Introduction

The non-medical use (NMU) of prescription drugs has been identified as a significant public health concern, with a particular focus on the misuse of opioids, stimulants, and sedatives. Despite this increased attention, data on the prevalence of NMU in Canada is limited and is often impacted by how NMU is defined. The aim of this study was to use data from the Survey of Non-Medical Use of Prescription Drugs (NMURx) to describe, among Canadian adults aged 15 and above, the lifetime and last 90 day prevalence of NMU of prescription drugs, as well as the proportion of those that have non-medially used these drugs in the last 90 days among those that have non-medically used these drugs in their lifetime.

Methods

The NMURx program is a large-scale, repeated, cross-sectional survey of adults (15+) in Canada.

- NMURx studies NMU of medications among the general population and characterizes associated behaviors.
- The NMURx survey also has launched or is prepared to launch in the United States, United Kingdom, France, Germany, Italy, and Spain.
- NMU is defined as medication use without a doctor's prescription, or for any reason other than what was recommended by a doctor/dentist/pharmacist/the packet insert (e.g. "for enjoyment/to get high", "to self-treat pain").
- Post-stratification weights were applied to reflect the distribution of adults in Canada, based on age, gender, and geographic region.

This analysis used data collected in Canada in third quarter 2016 to estimate the prevalence and 95% confidence intervals (CI) of lifetime NMU and last 90 day NMU of opioids, benzodiazepines, stimulants, and GABA analogues, among adults in Canada.

- Respondents could report NMU at the drug product level or, in the case that the specific product is unknown, at the active pharmaceutical ingredient or drug class level.
- Opioids in this analysis include fentanyl, buprenorphine, morphine, methadone, oxycodone, oxymorphone, tramadol, tapentadol, codeine (prescription and over-the-counter codeine are included in this analysis), hydrocodone, and hydromorphone.
- Stimulants in this analysis include amphetamine, dextroamphetamine, and methylphenidate.
- Benzodiazepines in this analysis include alprazolam, clobazam, clonazepam, diazepam, flurazepam, lorazepam, oxazepam, and temazepam.
- GABA analogues in this analysis include pregabalin, gabapentin, and baclofen.

Prevalence of Non-Medical Use of Prescription Drugs in Canada K. Patrick May¹, Karilynn M. Rockhill¹, Beth Sproule², Nicolia A. Eldred-Skemp¹, Colleen M. Haynes¹, Richard C. Dart^{3,1}, Jody L. Green^{3,1}

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Table 1: Respondent

Characteristic

Gender Male Female

Age in Years Median (IQR) Range

Figure 1: Non-Medical



Figure 2: Last 90 Da those Reporting L



Demographics	
% (95% CI) Weighted N = 30,454,776 49.3 (48.2, 50.4) 50.7 (49.6, 51.8) 46.0 (30.3,60.8) 15.0, 93.0	 Prevalence of lifetim (27.7%; 95% CI 26. 2.8), benzodiazepin 0.5). Prevalence of NMU opioids (7.6; 7.1-8.2 stimulants (0.4; 0.2- Among respondents the last 90 days (Fig 20.0-33.1), followed
Lifetime Last 90-Day	(25.0: 15.0-43.9), ar • While lifetime NMU
1.8 0.5 0.4 1.1	 GABA analogues way population, NMU way More than a quarter benzodiazepines, and drug class in the las While the overall precondition adults way classes, the proport
Benzo- GABA diazepines Analogues	NMU are similar acr
A Straight S	The rate of lifetime NM the rate of NMU in the opioids than that for sti analogues. The current substantially higher rate medications highlights implementation of evide
	The System is supported is surveillance, research and Canadian Consumer Production of all data, datable collection or analysis, nor do
Benzo- GABA diazepines Analogues	DENER HEALTH Level One Care for ALL

Results

ne NMU (Figure 1) was highest for opioids .7%-28.7%), followed by stimulants (2.4; 2.1nes (1.8; 1.6-2.1), and GABA analogues (0.4; 0.2-

in the last 90 days (Figure 1) was highest for , followed by benzodiazepines (0.5; 0.4-0.6), -0.5), and GABA analogues (0.1; 0.0-0.2).

s reporting lifetime NMU per drug class, NMU in gure 2) was highest for benzodiazepines (27.8: by opioids (27.5: 25.7-29.4), GABA analogues nd stimulants (16.7: 10.4-20.1).

Conclusions

of opioids, benzodiazepines, stimulants, and vas reported by the general Canadian adult vas highest for prescription opioids.

of those who reported lifetime NMU of opioids, nd GABA analogues reported NMU within each st 90 days.

evalence of NMU in the last 90 days among as much higher for opioids than for the other drug tions of NMU among those that report lifetime ross drug classes.

Discussion

IU for opioids is more than ten times higher and last 90 days is more than fifteen times higher for imulants, benzodiazepines, and GABA t extent of opioid NMU in Canada and the tes of opioid NMU compared to other prescription the need for the further development and lence-informed solutions.

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