

Disability-adjusted Life Expectancy of Aboriginal Canadians

RAFAEL SILVA-RAMIREZ, DOMINIC GAGNON, SIMONA BIGNAMI UNIVERSITÉ DE MONTRÉAL Les 11 - 1:-



Affaires autophones Indigenous and Northein Affairs Canada



Disability-adjusted Life Expectancy of Aboriginal Canadians



Disability-adjusted Life Expectancy of Aboriginal Canadians



What is a disability?

Standard: Health Utility Index

For our research, based on 4 questions:

Difficulty/limitation in performing daily activities (#1) (Difficulty hearing, seeing, learning, climbing stairs...)

Having a condition that reduces the possibility to engage in activities at home (#2), at work or at school (#3) or in other activities (#4)



Disability-adjusted Life Expectancy of Aboriginal Canadians



Self-reported Aboriginal identity

- First Nations
 - Living on an Indian reserve
 - Living off an Indian reserve
- Métis
- •Inuit
- Non aboriginal



2011

DATA: age, identity, disability and death

Died in the following 10 years?

2001

Long form census

census CanCHEC

Population

19 years+ Aboriginal Identity

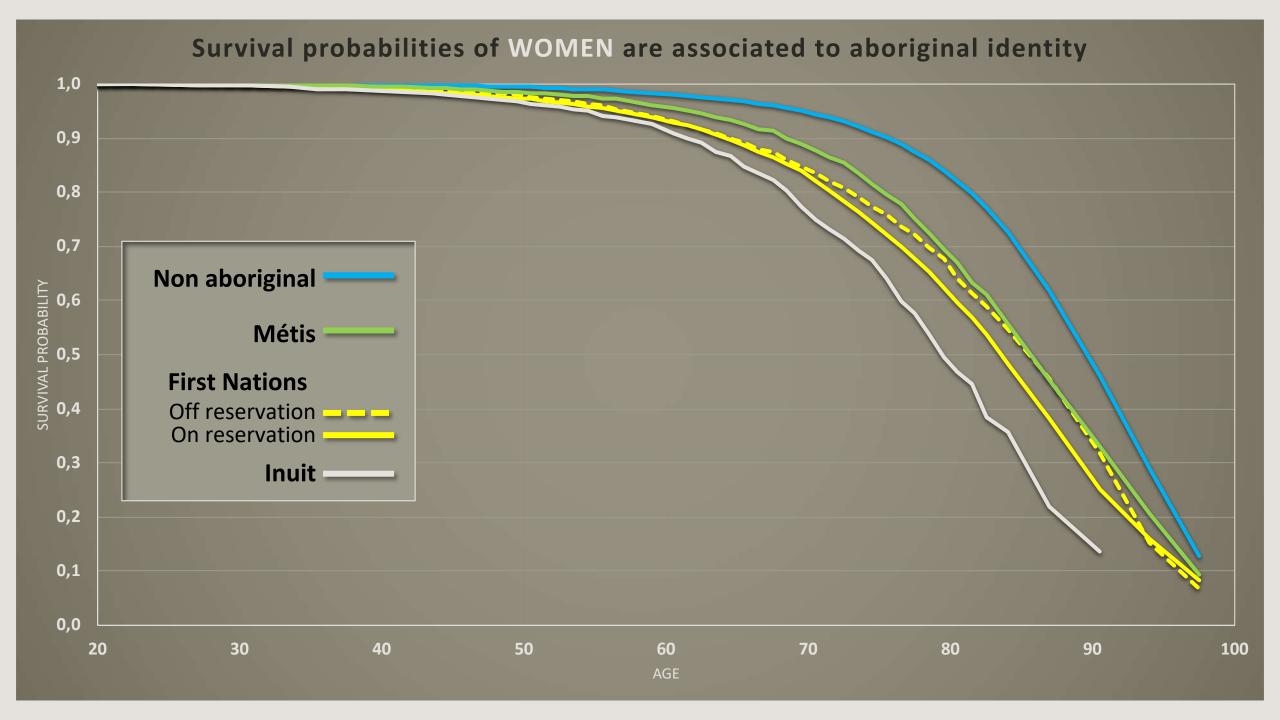
Disabilities

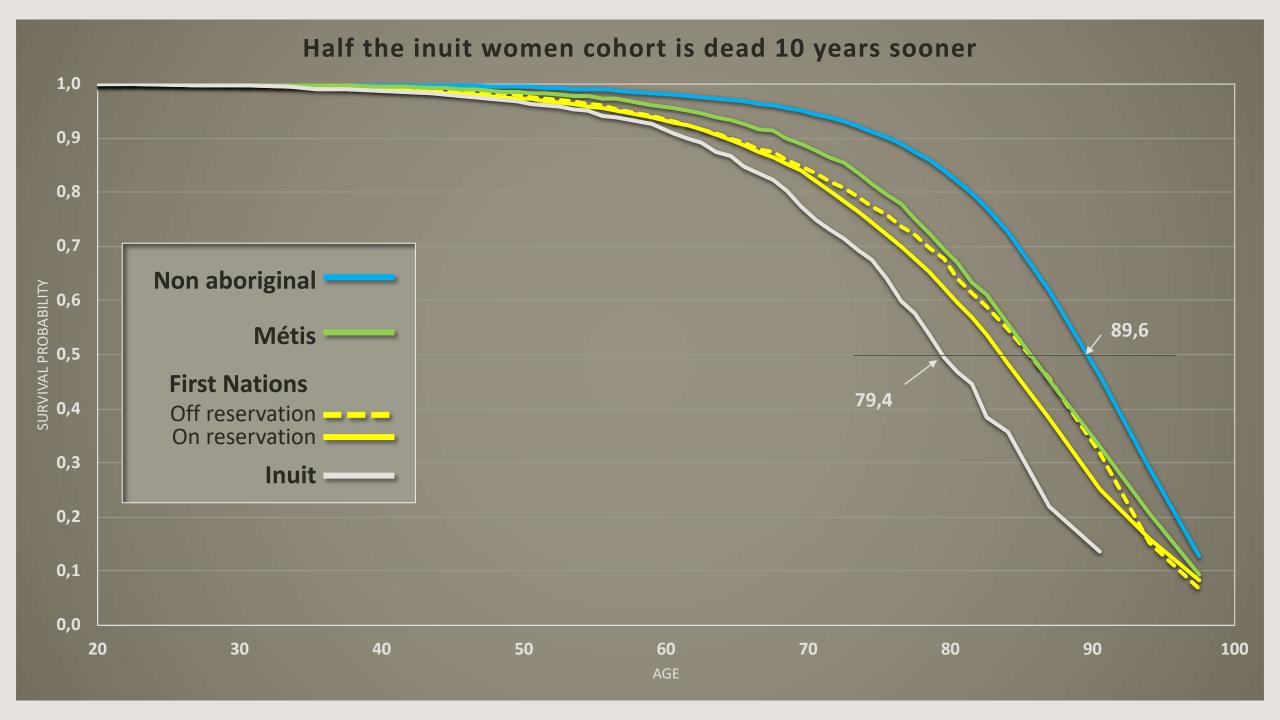
Daily activities
At home
At work or at school
In other activities

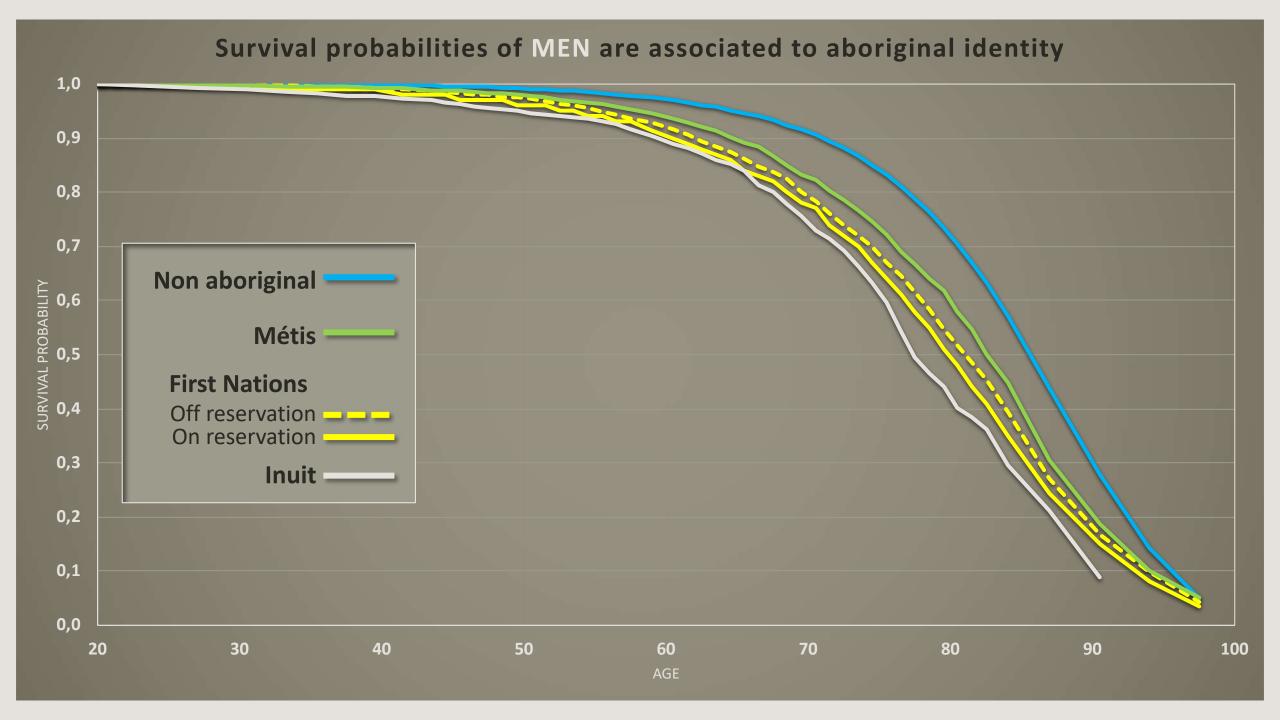


1st STEP

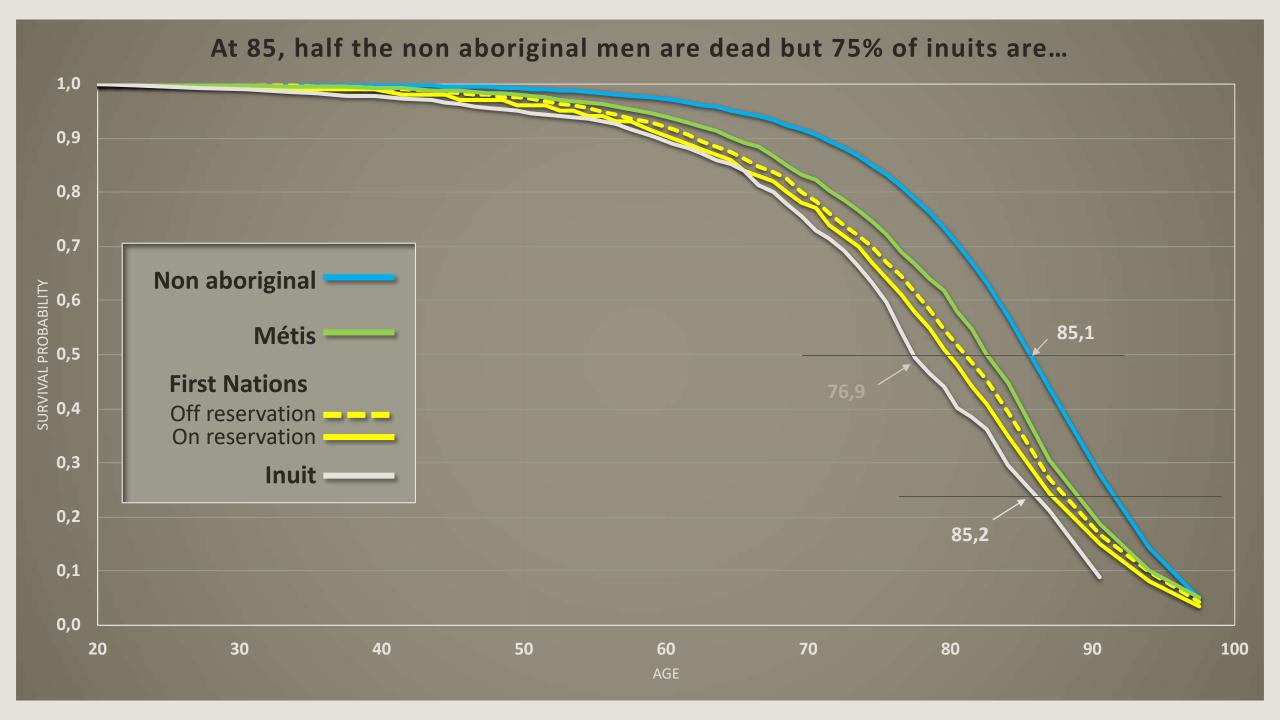
SURVIVAL CURVES :: KAPLAN-MEIER ESTIMATORS



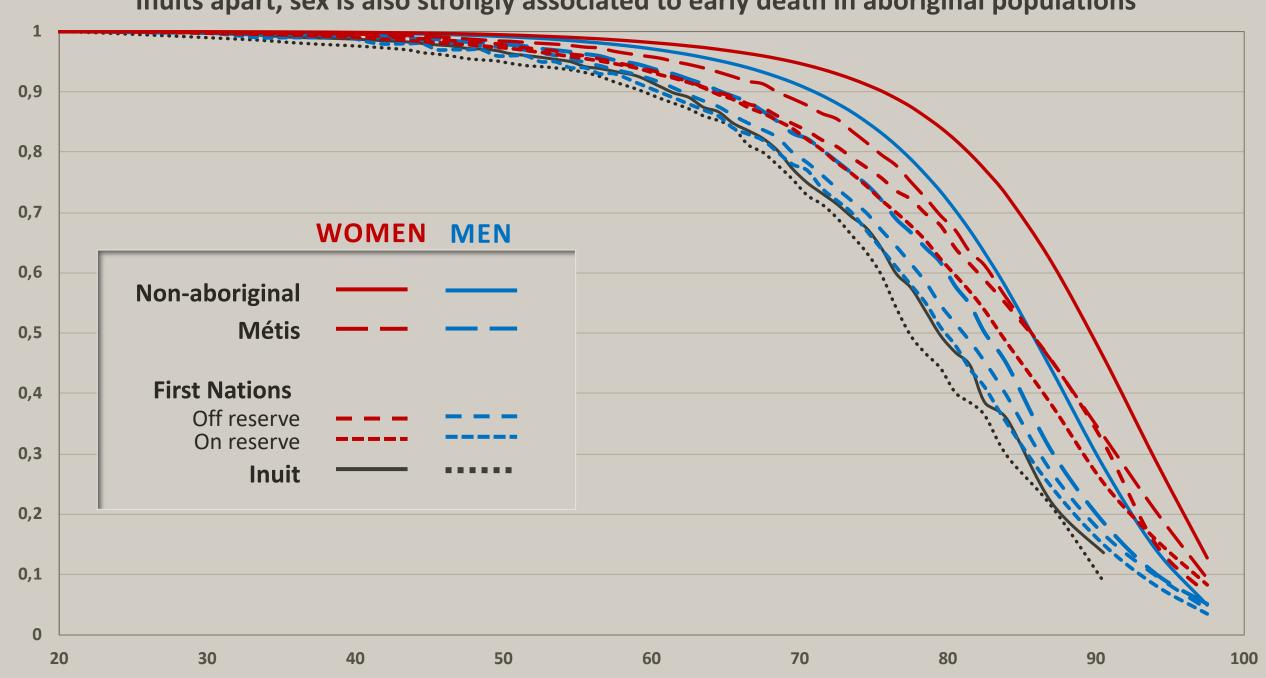








Inuits apart, sex is also strongly associated to early death in aboriginal populations

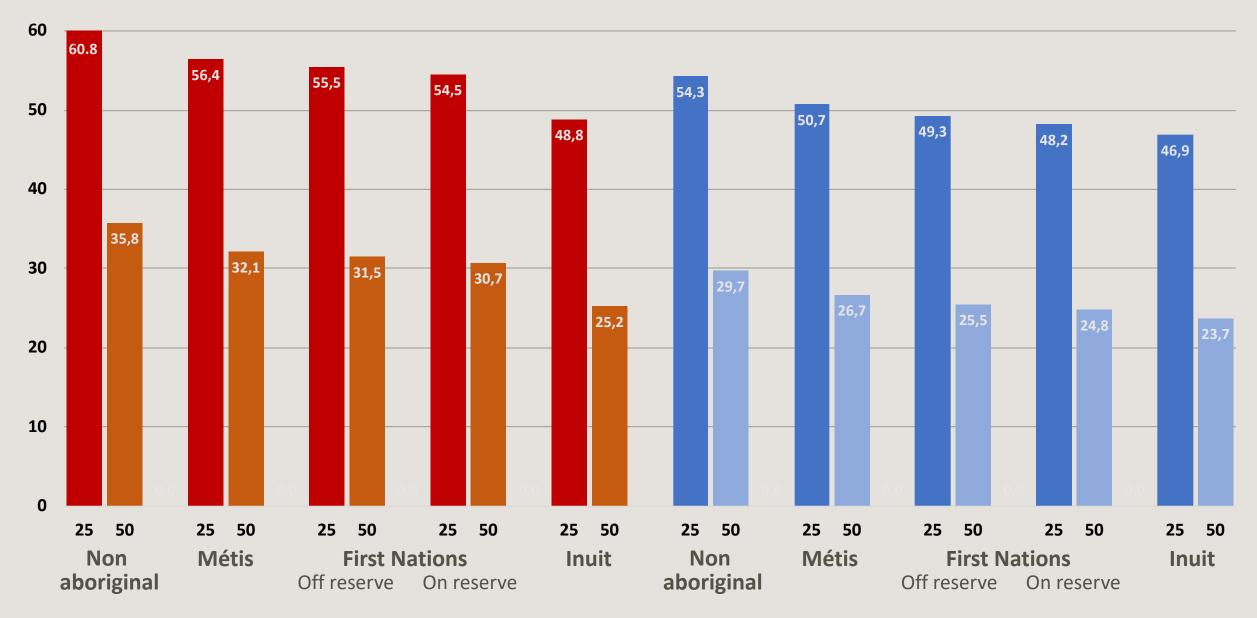




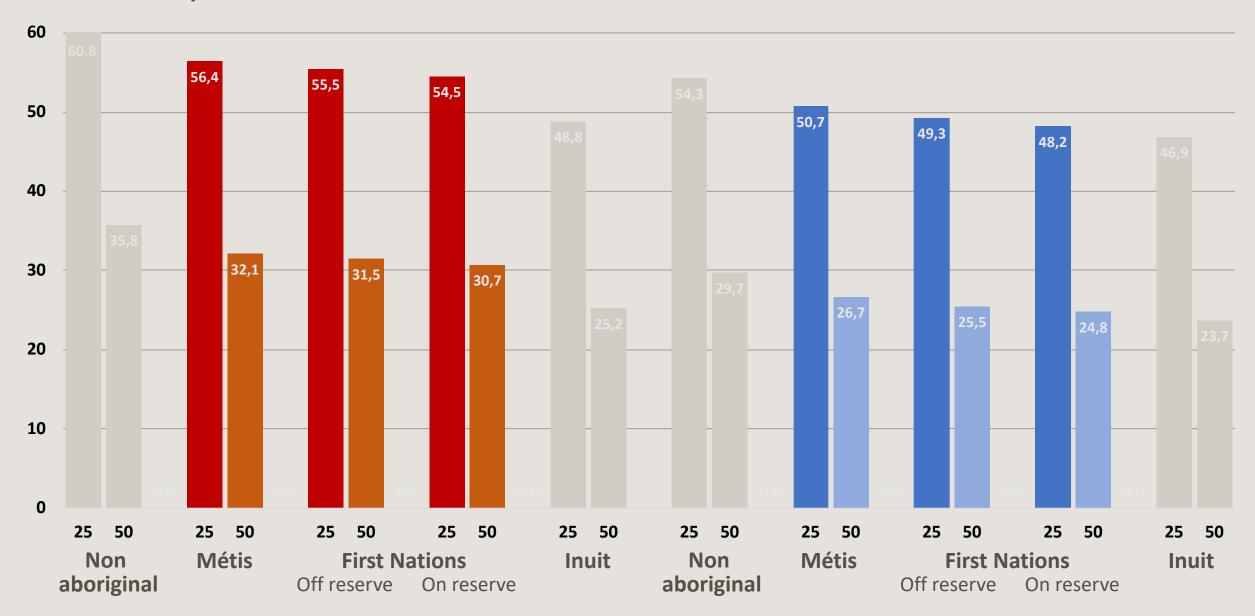
2nd STEP

LIFE EXPECTANCIES

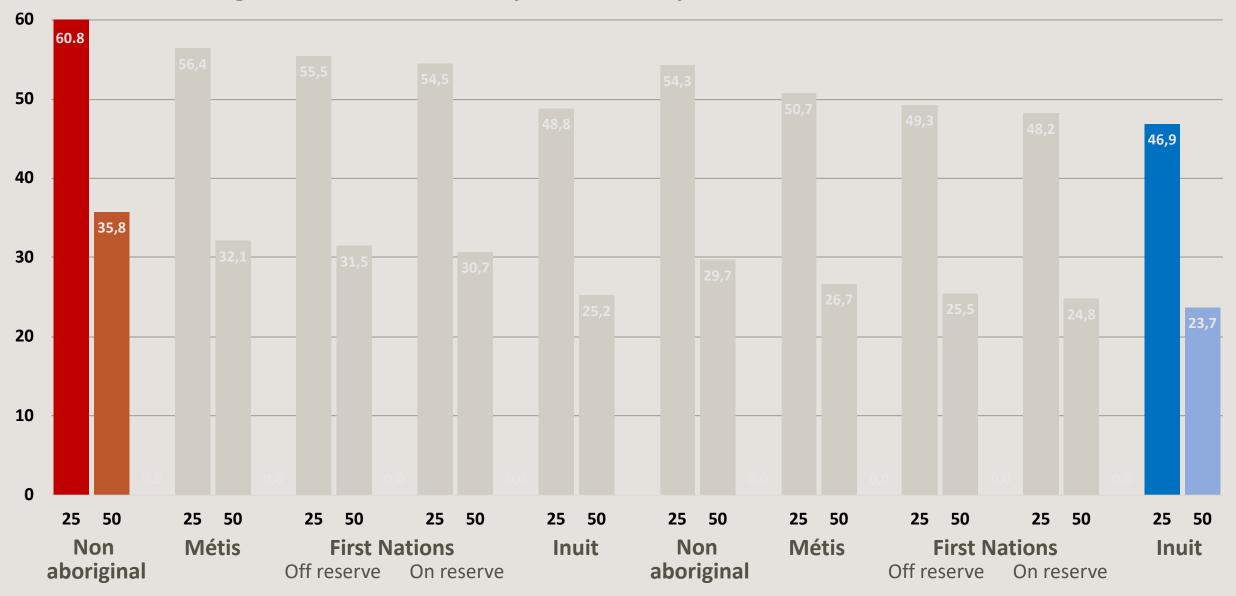
Life expectancy at age 25 and 50



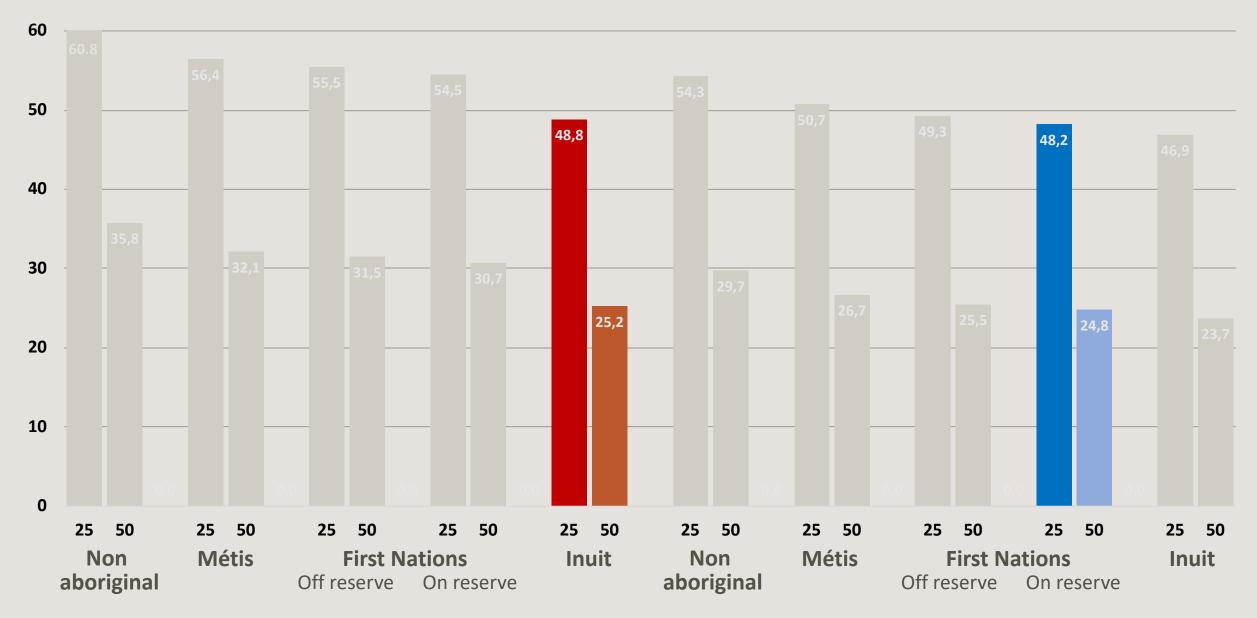
Two years variation for Métis and First Nations



Non-aboriginal women at 25 can expect to live almost 15 years more than inuit men Non aboriginal women at 50 can expect to live 12 years more than inuit men



Inuit women life expectancy is greater than First Nations men living on reserve

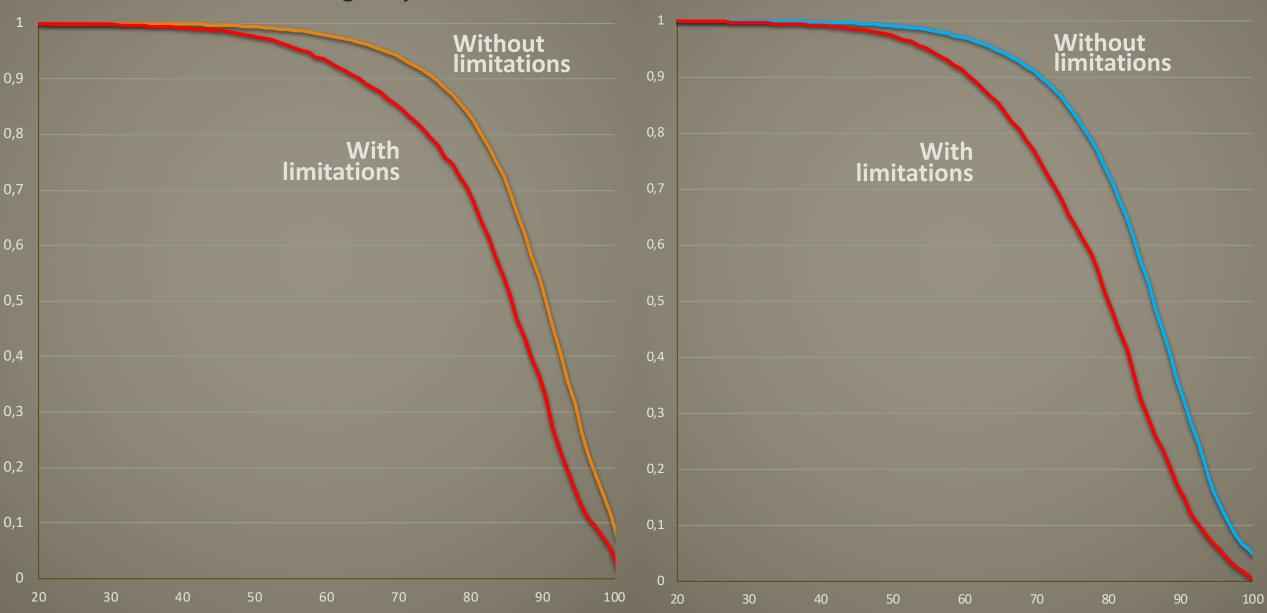




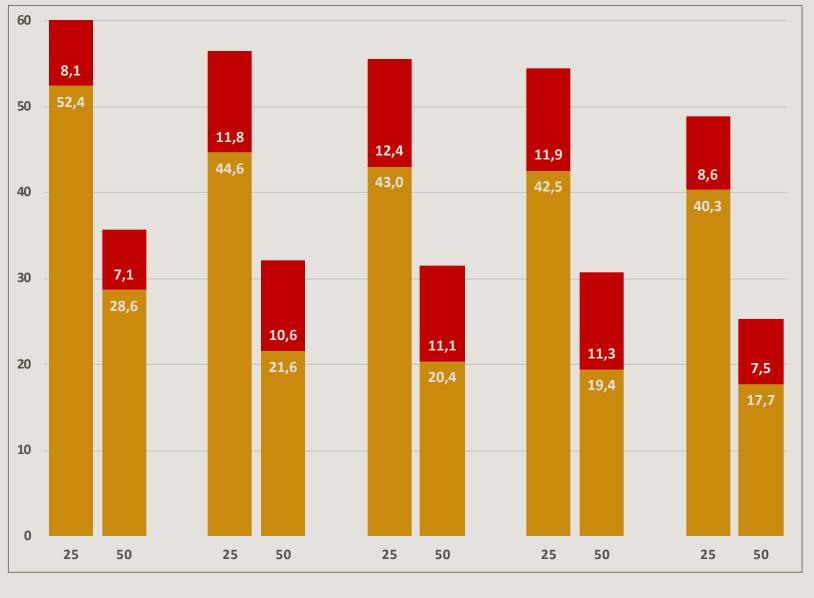
3rd STEP

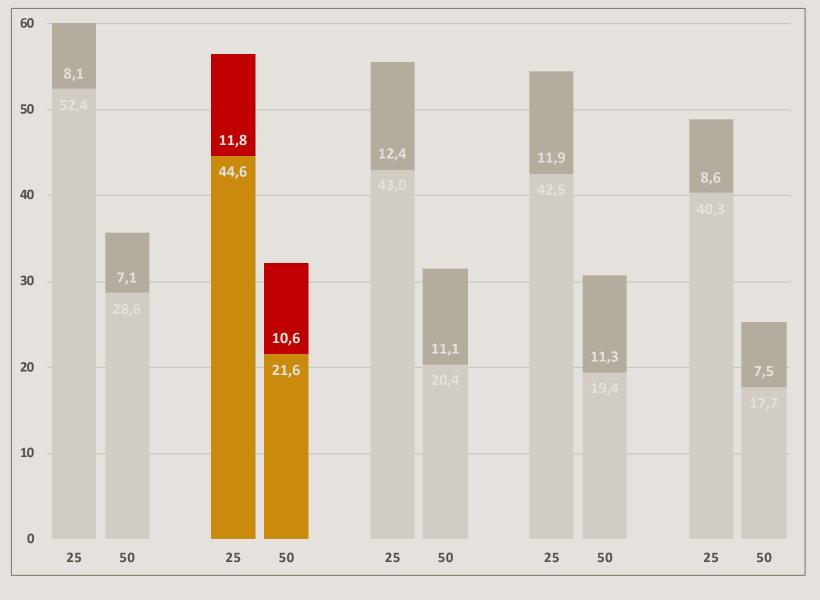
APPLY WEIGHTS TO COMPUTE DALES:: SULLIVAN METHOD

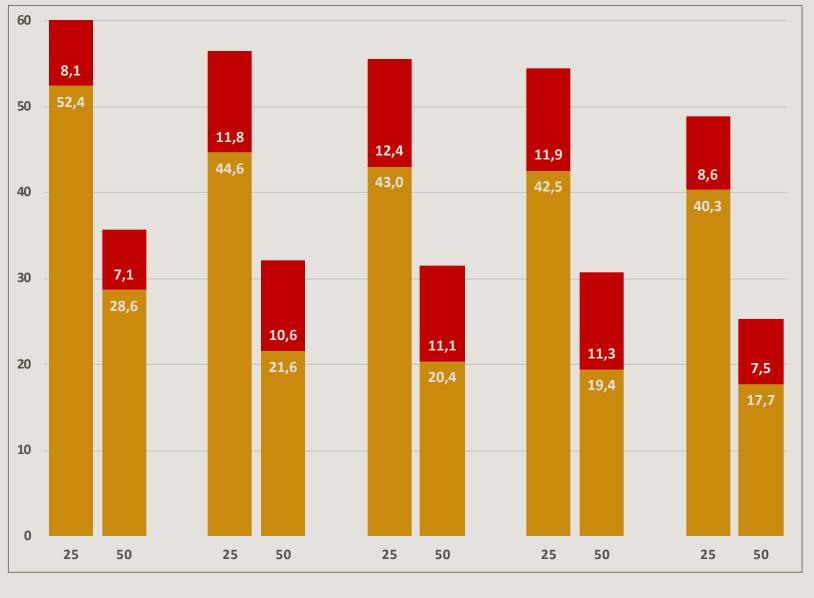
Women which stated having often the 4 types of limitations in 2001 died faster in the following 10 years.



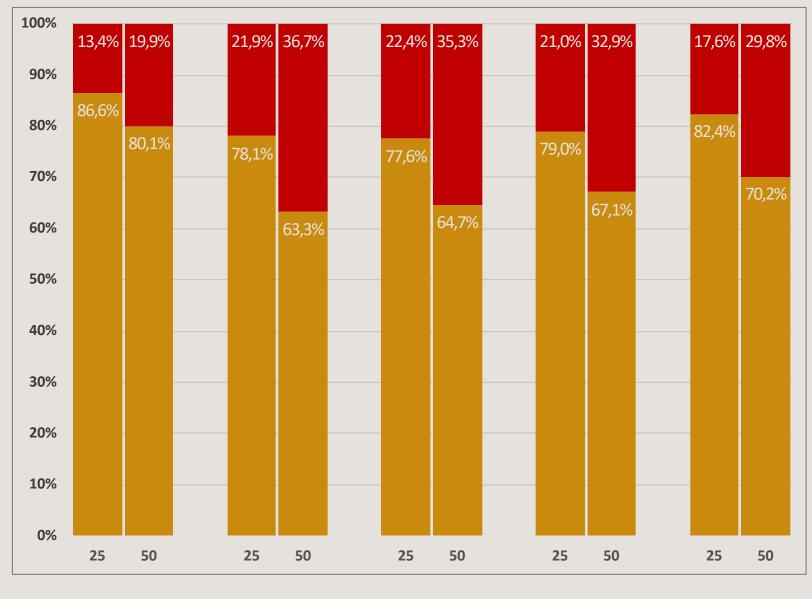
Same thing for men



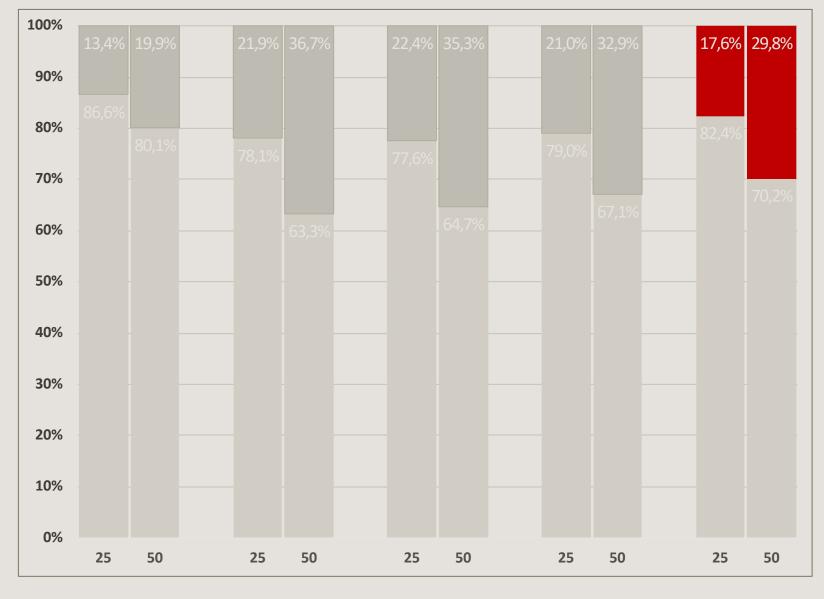




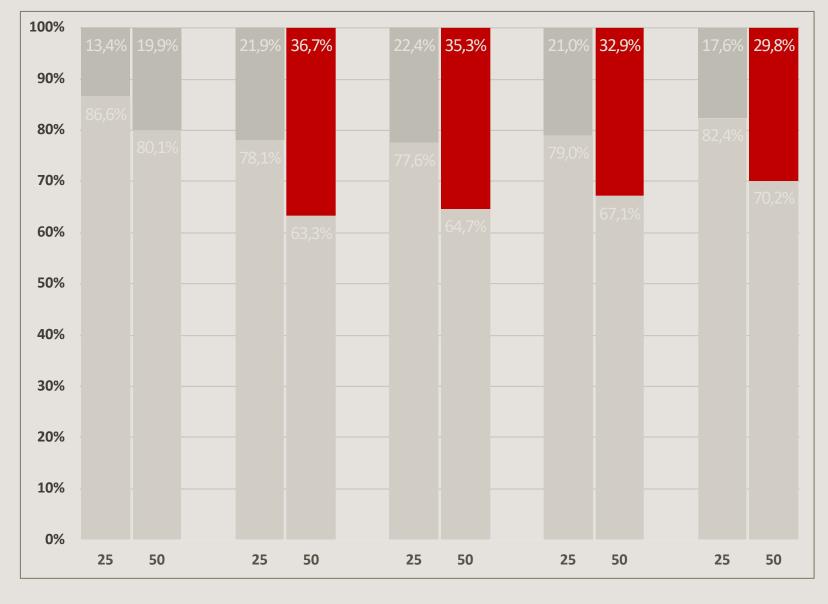
Proportion of life expectancy with or without limitations.

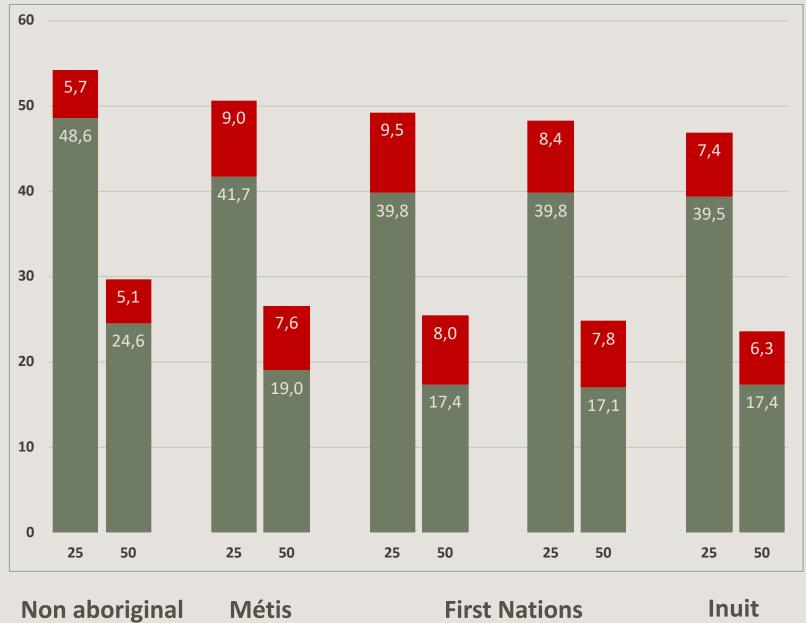


Inuits are spending a smaller proportion of their remaining life with a disability.



For aboriginal women who survive until 50, they can expect that a third of their remaing life will be spent with a disability.

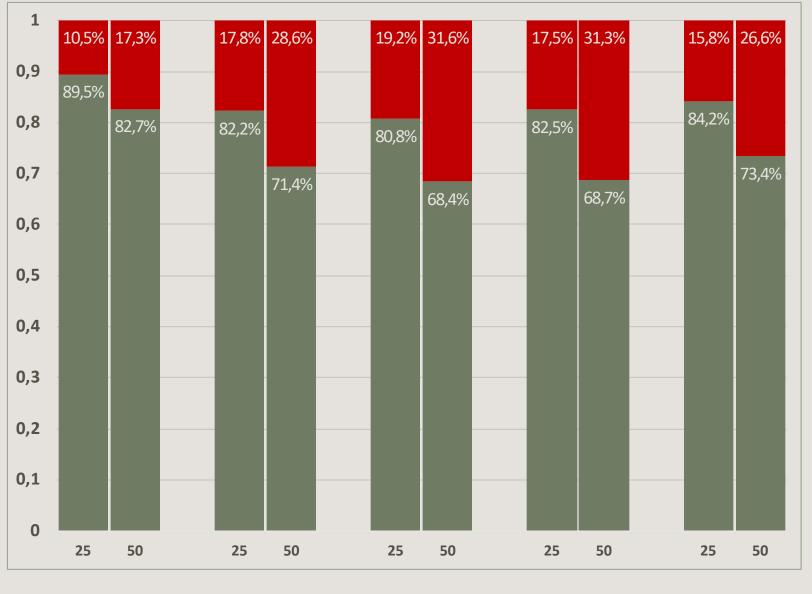




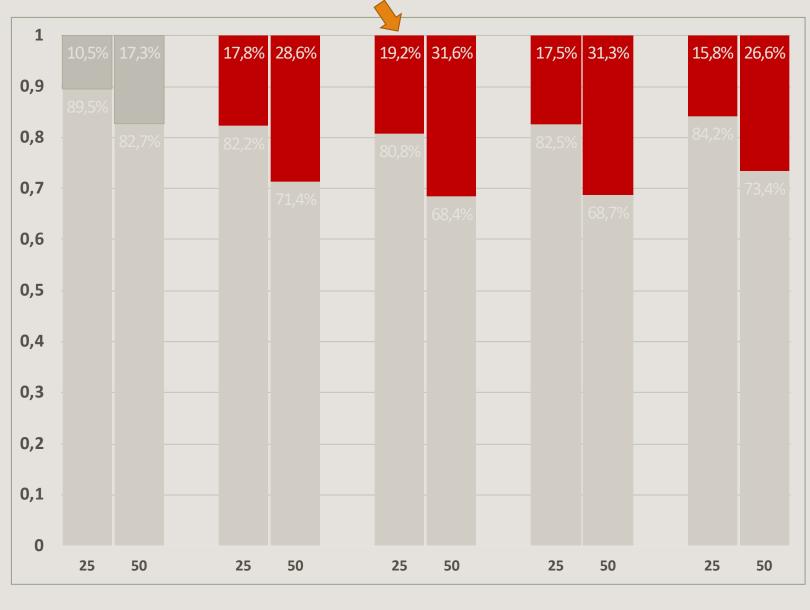
Off reserve On reserve

Inuit men fare almost as well as other aboriginal men in term of life expectancy without any disability.





Off reserve First Nations men is the population who spend the largest proportion of their life with a disability.



Inuit men die younger but spend a smaller part of their life with a disability.





Key results

- Life expectancy of aboriginal men and women is notably shorter than non-aboriginals' one.
- Aboriginal Canadians spend a greater proportion of their life with a disability.
- In term of disabilities, Inuits seem to fare better than other aboriginals.
- While aboriginal identity is detrimental to life expectancy as well as life expectancy without disabilities, it is imperative to take gender into account.



Limitations

- The 2001 Census and missing aboriginal people (Iroquois, Crees and Obidjwe)
- Self-reported limitations and culture
- Based on 4 generic questions about limitations, no severity assessment
- Comparability
- Sample size at old ages

What do we suggest policymakers should do about this?



Food insecurity rising in Nunavut since launch of Nutrition North: study

North

Food insecurity rising in Nunavut since launch of Nutrition North: study











Food insecurity affected 46 per cent of Nunavut households by 2016, study says



Nick Murray - CBC News - Posted: May 21, 2019 4:00 AM CT | Last Updated: May 21

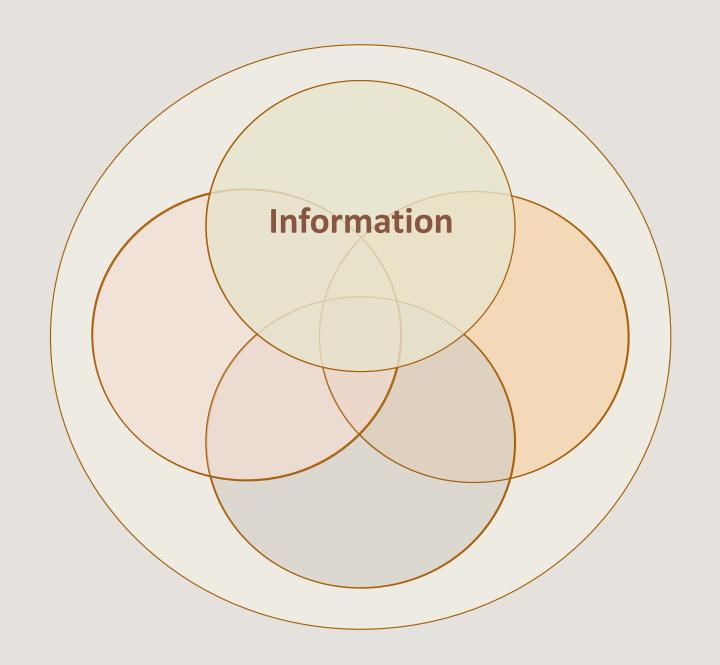


On Sept. 27, 2016, a two-litre carton of orange juice was priced at \$12.99. That doesn't count the \$1 federal subsidy provided through the Nutrition North program. (Elyse Skura/CBC)

So... What can be done?

1. Holistic approach

(Share results with aboriginal people)



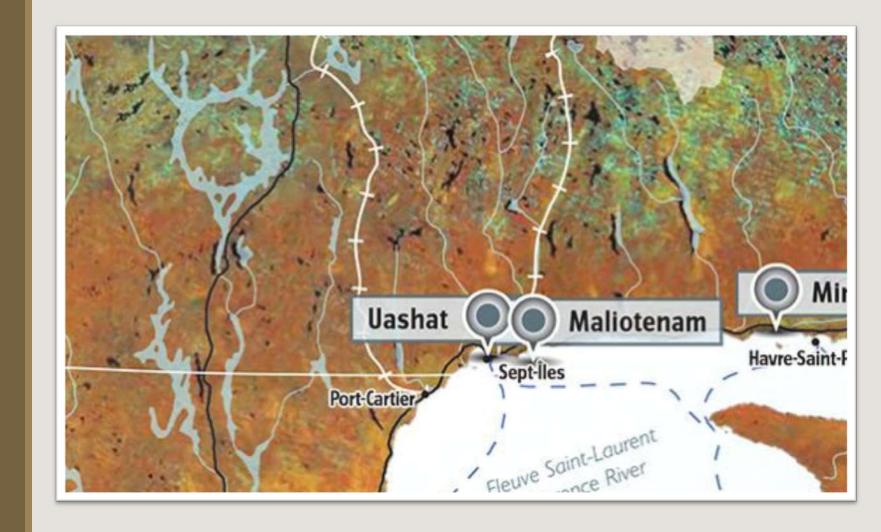
So... What can be done?

2. Data and research

Maximise current data usage and be more proactive in building bridges with academics.

So... What can be done?

3. Education...





Education of non-aboriginal young Canadians

Knowledge of aboriginal recent history + Intercultural activities



THANKS

Facebook page: Ervipop

Twitter: @Ervipop

ResearchGate