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University
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Building knowledge for societal change

Canadian Substance Use Costs and Harms

Matthew M. Young

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Disclosure Statement

- I have no affiliation (financial or otherwise) with a pharmaceutical, medical device or communications organization.



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The views expressed herein do not necessarily represent the views of Health Canada.



Project Background

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Project Background

- Most recent comprehensive assessment on the harms and economic burden of substance use (SU) in Canada was the CCSA-led study by Rehm and colleagues, conducted in 2006 using 2002 data
- This study continues to be cited but data is no longer current
- The ability to report costs and trends in harms uniquely caused by the use of substances would be a valuable asset to federal, provincial and territorial (FPT) efforts aimed at reducing these harms

Deviations from Rehm et al., 2006

- Estimates will be for several years
 - 2007 to 2014
- Several substance categories will be included:



ALCOHOL



TOBACCO



CANNABIS



COCAINE



OPIOIDS



OTHER CNS
DEPRESSANTS



OTHER CNS
STIMULANTS



ALL OTHER
PSYCHOACTIVE
DRUGS



Attributable Fraction Methodology

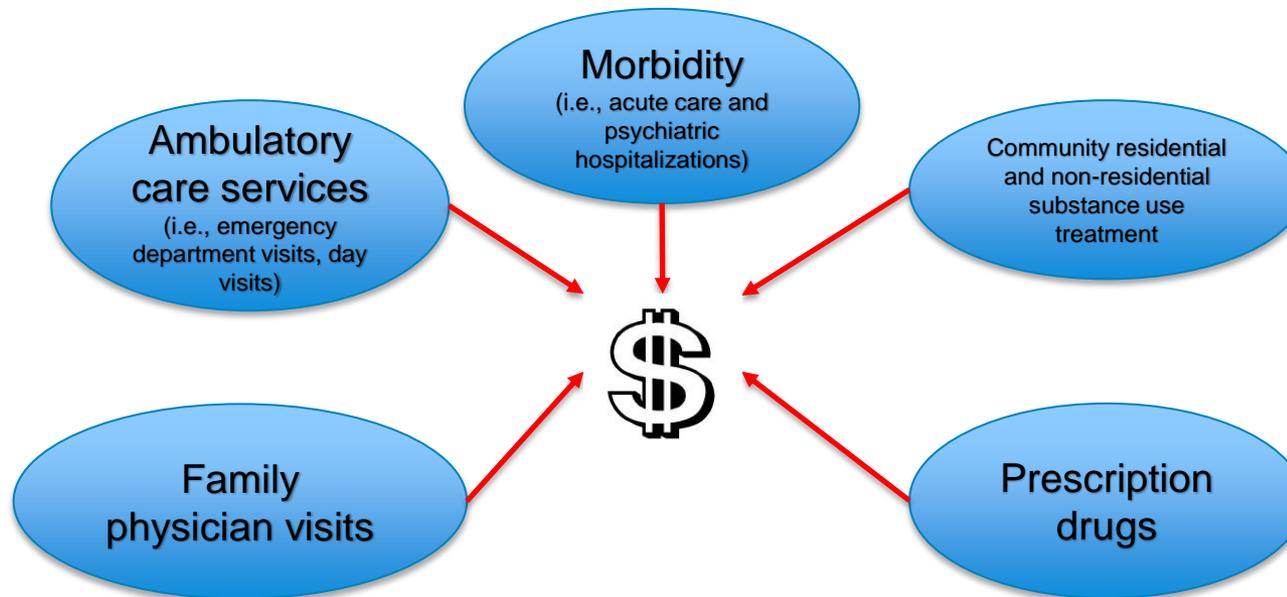
- Some health conditions and events are 100% attributable to SU (i.e., poisonings, impaired driving charges) while others are only partially attributable (i.e., stomach cancer, homicide)
- Attributable fraction (AF) approach:
 - Identify the condition (or event or indicator) attributable to SU
 - Determine the relationship between the extent of exposure and the indicator
 - Identify prevalence of exposure in the general population
 - Combine information to obtain SU-related AFs



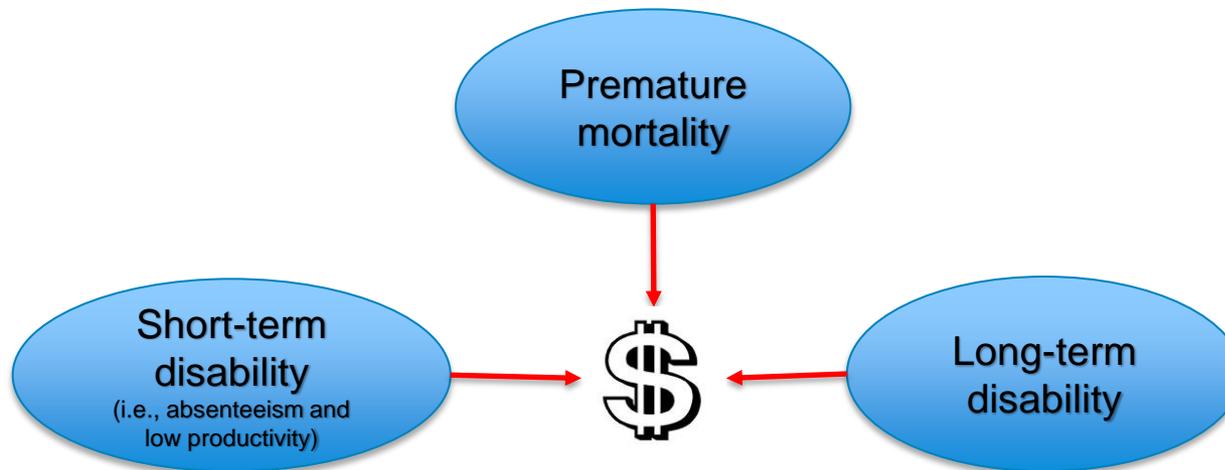
Enhancements to Methods & Data

- Inclusion of Territories
- Reassessment of crime-related AFs for all substances using new data from the Correctional Service of Canada.
- Up to date estimates of relative risks for health conditions from international literature for both morbidity and mortality
- Use of a new CISUR resource, the International Model for Alcohol Harms and Policies, for more precise estimates of alcohol harms
- Steps to avoid double counting across multiple substances
- Use of primary diagnoses only in health data for more conservative estimates

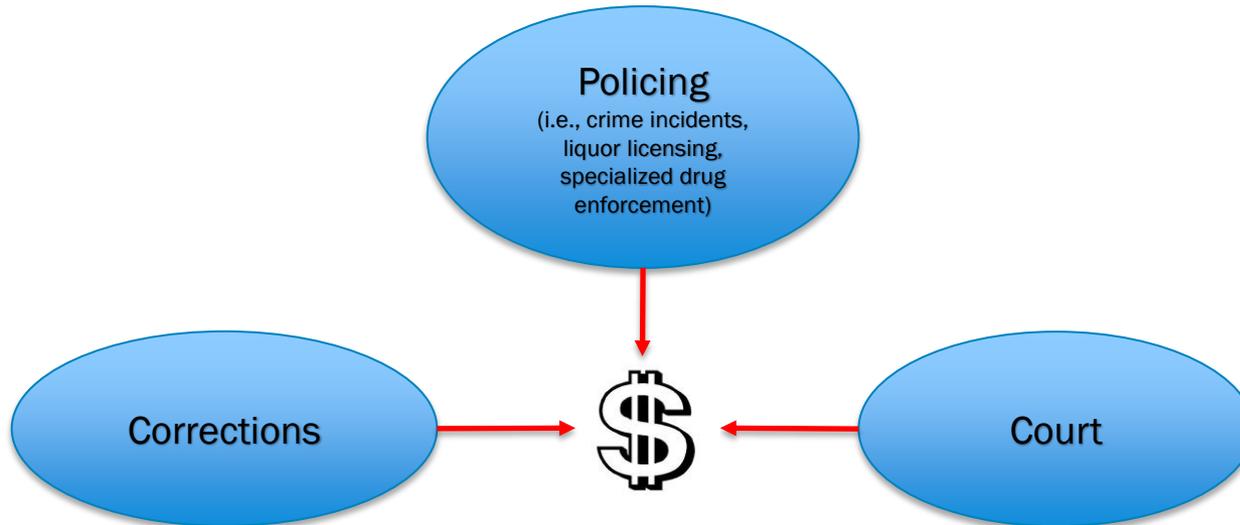
Health Cost Indicators



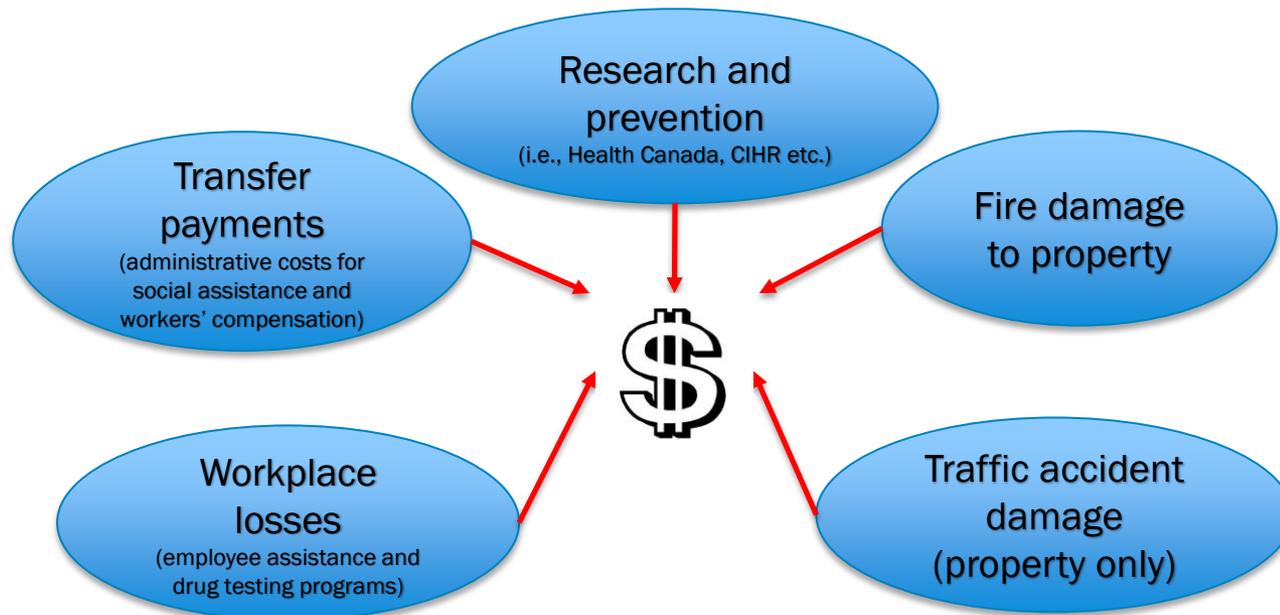
Lost productivity cost indicators



Criminal justice cost indicators



Other direct cost indicators



Release

- Tentative release date in late June
- Online data visualization tool in Fall 2018

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