisory Board, consultant or equivalent with a commercial organization		<input checked="" type="checkbox"/>
I am member of a Speaker Bureau		<input checked="" type="checkbox"/>
I have received payment from a commercial organization (including gifts or other considerations or "in kind" compensation).		<input checked="" type="checkbox"/>
I have received a grant(s) or an honorarium from a commercial organization		<input checked="" type="checkbox"/>
I hold a patent for a product referred to in the CME/CPD program or that is marketed by a commercial organization		<input checked="" type="checkbox"/>
I hold investment (stock/bonds excluding Mutual Funds) in a pharmaceutical organization, medication devices company or communications firm		<input checked="" type="checkbox"/>
I am currently participating in or have participated in a clinical trial		<input checked="" type="checkbox"/>

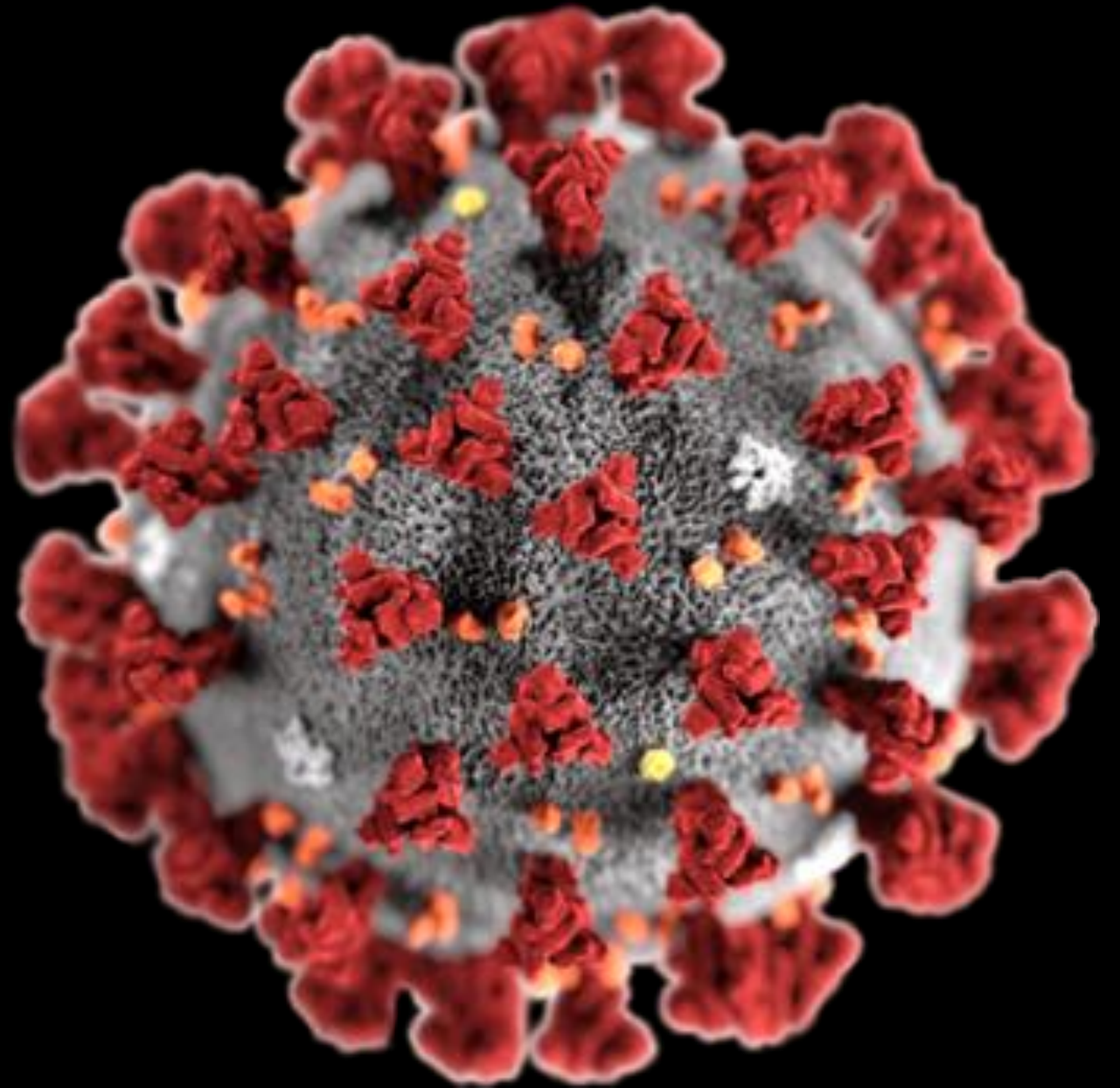
Outline

- COVID-19: The Trickster
- Truth & Reconciliation
- Role of vaccine
- Choosing vaccination
- COVID-19 mRNA vaccines
- Vaccine safety
- Addressing vaccine hesitancy

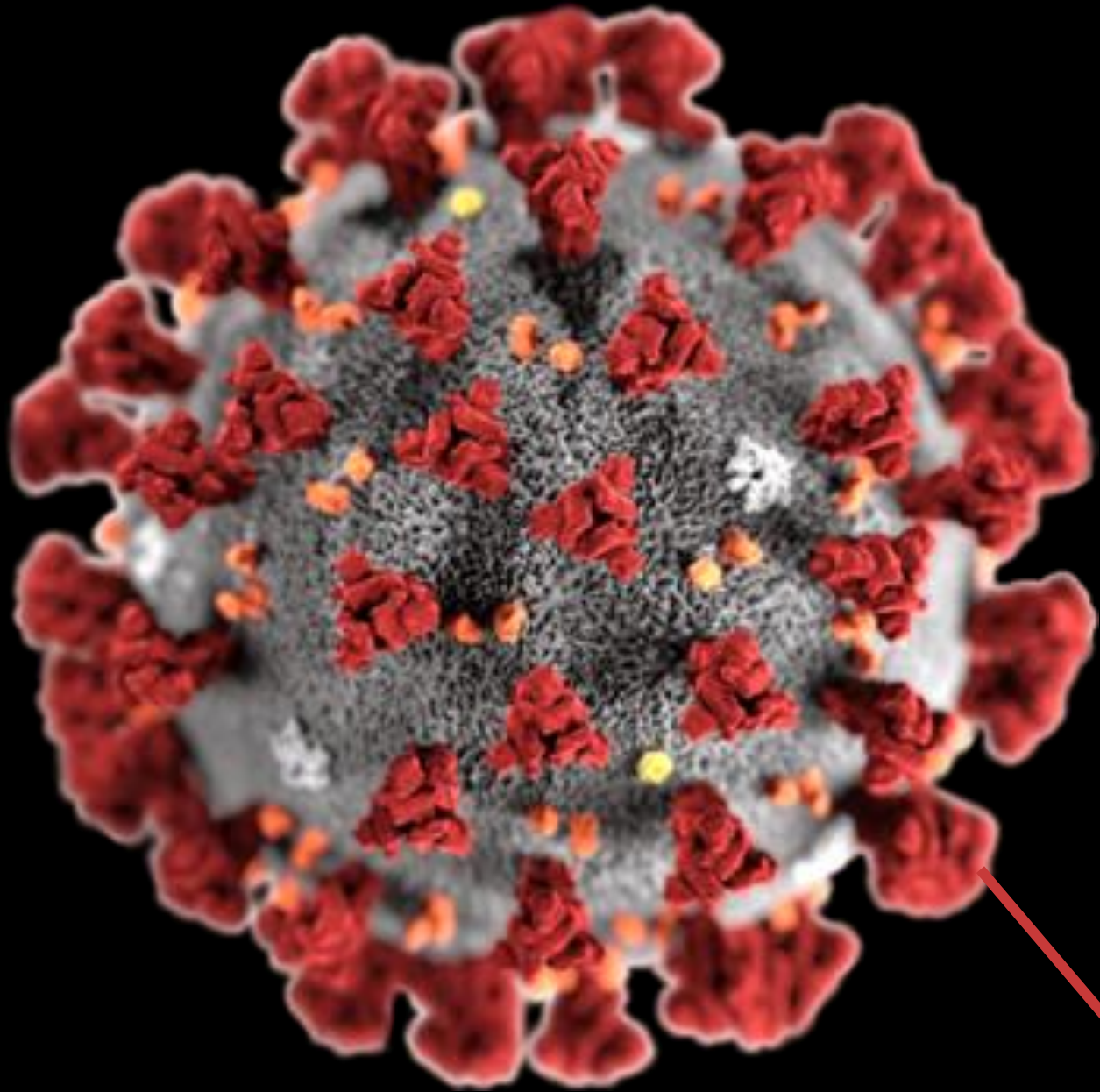
Respect the virus

“It is said, do not fear the virus, respect it. Respect is one of the cornerstones of our values. When we respect something, we lose fear of it and attitude and behavior changes. Like learning to swim, you must respect both the beauty and the danger of water. Same with the virus, we need to obey the precautions and safety practices, because fearing it may result in behavior that is dangerous.”

- Algonquin/Haudensaune Elder,
Simon Brascoupe



COVID-19: A trickster



Just bad enough in every way. Severe enough to kill millions. Mild enough to move undetected through a population. Spreads quickly to overload hospitals. But slowly enough that statistics don't spike until too late...

-Ed Yong, How the pandemic defeated America

Spike Protein

...the three Cs
...of different levels of risk in different settings.

The Trickster

CDC COVID-19

3 C's

There are certain places where COVID-19 spreads more easily:



1
Crowded places

with many people nearby



2
Close-contact settings

Especially where people have close-range conversations



3
Confined and enclosed spaces

with poor ventilation



The risk is higher in places where these factors overlap.

Even as restrictions are lifted, consider where you are going and #StaySafe by avoiding the Three Cs.

WHAT SHOULD YOU DO?

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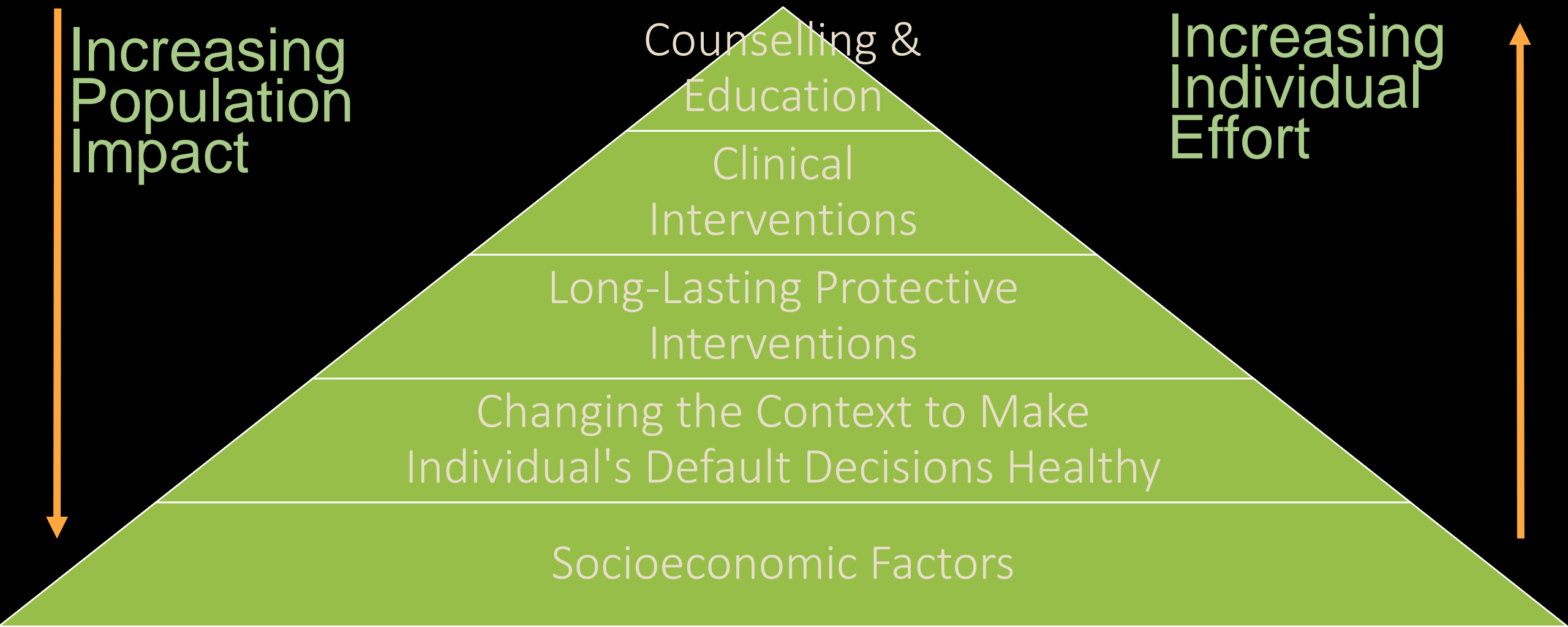
COVID Wise Together
OttawaPublicHealth.ca/COVIDWiseTogether

COVID avisés ensemble
SantePubliqueOttawa.ca/COVIDAviserEnsemble

Impact of COVID-19 in Indigenous Communities

Respect COVID-19: Health Impact Pyramid



Increasing
Population
Impact

Counselling &
Education

Clinical
Interventions

Long-Lasting Protective
Interventions

Changing the Context to Make
Individual's Default Decisions Healthy

Socioeconomic Factors

Increasing
Individual
Effort

The background is a dark, atmospheric landscape painting. It depicts a path or road winding through a dense forest. The foreground is dominated by dark, shadowed ground with patches of lighter, yellowish-brown earth or grass. The trees are mostly dark, with some highlights on their leaves and branches. In the distance, a bright, hazy light breaks through the trees, suggesting a sunrise or sunset over a body of water or a distant horizon. The overall mood is somber and contemplative.

Truth and Reconciliation

Joyce Echaquan

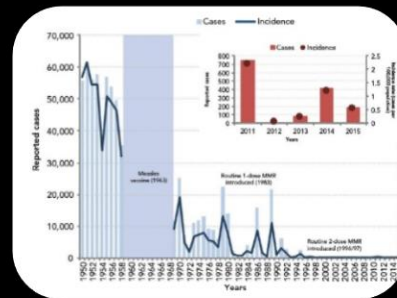


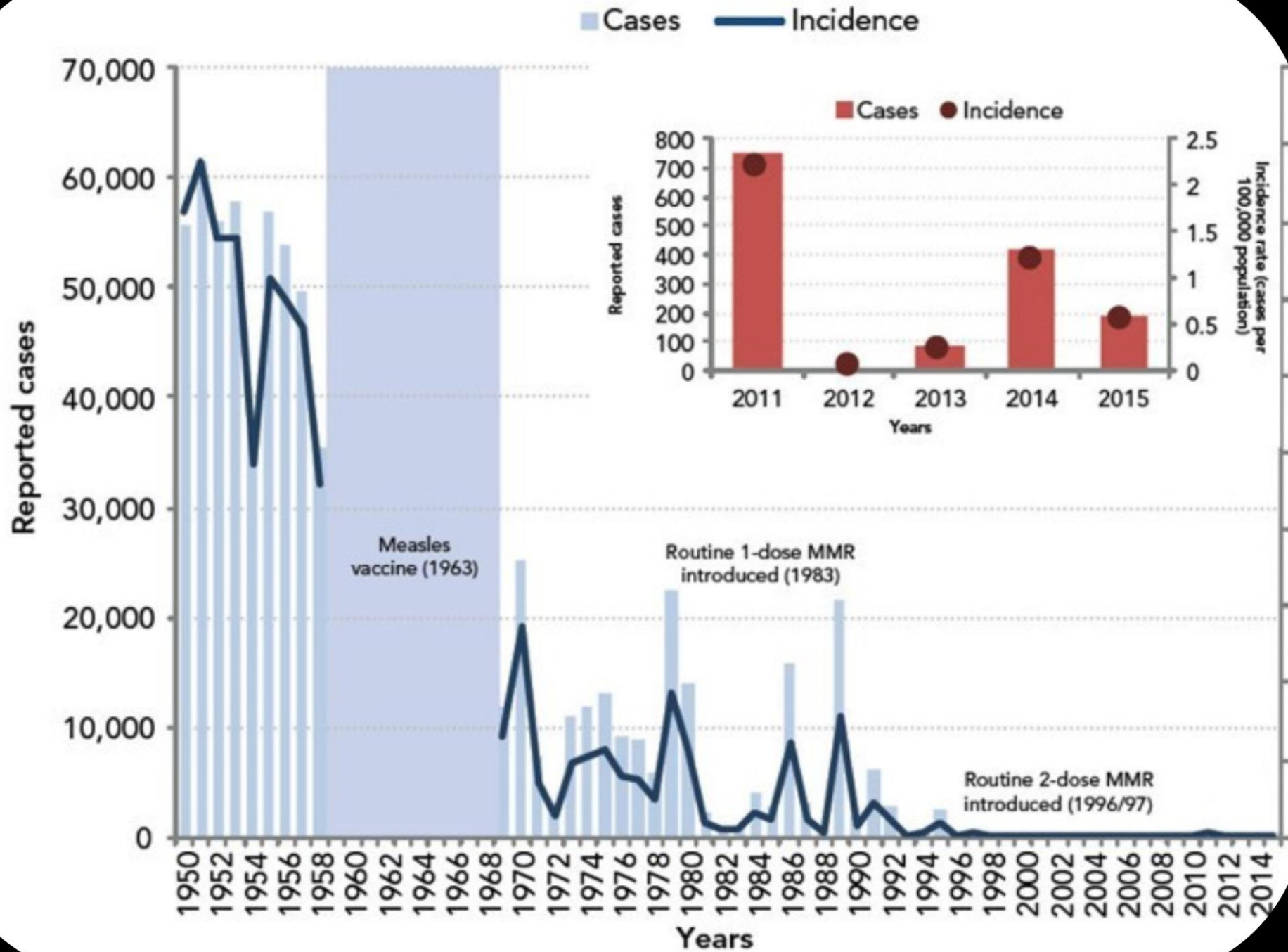


Aftermaths – Tommy Orange

**Our eyes have never not been wet,
but not like this**

Vaccination: A great achievement







Vaccine Hesitancy

Reluctance or
refusal to vaccinate
despite the
availability of
vaccines

Parents

Love

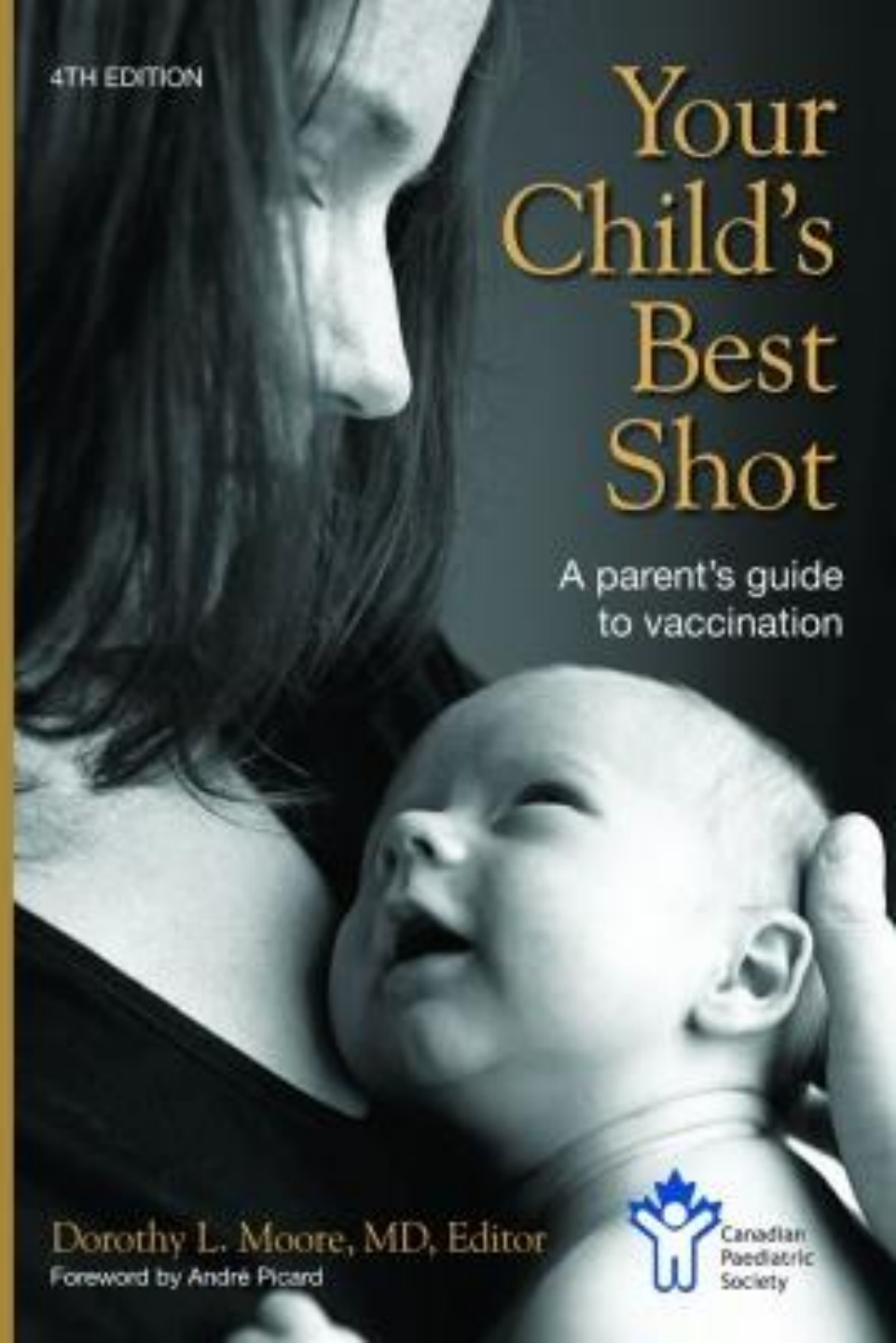


Canadian Paediatric Society: Working with vaccine- hesitant parents

Approaches to vaccine
hesitancy

Discuss the risk

Community protection



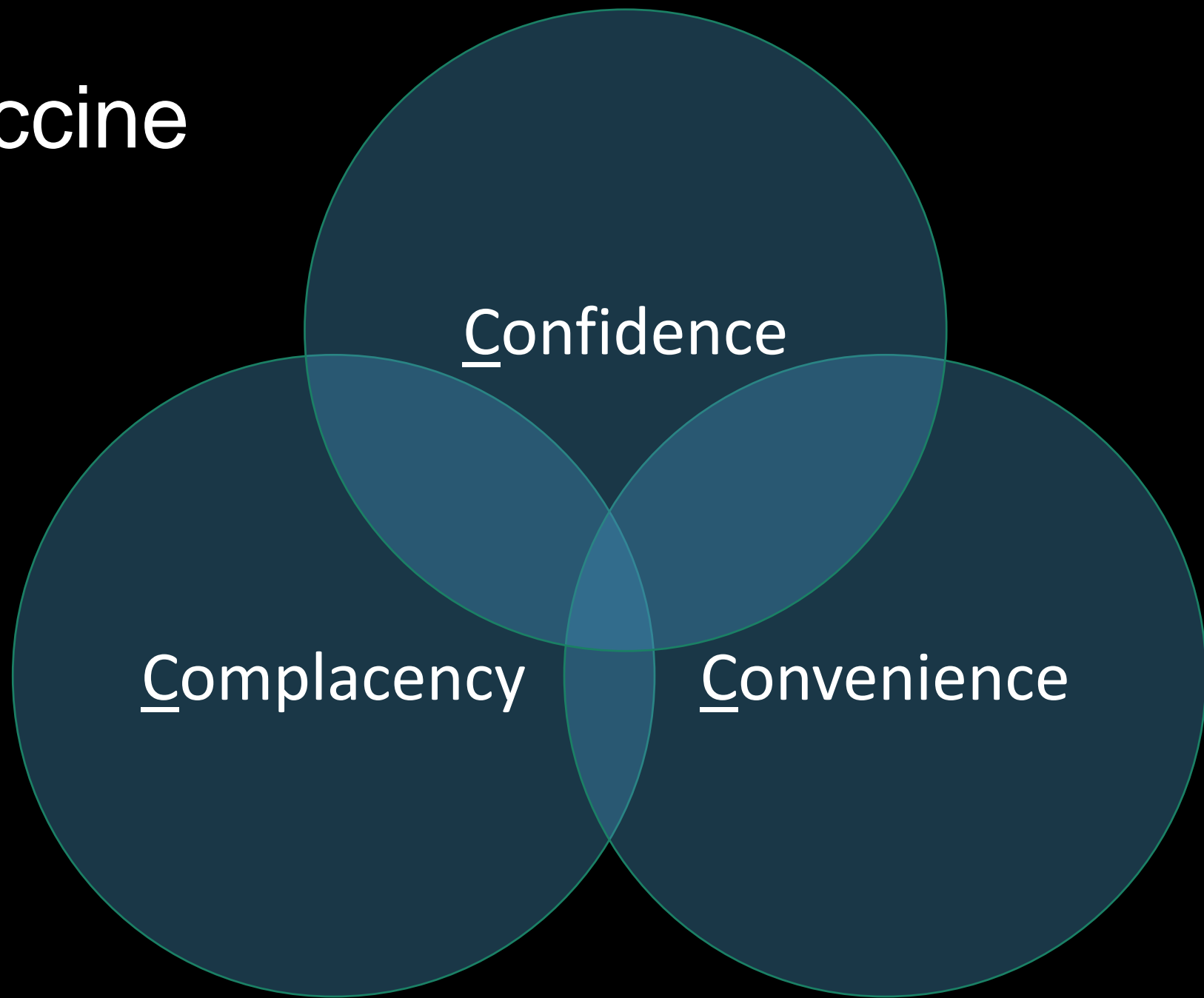
Barriers to HPV Vaccination in Global Indigenous Peoples

Mrklas et al., 2020

1. Beliefs
2. Knowledge
3. Emotive Reactive
4. Access
5. Systems & Processes
6. Intersectionality
7. Social influences

Promotion of vaccine

Default choice



Convenience

Remove
barriers to
access



CBC, Inuit Elder first recipient of Moderna

Complacency

**Address actual
dangers of COVID-19**

**Individuals &
Communities**



The Legacy of Nutritional Experiments in Residential Schools

CONTINUING THE DIALOGUE

TRUTH AND RECONCILIATION

Confidence

Medical concerns First Nations have around medical treatments are legitimate...we have sort of escaped federally sanctioned experiments that were done on our population.

-Grand Chief Arlen Dumas, Assembly of Manitoba Chiefs

Confidence

Address fears

Our own experts
are ensuring due
diligence, the
proper science is
done

Manitoba's First Nations pandemic response team works to dispel myths regarding COVID-19 vaccine



AMC Grand Chief says vaccine science was 'not something that was done on the back of a napkin'

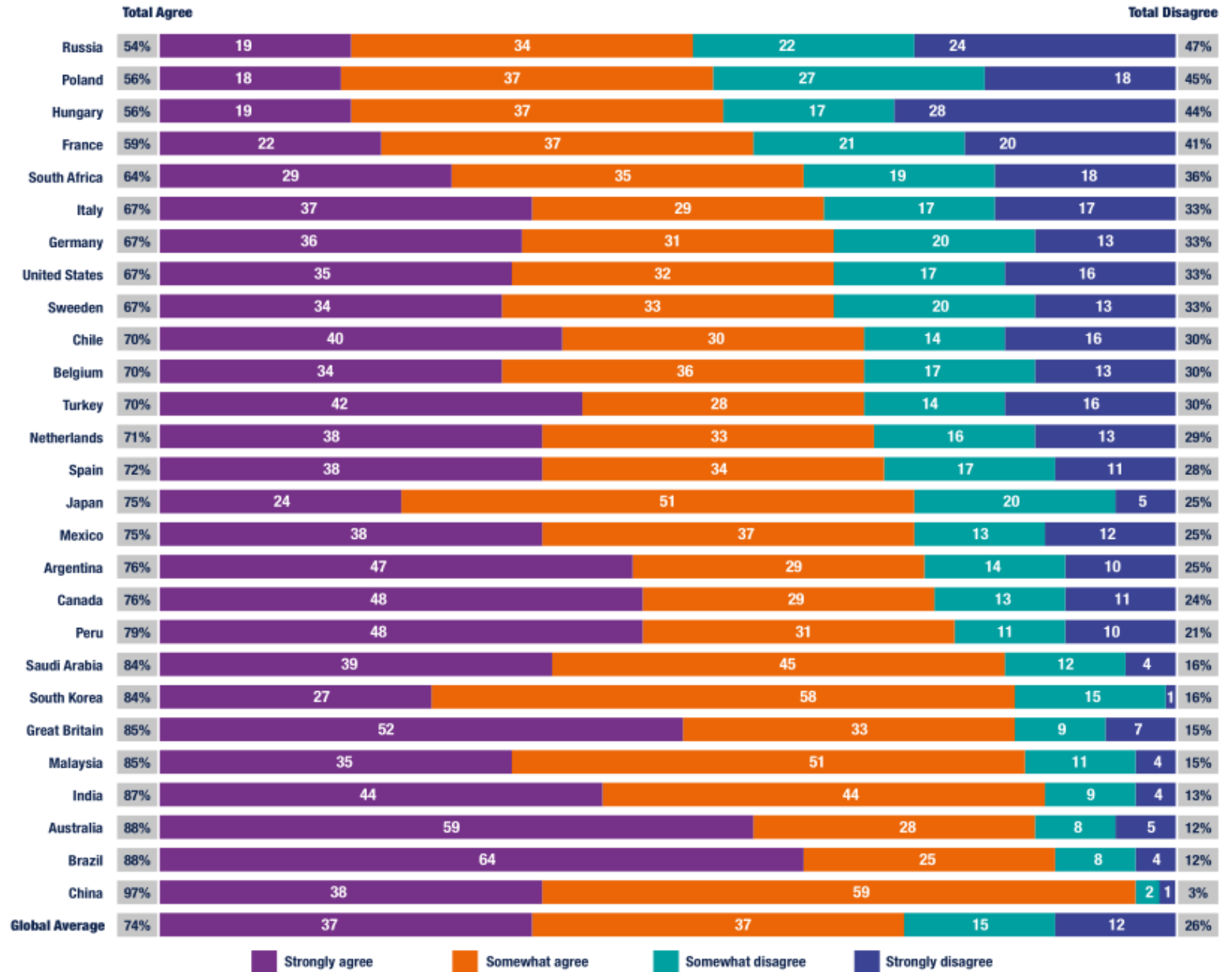


Lenard Monkman - CBC News

Posted: January 10, 2021



IPSOS Poll August 2020



IPSOS Poll August 2020

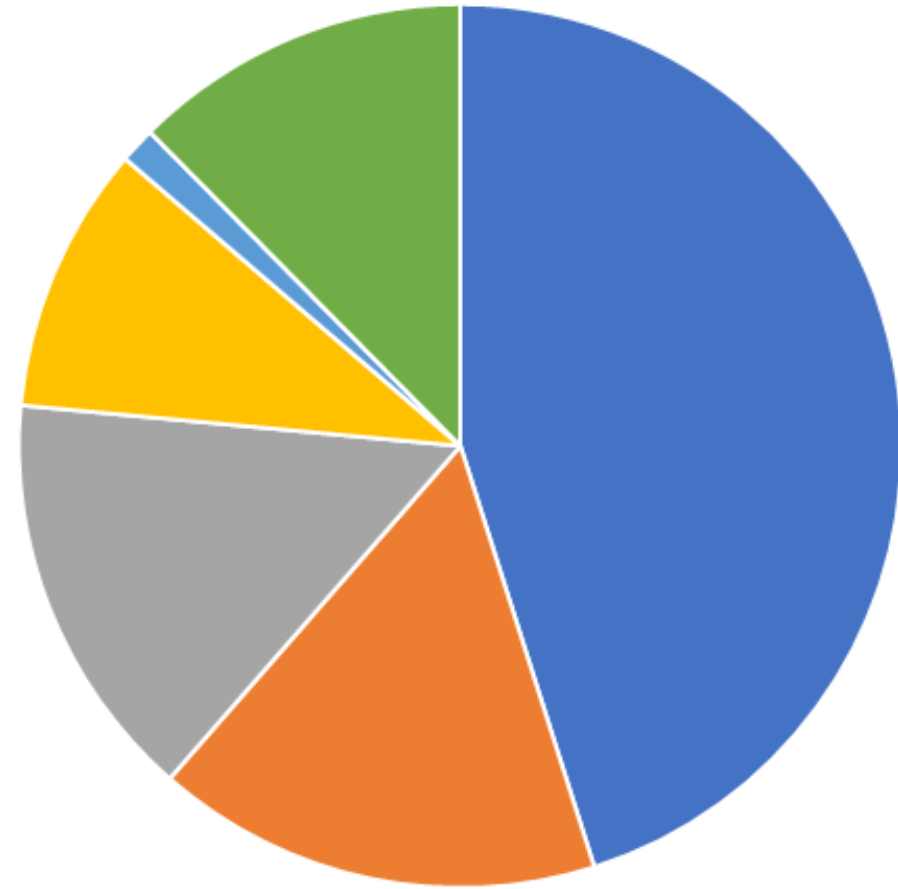


IPSOS Poll August
2020

Asked if they would take a
COVID-19 vaccine if it were
available

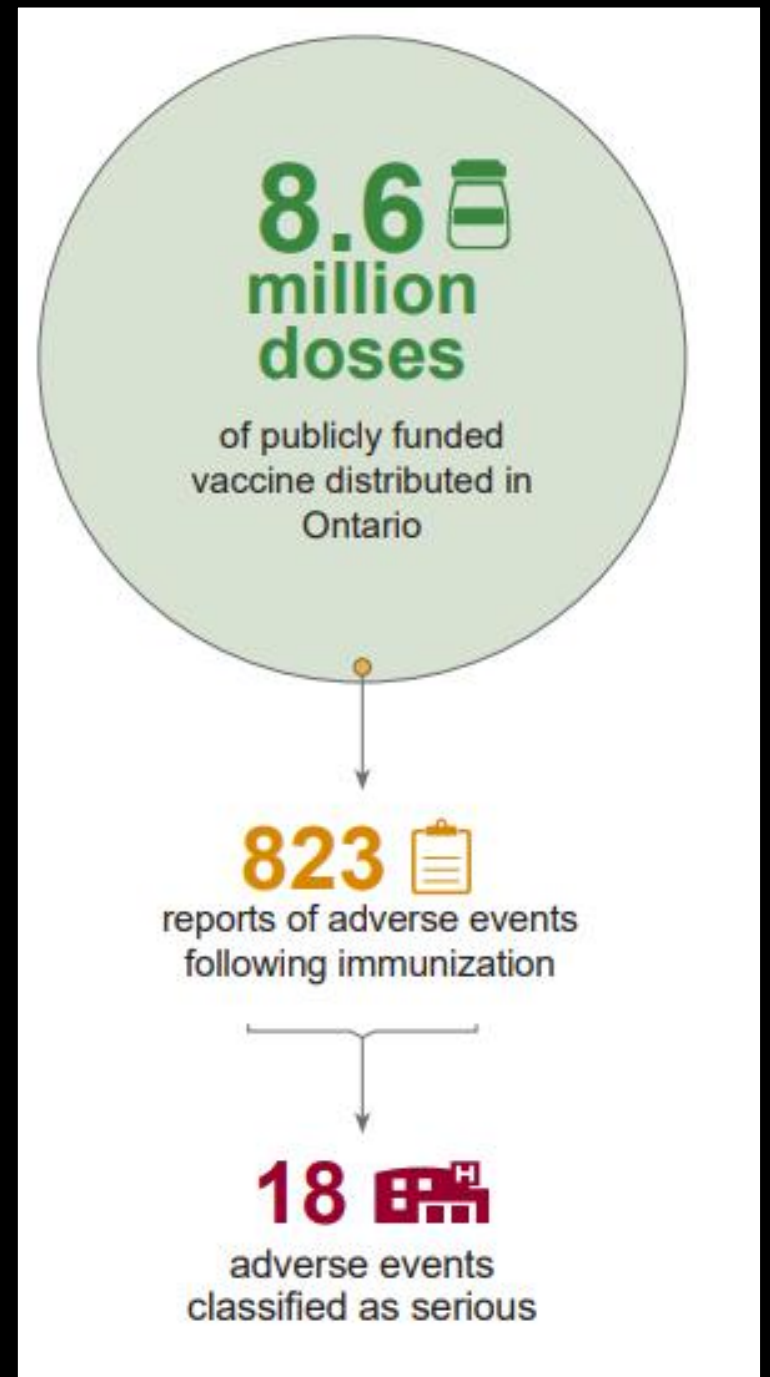
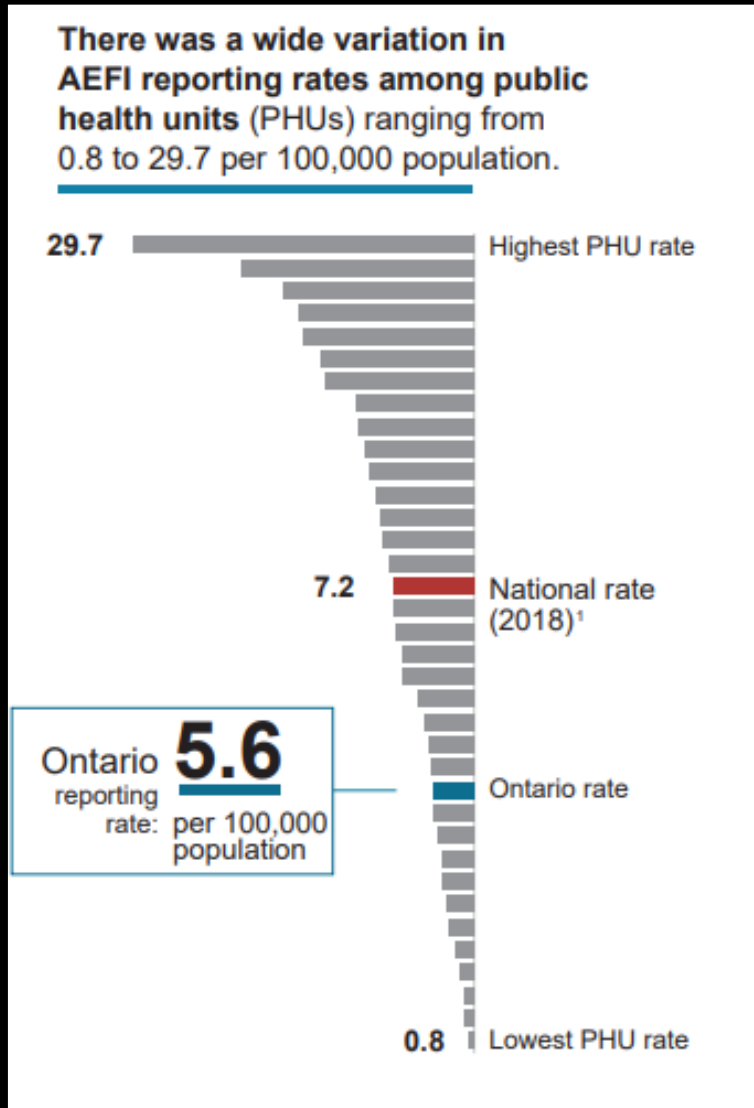
24% disagreed

Why not take COVID-19 vaccine?

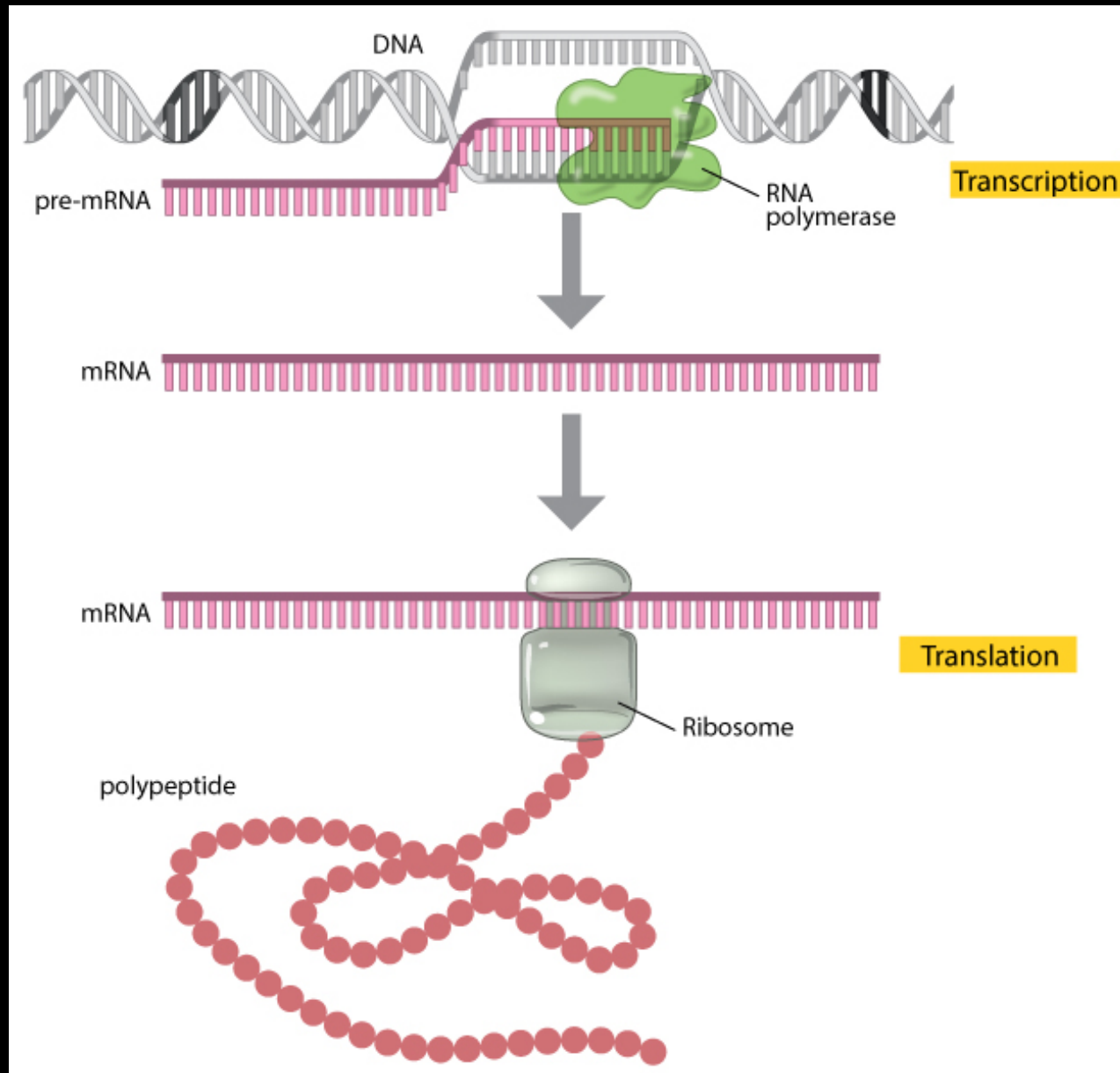


- I am worried about the side effects
- I don't think it will be effective
- I'm not enough at risk from COVID-19
- I am against vaccines in general
- I don't have the time
- Other

Vaccines are safe



Vaccine Platforms



Analogy

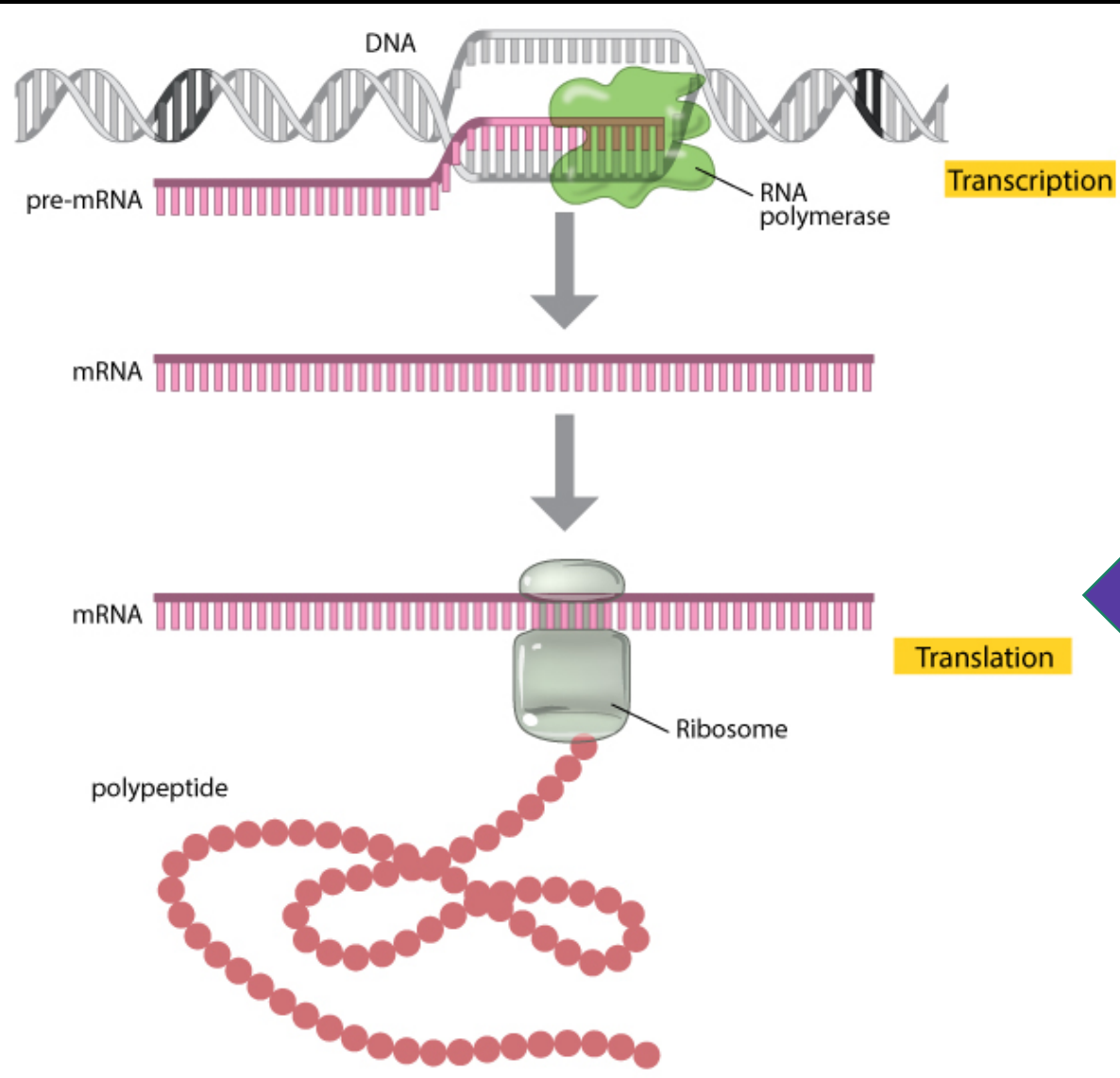
DNA:
Cookbook

mRNA: Picture
of the recipe

**Spike protein
antigen:** Meal
the recipe is
turned into



mRNA vaccines



Pfizer/BioNTech

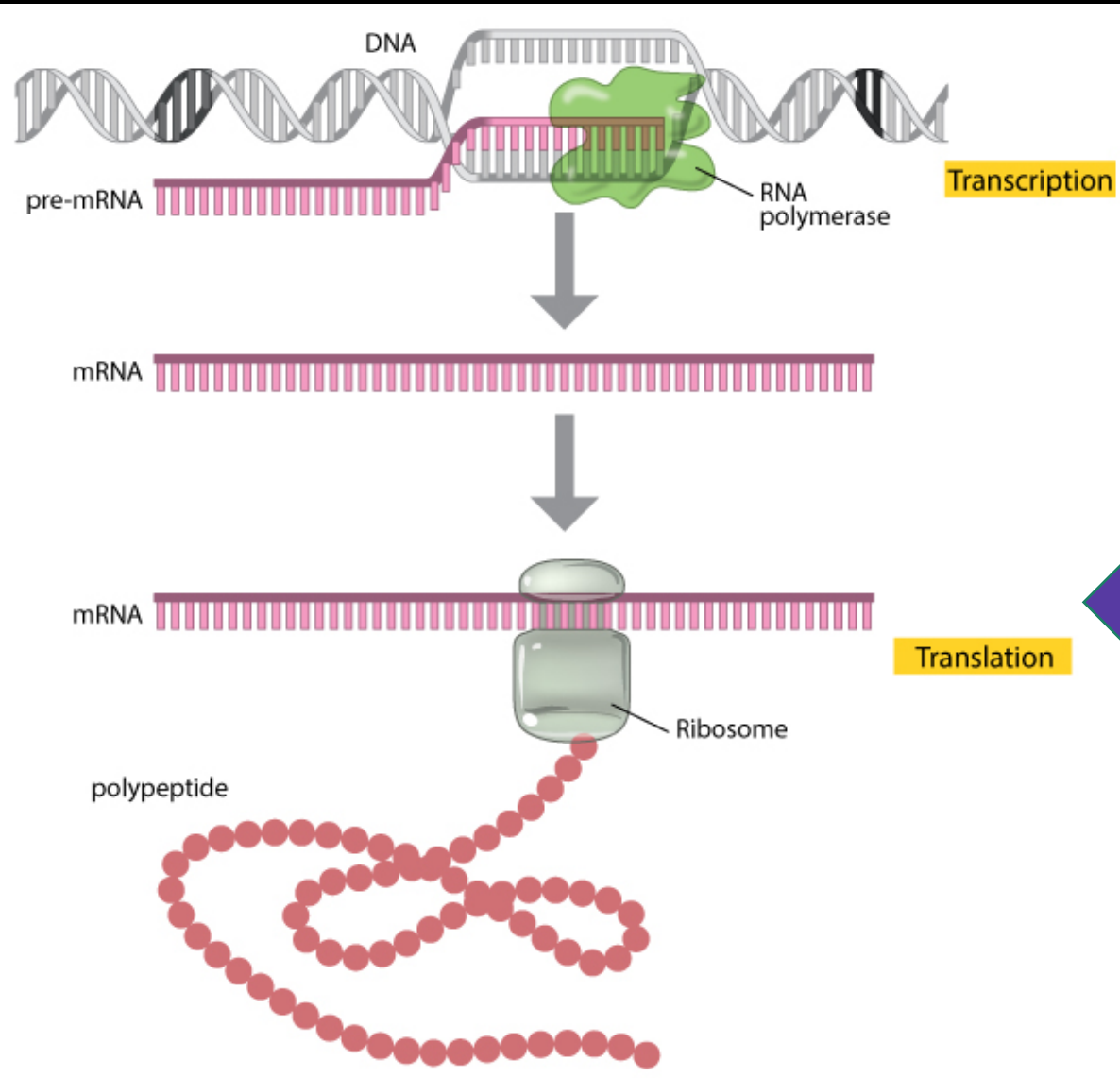
43,448 participants

Vaccine : 8
Placebo: 162

95% efficacy



mRNA vaccines



Moderna

30,420 participants

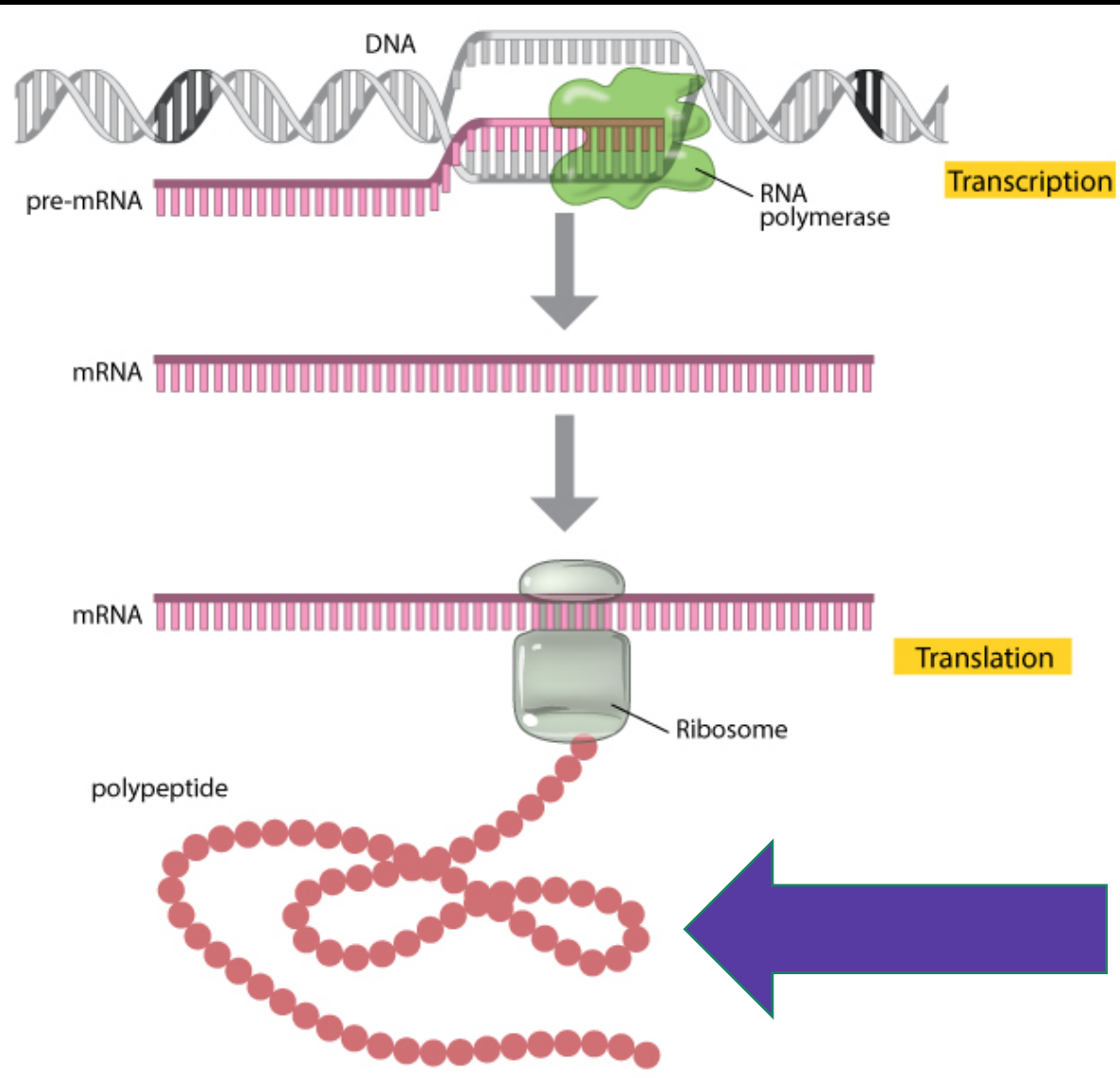
Vaccine: 11

Placebo: 185

94.1% efficacy



Protein Subunit Vaccines



COVID-19: Novavax Sanofi

Akin to:

- Acellular pertussis
- Hepatitis B
- Recombinant influenza

Anaphylaxis

21 cases of anaphylaxis after 1 893 360 doses

11.1 cases per million doses

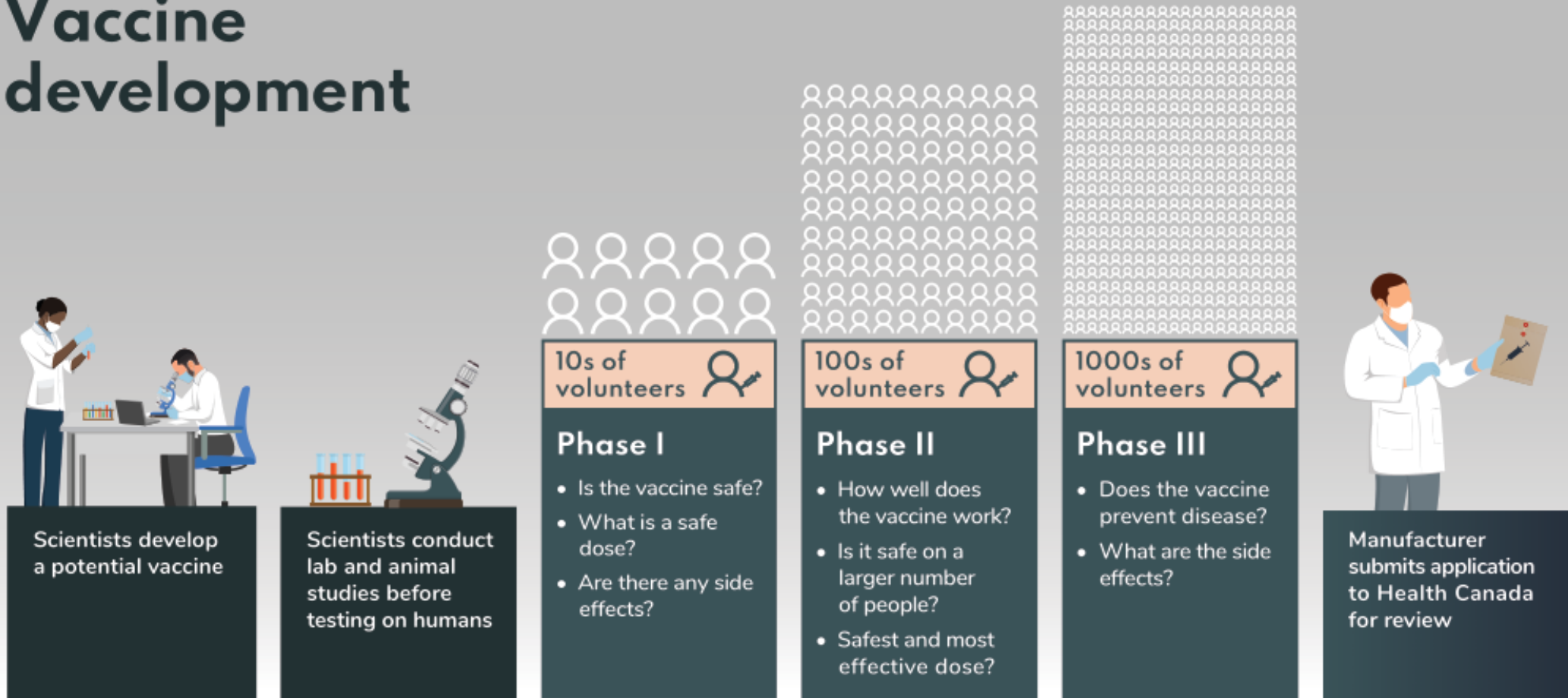
17 in persons with history of allergies, 7 with history of anaphylaxis.

Approval process



Vaccine development and approval in Canada

Vaccine development



Exploratory →

Preclinical →

..... Clinical Trials →

..... Application →

Review and approval of vaccines



Teams of Health Canada experts conduct a thorough and independent review of all vaccine data *



Health Canada approves a vaccine if it is safe, it works, it meets manufacturing standards, and the benefits outweigh the risks



Governments coordinate the purchase, logistics and distribution of vaccines across Canada



All Canadians have access to the vaccine



Continuous monitoring and review to confirm the safety of the vaccine, and that benefits outweigh risks

Scientific Review

Approval

Distribution

Vaccination

Ongoing Monitoring and Review

* For **COVID-19 vaccines**, Health Canada is using a fast-tracked process that allows manufacturers to submit data as it becomes available, and for Health Canada experts to start the review process right away. **Vaccines will only be authorized once we have all necessary evidence.**

“Vaccine will help us get out of this”

-Dr. Nel Wieman,
President Indigenous
Physicians Association of
Canada



Socially embedded perspective

Worldview
Social
Cultural
Political

Aftermaths – Tommy Orange

**We will bury the truth
of our decadence with
the truth of our
negligence**

Vaccine Hesitancy in
Indigenous
Communities
Community-
centred

Culturally-safe

Trauma-
informed

Humble

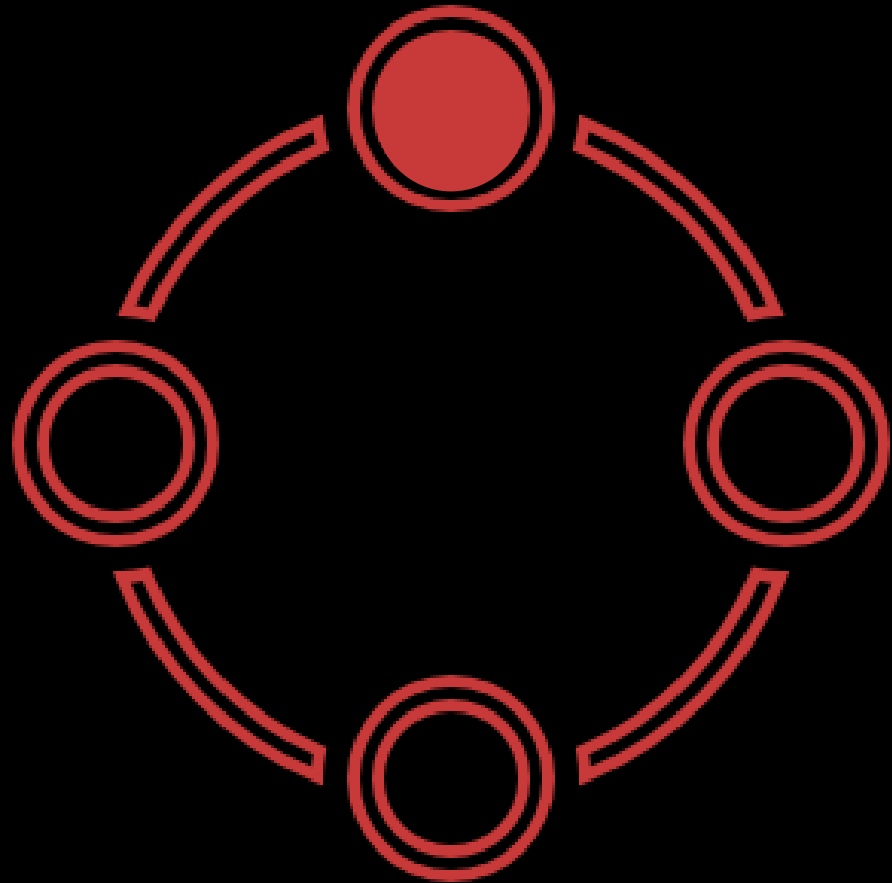


Cultural safety guidance for clinicians

1. Be alert about past traumatic experiences
2. Advocate for cultural-safety
3. Build relationships that create trust
4. Make it clear that information is owned by the patient
5. Access to resources

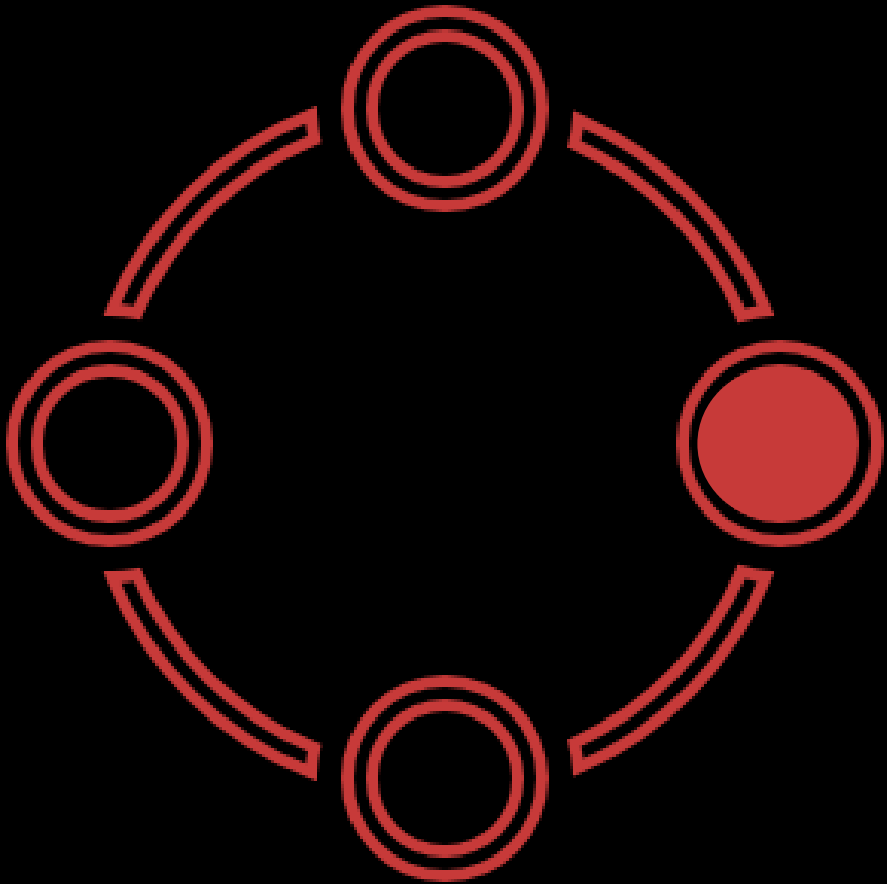


Key Dimensions of Equity-Oriented Services



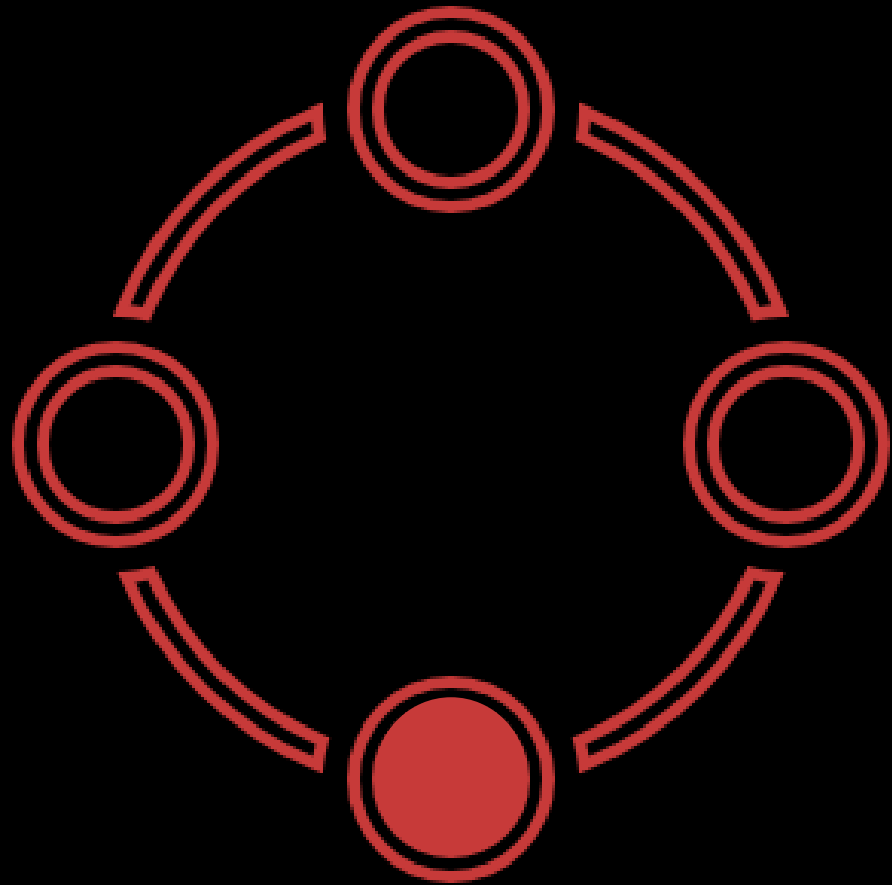
Partnerships
with Indigenous
Peoples

Key Dimensions of Equity-Oriented Services



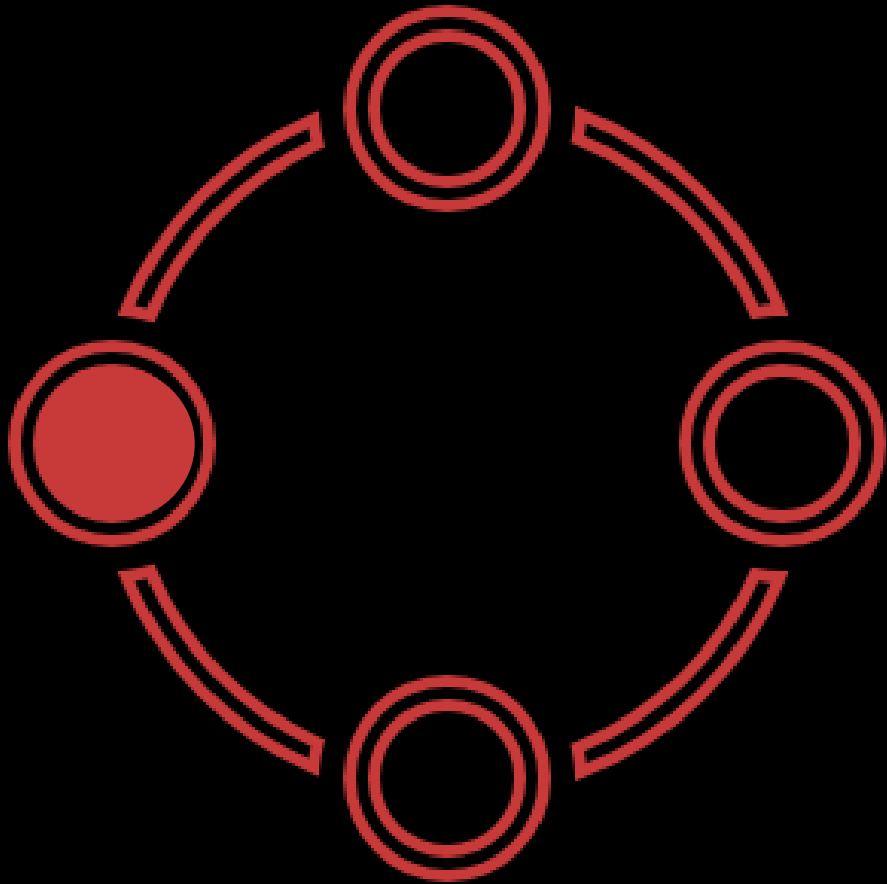
Actions at all
levels

Key Dimensions of Equity-Oriented Services



Attention to
local and global
histories

Key Dimensions of Equity-Oriented Services



Attention to
unintended and
potentially
harmful impacts

Key Dimensions of Equity-Oriented Services

Ten Strategies

1. Commit to health equity
2. Develop supportive structures
3. Optimize use of place and space
4. Re-vision use of time
5. Power differentials

Key Dimensions of Equity-Oriented Services

6. Local Indigenous contexts

7. Actively counter racism and discrimination

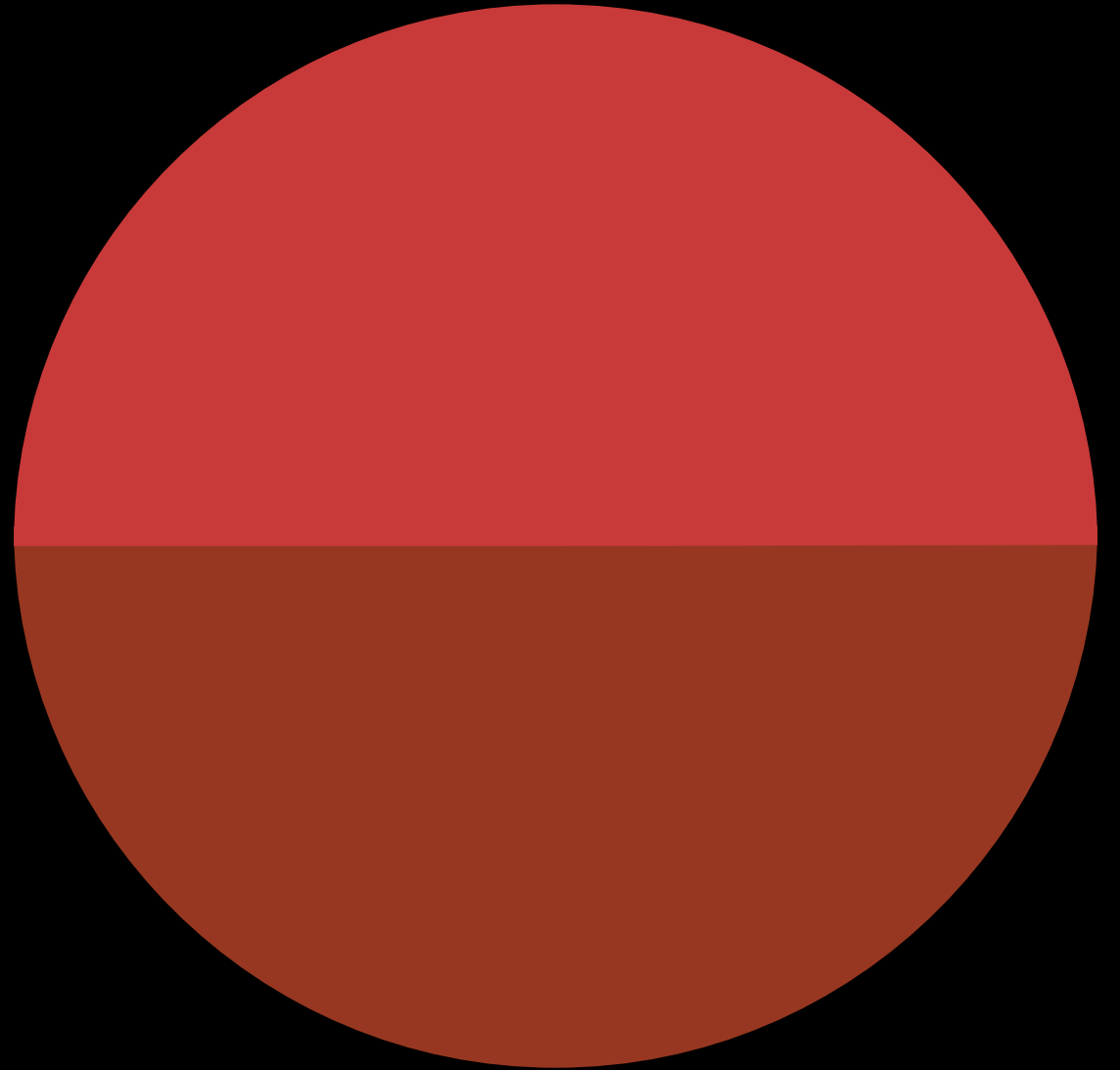
8. Meaningful engagement

9. Inter-related forms of violence

10. Social determinants of health

Conclusions

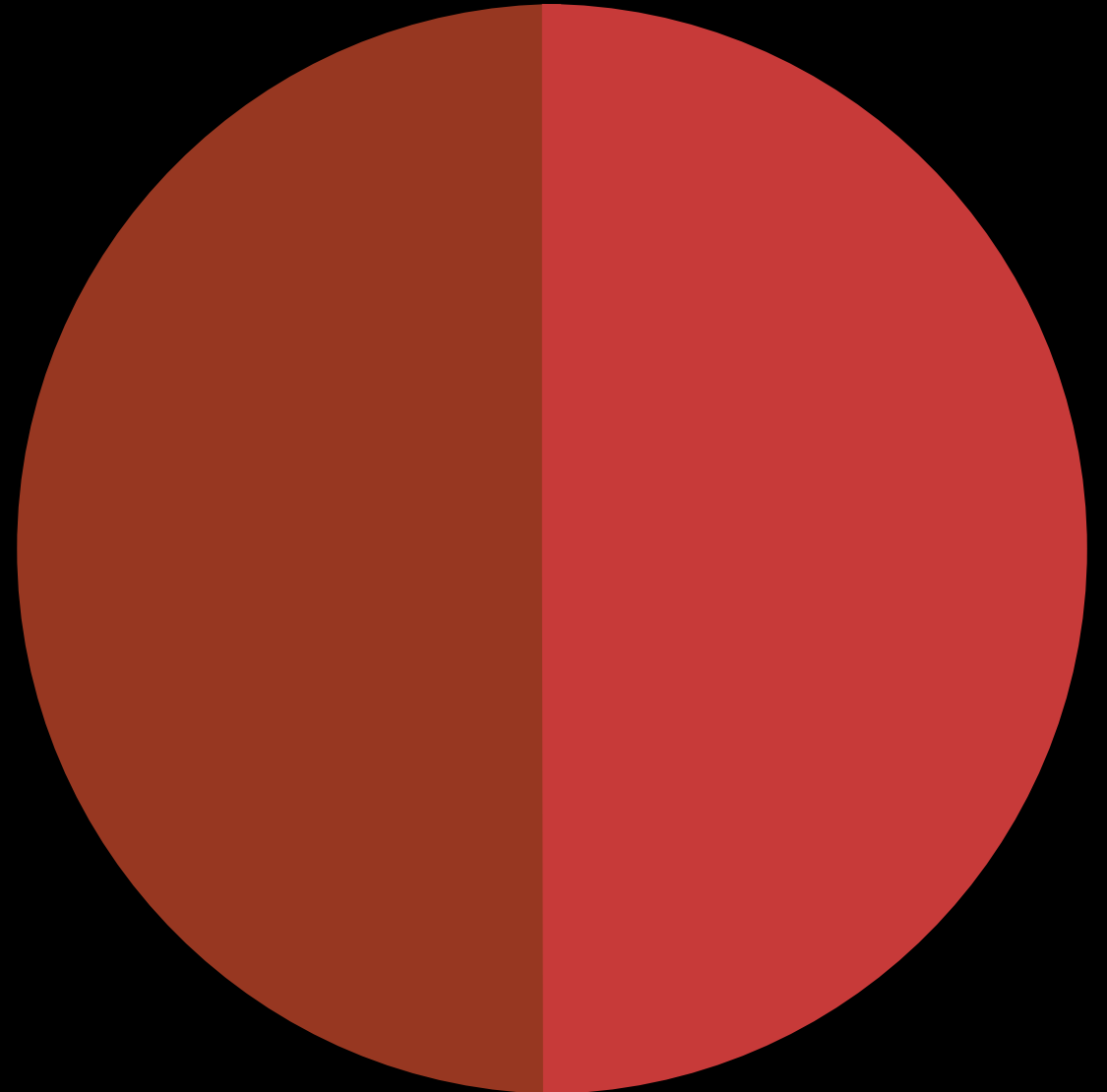
Community
/individual-
centered
approach



Conclusions

Individual

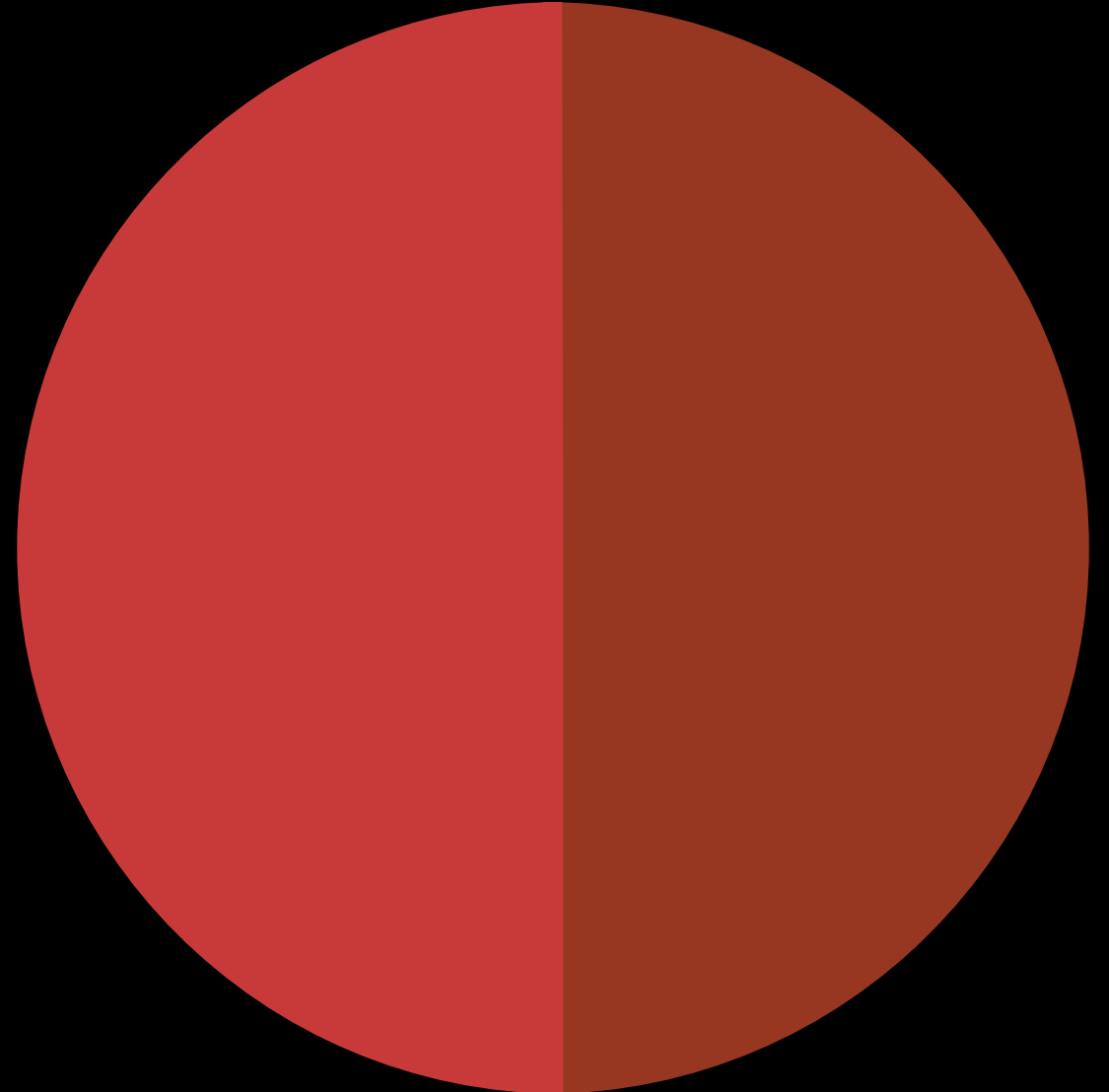
- Culturally safe and antiracist practice
- Trustworthy
- Share knowledge with humility
- Genuine curiosity about different worldviews

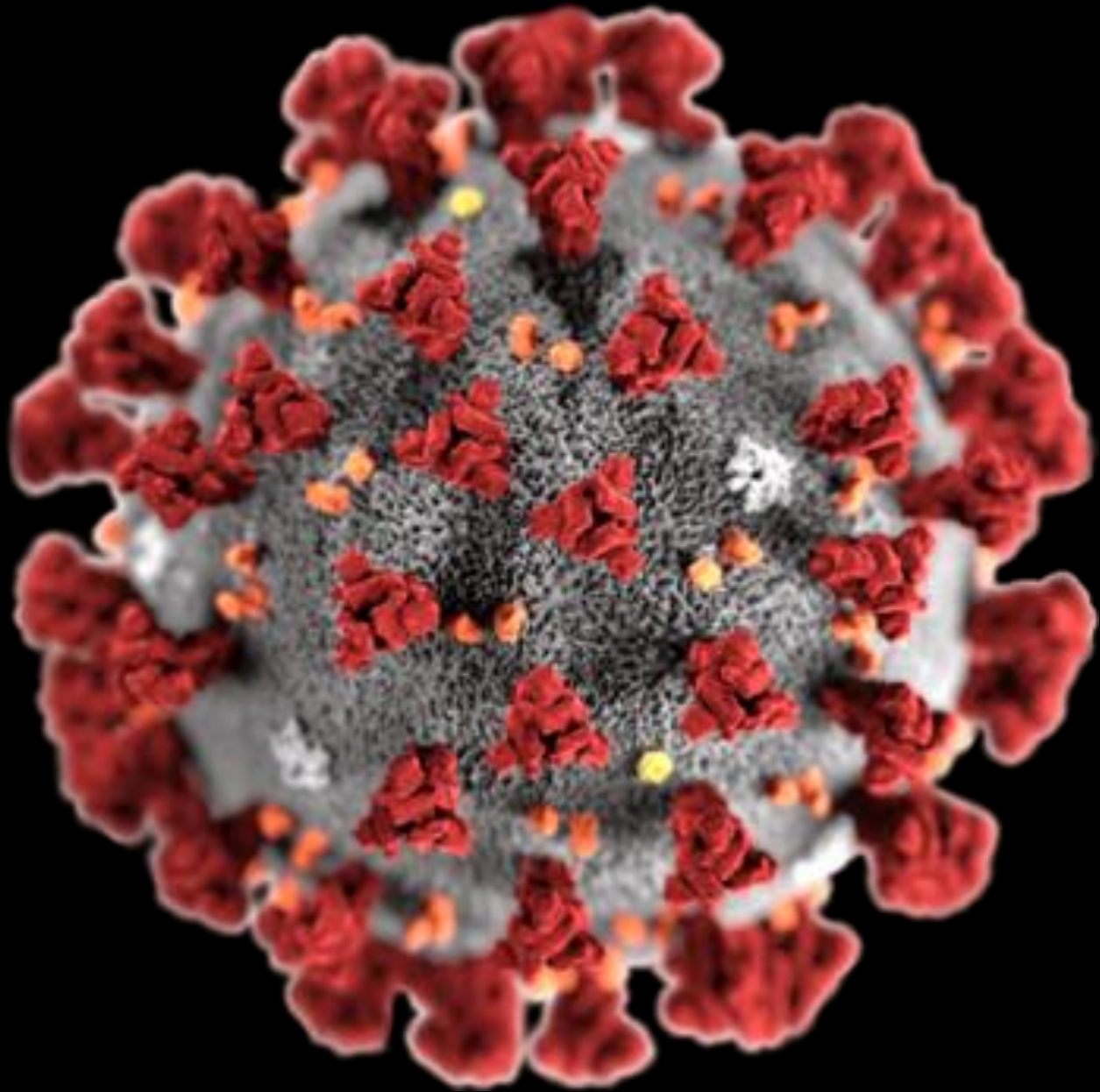


Conclusions

Population

- Support First Nations, Inuit, and Métis leaders to build trustworthy, anti-racist systems
- Trust is earned
- Root causes of mistrust
- Work towards the larger vision of reconciliation





COVID-19: A trickster

What is the
moral of the
story?

Aftermaths – Tommy Orange

**How will we will our lives
into something more?**