# Indigenous Health Data and the Path to Healing

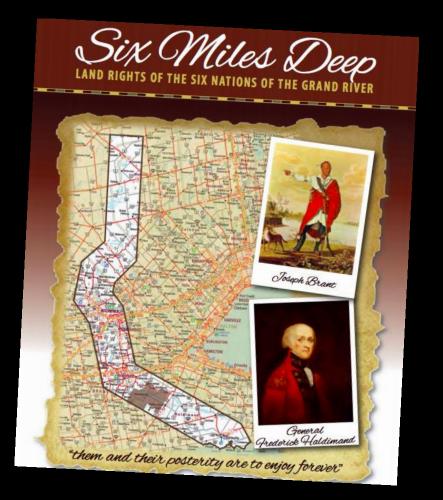
International Population Data Linkage Network 2018
Banff, Alberta
September 12, 2018

### Jennifer Walker, PhD

Haudenosaunee – Six Nations of the Grand River
Canada Research Chair in Indigenous Health, Laurentian University
Scientist and Indigenous Lead, ICES







### Two Row Treaty of 1613

"Together we will travel in Friendship and in Peace Forever; as long as the grass is green, as long as the water runs downhill, as long as the sun rises in the East and sets in the West, and as long as our Mother Earth will last."



Article 3 – right to **self determination** 

Article 4 – right to **autonomy** and **self-government** 

Article 5 – right to maintain and strengthen **distinct** political, legal, economic, social and cultural **institutions** 

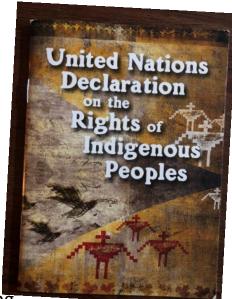
Article 15 (i) – right to dignity and **diversity** of cultures traditions, histories and aspirations which shall be appropriately reflected in education and **public information** 

Article 18 – right to participate in decision-making in matters that would affect rights...and to develop indigenous **decision-making institutions** 

Article 19 – States shall...obtain **free**, **prior** and **informed consent** before adopting and implementing legislative or administrative measures that may affect them Article 23 – right to determine and develop **priorities** and **strategies**...and to administer **programs** through their own institutions if possible

Article 31 – right to maintain, control, protect and develop **intellectual property** 

Article 33 – right to **determine their own identity or membership**. Right to determine structures and select membership of their institutions



2007



### Indigenous data:

- Data about our resources and environments
- Data about us as individuals
- Data about us as Nations

### Genetic researcher uses Nuu-chah-nulth blood for unapproved studies in Genetic Anthropology













Published on September 21, 2000



For the hundreds of Nuu-chah-nulth people suffering the debilitating effects of arthritis, Dr. Richard Ward's groundbreaking study in the early 1980s was like a beacon of hope. But in the following years of no communication between medical researchers and their Nuu-chah-nulth subjects, that light has dimmed, flickered out, and has almost been forgotten.

Yet, after 15 years of waiting, many Nuu-chah-nulth people are now discovering that the blood they volunteered to help find a cure for rheumatic diseases has traveled the world, and has been used in a variety of genetic anthropology studies; outside the boundaries

of the consent forms they signed.

Published on October 5, 2000



After months of trying to contact Dr. Richard Ward, the Oxford professor has finally responded, saying he is willing to do whatever Nuu-chah-nulth want done with their blood.

**Question:** You've seen the story in *Ha-Shilth-Sa* on the blood samples you took in the 1980's. What is your response to that story?

Answer: "It's always been my policy that any individual who participates in a study, who wants to withdraw from the study and have material destroyed, or who wants to have their samples placed in a repository, that those requests are always honoured. That's actually written

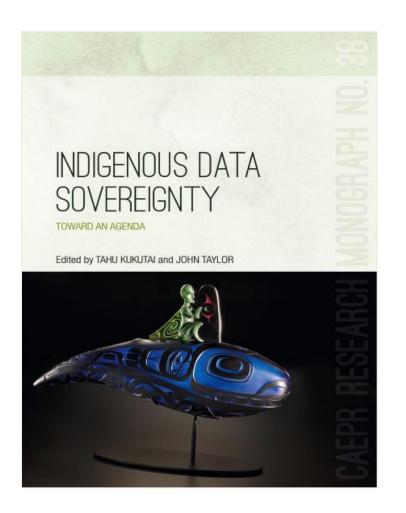
in the original consent form."

Question: But how could people do this when they had no idea where you, or their blood samples were?

**Answer:** "That's my fault and I accept the responsibility for that. It was not intended to be a bad thing, but that's one of the things I want to apologize for. I still accept the responsibility for not letting people know that [other studies] could be happening."

Question: So what do you see happening now?

**Answer:** "As I see it we can do one of three things: we can destroy the data so it's as if they never participated, and if we have any biological material we would destroy those too. If they want biological



### THE LANCET



The health disadvantages of Indigenous peoples around the world have their roots in colonisation and discrimination and are related to a loss of autonomy over lands and culture. This history has profoundly affected social determinants of health, such as poverty and marginalisation, and contributed to higher rates of communicable and non-communicable diseases in Indigenous people, and life expectancies that are typically 5 years or more lower than in non-Indigenous populations.<sup>1,2</sup> Despite persistent health inequities, Indigenous peoples are determining the path to healing their communities.

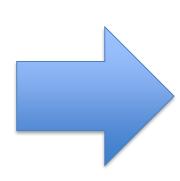
# TWO CONDITIONS for Data Sovereignty

Decolonization of Data

Indigenous
Data
Governance

### 5Ds of Colonizing Indigenous Data

- Disparity
- Depravation
- Disadvantage
- Dysfunction
- Difference



- Classifies us as "problematic"
- Data used to rationalize dispossession & marginalization, and to perpetuate narratives of dependency



©2014 Christi Belcourt, *The Wisdom of the Universe* 

## THE INTERDEPENDENCE OF NATION REBUILDING AND DATA REBUILDING



Rodriguez-Lonebear, D. and Rainie, S., (2017), JIT Law 631N, Tucson, AZ: Native Nations Institute, Udall Center for Studies in Public Policy, University of Arizona. Informed by Smith, D., (2016), Governing data and data for governance: the everyday practice of Indigenous sovereignty, in T. Kukutai & J. Taylor (Eds.), Indigenous data sovereignty: Toward an agenda (pp. 253-272), Canberra, Australia: Australian National University Press.

First Nations Information
Governance Centre in
Canada
2010

Te Mana Raraunga – Māori Data Sovereignty Network 2015

US Indigenous Data Sovereignty Network 2016

Maiam mayri Wingara
Indigenous Data
Sovereignty Collective in
Australia
2018

International Indigenous
Data Sovereignty Interest
Group at Research Data
Alliance
2017

## DRAFT INDIGENOUS DATA GOVERNANCE PRINCIPLES

- 1. Inherent sovereignty: Indigenous peoples have the right to self-determination; with respect to data, this has implications for ownership, control, and access.
- 2. Indigenous knowledge: Indigenous data governance serves to honor Indigenous knowledge, asserting that such knowledge is of the peoples and includes relationships to the non-human world.
- 3. Protection: ethics; equal explanatory power; equitable outcomes.
- 4. Intergenerational collective wellbeing: Data need to align with Indigenous values for collective well-being across generations, and be past, present, and future oriented.
- Relationships: The governance of Indigenous data requires respect, responsibility, reciprocity, and accountability between Indigenous nations and their peoples and other stakeholders.

### First Nations Data Governance Principles

### - OCAP®

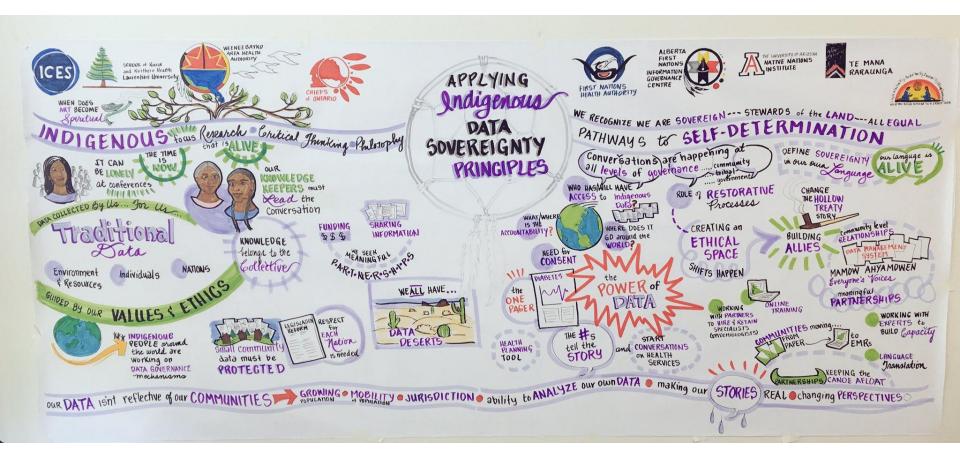
- Refers to the rights of First Nations to own, protect and control how First Nations-specific data are collected, accessed and used
- Collective and individual rights are important



### Inuit Qaujimajatuqangit (IQ) Principles

"that which Inuit have always known to be true"

Pijitsirniq	The concept of serving
Aajiiqatigiingniq	The concept of consensus decision-making
Pilimmaksarniq	The concept of skills and knowledge acquisition
Piliriqatigiingniq	<ul> <li>The concept of collaborative relationships or working together for a common purpose</li> </ul>
Avatimik Kamattiarniq	The concept of environmental stewardship
Qanuqtuurunnarniq	The concept of being resourceful to solve problems
Inuuqatigiitsiarniq	Showing respect and a caring attitude for others
Tunnganarniq	<ul> <li>Being welcoming to others, open in communications and inclusive in the ways of interacting</li> </ul>

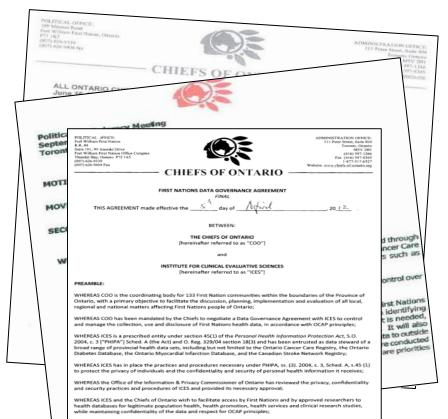


### First Nations Data Linkage

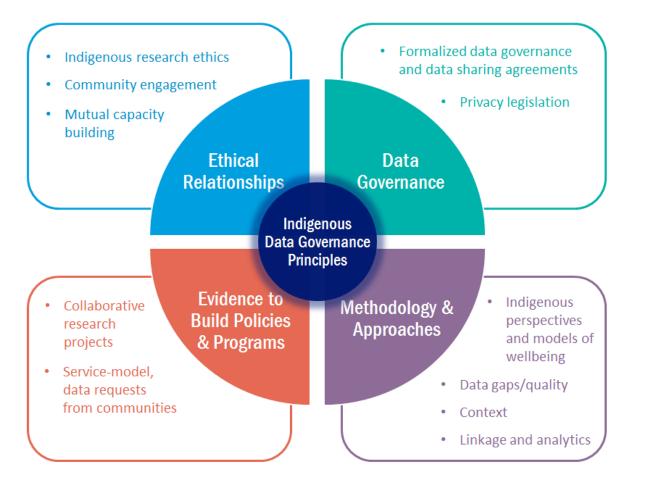
- Linked data being used for surveillance and research by First Nations across Canada
  - At least 6 First Nations regions are accessing provincial data through linkage
  - Requires partnership, relationship, agreements

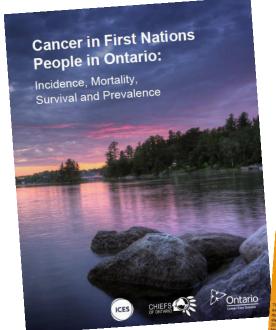
### **Building Relationships**



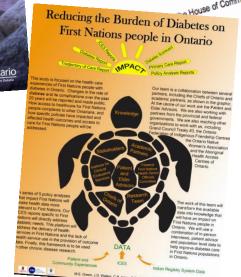


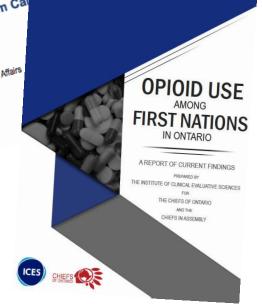
Framework for working with Indigenous data at ICES













#### First Nations - Health Trends Alberta

April 24, 2018

#### Liver Cancer among First Nations in Alberta

Age-standardized liver cancer incidence rates by First Nations status and say: 2006-2015

In a previous First Nations – Health Trends Alberta¹ linked to infectious disease agents. Liver cancer r Nations. Globally, most liver cancer cases are dia To further describe the extent of this burden in A sex for First Nations and non-First Nations peop

#### Liver cancer incidence rate 2.1 tim among First Nations compared to Nations people

Between 2006 and 2015, there was an annual averaliver cancer diagnosed in Alberta (7 among First 1 non-First Nations). Over this time period, the averandardized incidence rate for both sexes combiningher among First Nations compared to their not counterparts (12.6 and 6.1 per 100,000 population).

Among both populations, males had higher rates among First Nations, the rate among men was 1.1 the rate among women (17.0 per 100,000 men co 100,000 women). However, the disparity in rates Nations and non-First Nations women was highe between men across populations: the rate for Firswas 3.0 times higher than for non-First Nations v

A major risk factor for liver cancer is infection with of people infected, reducing risk of cirrhosis and While treatment is an option, reducing risk of extra control of the control of t



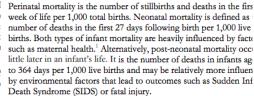
#### First Nations - Health Trends Alberta

May 29, 2018

#### Different types of Infant Mortality in First Nations in Alberta

Rate ratios comparing First Nations and non-First Nations infant mortality rates by type, Alberta, 2011 to 2017

Infant mortality is an important indicator of population health. In a overall infant mortality rates (deaths under one year of age per 1,00 such as socio-environmental conditions, the age of death provides



Here, we investigate disparities across different types of infant mo by estimating rate ratios that compare the rates of death in First Na to the rates in non-First Nations infants. The value of this rate ratio describes the number of times higher rates are in First Nations compared to non-First Nations.

#### Post-neonatal mortality rate for First Nations in

In 2011-2017, the annual average number of perinatal deaths in Alt First Nations over this time period was 1.7 times higher compared respectively). A similar disparity was noted for neonatal mortality w 3.1 per 1,000 for non-First Nations, corresponding to a rate ratio o 158 in non-First Nations). While perinatal and neonatal mortality r Nations post-neonatal rates of death was 4.0 times higher in First Nations.



#### First Nations - Health Trends Alberta

July 17, 2018

### Emergency Department visits due to self-harm among First Nations youth

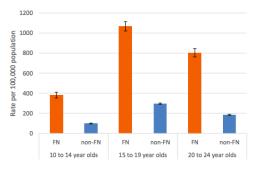
Rates of ED visits due to self-harm by First Nations status and age group, both sexes, Alberta, 2006 to 2017

Self-harm, or self-injury, occurs when a person purposefully harms their body with a non-fatal outcome. This may occur through cutting, burning, or other forms of injury. Numerous factors contribute to the risk of self-harm. These include living with mental illness, feelings of hopelessness, or other psychological factors. Risk of self-harm may be amplified in Indigenous populations that are impacted by a complex colonial history including intergenerational trauma from residential schools, higher rates of poverty, and systemic racism.

In today's First Nation – Health Trends Alberta, we present emergency department (ED) visit rates during 2006 to 2017 due to self-harm in First Nations and non-First Nations youth separately. Rates are presented for both sexes combined and by age group.

#### Among 10 to 24 year olds, ED visit rates due to self-harm are 4 times higher for First Nations compared to non-First Nations

During 2006-2017, the annual average number of ED visits by 10 to 24 year olds due to self-harm in Alberta was approximately 2,080 (410 in First Nations). The ED visit rate for First Nations over this time period was 3.9 times higher than the rate for non-First Nations (rates 2250.9 and 579.2 per 100,000, respectively).



There were differences in rates across age categories: ED visit rates due to self-harm were highest in 15 to 19 year olds for both First Nations and non-First Nations during 2006-2017 (First Nations: 1066.8 per 100,000 and non-First Nations: 296.1 per 100,000). This corresponded to an annual average of 200 visits and 820 visits for First Nations and non-First Nations aged 15-19 years, respectively. Rates were lowest in 10 to 14 year olds for both groups, with an average of 70 visits annually in First Nations and 250 annual visits in non-First Nations (rate in First Nations: 381.1 per 100,000 and non-First Nations: 98.1 per 100,000). Similarly, for both First Nations and non-First Nations, rates were higher in females compared to males in all age categories.

http://www.afnigc.ca/



Learning from the water.

The path to healing and data governance is a braided path – no one is stepping in exactly the same place twice.





### Thank you. Niawen.

jenniferwalker@laurentian.ca