Prescription Medication Misuse and Public Perceptions in Los Angeles County:

Findings from the 2022 Community Needs Assessment

Health Outcomes and Data Analytics Division
Substance Abuse Prevention and Control Bureau
Los Angeles County Department of Public Health

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CNA Workgroup members included:

Adan Jimenez
Albert Melena
Alexandra Cervantes
Alfredo Santiago
Allyson Weinhold
Anai Arroyo
Angel Sanchez
Angelica Hernandez
Bryan Zaragoza Hurtado
Carly Lopez
Carolina Hooker
Chanthy Yi
Charles Porter
Chelsea McElwee
Christina Tuman
Claudia Hathcock
Claudia Robles
Cynthia Silva
Cynthia Spears
Daniel Hanaya
David Bryant
Denise Sandez
Dianna Malak Lopez
Donna Heydar
Eden Aberra
Edgar Sebastian
Edith Zamora
Elba Aguilar
Enrique Carmona
Enrique Topete
Erica Park
Erica Winston
Erika Tate
Farimah Fiali
Fasiat Agaba
Fernando Centeno
Gabriel Botello
Gregory Peralta
Ginny Aliaga
Gloria Perez
Graciela Ramirez-Alvarado
Hanna Yi
Heather Longridge
Hira Khalid
Hugo Blanco
Irene Lim
Irving Quinonez
Jaer Chikeruba
Janice Rooths
Janiel Jones
Jared Chapman
Jazmine Pamintuan
Jeanne Shimatsu
Jeannette Hughes
Jenifer Harris
Jessica Abaya
Jessica Garcia
Jolan Dawson
Jose Magana
Jospeh McLellan
Julia Vong
Katherine Yeom
Keisha Como
Kevin Shon
Kim Guevara
Kristina Johnson
Kristine Lloyd-Tangermann
Lilia Onate
Linda Gingras
Lisbeth Garcia
Lizbeth Alvarado
Lizbeth Vivar
Lorena Velasquez
Luis Ramirez
Marianna Hernandez
Marlene Marroquin
Marlon Pascual
Martha Dorantes
Melanie To
Michael Browning
Miriam Ruiz
Monica Portillo
Nancy Lopez
Nancy Santiago
Nare Nazaryan
Naty Jacobo
Nicolas Patino
Nicole Sun
Norma Yoguez
Paulla Elmore
Peter Bippus
Quinn Tran
Rafael Vasquez
Ragini Vazirani
Rangell Oruga
Regina Lee
Richard Pablo Bis
Riley Kelly
Rith Thach
Robert Aguirre
Rosalyn Son
Rosie Mainella
Ruben Chavez
Sabrina Navarette
Sagar Patel
Sandy Logan
Sarah Blanch
Sarah Lee
Sarah Redfield
Shantanishia Battiste
Sharon Burnom
Sinclair Lor
Sokhom Phou
Stephanie Zapata
Susan Tang
Susan Wood
Tearmesha Jacobs
Teresa Montes-Montalvo
Terrance Wortham
Tiffany Rogers
Timothy Spears
Timothy Young
Tom Chic
Tomas Robles
Traci Saruwatari
Victor Guerra-Cardoza
Victor Ramirez
William Taetzsch
Xavier Flores
Yamilet Miranda
Yancy Maravilla
Yoselyn Torres
Zelenne Cardenas

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Avalon Carver Community Center
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Day One
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Institute for Public Strategies
Korean American Family Services
Koreatown Youth & Community Center
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National Council on Alcoholism and Drug Dependence of the San Fernando Valley
Pacific Clinics
Parents Anonymous
People Coordinated Services of Southern California
Phoenix House of Los Angeles
Prototypes
Pueblo Y Salud
San Fernando Valley Partnership, Inc.
Social Model Recovery Systems, Inc.
South Central Prevention Coalition
Special Services for Groups
Tarzana Treatment Centers
The Wall Las Memorias Project
Watts Healthcare Foundation, Inc.

Executive Summary

Prevalence and Use Behaviors

- Among Los Angeles County (LAC) residents aged 12 and older, 12.7% reported ever misusing prescription (Rx) medication (e.g., pain relievers, sedatives/ benzodiazepines, stimulants) at least once in their lifetimes.
- The prevalence of current Rx medication misuse (at least once in the past 30 days) among LAC residents aged 12 and older was 2.1%.
- On average, those who misused Rx medication in the past month did so for 9 days out of 30.
- The average age of first misuse of Rx medication among LAC residents aged 12 and older was 21 years. Of those who ever misused (PWMRx[1]), 38.1% first misused Rx medication before age 18.
- Among respondents who had misused Rx medication, 50.3% had misused opioids, 40.2% had misused sedatives, and 23.5% had misused stimulants.
- Overall, 10.7% indicated having close friends who misuse Rx medication, while 10.0% indicated having family members who misuse.

Accessibility/Availability

- Over half (57.8%) of LAC residents aged 12 or older perceived that prescription pain medication would be easy to access around their neighborhood, with PWMRx indicating perceptions of greater access than non-PWMRx (63.9% vs. 56.7%, respectively).
- Among those who had ever misused Rx medication, nearly half (47.9%) reported that it was easy for them to access prescription medication without a prescription.
- PWMRx most commonly obtained their prescription medication from friends (40.6%), followed by doctors (25.3%), home (23.4%), dealers/illegally (22.4%),
- Nearly one-fifth (19.6%) of LAC residents aged 12 and older reported they have unused or expired (left-over) Rx medication where they live. This figure was slightly higher among those who had misused Rx medication (20.9%) than those who had not misused Rx medication (19.4%).

Risk Perceptions and Attitudes

- Of LAC residents aged 12 or older, 69.0% perceived that it is a great risk for youth to misuse prescription medication 1-2 times per week (i.e., regular misuse).
- Of LAC residents aged 18 or older, 68.3% perceived that it is a great risk for adults to misuse prescription medication 1-2 times per week (i.e., regular misuse).
- PWMRx were less likely than non-PWMRx to perceive that regular Rx medication misuse is a great risk for youth (58.7% vs. 70.4%) and adults (57.0% vs. 70.2%).
- Of LAC residents aged 12 or older, 86.3% indicated that their close friends would disapprove of them misusing prescription medication. This perception of peer disapproval was more pronounced in non-PWMRx (88.8%) than in PWMRx (69.8%).
- Of LAC residents 12+ years of age, 14.0% indicated that they would either “agree” or “strongly agree” that it is okay to share used or expired (left-over) Rx medication with family or friends who need them.
- LAC residents aged 12 and older believed the best ways to dispose of unused Rx medication was to drop them off at drop-off locations or take-back events (34.0%) or at safe drug sheriff stations (26.4%). However, many believed that flushing them down the toilet (23.9%) and throwing them in the trash (23.4%) were the best ways to dispose of them.

[1] “PWMRx” indicates a person who has ever misused prescription medication.

Introduction

Purpose
The Community Needs Assessment (CNA) was a community-wide effort to address the current data gap for smaller regions, specific topics, and underrepresented demographic groups related to prescription (Rx) medication misuse and associated problems and perceptions, and to identify disparities and potential risk or protective factors to target communities in Los Angeles County (LAC). The CNA provides a comprehensive profile of substance use problems that will facilitate community prevention service providers, other stakeholders, and policymakers in making informed decisions about prioritizing problems, strategic planning, and resource allocation for implementing solutions to address the needs of the target communities.

CNA Workgroup
The CNA Workgroup was established to oversee and conduct the CNA, to ensure geographic and sociodemographic coverage, and to conduct the CNA in a culturally competent way throughout the process. The CNA Workgroup was comprised of representatives from the Health Outcomes and Data Analytics (HODA) Division and Prevention Services Division at the LAC Department of Public Health (DPH), Substance Abuse Prevention and Control (SAPC) Bureau, and SAPC-contracted community prevention service providers. The CNA Workgroup was led by HODA Division and worked closely together in the project conception, planning, survey design and development, pilot testing, community outreach, participant recruitment, and data collection.

Research Ethics
The CNA project was approved by the LAC DPH Institutional Review Board.

Adaptation of 2017 CNA
This survey tool was adapted from the first round of the CNA (2017) which included questions about Rx medication misuse and marijuana use. The current CNA tool preserved the wording of previous items as much as possible, while also revising and extending some items (e.g., attitudes about sharing Rx medication) and expanding the scope of the survey to also include questions about methamphetamine, alcohol, and heroin.

Survey Tool
The survey was a comprehensive 72-item questionnaire that included questions about a variety of substances including: methamphetamine, alcohol, heroin, marijuana, and prescription medications. Along with asking about usage behaviors, perceived accessibility and risk, the survey also included sociodemographic and geographic questions. Paper (about 20-30 minutes) and online Qualtrics (about 10-15 minutes) versions of the CNA were available in English, Spanish, Chinese, Korean, Armenian, and Khmer. Several questions on the youth survey (aged 12-17) were worded differently from the adult survey (aged 18+).

The misuse (i.e., non-medical use) of Rx medications was defined as any use of Rx medications without a doctor's prescription, in greater amounts than prescribed, more often than prescribed, or for any reason other than what the doctor prescribed them for. Prescription medications included pain killers (e.g., OxyContin, Vicodin, Percocet); sedatives (e.g., Benzodiazepine, Ambien, Xanax, Valium); and stimulants (e.g., Adderall, Ritalin, Concerta).

Introduction (Cont.)

Participant Recruitment
The prevention providers promoted the CNA efforts by mailing SAPC support letters to school administrators and community and business leaders, and by distributing flyers and delivering presentations to prevention agencies, community centers, public events, and other public places (e.g., libraries). In exchange for taking the survey, all participants were offered a $20 gift card to Amazon, Starbucks, Subway, or Target.

Data Collection
From August 2022 to February 2023, SAPC-contracted prevention service providers administered the survey to a diverse sample of youth and adult participants across LAC from a wide array of community settings, including schools, after-school programs, college campuses, shopping plazas, grocery stores, strip malls, coffee shops, parks, libraries, neighborhood council meetings, public and senior housing developments, churches, farmer's markets, health/resource fairs, health and social services waiting rooms, veteran/low-income housing, community events, government buildings, and YMCAs. Note that much of the youth data was collected outside of the school setting.

Population Weights
Sampling weights accounting for differences in the age, sex, race/ethnicity, and geographic distribution between the sample and population were calculated based on the LAC Internal Services Department's Population Estimates for LAC Tract-City and Countywide Statistical Area Splits (2022). These sampling weights were applied to the sample data to reduce sampling error and to produce estimates representative of the population. Sampling weights could not be calculated for demographic groups not available in the population data. Therefore, population estimates for some demographic groups, such as the transgender group, were not provided in this report. For SPA and SD population estimates, we allocated sample zip code data to respective SPA and SD based on the proportion of census block population distribution and subsequently calculated sampling weights.

Analytic Sample
After applying the exclusion criteria of individuals <12 years of age and individuals indicating a residency outside of Los Angeles County, we compiled our final sample of 9,221 surveys that were collected by SAPC-contracted prevention providers. Of those 9,221 surveys, records with missing values for any of the population weighting variables (i.e., age, sex, race/ethnicity, zip code) were excluded (N=1,098) from further analysis due to ineligibility for population weighting. The final analysis sample consisted of 8,123 surveys. All missing and unknown response values were excluded from individual calculations where applicable. Estimates with a large proportion of missing values for some categories (e.g., sexual orientation) should be interpreted with caution.

Statistical Methods
Estimates and their variances were calculated using statistical procedures PROC SURVEYFREQ and PROC SURVEYMEANS. Criteria for determining that the estimate is statistically stable included a relative standard error (RSE) less than 30% and a sample size for subgroup analyses ≥ 30.

Estimates that do not meet these statistical criteria may still be appropriate for planning or policy purposes. Thus, the minimum criteria for RSE were applied and estimates with RSE between

Introduction (Cont.)

30%-50% were reported with an asterisk and note[1]. The estimates with RSE greater than 30% and/or sample size < 30 were also not suppressed so that underrepresented populations could be visible in our data. Please interpret with caution. All RSEs were based on non-missing values.

Report Organization

This report provides an overview of the findings of the countywide CNA, including prevalence of prescription medication misuse; misuse behaviors; perceived risk, accessibility, and availability within LAC communities. Results are presented for LAC overall, geographic region (SPA and SD) and by demographics. Key findings are presented in the *Executive Summary* section, and a detailed summary of the findings are presented at the end of the report. Detailed result tables with confidence intervals for all items in the main report are presented in *Appendices A-O*. Statistically significant differences in the estimates between groups can be assessed by examining the confidence intervals; if they do not overlap then the difference is thought to be statistically significant.

Data for Native Hawaiian and other Pacific Islanders (NHOPI, N = 46), American Indian/Alaska Native (AI/AN, N = 39) and those indicating "Other" as their racial identity (N = 46) were presented only for prevalence indicators and excluded in all other instances due to the small numbers of respondents indicating they had ever misused prescription medication (N < 15), which was required for most downstream questions. This cutoff was determined via a data-driven approach.

Despite the exclusion, we acknowledge the significance of data pertaining to AI/AN, NHOPI, and "Other race" communities for program and policy planning purposes. As such data for these groups are available upon request.

Limitations of CNA

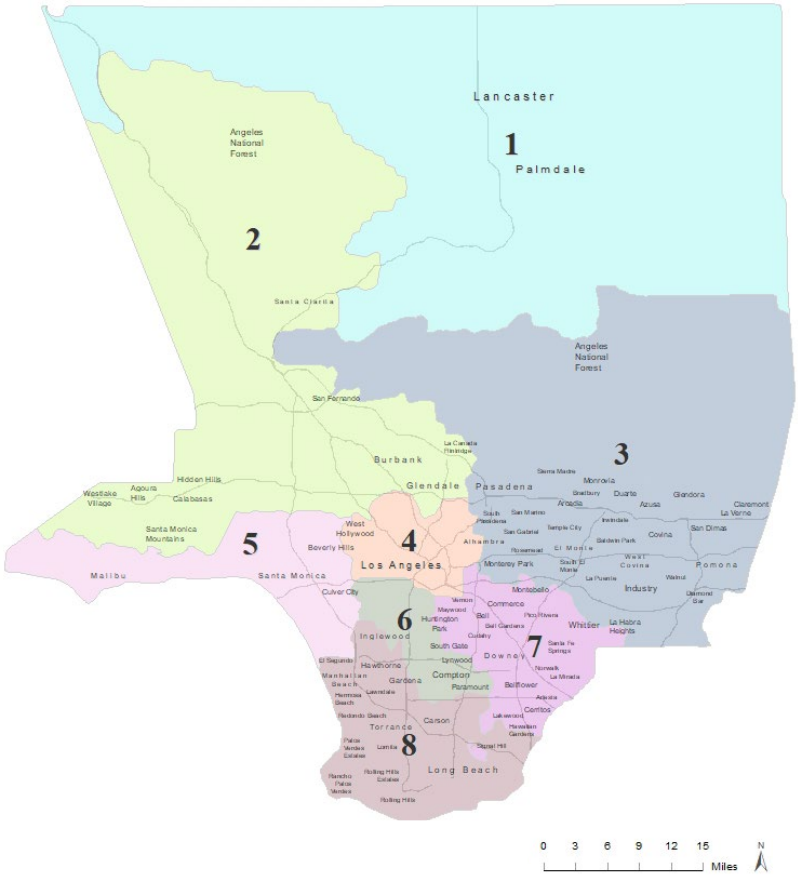
The convenience sampling method may not result in a representative sample of the general LAC population. Non-response bias may be present. All data collected were self-reported, which may not accurately reflect actual misuse, related behaviors, or perceptions. Thus, the results should be interpreted with caution.

[1] Utah Department of Health. (2005). *Report of Guidelines for Data Result Suppression.* https://ibis.health.utah.gov/ibisph-view/pdf/resource/DataSuppression.pdf

Los Angeles County

Service Planning Areas

Los Angeles County (LAC) has been divided into 8 Service Planning Areas (SPA) due to its large size. The Department of Public Health (DPH) develops and provides relevant public health and clinical services targeted to the specific health needs of the residents in these geographic areas.

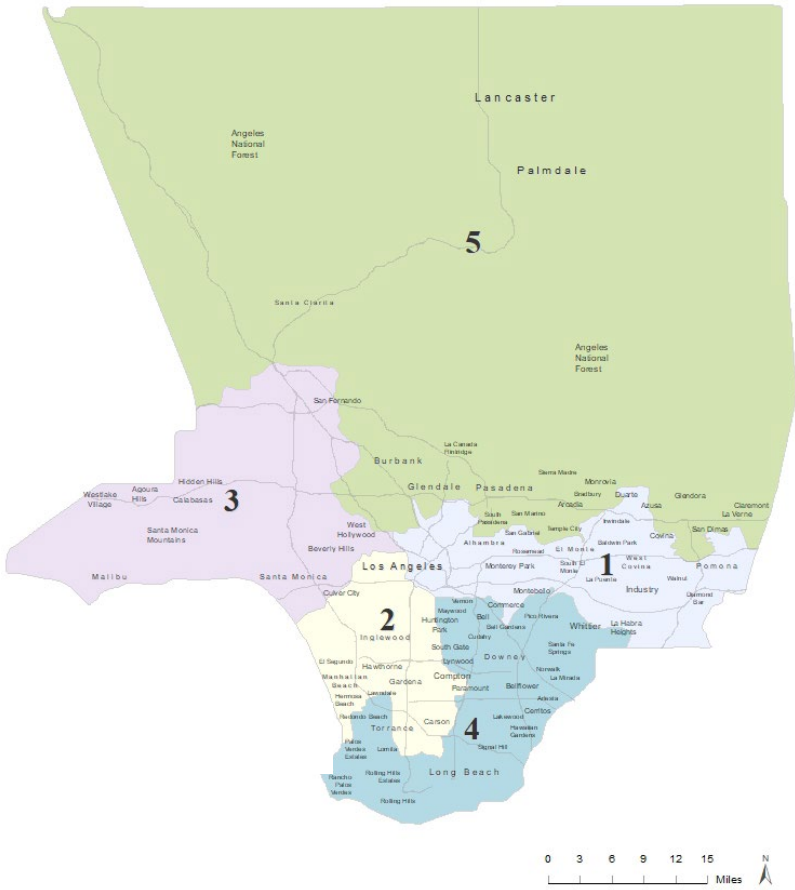


Population (12+), 2022

SPA 1:	347,020	SPA 4:	981,527	SPA 7:	1,087,783
SPA 2:	1,891,979	SPA 5:	586,873	SPA 8:	1,319,956
SPA 3:	1,516,952	SPA 6:	837,922		

Supervisorial Districts

Los Angeles County (LAC) is divided into 5 Supervisorial Districts (SD), with each County Supervisor representing a district of approximately 2 million people.

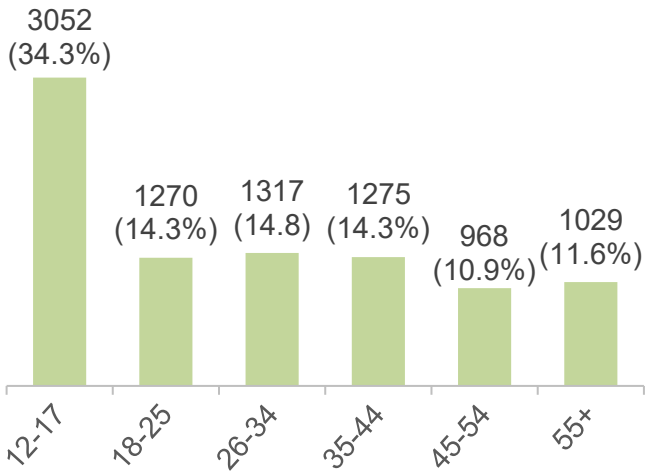


SD 1:	1,695,444	SD 4:	1,770,973
SD 2:	1,690,296	SD 5:	1,634,836
SD 3:	1,778,463		

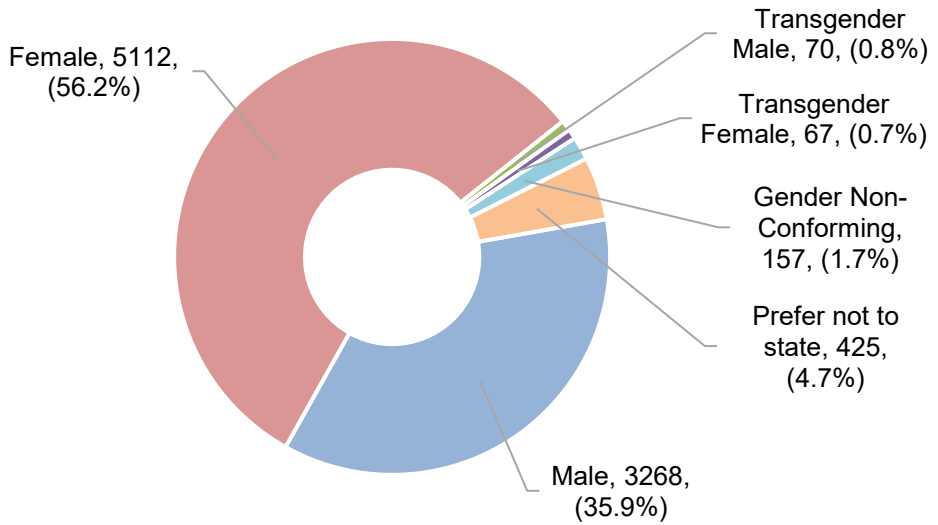
Population data citation: County of Los Angeles, Internal Services Department, Information Technology Service, Urban Research-GIS Section, July 1, 2022, Population Estimates (provisional) for Los Angeles County Tract-City and Countywide Statistical Area Splits by Age, Sex and Race/Ethnicity, Los Angeles, CA, March 2023. SPA and SD geographies integrated in by Population Health Assessment Team, Office of Health Assessment and Epidemiology. The population of 12 years and above processed by GIS section, Health Outcomes and Data Analytics (HODA) at SAPC.

Sample Demographics (N=9,221)

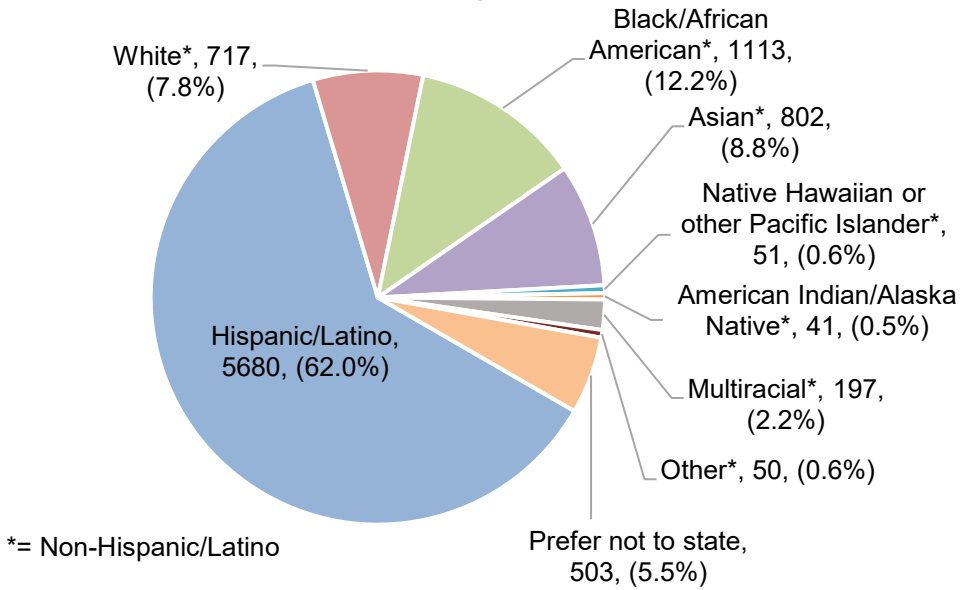
Age (years)



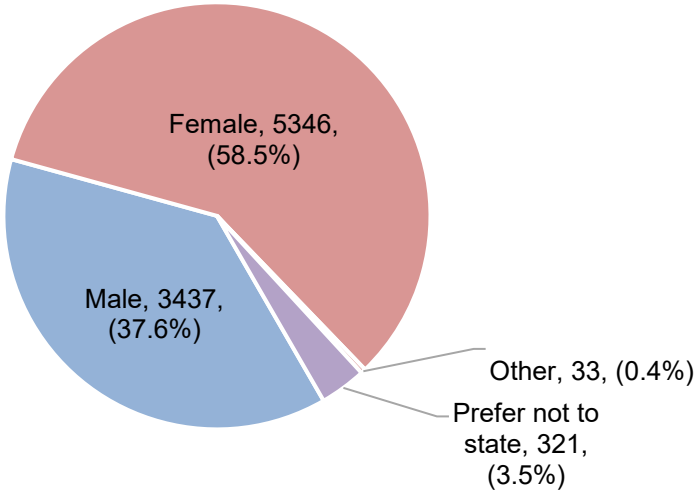
Gender Identity



Race/Ethnicity



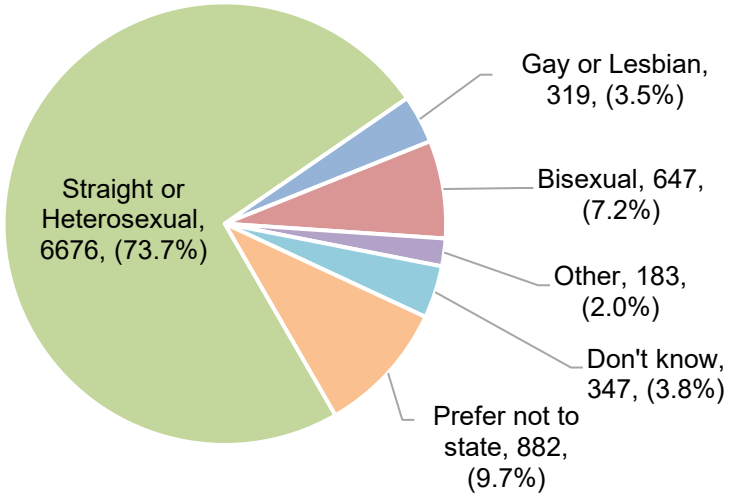
Sex at Birth



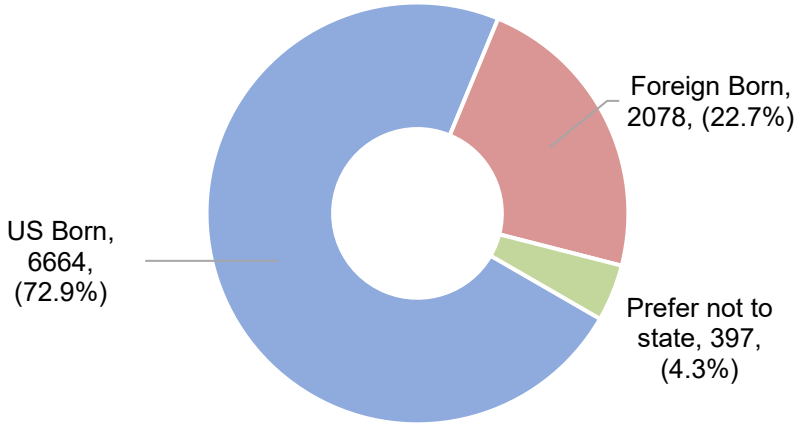
Notes: "Multiracial" indicates that more than one race was selected.
Since gender identity (including "transgender") information was not available for sampling weights, sex was used in subsequent analyses. In addition, records with missing values on any of the weighting variables (i.e., age, sex, race/ethnicity, zip code) were excluded (N= 1,098) in the final analysis sample (N = 8,123). Please refer to Appendix A for the demographics of the final analysis sample.

Sample Demographics (Cont.)

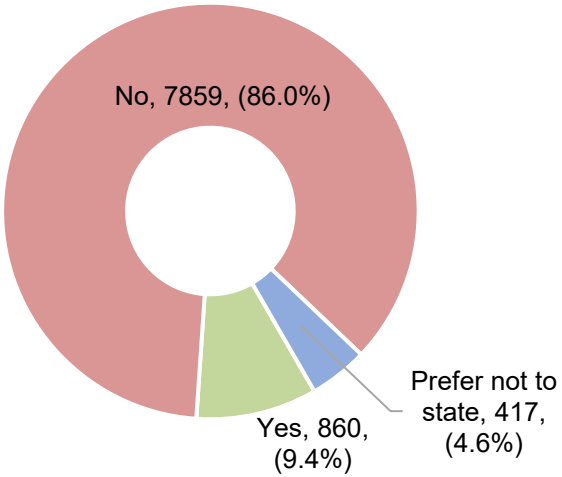
Sexual Orientation



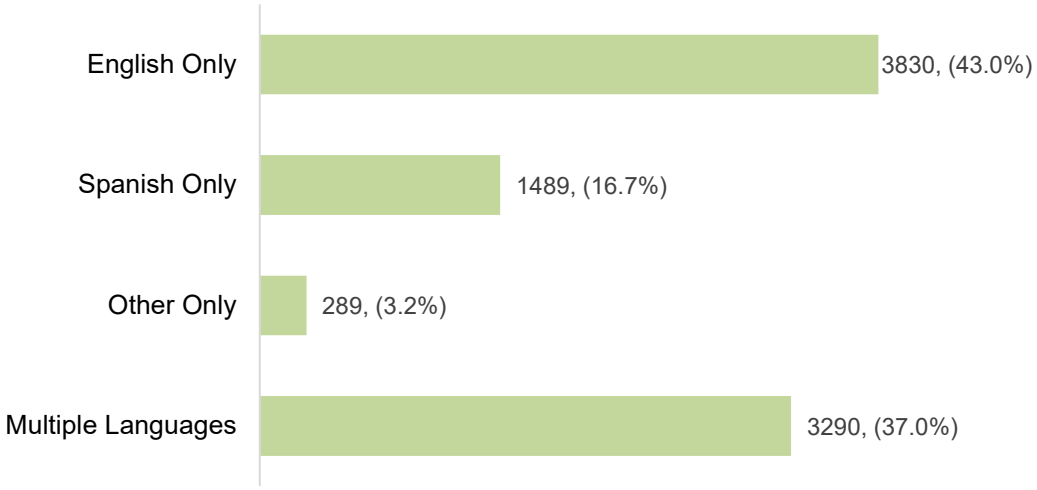
Nativity



Homeless in Past Year



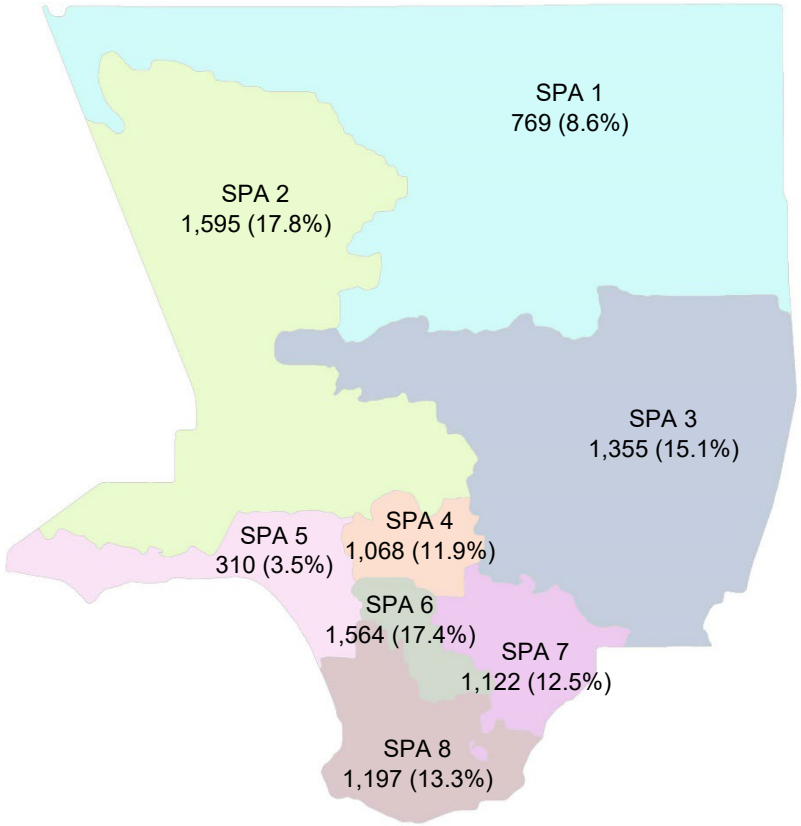
Language(s) Spoken at Home



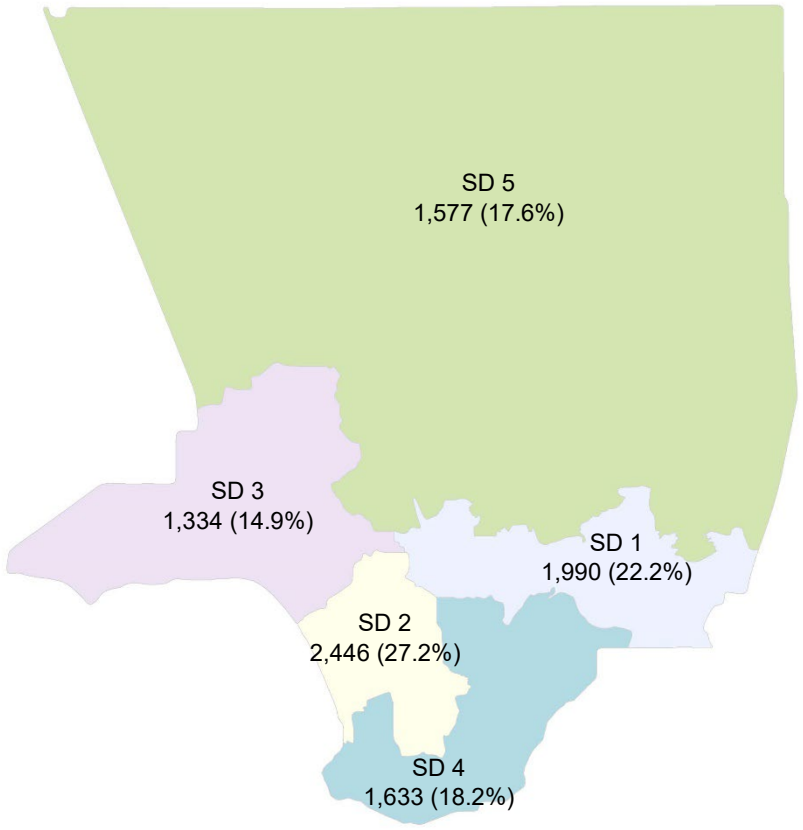
Notes: Records with missing values on any of the weighting variables (i.e., age, sex, race/ethnicity, zip code) were excluded (N= 1,098) in the final analysis sample (N = 8,123).
Please refer to Appendix A for the demographics of the final analysis sample.

Geographic Distribution of Sample (N=8,980)

Service Planning Area (SPA)



Supervisorial District (SD)



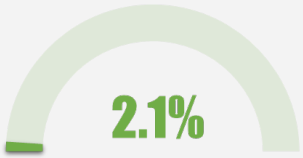
N=8,980 (97.4% of total sample)

Notes: We allocated sample zip code data to respective SPA and SD based on the proportion of census block population distribution. 97.4% of respondents (N=8,980) provided their current residence zip codes. Please refer to Appendix A for the geographic distribution of the final analysis sample.

Prevalence of Rx Medication Misuse

Ever misused Rx medication (%Yes)

Misused Rx medication in the **past 30 days** (%Yes)



Area	% Lifetime Misuse	% Current Misuse
Service Planning Area (SPA)		
SPA 1	11.0	2.9
SPA 2	13.1	1.3*
SPA 3	10.7	1.7
SPA 4	13.0	2.5*
SPA 5	10.4	2.6*
SPA 6	14.3	3.3
SPA 7	15.4	1.8*
SPA 8	8.7	1.6*
Supervisorial District (SD)		
SD 1	10.9	1.9
SD 2	13.2	3.0
SD 3	13.3	1.6
SD 4	13.3	1.8
SD 5	12.3	2.0

Notes: Data for Native Hawaiian or other Pacific Islanders (NHOPI), American Indian/Alaska Natives (AI/AN) and "Other" are reported here but are subsequently excluded for all other variables due to small sample size of those indicating lifetime misuse of prescription Rx (N < 15).
"Other" sexual orientation includes "other" and "prefer not to answer".
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE >50%);
Interpret with caution.

Figure 1. Lifetime Misuse of Prescription Medication by Demographics

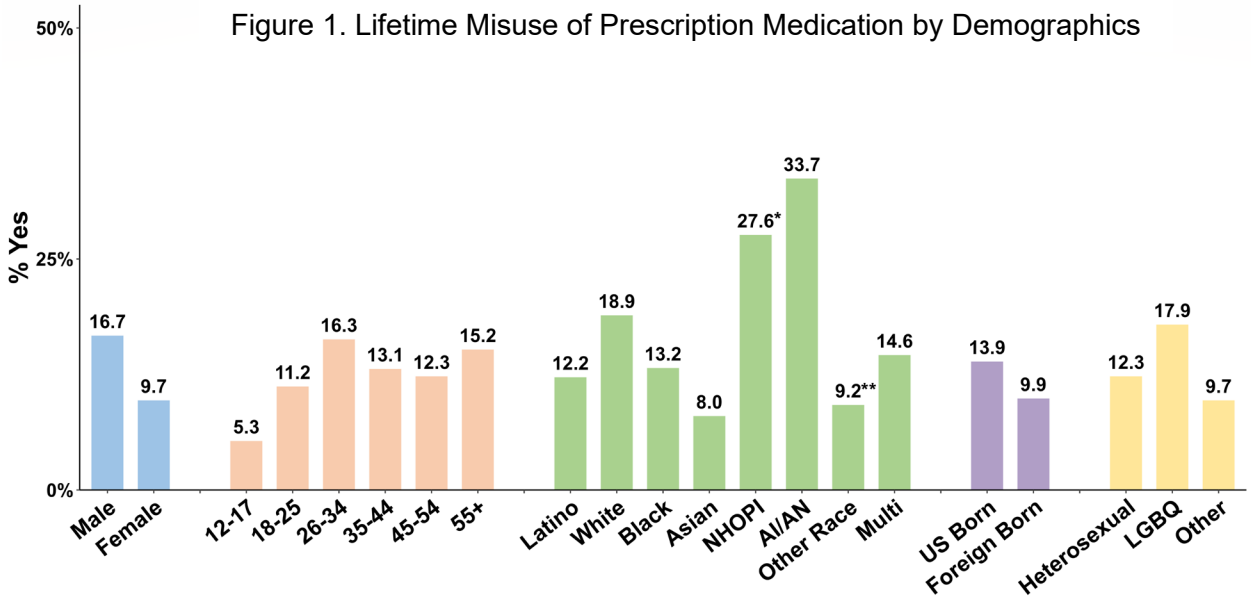
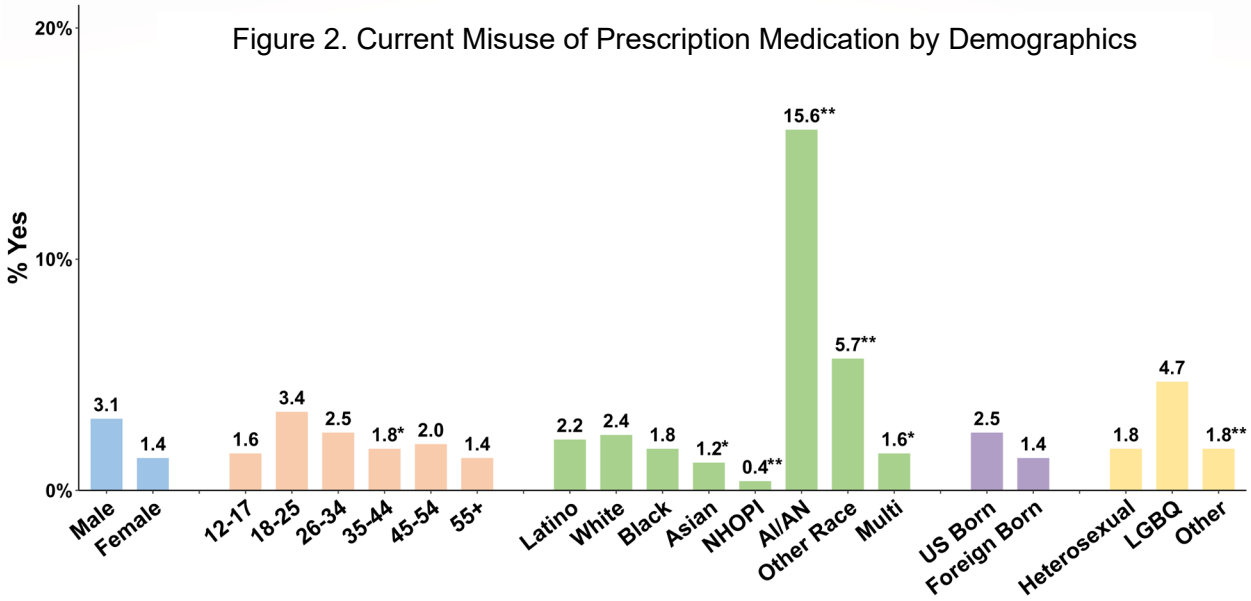


Figure 2. Current Misuse of Prescription Medication by Demographics



Sex	Age	Race/Ethnicity	Nativity	Sexual Orientation

On average, those who misused Rx medication in the past month did so for 9 days out of 30. (Frequency of misuse by demographics not presented in figures due to small sample size).

Age of Initiation

How old were you when you **first misused** Rx medication?

Mean Age of Initiation **21 Years**

% Misused Before Age 18 **38.1%**

Area	Average Age	% Misused Before Age 18
Service Planning Area (SPA)		
SPA 1	19	40.8
SPA 2	22	29.6
SPA 3	18	47.1
SPA 4	21	43.1
SPA 5†	19	43.9*
SPA 6	21	42.9
SPA 7	22	28.5
SPA 8	20	49.1
Supervisorial District (SD)		
SD 1	18	50.9
SD 2	21	44.6
SD 3	23	27.7
SD 4	22	27.4
SD 5	19	44.4

Notes: Only those who had ever misused Rx medication were asked this question.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
† The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 3. Age of Initiation by Demographics

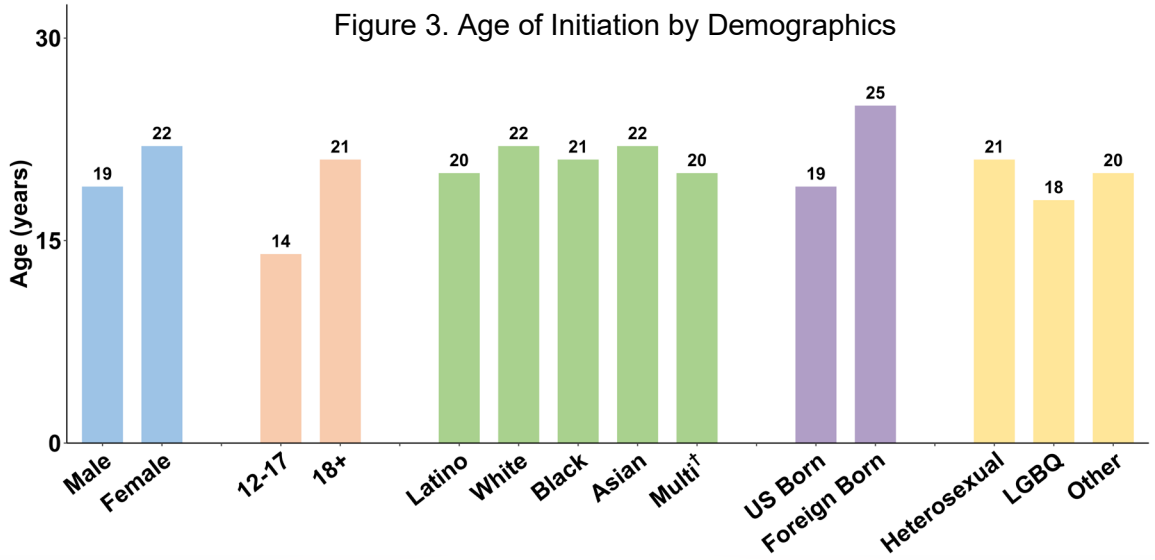
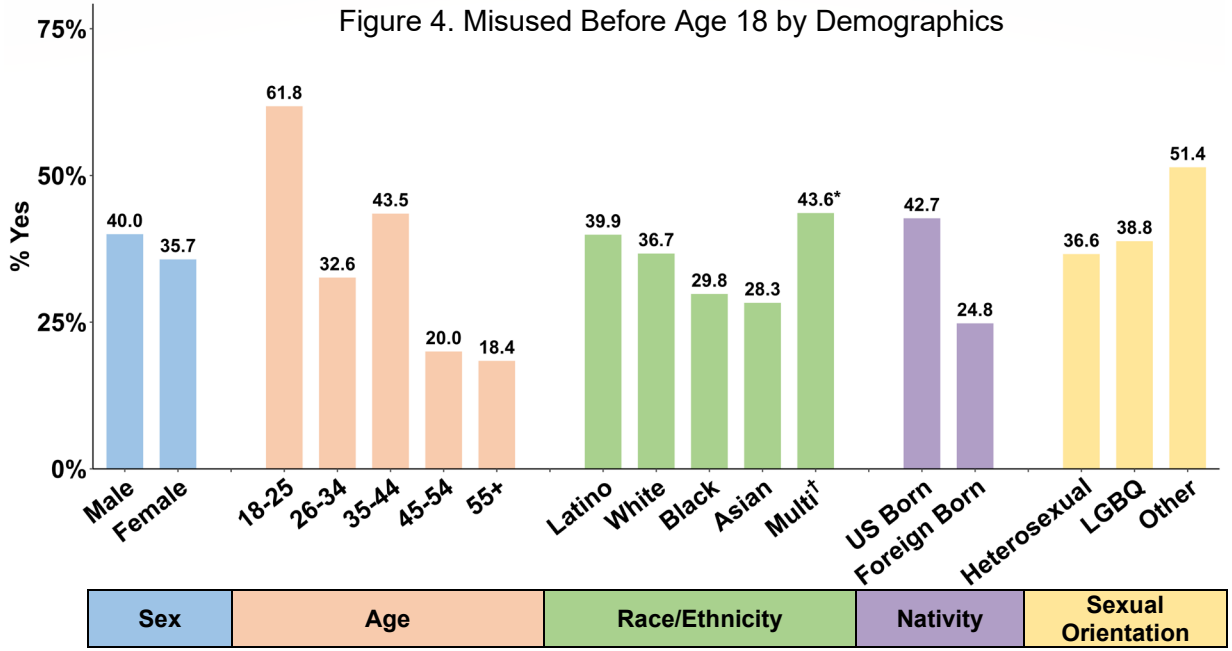
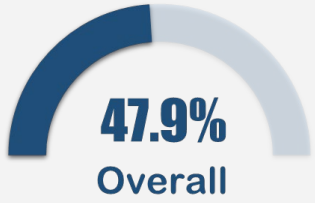


Figure 4. Misused Before Age 18 by Demographics



Easy Access

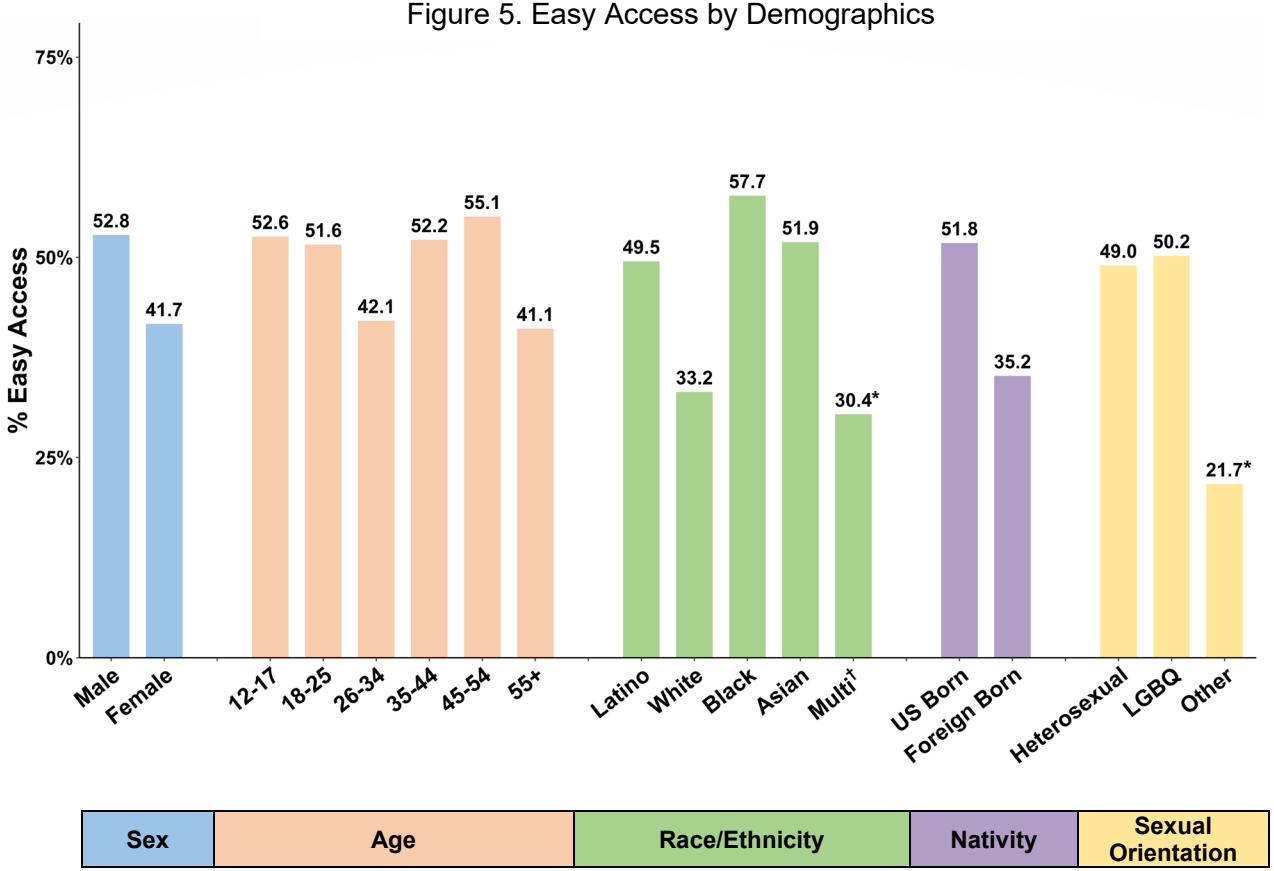
How **easy** is it for **you** to get Rx medication without a prescription? (%Easy)



Area	% Easy Access
Service Planning Area (SPA)	
SPA 1	54.3
SPA 2	36.6
SPA 3	42.3
SPA 4	41.5
SPA 5ǂ	54.7
SPA 6	58.9
SPA 7	50.4
SPA 8	48.7
Supervisorial District (SD)	
SD 1	44.0
SD 2	56.2
SD 3	34.4
SD 4	50.7
SD 5	49.8

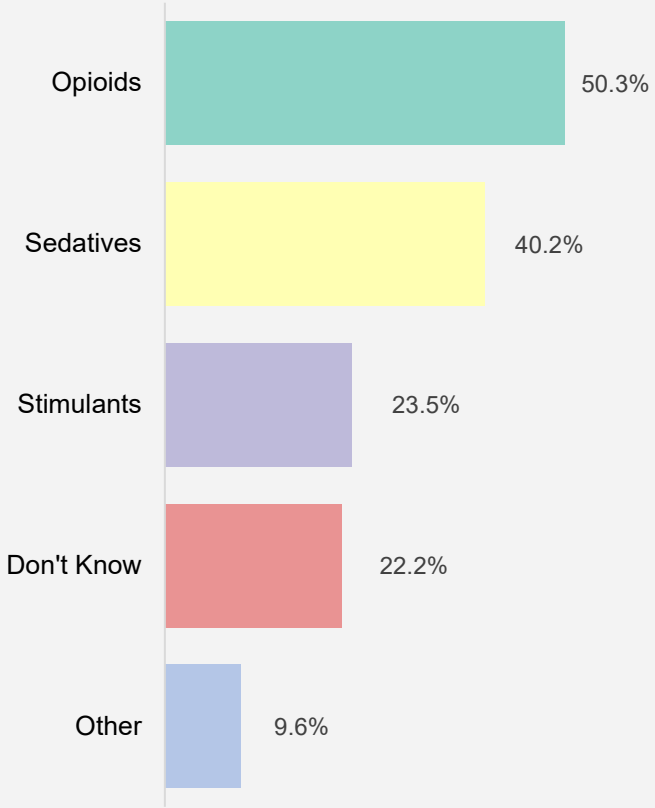
Notes: Only those who had ever misused Rx medication were asked this question.
Easy Access includes response options “Very Easy” and “Somewhat Easy”.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 5. Easy Access by Demographics



Type of Rx Medication Misused

What type of prescription medication‡ have you ever misused? (%)



Notes: Only those who had ever misused prescription medication were asked this question. Respondents selected all choices that applied.
‡Opioids include OxyContin, Vicodin, and Demerol.
Sedatives include Xanax, Valium, and Ativan.
Stimulants include Adderall, Ritalin, and Dexedrine.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
**The estimate is statistically unstable (RSE >50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

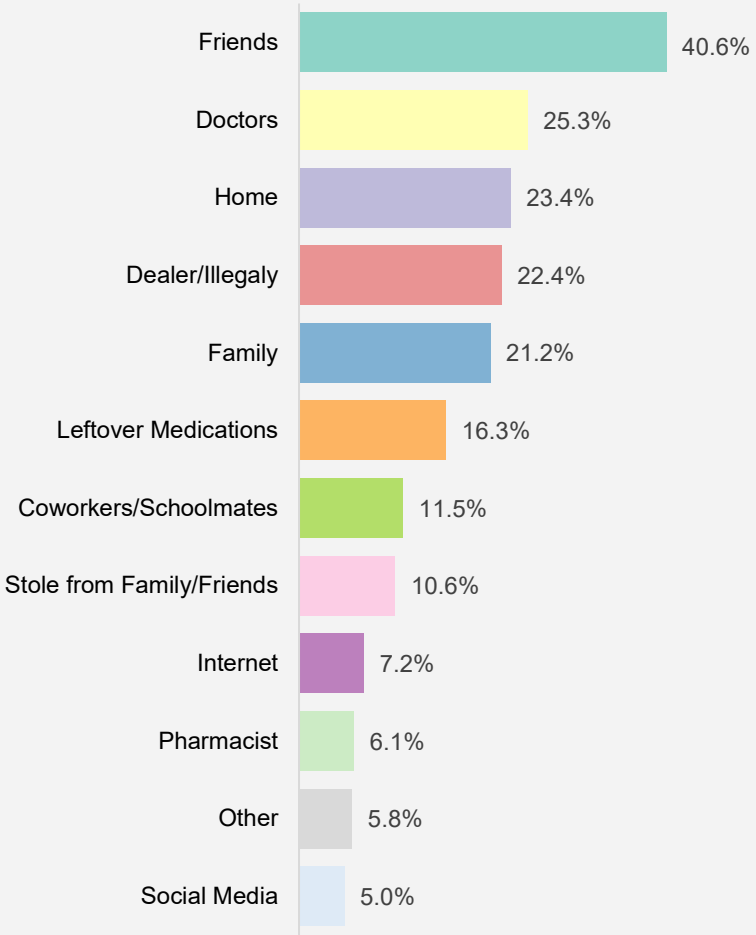
Table 1. Common Prescription Medications Misused by Demographics

Opioids | Sedatives | Stimulants | Don't Know | Other

	Most Common Prescription Medication Misused (%)				
	1st	2nd	3rd	4th	5th
Sex					
Male	57.6	38.3	20.0	19.9	8.4
Female	42.7	40.5	28.3	25.2	11.1
Age					
12-17	45.0	35.0	32.0	20.2	7.6*
18-25	44.9	37.5	26.6	23.4	11.8*
26-34	46.8	44.5	35.1	22.6	10.7*
35-44	71.1	43.9	25.2	12.3	8.9*
45-54	70.9	30.7	15.6*	11.3*	10.1*
55+	36.9	32.0	31.9	9.9*	7.0*
Race/Ethnicity					
Latino	46.1	35.4	24.9	21.5	11.4
White	62.6	60.2	33.1	13.0*	5.0*
Black	58.8	32.6	19.4*	9.7*	3.5*
Asian	54.3	52.3	42.8	21.8*	9.7**
Multiǂ	59.8	58.5	45.3*	10.7**	6.8**
Nativity					
US Born	56.0	43.8	27.0	16.8	8.6
Foreign Born	34.3	31.9	31.4	15.5	9.6*
Sexual Orientation					
Heterosexual	53.1	41.0	22.3	21.8	6.7
LGBQ	48.8	41.9	31.2	18.1	17.0*
Other	35.8	22.4*	21.9*	20.5**	10.4*

Source of Rx Medication Misused

Where did/do you obtain prescription medication that you have misused? (%)



Notes: Only those who had ever misused prescription medication were asked this question. Respondents selected all choices that applied.
Adult surveys included the option of "coworkers", while youth surveys included the option "schoolmates".
"Other" responses included "Prison", "Streets", "Mexico", "Prefer not to state", etc.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE >50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

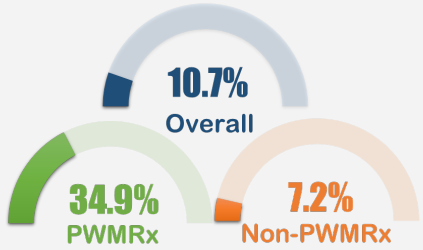
Table 2. Source of Prescription Medication Misused by Demographics

Friends	Doctors	Home	Dealer	Family	Leftover	Work/ School	Stole	Internet	Pharmacy	Other	Social Media

	Most Common Sources (%)						
	1st	2nd	3rd	4th	5th	6th	7th
Sex							
Male	39.3	26.0	24.2	22.3	19.4	13.6	11.5
Female	42.4	26.7	24.8	23.4	22.6	17.6	11.4
Age							
12-17	32.1	25.2	22.2	15.8	15.0*	14.4*	14.2*
18-25	31.0	27.2	25.7	19.0	16.6	16.5	13.4*
26-34	56.5	22.3	19.2	18.5	17.3	15.3	12.1*
35-44	37.9	32.0	31.7	30.2	22.3	21.5	18.5
45-54	42.4	33.5	29.8	27.2	23.8	15.0*	14.6*
55+	36.7	33.0	18.8	17.5	9.6*	7.6*	7.1**
Race/Ethnicity							
Latino	37.2	23.6	22.0	21.5	19.3	13.6	11.6
White	57.3	42.3	32.6	27.6	23.9	22.9	17.4
Black	44.2	21.1*	19.8*	19.5	16.1*	13.9*	7.6*
Asian	29.8	27.4	26.0	25.7	19.1*	17.4*	13.5**
Multiǂ	55.4	50.4	44.2	33.7*	28.2*	24.5**	22.8*
Nativity							
US Born	44.3	25.4	24.3	22.5	22.0	17.7	12.9
Foreign Born	28.0	27.9	26.5	18.4	12.4*	11.5	8.6*
Sexual Orientation							
Heterosexual	42.6	26.8	24.0	21.8	20.8	16.4	11.1
LGBQ	39.6	24.0	23.7	18.9	17.8	16.9	16.6*
Other	43.1	21.4*	21.2*	17.1*	14.7**	12.0*	11.0*

Rx Misuse Among Close Friends

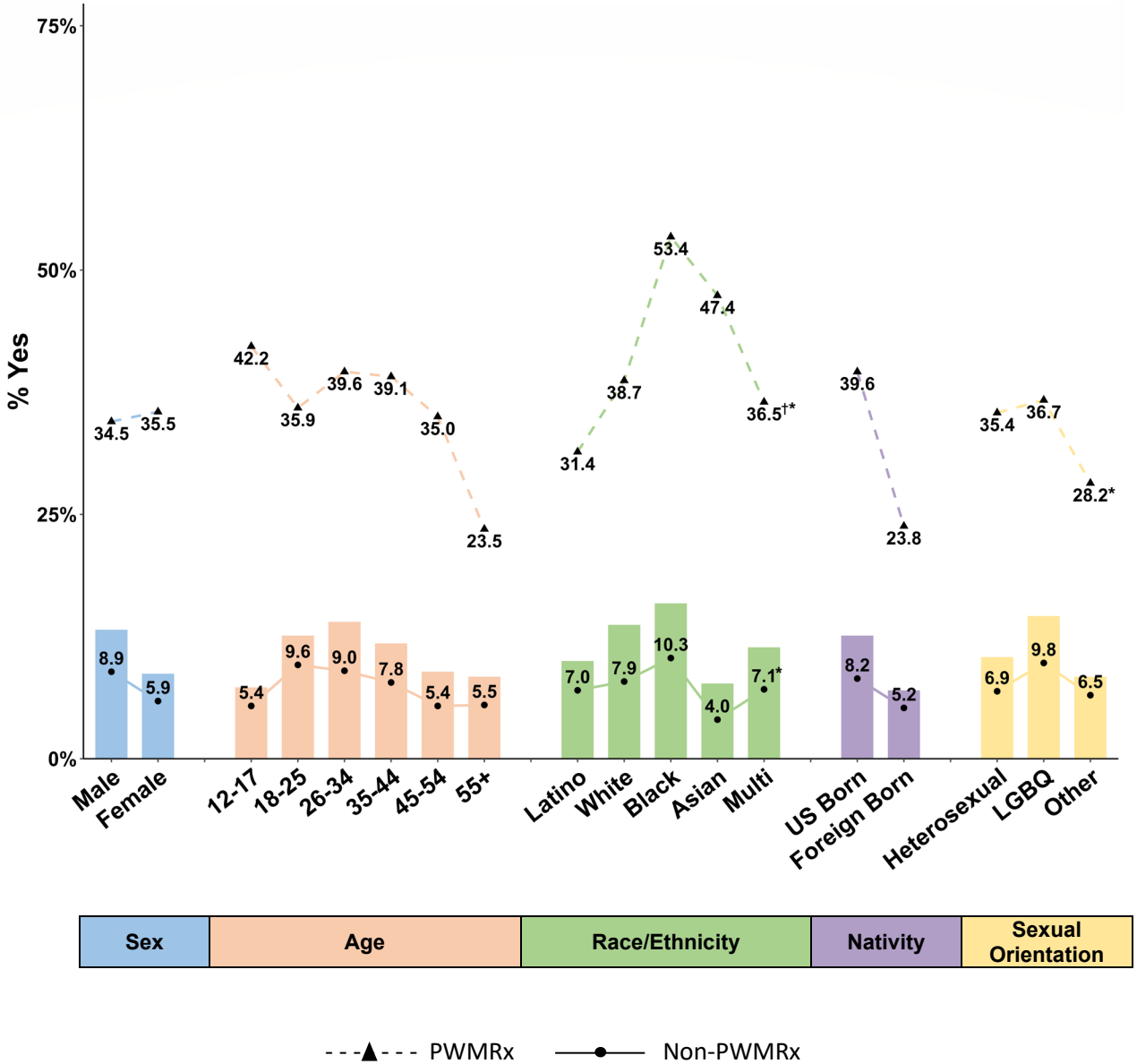
Do any of your **close friends** misuse prescription medication? (%Yes)



Area	Close Friends Misuse		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	10.6	39.1	7.1
SPA 2	10.3	30.3	7.3
SPA 3	11.5	41.8	7.9
SPA 4	12.9	34.7	9.5
SPA 5	16.9	78.4ǂ	9.8*
SPA 6	10.8	39.3	6.2
SPA 7	9.4	28.1	6.1
SPA 8	8.8	29.9	6.8
Supervisorial District (SD)			
SD 1	11.4	41.4	7.6
SD 2	11.0	38.1	7.0
SD 3	11.9	33.5	8.5
SD 4	8.3	24.9	5.8
SD 5	11.8	41.7	7.6

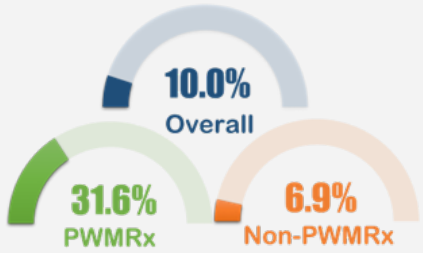
Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE > 50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 6. Prescription Medication Misuse Among Close Friends by Demographics



Rx Misuse Among Family Members

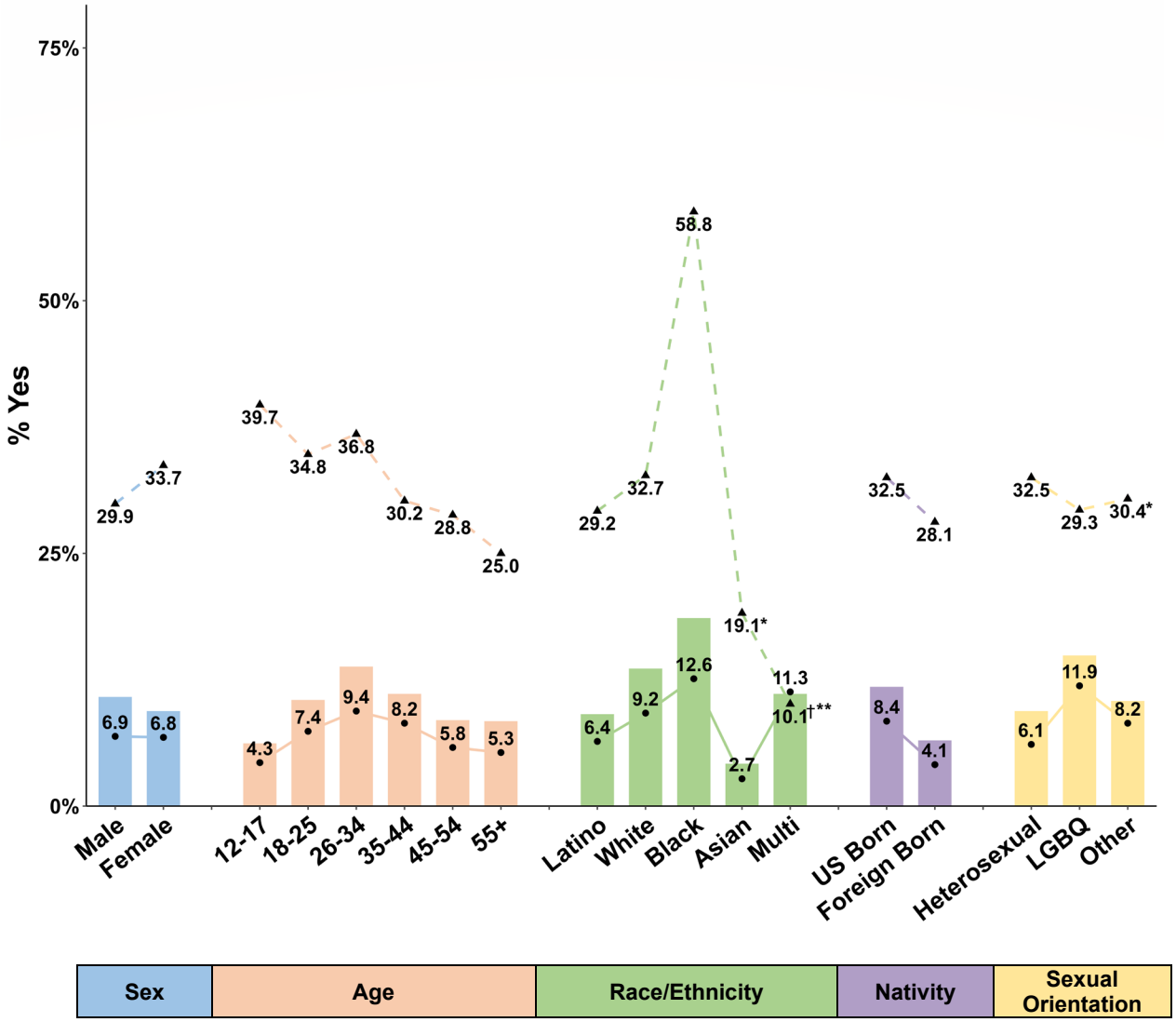
Do any of your **family members** misuse prescription medication? (%Yes)



Area	Family Members Misuse		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	12.3	35.5	9.4
SPA 2	8.7	28.2	5.7
SPA 3	9.8	30.3	7.4
SPA 4	8.5	20.9	6.4
SPA 5	11.0	41.0ǂ*	7.5*
SPA 6	10.1	35.6	5.9
SPA 7	11.6	33.0	7.9
SPA 8	9.4	35.9	6.8
Supervisorial District (SD)			
SD 1	9.5	26.6	7.4
SD 2	9.9	34.8	6.2
SD 3	8.3	23.1	6.0
SD 4	10.1	33.3	6.6
SD 5	13.1	41.3	9.1

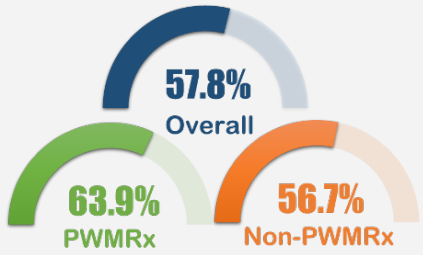
Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE > 50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 7. Prescription Medication Misuse Among Family Members by Demographics



Perceived Easy Access

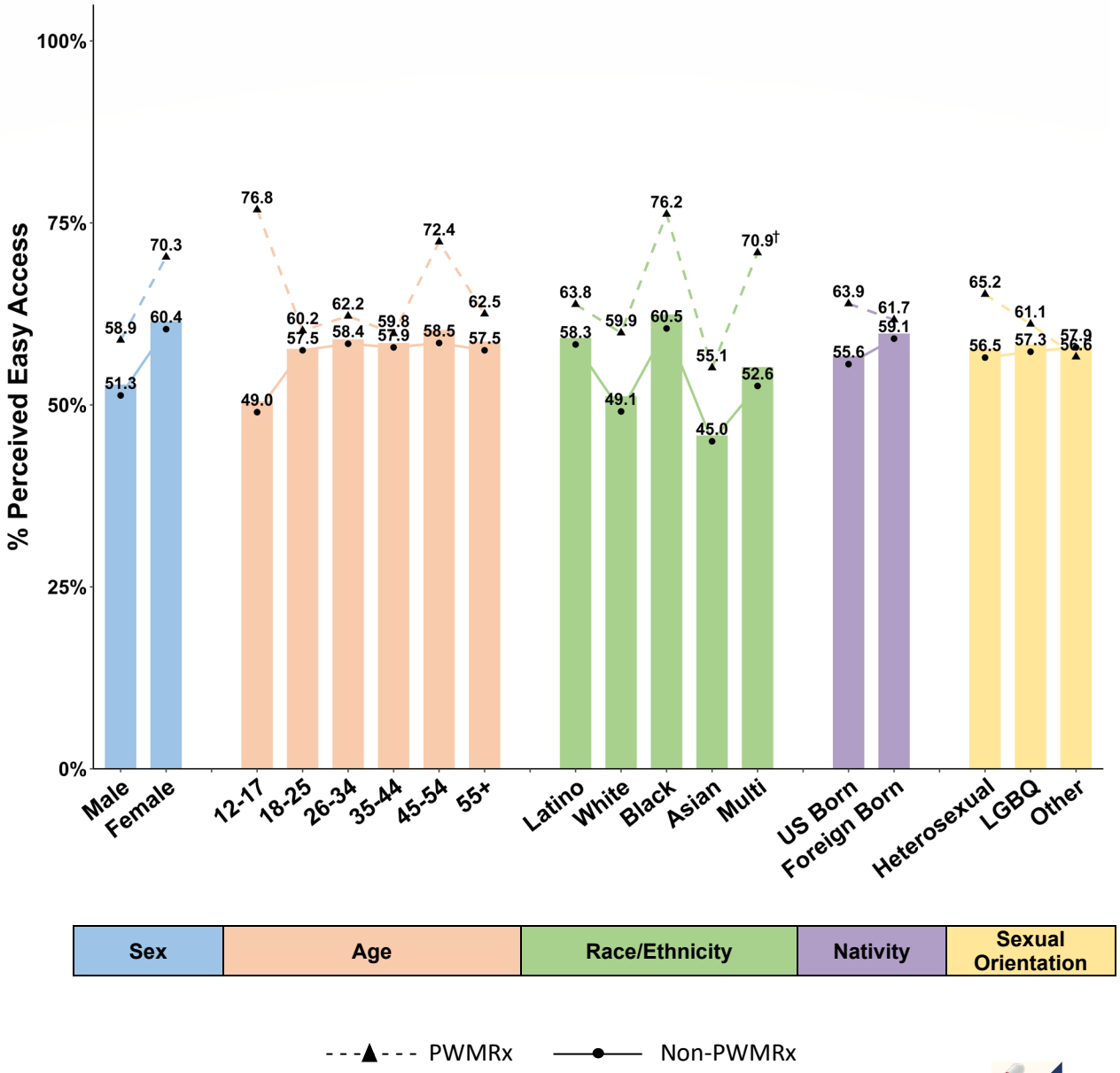
How **easy** would it be for **someone** to get Rx pain relievers on the street around your neighborhood? (%Easy)



Area	% Perceived Easy Access		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	56.1	73.7	54.0
SPA 2	52.0	58.8	50.9
SPA 3	57.8	55.4	58.2
SPA 4	63.9	61.2	63.6
SPA 5	52.2	76.6ǂ	49.3
SPA 6	61.2	71.4	59.5
SPA 7	60.7	63.3	59.8
SPA 8	53.2	64.3	52.0
Supervisorial District (SD)			
SD 1	61.5	61.6	61.4
SD 2	59.2	70.5	57.3
SD 3	53.5	60.6	52.3
SD 4	58.2	61.4	57.3
SD 5	53.2	62.8	51.8

Notes: Easy access included response options “very easy” and “somewhat easy”.
PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 8. Perceived Easy Access to Prescription Medication by Demographics



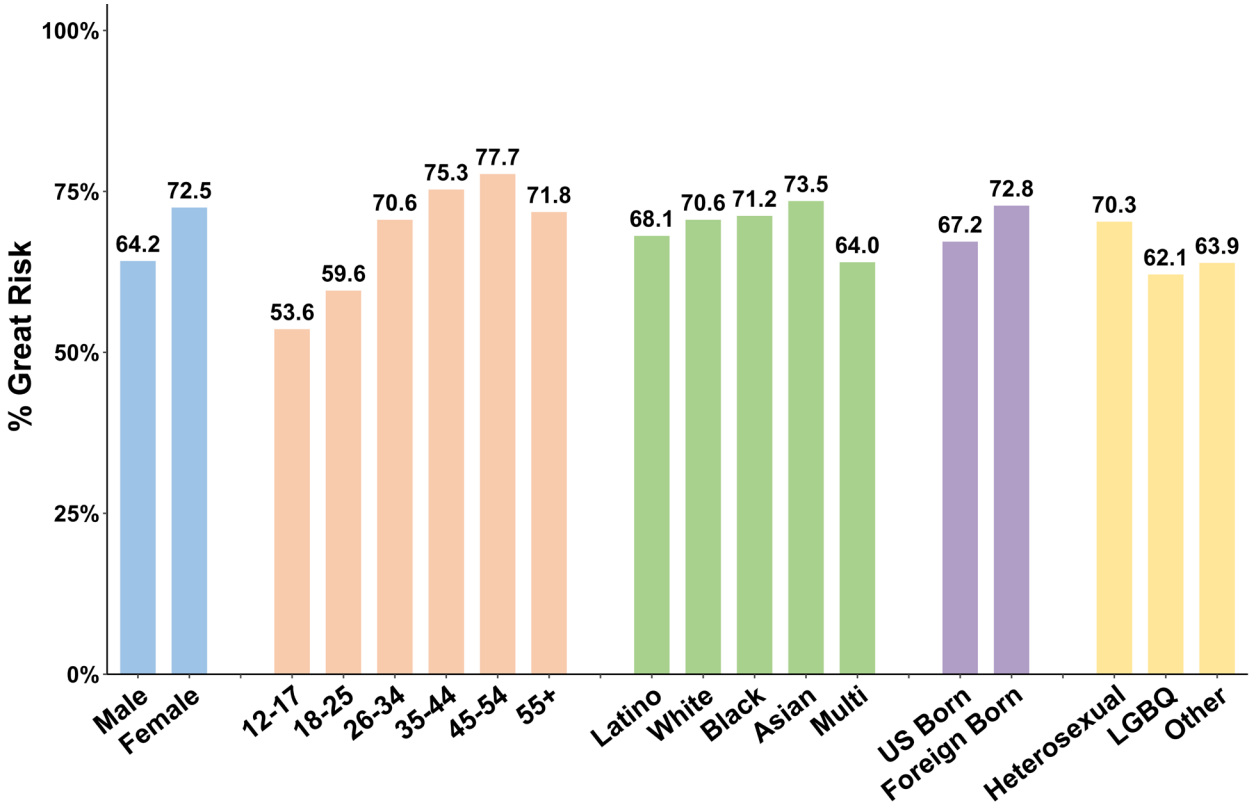
Perceived Risk of Youth Harm

How much do you think **youth risk** harming themselves if they misuse Rx medication regularly**? (%Great Risk)

Area	% Great Risk
Service Planning Area (SPA)	
SPA 1	67.9
SPA 2	70.0
SPA 3	72.3
SPA 4	62.9
SPA 5	73.0
SPA 6	68.9
SPA 7	64.9
SPA 8	74.5
Supervisorial District (SD)	
SD 1	67.5
SD 2	68.9
SD 3	69.4
SD 4	68.8
SD 5	71.6

Notes: **Regular Rx medication misuse was defined as misusing Rx medication at least once or twice a week. Risk perception by misuse history is available in the Appendix J.

Figure 9. Perceived Great Risk of Youth Misusing Prescription Medication Regularly by Demographics



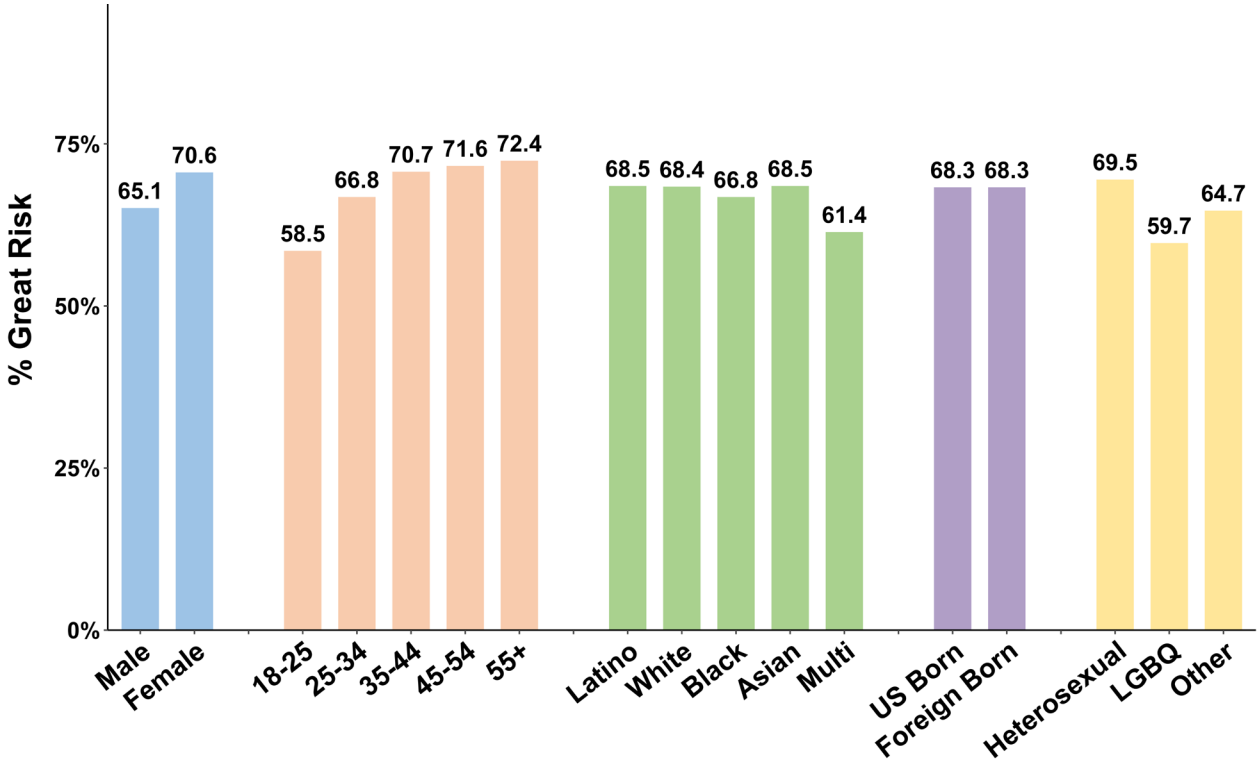
Perceived Risk of Adult Harm

How much do you think **adults risk** harming themselves if they misuse Rx medication regularly**? (%Great Risk)

Area	% Great Risk
Service Planning Area (SPA)	
SPA 1	71.9
SPA 2	65.8
SPA 3	71.0
SPA 4	67.8
SPA 5	70.6
SPA 6	68.5
SPA 7	66.3
SPA 8	69.6
Supervisorial District (SD)	
SD 1	66.9
SD 2	68.4
SD 3	66.8
SD 4	68.8
SD 5	72.0

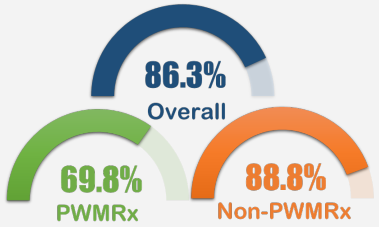
Notes: **Regular Rx medication misuse was defined as misusing Rx medication at least once or twice a week. Only adult surveys (age 18+) included this question Risk perception by misuse history is available Appendix K.

Figure 10. Perceived Great Risk of Adults Misusing Prescription Medication Regularly by Demographics



Perceived Peer Disapproval

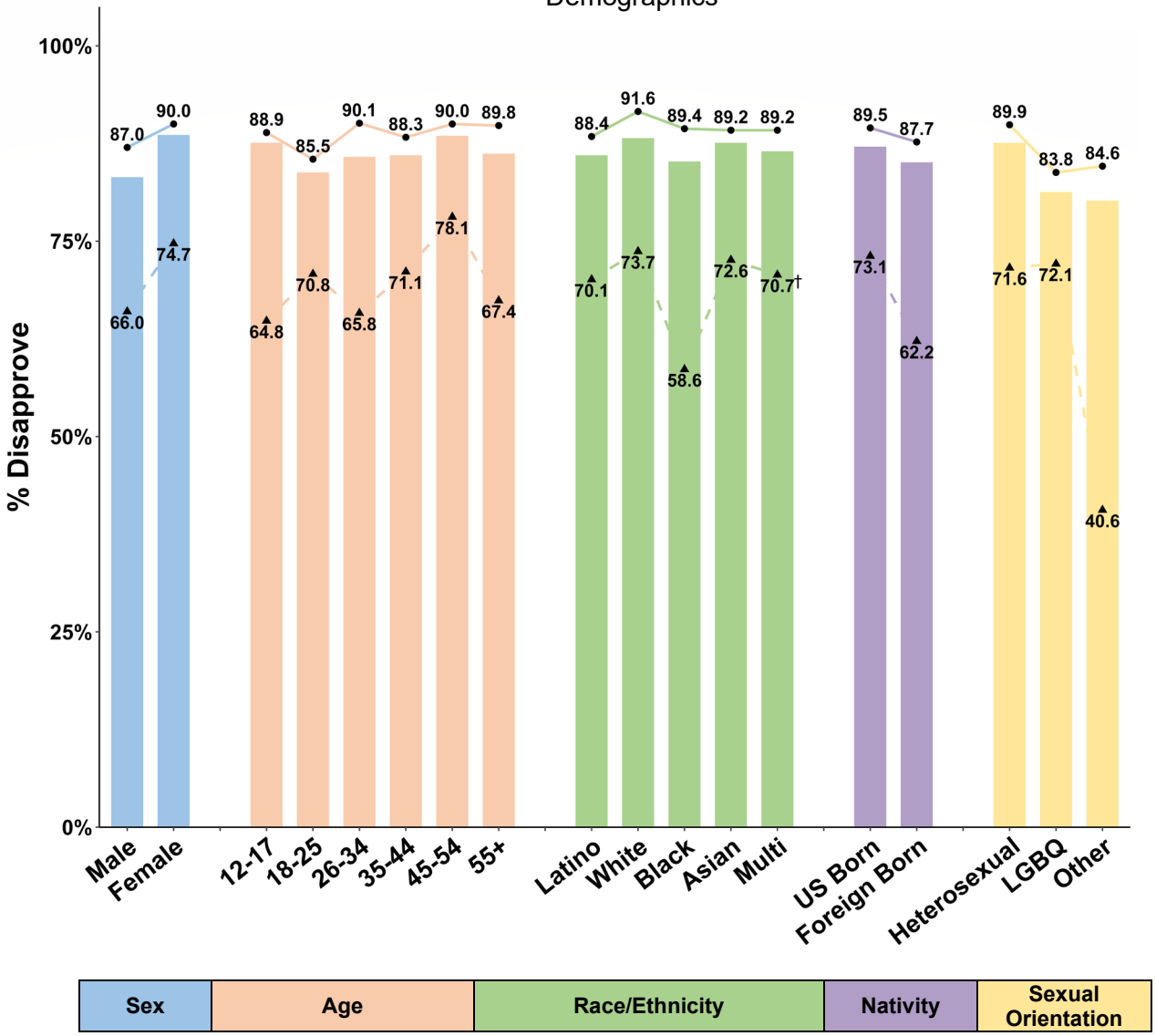
How would your close friends feel if **you** misused prescription medication? (%Disapprove)



Area	% Perceived Disapproval		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	83.1	50.1	87.2
SPA 2	85.9	70.6	88.2
SPA 3	90.3	73.0	92.4
SPA 4	85.5	65.5	89.0
SPA 5	92.5	86.4ǂ	93.2
SPA 6	84.2	66.8	87.2
SPA 7	85.6	72.1	87.9
SPA 8	87.1	77.1	88.6
Supervisorial District (SD)			
SD 1	88.8	73.3	90.6
SD 2	84.9	67.3	88.2
SD 3	86.0	70.0	88.5
SD 4	85.7	72.9	87.7
SD 5	86.3	62.9	89.6

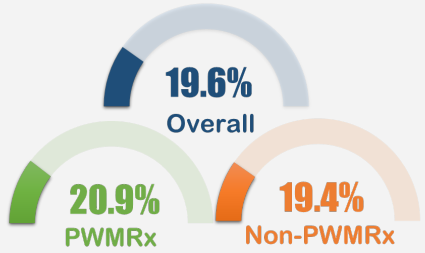
Notes: Disapproval included response options “strongly disapprove” and “disapprove”.
PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Figure 11. Friends Would Disapprove of You Misusing Prescription Medications by Demographics



Unused Rx Medication

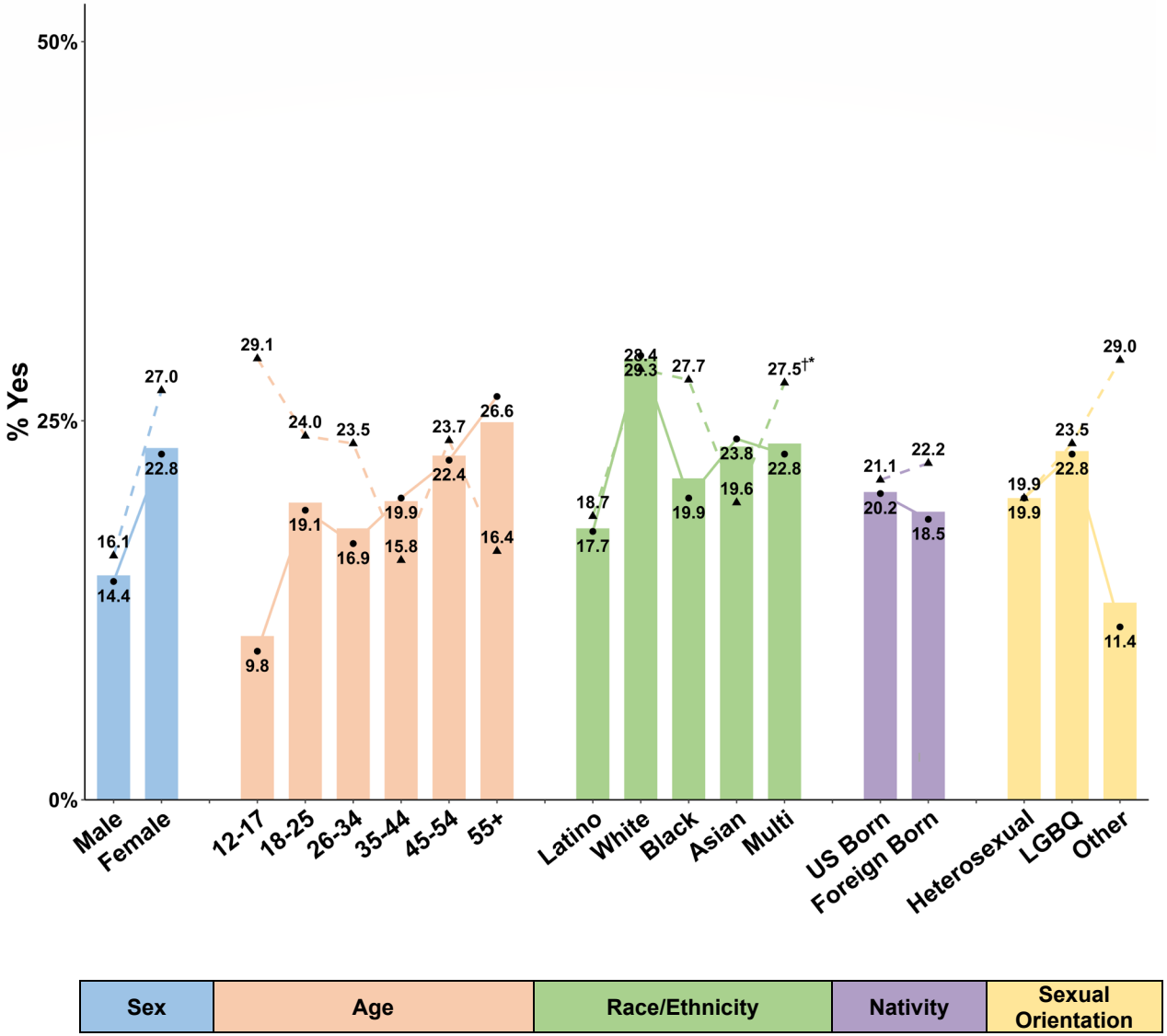
Do you **currently** have **unused or expired** (left-over) Rx medication where you live? (%Yes)



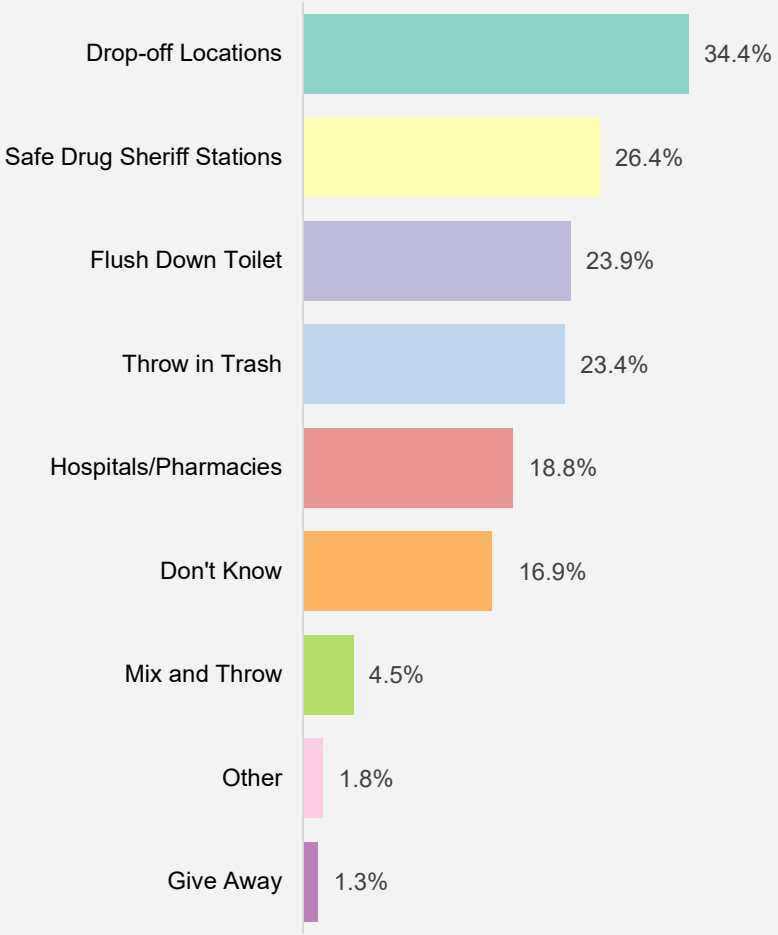
Area	%Yes		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	16.9	31.9	15.0
SPA 2	21.9	21.9	22.0
SPA 3	20.7	28.4	19.8
SPA 4	19.2	21.9	18.9
SPA 5	38.8	65.7ǂ	35.7
SPA 6	16.4	14.0	16.6
SPA 7	17.1	13.2	17.5
SPA 8	21.4	26.5	21.0
Supervisorial District (SD)			
SD 1	18.9	21.2	18.6
SD 2	19.1	17.2	19.4
SD 3	22.6	30.5	21.5
SD 4	17.4	14.7	17.4
SD 5	22.5	27.9	21.8

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 12. Have Unused Prescription Medication Currently at Home by Demographics



What do you think are the best ways to **dispose** of unused or expired (left-over) prescription medications? (%)



Notes: Respondents selected all choices that applied. "Mix and throw" is defined as mixing with other materials (e.g., cat litter) and throwing in the trash.
"Other" responses included "keep them", "sell them", "harm reduction locations", etc.
*The estimate is for planning and policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE > 50%);
Interpret with caution.

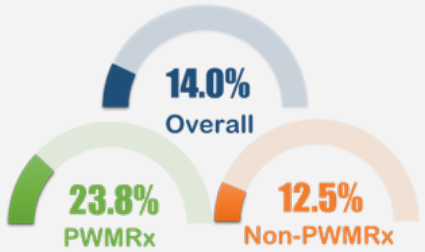
Table 3. Best Ways to Dispose Left-over Prescription Medications by Demographics

Drop-off Locations	Safe Drug Sheriff Stations	Flush Down Toilet	Throw in Trash	Hospital/ Pharmacy	Don't Know	Mix and Throw	Other	Give Away

	Most Common Ways of Disposal (%)								
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
Sex									
Male	31.8	25.9	23.9	23.1	19.0	18.3	3.5	2.0	1.5
Female	36.3	26.9	24.4	22.9	19.1	15.2	5.2	2.0	0.8
Age									
12-17	37.7	33.3	24.4	24.4	23.1	17.1	6.1	1.5	1.2
18-25	32.4	29.5	27.0	25.6	18.5	17.1	5.0	2.4*	1.5*
26-34	30.6	29.3	27.7	24.6	20.4	16.0	4.6	1.2*	0.9*
35-44	37.2	25.0	24.2	18.5	16.8	16.6	3.8	1.1*	1.0*
45-54	39.7	21.8	21.0	17.8	16.6	14.0	3.0	1.9	1.1*
55+	41.9	23.7	22.5	20.1	15.3	14.7	4.9	4.2	0.8*
Race/Ethnicity									
Latino	32.7	25.0	24.6	24.1	17.9	17.7	4.2	1.9	1.1
White	46.5	32.2	21.7	19.5	16.5	11.4	6.1	1.9*	1.4*
Black	34.1	31.6	23.8	19.4	18.4	16.3	3.7	2.6*	1.0*
Asian	37.3	37.1	25.6	24.8	18.5	13.4	5.6	3.6	0.1**
Multi	35.5	33.9	29.2	27.3	26.6	16.7	9.3*	1.4**	0.6**
Nativity									
US Born	34.4	29.6	25.0	24.5	19.4	15.9	4.8	1.7	1.3
Foreign Born	34.2	21.9	21.2	20.1	18.8	17.0	4.1	2.2	1.3
Sexual Orientation									
Heterosexual	35.7	27.2	23.1	22.5	19.1	15.8	4.2	1.8	1.2
LGBQ	32.7	30.4	29.9	28.5	20.8	16.4	6.6	2.9	1.9*
Other	26.5	24.7	24.7	23.3	16.4	15.5	4.9	1.3**	0.3**

Attitudes Toward Sharing Rx Medications

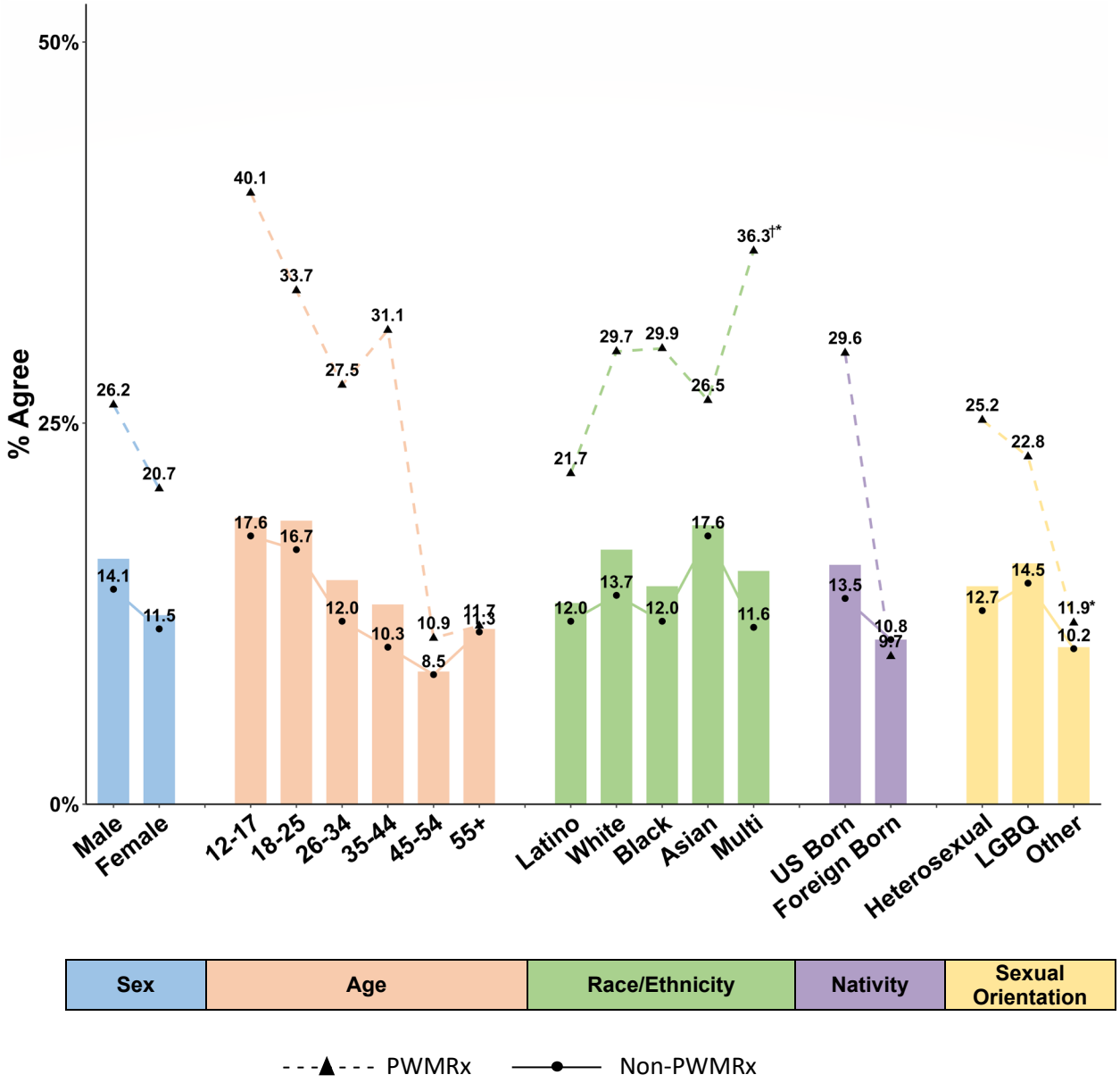
"It is okay to **share** Rx medications **with family members** or **friends** who need it." (%Agree)



Area	% Agree		
	All	PWMRx	Non-PWMRx
Service Planning Area (SPA)			
SPA 1	12.6	26.8	10.9
SPA 2	11.4	21.8	9.7
SPA 3	17.0	34.8	14.9
SPA 4	14.8	26.2	12.8
SPA 5	20.3	45.8ǂ*	17.3
SPA 6	13.0	26.5	10.7
SPA 7	11.8	13.2	11.6
SPA 8	17.5	23.1	16.8
Supervisorial District (SD)			
SD 1	15.5	23.0	14.4
SD 2	12.7	23.3	11.0
SD 3	12.3	27.2	10.0
SD 4	14.8	19.6	14.2
SD 5	14.6	30.3	12.4

Notes: Agreement included the options "agree" and "strongly agree".
PWMRx included those who had ever misused prescription medication.
Non-PWMRx included those who had never misused prescription medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%);
ǂ The estimate is statistically unstable (sample size < 30);
Interpret with caution.

Figure 13. Attitudes Towards Sharing Prescription Medication by Demographics



Summary of Findings

Prevalence of Prescription (Rx) Medication Misuse

- Among Los Angeles County (LAC) residents aged 12 and older, 12.7% reported ever misusing prescription medication (e.g., Rx pain relievers, sedatives/benzodiazepines, stimulants) at least once in their lifetimes.
- The prevalence of current Rx medication misuse (at least once in the past 30 days) among LAC residents aged 12 and older was 2.1%. This was higher than that reported in the 2022 National Survey on Drug Use and Health (NSDUH), in which 1.6% of the US population 12 and older reported misusing Rx medication at least once in the past month.
- Lifetime medication misuse was highest among males (16.7%), those aged 26-34 (16.3%), AI/AN individuals (33.7%), US Born (13.9%), and LGBQ individuals (17.9%).
- Current medication misuse was highest among males (3.1%), young adults aged 18-25 (3.4%), US Born (2.5%), and LGBQ individuals (4.7%).
- The prevalence of lifetime Rx medication misuse among youth aged 12-17 was 5.3%. This figure was lower than that reported in the Youth Risk Behavior Survey (YRBS) from 2021, in which 11.7% of high school students in the Los Angeles Unified School District reported lifetime misuse of prescription medication.
- The prevalence of current Rx medication misuse among youth aged 12-17 was 1.6%. This was higher than that reported for the same age group in the 2022 NSDUH (0.6%).
- Service Planning Area (SPA) 7 reported the highest prevalence of lifetime misuse of prescription medication (15.4%), followed by SPA 6 (14.3%), SPA 2 (13.1%), SPA 4 (13.0%), SPA 1 (11.0%), SPA 3 (10.7%), SPA 5 (10.4%), and SPA 8 (8.7%).
- Supervisorial District (SD) 2 reported the most respondents currently misusing Rx medication (3.0%), while SD 3 reported the fewest (1.6%).

Frequency of Misuse

- On average, those who misused Rx medication in the past month did so for 9 out of 30 days.

Age of Initiation

- The average age of first misuse of prescription medication among LAC residents aged 12 and older was 21 years; 38.1% of PWMRx[1] first misused prescription medication before age 18.
- Nearly half (49.1%) of PWMRx from SPA 8 first misused Rx medication before the age of 18, while 28.5% of those in SPA 7 first misused before age 18.
- SD 1 reported the highest percentage of those first misusing Rx medication under the age of 18 (50.9%), followed by SD 2 (44.6%), SD 5 (44.4%), SD 3 (27.7%), and SD 4 (27.4%).

Accessibility

- Of those who misused prescription medication at least once in their lifetime, 47.9% reported that prescription medication was somewhat or very easy for them to obtain without a prescription.
- Among youth aged 12-17 who misused prescription medication at least once, 52.6 % reported prescription medication was easy for them to obtain without a prescription.

[1] "PWMRx" indicates a person who has ever misused prescription medication.

Summary of Findings (Cont.)

- SPA 6 reported the highest prevalence of PWMRx who indicated it was easy for them to obtain prescription medication without a prescription (58.9%), followed by SPA 5 (54.7%)ǂ, SPA 1 (54.3%), SPA 7 (50.4%), SPA 8 (48.7%), SPA 3 (42.3%), SPA 4 (41.5%), and SPA 2 (36.6%).
- SD 2 had the highest prevalence of PWMRx who reported it was easy for them to obtain prescription medication without a prescription (56.2%), followed by SD 4 (50.7%), SD 5 (49.8%), SD 1 (44.0%), and SD 3 (34.4%).

Type of Rx Misused

- Among respondents who ever misused Rx medication, 50.3% misused opioids, 40.2% misused sedatives, and 23.5% misused stimulants.
- Opioids were the most common type of Rx medication misused among the following groups: males (57.6%), youth aged 12-17 (45.0%), those aged 35-44 (71.1%), those aged 45-54 (70.1%), Latino individuals (46.1%), White individuals (62.6%), Black/African-American individuals (58.8%), Multiracial individuals (59.8%)ǂ, US Born (55.4%), heterosexual individuals (52.5%), and LGBQ individuals (48.8%).
- Sedatives were the most common type of Rx medication misused among females (42.7%), those ages 18-25 (44.7%), those ages 26-34 (46.8%), and Asian individuals (54.3%).
- Compared to others in their demographic groups, the following indicated the highest prevalence of misusing stimulants: females (28.3%), those aged 26-34 (35.1%), Multiracial individuals (45.3%)ǂ*, US Born (27.0%), and LGBQ individuals (31.2%).

Source of Non-Prescribed Medication

- PWMRx most commonly obtained their prescription medication that they had misused from friends (40.6%), doctors (25.3%), home (23.4%), dealers/illegally (22.4%), and family members (21.2%). “Other” (5.8%) and social media (5.0%) internet accounted for the smallest portion among all sources.
- Friends were the most common source of obtaining prescription medication that was misused for all demographic groups, except youth (ages 12-17), Asian individuals, and those of “Other” sexual orientation. Specifically, youth (12-17) and “Other” sexual orientation indicated home as the most common source (32.1% and 43.1%, respectively). Asian individuals indicated doctors as the most common source (29.8%).
- While only 10.6% of all those who misused Rx medication indicated stealing from friends and family, this source was much more common in youth ages 12-17 (25.2%)
- PWMRx who were born in the United States were more than twice as likely to indicate a dealer as a source of their misused medication than those born outside the United States (25.4% vs. 11.5%).

Rx Medication Misuse Among Close Friends

- About one-tenth (10.7%) of LAC residents aged 12 and older had close friends who misuse prescription medication
- PWMRx were more likely than non-PWMRx[2] to have close friends who misuse prescription medication (34.9% vs. 7.2%).

ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

* *The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.

2 “Non-PWMRx” indicates a person who has never misused Rx medication.

Summary of Findings (Cont.)

- Reports of having close friends who misuse prescription medication were highest among males (13.2%), adults aged 26-34 (14.0%), Black/African-American individuals (15.9%), those born in the US (12.6%), and LGBQ individuals (14.6%), compared to others in their demographic groups.
- Reports of having close friends who misused prescription medication were highest in SPA 5 (16.9%), followed by SPA 4 (12.9%), SPA 3 (11.5%), SPA 6 (10.8%), SPA 1 (10.6%), SPA 2 (10.3%), SPA 7 (9.4%), and SPA 8 (8.8%).
- Reports of having close friends who misused prescription medication were highest in SD 3 (11.9%), followed by SD 5 (11.8%), SD 1 (11.4%), SD 2 (11.0%), and SD 4 (8.3%).

Rx Medication Misuse Among Family Members

- One-tenth (10.0%) of LAC residents aged 12 and older had family members who misused prescription medication. Those who have misused prescription medication (PWMRx) were more likely than non-PWMRx to have family members who misuse prescription medication (31.6% vs. 6.9%)
- Reports of having family members who misuse prescription medication were highest among males (10.8%), adults aged 26-34 (13.8%), Black/African-American individuals (18.6%), those born in the US (11.8%), and LGBQ individuals (14.9%), compared to others in their demographic groups.
- SPA 1 (12.3%) reported the highest prevalence of having family members who misuse prescription medication, followed by SPA 7 (11.6%), SPA 5 (11.0%), SPA 6 (10.1%), SPA 3 (9.8%), SPA 8 (9.4%), SPA 2 (8.7%), and SPA 4 (8.5%).
- SD 5 (13.1%) reported the highest prevalence of having family members who misuse prescription medication, followed by SD 4 (10.1%), SD 2 (9.9%), SD 1 (9.5%), and SD 3 (both 8.3%).

Perceived Accessibility

- Among LAC residents aged 12 and older, 57.8% indicated that prescription pain medication was either “very easy” or “somewhat easy” to obtain on the streets around their neighborhood. This perception was more pronounced for those who had ever misused prescription medication (63.9%) than for those who had never misused prescription medication (56.7%).
- Among youth (ages 12-17), 50.5% indicated that prescription pain medication was easy to access in their neighborhood.
- Compared to others in their demographic groups, the following were the most likely to report that prescription pain medication was easy to access: females (61.5%), those ages 45-54 (60.3%), Black/African-American individuals (62.4%), Foreign Born (59.8%), and LGBQ individuals (58.3%).
- Respondents from SPA 4 were the most likely to indicate that prescription pain medication was easy to obtain (63.9%), followed by SPA 6 (61.2%), SPA 7 (60.7%), SPA 3 (57.8%), SPA 1 (56.1%), SPA 8 (53.2%), SPA 5 (52.2%), and SPA 2 (52.0%).
- Respondents from SD 1 were most likely to indicate that prescription medication was easy to obtain (61.5%), followed by SD 2 (59.2%), SD 4 (58.2%), SD 3 (53.5%), and SD 5 (53.2%).

Perceived Risk of Youth – Regular Rx Medication Misuse

- Of LAC residents aged 12 and older, 69.0% perceived regular Rx medication misuse (1-2 times per week) to be a great risk for youth.
- Perceptions of great risk for youth were more pronounced for those who had not misused prescription medication, as

compared to those who had misused (non-PWMRx: 70.4% vs. PWMRx: 58.7%).

- Compared to others in their respective demographic groups, males (64.2%), youth aged 12-17 (53.6%), Latino individuals (68.1%), US Born (67.2%) and LGBQ individuals (62.1%) were least likely to perceive regular Rx medication misuse to be a great risk for youth.
- SPA 8 (74.5%) had the highest percentage of those perceiving regular Rx medication misuse to be a great risk for youth, followed by SPA 5 (73.0%), SPA 3 (72.3%), SPA 2 (70.0%), SPA 6 (68.9%), SPA 1 (67.9%), SPA 7 (64.9%) and SPA 4 (62.9%).
- SD 5 (71.6%) had the highest percentage of those perceiving regular Rx medication misuse to be a great risk for youth, followed by SD 3 (69.4%), SD 2 (68.9%), SD 4 (68.8%), and SD 1 (67.5%).

Perceived Risk of Adults – Regular Rx Medication Misuse

- Of LAC residents aged 18 and older, 68.3% perceived regular misuse of prescription medication (1-2 times per week) to be a great risk for adults.
- Those who had ever misused prescription medication (PWMRx) were less likely to indicate great risk for regular adult misuse than those who had never misused prescription medication (PWMRx: 57.0% vs. Non-PWMRx 70.2%).
- Compared to others in their respective demographic groups, males (65.1%), those aged 18-25 (58.5%), Multiracial individuals (61.4%), and LGBQ individuals (59.7%) were least likely to perceive regular misuse of prescription medication to be a great risk for adults.
- SPA 1 was the mostly likely to perceive regular misuse of prescription medication to be a great risk for adults (71.9%), followed by SPA 3 (71.0%), SPA 5 (70.6%), SPA 8 (69.6%), SPA 6 (68.5%), SPA 4 (67.8%), SPA 7 (66.3%), and SPA 2 (65.8%).
- SD 5 (72.0%) was the most likely to perceive regular Rx medication misuse to be a great risk for adults, followed by SD 4 (68.8%), SD 2 (68.4%), SD 1 (66.9%), and SD 3 (66.8%).

Perceived Social Disapproval

- Of LAC residents aged 12 and older, 86.3% perceived that their close friends would either disapprove or strongly disapprove if they misused prescription medication.
- People who have misused prescription medication (PWMRx) were less likely to think their close friends would disapprove of their prescription medication misuse (69.8%) as compared to those who have not misused prescription medication (88.8%).
- Compared to others in their respective demographic groups, the following had the highest prevalence of perceiving that their close friends would disapprove of them if they misused prescription medication: females (88.6%), those aged 45-54 (88.5%), White individuals (88.2%), US Born (87.1%), and heterosexual individuals (87.6%).
- Respondents from SPA 5 were most likely to perceive disapproval from close friends if they misused prescription medication (92.5%), followed by SPA 3 (90.3%), SPA 8 (87.1%), SPA 2 (85.9%), SPA 7 (85.6%), SPA 4 (85.5%), SPA 6 (84.2%), and SPA 1 (83.1%).

Summary of Findings (Cont.)

- Respondents from SD 1 were most likely to perceive disapproval from close friends if they misused prescription medication (88.8%), followed by SD 5 (86.3%), SD 3 (86.0%), SD 4 (85.7%), and SD 2 (84.9%).

Unused Rx Medications

- Nearly one-fifth (19.6%) of LAC residents aged 12 and older reported they have unused or expired (left-over) Rx medication where they live.
- Compared to others in their respective demographic categories, the following reported the highest prevalence of having used or expired Rx medication where they lived: females (23.2%). White individuals (29.1%), US Born (20.3%), and LGBQ individuals (23.0%).
- Having unused or expired Rx medication where they live increased with age from 10.8% among those aged 12-17 to 24.9% among those aged 55 and older.
- SPA 5 (38.8%) had the highest percentage of respondents who reported having unused or expired Rx medication where they live, followed by SPA 2 (21.9%), SPA 8 (21.4%), SPA 3 (20.7%), SPA 4 (19.2%), SPA 7 (17.1%), SPA 1 (16.9%), and SPA 6 (16.4%)
- SD 3 had the highest percentage of respondents reporting unused or expired Rx medication where they live (22.6%), followed by SD 5 (22.5%), SD 2 (19.1%), SD 1 (18.9%) and SD 2 (17.4%).

Safe Disposal

- Over one-third (34.4%) of LAC residents aged 12 and older believed the best way to dispose of unused Rx medication was to drop them off at drop-off locations or take-back events. However, many believed that flushing them down the toilet (23.9%), and throwing them in the trash (23.4%) were the best ways to dispose of them.
- Nearly four-in-ten (37.7%) youth ages 12-17 believed that thowing Rx medication in the trash was a good way to dispose of them, while almost a quarter reported that they did not know how to properly dispose of them (23.1%).

Attitudes Towards Sharing Rx Medications

- Of LAC residents 12+ years of age, 14.0% indicated that they would either “agree” or “strongly agree” that it is okay to share used or expired (left-over) Rx medication with family or friends who need them.
- PWMRx were more likely than non-PWMRx to indicate that sharing used or expired medication was acceptable (23.8% vs. 12.5%).
- The following groups indicated the highest levels of agreement that it was okay to share unused or expired (left-over) Rx medication: those ages 12-17 (18.8%), those ages 18-25 (18.6%), and Asian individuals (18.3%).
- SPA 5 (20.3%) had the highest percent of respondents who reported approval of sharing unused or expired Rx medication with friends or family, followed by SPA 8 (17.5%), SPA 3 (17.0%), SPA 4 (14.8%), SPA 6 (13.0%), SPA 1 (12.6%), SPA 7 (11.8%), and SPA 2 (11.4%).
- SD 1 had the highest percentage of respondents (15.5%) who reported approval of sharing unused or expired Rx medication with friends or family, followed by SD 4 (14.8%), SD 5 (14.6%), SD 2 (12.7%), and SD 3 (12.3%).

Appendix A: Final Analysis Sample

Demographics for Final Analysis Sample

Category	N	%
LAC	**8,123**	
Sex		
Male	3,171	39.0%
Female	4,952	61.0%
Gender Identity		
Male	3,041	37.9%
Female	4,762	59.4%
Transgender Male	51	0.6%
Transgender Female	53	0.7%
Gender Non-Conforming	115	1.4%
Age		
12-17	2,752	33.9%
18-25	1,133	14.0%
26-34	1,212	14.9%
35-44	1,173	14.4%
45-54	897	11.0%
55+	956	11.8%
Race/Ethnicity		
Latino	5,354	65.9%
White	678	8.4%
Black	1,052	13.0%
Asian	725	8.9%
NHOPI	46	0.6%
AI/AN	39	0.5%
Other	46	0.6%
Multi	183	2.3%
Nativity		
US Born	6,135	77.1%
Foreign Born	1,819	22.9%
Sexual Orientation		
Heterosexual	6,263	78.0%
LGBQ.	1,125	14.0%
Other	648	8.0%

Geographic Distribution for Final Analysis Sample

Area	N	%
LAC	**8,123**	
SPA 1	719	8.9%
SPA 2	1,440	17.7%
SPA 3	1,211	14.9%
SPA 4	967	11.9%
SPA 5	278	3.4%
SPA 6	1,411	17.4%
SPA 7	1,044	12.9%
SPA 8	1,053	13.0%
SD 1	1,807	22.3%
SD 2	2,171	26.7%
SD 3	1,186	14.6%
SD 4	1,483	18.3%
SD 5	1,476	18.2%

Notes: AI/AN includes “American Indian” and “Alaska Native”.
NHOPI includes “Native Hawaiian or Other Pacific Islander”.
“Other” sexual orientation included those who indicated “Other” and those who indicated “Prefer not to answer”.
SPA and SD were based on zip code of residence, calculated based on the proportion of census block population distribution.

Appendix B: Prevalence of Rx Medication Misuse

Category	Lifetime Rx Misuse (%Yes) %	95% C.I.	Current Rx Misuse (%Yes) %	95% C.I.
LAC	**12.7**	**(11.5 - 13.8)**	**2.1**	**(1.6 - 2.6)**
Sex				
Male	16.7	(14.6 - 18.8)	3.1	(2.2 - 3.9)
Female	9.7	(8.4 - 10.9)	1.4	(0.9 - 1.9)
Age				
12-17	5.3	(4.0 - 6.7)	1.6	(0.9 - 2.4)
18-25	11.2	(8.8 - 13.6)	3.4	(1.9 - 4.8)
26-34	16.3	(13.3 - 19.2)	2.5	(1.1 - 3.9)
35-44	13.1	(10.4 - 15.9)	1.8	(0.6 - 2.9)*
45-54	12.3	(9.4 - 15.2)	2.0	(1.0 - 3.0)
55+	15.2	(11.6 - 18.9)	1.4	(0.7 - 2.1)
Race/Ethnicity				
Latino	12.2	(10.8 - 13.6)	2.2	(1.6 - 2.8)
White	18.9	(14.6 - 23.2)	2.4	(1.2 - 3.6)
Black	13.2	(9.8 - 16.5)	1.8	(1.0 - 2.7)
Asian	8.0	(5.5 - 10.5)	1.2	(0.3 - 2.1)*
NHOPI	27.6	(3.4 - 51.9)*	0.4	(0.0 - 1.1)**
AI/AN	33.7	(14.1 - 53.4)	15.6	(0.0 - 33.4)**
Other	9.2	(0.0 - 19.7)**	5.7	(0.0 - 15.3)**
Multi	14.6	(8.2 - 21.0)	1.6	(0.1 - 3.0)*
Nativity				
US Born	13.9	(12.4 - 15.3)	2.5	(1.8 - 3.1)
Foreign Born	9.9	(7.9 - 12.0)	1.4	(0.8 - 2.0)
Sexual Orientation				
Heterosexual	12.3	(10.9 - 13.6)	1.8	(1.4 - 2.3)
LGBQ	17.9	(14.2 - 21.6)	4.7	(2.4 - 6.9)
Other	9.7	(6.2 - 13.2)	1.8	(0.0 - 3.7)**

Area	Lifetime Rx Misuse (%Yes) %	95% C.I.	Current Rx Misuse (%Yes) %	95% C.I.
LAC	**12.7**	**(11.5 - 13.8)**	**2.1**	**(1.6 - 2.6)**
SPA 1	11.0	(7.1 - 14.9)	2.9	(1.2 - 4.7)
SPA 2	13.1	(10.3 - 16.0)	1.3	(0.4 - 2.1)*
SPA 3	10.7	(8.2 - 13.2)	1.7	(0.8 - 2.7)
SPA 4	13.0	(9.4 - 16.7)	2.5	(0.8 - 4.2)*
SPA 5	10.4	(4.7 - 16.0)	2.6	(0.8 - 4.5)*
SPA 6	14.3	(11.5 - 17.0)	3.3	(1.9 - 4.7)
SPA 7	15.4	(11.8 - 19.1)	1.8	(0.5 - 3.1)*
SPA 8	8.7	(6.4 - 11.1)	1.6	(0.7 - 2.6)*
SD 1	10.9	(8.6 - 13.2)	1.9	(1.0 - 2.9)
SD 2	13.2	(11.1 - 15.4)	3.0	(1.9 - 4.0)
SD 3	13.3	(10.3 - 16.3)	1.6	(0.7 - 2.4)
SD 4	13.3	(10.5 - 16.1)	1.8	(0.8 - 2.9)
SD 5	12.3	(9.6 - 15.0)	2.0	(1.0 - 3.0)

Notes: “Current misuse” was defined as misusing Rx medication in the past 30 days.
Data for Native Hawaiian or other Pacific Islanders (NHOPI), American Indian/Alaska Native (AI/AN) and “Other” are reported here but are subsequently excluded for all other variables due to small sample size.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
** The estimate is statistically unstable (RSE >50%); Interpret with caution.

Appendix C: Age of Initiation

Category	Age of Initiation Mean	95% C.I.	% Misused Before Age 18 %	95% C.I.
LAC	**21**	**(20 - 22)**	**38.1**	**(32.8 - 43.3)**
Sex				
Male	19	(18 - 20)	40.0	(32.4 - 47.5)
Female	22	(20 - 24)	35.7	(28.5 - 42.9)
Age				
12-17	14	(13 - 14)	n/a	(n/a - n/a)
18-25	21	(20 - 22)‡	61.8	(49.8 - 73.9)
26-34	n/a	(n/a - n/a)	32.6	(22.9 - 42.3)
35-44	n/a	(n/a - n/a)	43.5	(30.8 - 56.3)
45-54	n/a	(n/a - n/a)	20.0	(8.4 - 31.6)
55+	n/a	(n/a - n/a)	18.4	(8.7 - 28.0)
Race/Ethnicity				
Latino	20	(19 - 22)	39.9	(33.4 - 46.4)
White	22	(20 - 24)	36.7	(23.6 - 49.8)
Black	21	(18 - 25)	29.8	(16.5 - 43.0)
Asian	22	(19 - 24)	28.3	(13.1 - 43.4)
Multi[ǂ]	20	(16 - 23)	43.6	(16.2 - 71.0)*
Nativity				
US Born	19	(18 - 20)	42.7	(36.6 - 48.8)
Foreign Born	25	(22 - 28)	24.8	(14.3 - 35.3)
Sexual Orientation				
Heterosexual	21	(20 - 23)	36.6	(30.5 - 42.7)
LGBQ	18	(17 - 19)	38.8	(27.0 - 50.6)
Other	20	(16 - 23)	51.4	(29.2 - 73.6)

Area	Age of Initiation Mean	95% C.I.	% Misused Before Age 18 %	95% C.I.
LAC	**21**	**(20 - 22)**	**38.1**	**(32.8 - 43.3)**
SPA 1	19	(17 - 20)	40.8	(21.1 - 60.4)
SPA 2	22	(20 - 24)	29.6	(17.8 - 41.5)
SPA 3	18	(17 - 20)	47.1	(33.7 - 60.5)
SPA 4	21	(17 - 24)	43.1	(26.6 - 59.5)
SPA 5[ǂ]	19	(16 - 22)	43.9	(13.1 - 74.7)*
SPA 6	21	(19 - 23)	42.9	(31.1 - 54.8)
SPA 7	22	(19 - 25)	28.5	(16.9 - 40.1)
SPA 8	20	(18 - 23)	49.1	(32.2 - 66.1)
SD 1	18	(16 - 20)	50.9	(38.5 - 63.4)
SD 2	21	(19 - 22)	44.6	(34.7 - 54.4)
SD 3	23	(20 - 25)	27.7	(15.3 - 40.1)
SD 4	22	(19 - 25)	27.4	(17.3 - 37.5)
SD 5	19	(17 - 20)	44.4	(31.5 - 57.3)

Notes: “Age of Initiation” and “% Misused Before Age 18” were asked only to those who had misused Rx medication at least once in their lifetimes.
‡ The mean and C.I. were calculated using the 18+ age category
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix D: Easy Access

How Easy Is It for You to Get Prescription Medications Without a Prescription?
(%Very Easy/Somewhat Easy)

Category	% Easy	95% C.I.
LAC	**47.9**	**(42.7 - 53.0)**
Sex		
Male	52.8	(45.6 - 60.1)
Female	41.7	(34.6 - 48.8)
Age		
12-17	52.6	(39.4 - 65.9)
18-25	51.6	(39.8 - 63.3)
26-34	42.1	(32.2 - 52.0)
35-44	52.2	(39.9 - 64.5)
45-54	55.1	(42.0 - 68.1)
55+	41.1	(27.9 - 54.3)
Race/Ethnicity		
Latino	49.5	(43.1 - 55.8)
White	33.2	(21.7 - 44.7)
Black	57.7	(43.2 - 72.3)
Asian	51.9	(35.0 - 68.7)
Multi‡	30.4	(9.8 - 51.1)*
Nativity		
US Born	51.8	(46.0 - 57.6)
Foreign Born	35.2	(24.1 - 46.2)
Sexual Orientation		
Heterosexual	49.0	(43.0 - 55.0)
LGBQ	50.2	(38.7 - 61.7)
Other	21.7	(6.0 - 37.4)*

Area	% Easy	95% C.I.
LAC	**47.9**	**(42.7 - 53.0)**
SPA 1	54.3	(37.7 - 70.8)
SPA 2	36.6	(24.7 - 48.6)
SPA 3	42.3	(30.1 - 54.6)
SPA 4	41.5	(25.8 - 57.2)
SPA 5	54.7	(26.7 - 82.7)‡
SPA 6	58.9	(48.1 - 69.7)
SPA 7	50.4	(37.6 - 63.2)
SPA 8	48.7	(33.8 - 63.7)
SD 1	44.0	(32.1 - 56.0)
SD 2	56.2	(47.0 - 65.3)
SD 3	34.4	(22.4 - 46.4)
SD 4	50.7	(39.4 - 62.1)
SD 5	49.8	(38.0 - 61.7)

Notes: Only those who had ever misused prescription medication were asked this question.
* The estimate is for planning and policy purposes (RSE is between 30% and 50%); Interpret with caution.
‡ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix E: Type of Rx Medication Misused

What Type of Prescription Medication‡ Have You Ever Misused?

	Opioids		Sedatives		Stimulants		Don't Know		Other	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**50.3**	**(44.7 - 55.8)**	**40.2**	**(34.9 - 45.5)**	**23.5**	**(19.0 - 28.0)**	**22.2**	**(17.2 - 27.3)**	**9.6**	**(6.4 - 12.7)**
Sex										
Male	57.6	(50.0 - 65.2)	38.3	(31.1 - 45.5)	19.9	(14.1 - 25.7)	20.0	(13.4 - 26.6)	8.4	(4.4 - 12.4)
Female	40.5	(33.1 - 48.0)	42.7	(35.0 - 50.4)	28.3	(21.2 - 35.3)	25.2	(17.3 - 33.1)	11.1	(6.1 - 16.1)
Age										
12-17	45.0	(31.0 - 59.1)	35.0	(21.7 - 48.3)	20.2	(9.8 - 30.6)	32.0	(19.3 - 44.7)	7.6	(2.3 - 12.9)*
18-25	37.5	(26.4 - 48.6)	44.9	(33.2 - 56.7)	26.6	(16.6 - 36.5)	23.4	(13.1 - 33.7)	11.8	(3.4 - 20.2)*
26-34	44.5	(34.3 - 54.6)	46.8	(36.5 - 57.2)	35.1	(25.1 - 45.0)	22.6	(13.4 - 31.9)	10.7	(3.7 - 17.8)*
35-44	71.1	(59.9 - 82.2)	43.9	(31.5 - 56.2)	25.2	(14.0 - 36.4)	12.3	(5.4 - 19.1)	8.9	(1.1 - 16.6)*
45-54	70.9	(58.8 - 83.0)	30.7	(18.6 - 42.7)	15.6	(4.2 - 26.9)*	11.3	(3.5 - 19.2)*	10.1	(2.9 - 17.2)*
55+	32.0	(18.3 - 45.6)	31.9	(18.6 - 45.3)	9.9	(2.7 - 17.1)*	36.9	(19.8 - 54.1)	7.0	(1.5 - 12.6)*
Race/Ethnicity										
Latino	46.1	(39.3 - 53.0)	35.4	(29.1 - 41.7)	21.5	(16.0 - 27.0)	24.9	(18.2 - 31.5)	11.4	(7.1 - 15.6)
White	62.6	(49.7 - 75.5)	60.2	(47.1 - 73.4)	33.1	(20.6 - 45.5)	13.0	(3.9 - 22.1)*	5.0	(0.4 - 9.6)*
Black	58.8	(43.8 - 73.9)	32.6	(18.5 - 46.6)	9.7	(3.1 - 16.2)*	19.4	(7.5 - 31.2)*	3.5	(0.5 - 6.4)*
Asian	52.3	(35.0 - 69.6)	54.3	(37.0 - 71.7)	42.8	(26.0 - 59.6)	21.8	(6.7 - 36.9)*	9.7	(0.0 - 20.1)**
Multiǂ	59.8	(34.4 - 85.2)	58.5	(33.6 - 83.4)	45.3	(18.5 - 72.2)*	10.7	(0.0 - 28.6)**	6.8	(0.0 - 14.6)**
Nativity										
US Born	56.0	(50.1 - 62.0)	43.8	(38.0 - 49.7)	27.0	(21.7 - 32.3)	16.8	(12.4 - 21.1)	8.6	(5.0 - 12.1)
Foreign Born	31.9	(20.2 - 43.6)	31.4	(19.5 - 43.4)	9.6	(2.6 - 16.7)*	34.3	(20.2 - 48.3)	15.5	(7.7 - 23.2)
Sexual Orientation										
Heterosexual	53.1	(46.6 - 59.7)	41.0	(34.8 - 47.2)	21.8	(16.7 - 26.8)	22.3	(16.2 - 28.3)	6.7	(3.8 - 9.7)
LGBQ	48.8	(37.0 - 60.6)	41.9	(30.4 - 53.3)	31.2	(20.1 - 42.3)	18.1	(8.2 - 28.0)	17.0	(6.4 - 27.6)*
Other	10.4	(0.7 - 20.2)*	21.9	(3.6 - 40.3)*	20.5	(0.0 - 41.6)**	35.8	(15.6 - 56.1)	22.4	(5.2 - 39.5)*

Notes: Only those who had ever misused prescription medication were asked this question.
Respondents selected all choices that applied.
‡Opioids include medications like OxyContin, Vicodin, and Demerol.
Sedatives include medications like Xanax, Valium, and Ativan.
Stimulants include medications like Adderall, Ritalin, and Dexedrine.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix F: Source of Rx Medication Misused

Where Did/Do You Obtain Prescription Medication that You Have Misused?

	Friends		Doctors		Home		Dealer/Illegally		Family Member		Leftover Medications	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**40.6**	**(35.5 - 45.7)**	**25.3**	**(20.8 - 29.7)**	**23.4**	**(19.2 - 27.6)**	**22.4**	**(18.0 - 26.7)**	**21.2**	**(17.0 - 25.4)**	**16.3**	**(12.6 - 19.9)**
Sex												
Male	39.3	(32.2 - 46.4)	24.2	(18.0 - 30.3)	22.3	(16.4 - 28.2)	26.0	(19.7 - 32.4)	19.4	(13.6 - 25.2)	11.5	(6.9 - 16.0)
Female	42.4	(35.1 - 49.6)	26.7	(20.3 - 33.2)	24.8	(18.8 - 30.8)	17.6	(12.1 - 23.0)	23.4	(17.4 - 29.5)	22.6	(16.6 - 28.6)
Age												
12-17	14.4	(4.9 - 23.9)*	13.5	(5.7 - 21.3)	32.1	(19.7 - 44.5)	13.8	(3.9 - 23.7)*	15.8	(6.8 - 24.7)	22.2	(9.8 - 34.6)
18-25	31.0	(20.3 - 41.6)	19.0	(9.6 - 28.4)	27.2	(16.4 - 38.0)	25.7	(15.0 - 36.4)	16.5	(7.8 - 25.2)	16.6	(9.0 - 24.3)
26-34	56.5	(46.3 - 66.8)	22.3	(13.7 - 30.9)	19.2	(11.5 - 26.9)	15.3	(9.2 - 21.4)	18.5	(10.4 - 26.7)	17.3	(10.1 - 24.5)
35-44	37.9	(26.4 - 49.3)	31.7	(20.5 - 42.9)	22.3	(12.5 - 32.0)	32.0	(20.3 - 43.7)	30.2	(19.0 - 41.3)	21.5	(11.6 - 31.3)
45-54	42.4	(29.1 - 55.6)	23.8	(13.4 - 34.1)	29.8	(17.2 - 42.4)	27.2	(13.9 - 40.4)	33.5	(21.1 - 45.9)	14.6	(4.4 - 24.8)*
55+	36.7	(23.4 - 50.1)	33.0	(20.5 - 45.5)	18.8	(9.3 - 28.3)	17.5	(8.2 - 26.7)	9.6	(2.0 - 17.2)*	7.6	(0.4 - 14.9)*
Race/Ethnicity												
Latino	37.2	(31.1 - 43.3)	21.5	(16.5 - 26.6)	23.6	(18.4 - 28.8)	22.0	(16.6 - 27.4)	19.3	(14.4 - 24.3)	13.6	(9.6 - 17.7)
White	57.3	(44.4 - 70.3)	42.3	(29.2 - 55.5)	23.9	(12.8 - 35.0)	22.9	(12.1 - 33.7)	32.6	(20.4 - 44.8)	27.6	(16.0 - 39.3)
Black	44.2	(28.9 - 59.4)	19.8	(6.4 - 33.2)*	19.5	(8.3 - 30.7)	21.1	(8.6 - 33.7)*	16.1	(3.7 - 28.5)*	13.9	(1.8 - 26.0)*
Asian	25.7	(12.6 - 38.7)	29.8	(14.2 - 45.4)	26.0	(11.5 - 40.5)	27.4	(12.3 - 42.5)	17.4	(5.1 - 29.7)*	19.1	(5.7 - 32.4)*
Multi[ǂ]	55.4	(29.3 - 81.4)	44.2	(19.2 - 69.1)	24.5	(0.0 - 51.6)**	33.7	(7.0 - 60.5)*	22.8	(4.4 - 41.2)*	28.2	(7.0 - 49.3)*
Nativity												
US Born	44.3	(38.4 - 50.2)	24.3	(19.3 - 29.4)	22.5	(17.8 - 27.2)	25.4	(20.1 - 30.6)	22.0	(17.1 - 26.8)	17.7	(13.4 - 22.0)
Foreign Born	28.0	(17.9 - 38.0)	26.5	(17.3 - 35.7)	27.9	(17.6 - 38.2)	11.5	(4.7 - 18.3)	18.4	(9.5 - 27.3)	12.4	(4.9 - 19.9)*
Sexual Orientation												
Heterosexual	42.6	(36.6 - 48.6)	26.8	(21.5 - 32.1)	21.8	(17.1 - 26.6)	24.0	(18.8 - 29.1)	20.8	(16.0 - 25.7)	16.4	(12.0 - 20.8)
LGBQ	39.6	(28.4 - 50.8)	18.9	(9.3 - 28.5)	24.0	(14.5 - 33.5)	16.9	(8.8 - 25.1)	23.7	(14.3 - 33.0)	17.8	(9.6 - 26.0)
Other	17.1	(4.0 - 30.3)*	21.4	(6.3 - 36.5)*	43.1	(21.8 - 64.4)	14.7	(0.0 - 34.3)**	21.2	(1.0 - 41.5)*	12.0	(1.8 - 22.1)*

Notes: Only those who have misused prescription medication were asked this question.
Respondents selected all choices that applied.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%);
** The estimate is statistically unstable (RSE >50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix F: Source of Rx Medication Misused (Cont.)

Where Did/Do You Obtain Prescription Medication that You Have Misused?

	Coworkers/ Schoolmates		Stole from Family/Friends		Internet		Pharmacists		Other		Social Media	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**11.5**	**(7.9 - 15.1)**	**10.6**	**(7.5 - 13.7)**	**7.2**	**(4.4 - 9.9)**	**6.1**	**(3.9 - 8.2)**	**5.8**	**(3.5 - 8.2)**	**5.0**	**(3.0 - 7.0)**
Sex												
Male	13.6	(8.3 - 18.9)	10.0	(5.8 - 14.2)	9.4	(5.2 - 13.6)	6.4	(3.4 - 9.4)	6.2	(2.9 - 9.5)	4.3	(2.0 - 6.6)
Female	8.7	(4.3 - 13.1)	11.4	(6.8 - 16.1)	4.2	(1.1 - 7.3)*	5.6	(2.5 - 8.8)	5.4	(2.3 - 8.6)	5.9	(2.5 - 9.4)
Age												
12-17	14.2	(3.9 - 24.6)*	25.2	(12.6 - 37.8)	7.3	(0.7 - 13.8)*	9.4	(3.8 - 15.0)*	9.0	(2.7 - 15.2)*	15.0	(5.2 - 24.8)*
18-25	5.6	(1.0 - 10.1)*	6.5	(1.7 - 11.2)*	13.4	(5.3 - 21.6)*	6.6	(0.0 - 13.2)**	9.9	(3.2 - 16.6)*	7.8	(2.5 - 13.2)*
26-34	12.1	(4.2 - 19.9)*	7.8	(3.1 - 12.5)*	6.9	(0.9 - 12.8)*	7.9	(3.3 - 12.5)	2.7	(0.0 - 5.4)**	3.5	(0.0 - 7.5)**
35-44	18.5	(8.6 - 28.3)	12.5	(4.4 - 20.7)*	9.3	(1.9 - 16.8)*	6.8	(1.2 - 12.4)*	4.6	(0.0 - 11.2)**	4.4	(0.0 - 9.4)**
45-54	13.7	(3.2 - 24.2)*	15.0	(5.9 - 24.2)*	0.8	(0.0 - 2.2)**	3.9	(0.1 - 7.8)*	8.3	(1.8 - 14.7)*	2.4	(0.0 - 5.8)**
55+	4.7	(0.0 - 10.2)**	7.1	(0.0 - 15.5)**	4.9	(0.0 - 10.5)**	2.7	(0.0 - 6.6)**	5.2	(0.0 - 10.5)**	3.9	(0.0 - 8.1)**
Race/Ethnicity												
Latino	11.6	(7.1 - 16.1)	10.5	(6.7 - 14.3)	7.5	(4.1 - 10.8)	5.5	(2.9 - 8.1)	6.4	(3.4 - 9.4)	5.7	(3.0 - 8.3)
White	17.4	(7.6 - 27.2)	14.0	(5.2 - 22.7)*	4.8	(0.0 - 10.8)**	7.2	(0.6 - 13.7)*	1.6	(0.0 - 3.6)**	1.2	(0.0 - 2.6)**
Black	2.0	(0.0 - 4.6)**	7.6	(1.0 - 14.2)*	6.4	(0.0 - 15.4)**	3.0	(0.4 - 5.6)*	5.7	(0.3 - 11.1)*	7.3	(1.4 - 13.3)*
Asian	7.5	(0.0 - 16.0)**	6.2	(0.6 - 11.8)*	12.1	(0.0 - 25.6)**	12.1	(2.1 - 22.1)*	13.5	(0.0 - 27.1)**	3.9	(0.0 - 10.4)**
Multi[ł]	7.6	(0.0 - 18.1)**	7.8	(0.0 - 18.6)**	10.6	(0.0 - 23.4)**	50.4	(24.7 - 76.1)	1.0	(0.0 - 2.9)**	3.8	(0.0 - 11.1)**
Nativity												
US Born	12.9	(8.5 - 17.3)	11.6	(8.1 - 15.2)	8.0	(4.6 - 11.4)	5.7	(3.3 - 8.2)	5.1	(2.6 - 7.7)	5.1	(2.8 - 7.4)
Foreign Born	6.9	(1.8 - 12.0)*	7.8	(0.5 - 15.1)*	3.7	(0.5 - 6.8)*	7.8	(2.7 - 12.9)*	8.6	(2.8 - 14.5)*	5.0	(0.6 - 9.4)*
Sexual Orientation												
Heterosexual	11.1	(7.1 - 15.2)	10.5	(6.8 - 14.2)	7.2	(4.0 - 10.3)	5.9	(3.4 - 8.4)	5.5	(2.7 - 8.2)	4.1	(2.1 - 6.1)
LGBQ	16.6	(6.2 - 27.0)*	14.8	(7.6 - 22.1)	9.0	(1.4 - 16.6)*	7.2	(2.2 - 12.2)*	6.1	(1.6 - 10.6)*	8.2	(1.6 - 14.7)*
Other	3.9	(0.0 - 10.0)**	2.5	(0.0 - 6.2)**	1.9	(0.0 - 4.9)**	5.9	(0.0 - 13.4)**	11.0	(0.6 - 21.4)*	7.2	(0.0 - 18.1)**

Notes: Only those who had ever misused prescription medication were asked this question.
Respondents selected all choices that applied.
"Other" responses included "Prison", "Streets", "Mexico", "Prefer not to state", etc.
Adult surveys included the option of "coworkers", while youth surveys included the option "schoolmates".
* The estimate is for planning and policy purposes (RSE is between 30% and 50%); Interpret with caution.
** The estimate is statistically unstable (RSE >50%); Interpret with caution.
ł The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix G: Rx Misuse Among Close Friends

Do Any of Your Close Friends Misuse Prescription Medication?
(%Yes)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**10.7**	**(9.6 - 11.7)**	**34.9**	**(30.3 - 39.5)**	**7.2**	**(6.2 - 8.1)**
Sex						
Male	13.2	(11.3 - 15.2)	34.5	(28.1 - 40.8)	8.9	(7.1 - 10.8)
Female	8.7	(7.6 - 9.9)	35.5	(28.9 - 42.1)	5.9	(4.9 - 6.9)
Age						
12-17	7.3	(5.3 - 9.3)	42.2	(29.3 - 55.2)	5.4	(3.4 - 7.3)
18-25	12.6	(9.8 - 15.4)	35.9	(25.5 - 46.3)	9.6	(6.7 - 12.4)
26-34	14.0	(11.1 - 16.8)	39.6	(30.1 - 49.1)	9.0	(6.3 - 11.6)
35-44	11.8	(9.2 - 14.5)	39.1	(27.9 - 50.3)	7.8	(5.4 - 10.1)
45-54	8.9	(6.6 - 11.2)	35.0	(23.2 - 46.9)	5.4	(3.5 - 7.3)
55+	8.4	(6.0 - 10.7)	23.5	(14.5 - 32.6)	5.5	(3.3 - 7.7)
Race/Ethnicity						
Latino	10.0	(8.8 - 11.3)	31.4	(26.0 - 36.8)	7.0	(5.9 - 8.2)
White	13.7	(10.2 - 17.1)	38.7	(26.8 - 50.5)	7.9	(4.9 - 11.0)
Black	15.9	(12.4 - 19.5)	53.4	(39.9 - 66.9)	10.3	(7.5 - 13.0)
Asian	7.7	(5.1 - 10.2)	47.4	(31.8 - 63.0)	4.0	(2.0 - 6.1)
Multi	11.4	(6.2 - 16.7)	36.5	(15.0 - 58.1)ǂ*	7.1	(2.4 - 11.9)*
Nativity						
US Born	12.6	(11.2 - 13.9)	39.6	(34.2 - 45.1)	8.2	(6.9 - 9.5)
Foreign Born	7.0	(5.4 - 8.6)	23.8	(16.3 - 31.4)	5.2	(3.6 - 6.8)
Sexual Orientation						
Heterosexual	10.4	(9.2 - 11.6)	35.4	(30.1 - 40.7)	6.9	(5.8 - 8.0)
LGBQ	14.6	(11.2 - 17.9)	36.7	(26.0 - 47.4)	9.8	(6.5 - 13.0)
Other	8.4	(4.5 - 12.4)	28.2	(8.7 - 47.6)*	6.5	(2.7 - 10.3)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**10.7**	**(9.6 - 11.7)**	**34.9**	**(30.3 - 39.5)**	**7.2**	**(6.2 - 8.1)**
SPA 1	10.6	(7.0 - 14.2)	39.1	(22.1 - 56.0)	7.1	(3.6 - 10.6)
SPA 2	10.3	(7.7 - 13.0)	30.3	(19.7 - 40.8)	7.3	(4.8 - 9.7)
SPA 3	11.5	(8.7 - 14.3)	41.8	(30.1 - 53.5)	7.9	(5.2 - 10.5)
SPA 4	12.9	(9.4 - 16.4)	34.7	(20.9 - 48.4)	9.5	(6.1 - 12.8)
SPA 5	16.9	(9.4 - 24.5)	78.4	(56.2 - 100.0)ǂ	9.8	(3.1 - 16.5)*
SPA 6	10.8	(8.6 - 13.0)	39.3	(29.1 - 49.4)	6.2	(4.4 - 7.9)
SPA 7	9.4	(6.6 - 12.1)	28.1	(17.3 - 38.9)	6.1	(3.5 - 8.6)
SPA 8	8.8	(6.3 - 11.3)	29.9	(17.6 - 42.2)	6.8	(4.4 - 9.2)
SD 1	11.4	(8.9 - 13.8)	41.4	(30.3 - 52.5)	7.6	(5.3 - 9.9)
SD 2	11.0	(9.2 - 12.8)	38.1	(29.7 - 46.4)	7.0	(5.4 - 8.5)
SD 3	11.9	(9.0 - 14.7)	33.5	(22.2 - 44.8)	8.5	(5.7 - 11.2)
SD 4	8.3	(6.1 - 10.5)	24.9	(16.0 - 33.7)	5.8	(3.7 - 7.9)
SD 5	11.8	(9.2 - 14.4)	41.7	(30.1 - 53.2)	7.6	(5.2 - 10.0)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix H: Rx Misuse Among Family Members

Do Any of Your Family Members Misuse Prescription Medication?
(%Yes)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**10.0**	**(8.9 - 11.0)**	**31.6**	**(26.8 - 36.4)**	**6.9**	**(5.9 - 7.8)**
Sex						
Male	10.8	(9.0 - 12.6)	29.9	(23.4 - 36.5)	6.9	(5.3 - 8.6)
Female	9.4	(8.1 - 10.6)	33.7	(26.7 - 40.7)	6.8	(5.7 - 7.9)
Age						
12-17	6.2	(4.4 - 7.9)	39.7	(27.0 - 52.4)	4.3	(2.6 - 6.0)
18-25	10.5	(7.9 - 13.2)	34.8	(23.6 - 46.0)	7.4	(5.0 - 9.9)
26-34	13.8	(11.1 - 16.6)	36.8	(27.2 - 46.4)	9.4	(6.9 - 12.0)
35-44	11.1	(8.5 - 13.6)	30.2	(19.9 - 40.6)	8.2	(5.8 - 10.6)
45-54	8.5	(6.2 - 10.8)	28.8	(18.2 - 39.4)	5.8	(3.7 - 8.0)
55+	8.4	(5.5 - 11.2)	25.0	(11.9 - 38.1)	5.3	(3.2 - 7.3)
Race/Ethnicity						
Latino	9.1	(7.9 - 10.4)	29.2	(23.4 - 35.1)	6.4	(5.3 - 7.5)
White	13.6	(10.0 - 17.3)	32.7	(21.1 - 44.2)	9.2	(5.9 - 12.6)
Black	18.6	(14.9 - 22.2)	58.8	(45.6 - 72.0)	12.6	(9.6 - 15.6)
Asian	4.2	(2.5 - 5.9)	19.1	(6.9 - 31.4)*	2.7	(1.3 - 4.1)
Multi	11.1	(5.3 - 16.9)	10.1	(.0 - 23.8)ǂ**	11.3	(4.8 - 17.7)
Nativity						
US Born	11.8	(10.4 - 13.1)	32.5	(27.3 - 37.7)	8.4	(7.2 - 9.7)
Foreign Born	6.5	(4.9 - 8.2)	28.1	(18.0 - 38.2)	4.1	(2.8 - 5.4)
Sexual Orientation						
Heterosexual	9.4	(8.2 - 10.5)	32.5	(26.8 - 38.1)	6.1	(5.2 - 7.1)
LGBQ	14.9	(11.2 - 18.6)	29.3	(19.2 - 39.5)	11.9	(8.0 - 15.8)
Other	10.4	(6.1 - 14.6)	30.4	(12.5 - 48.3)*	8.2	(4.0 - 12.5)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**10.0**	**(8.9 - 11.0)**	**31.6**	**(26.8 - 36.4)**	**6.9**	**(5.9 - 7.8)**
SPA 1	12.3	(8.6 - 15.9)	35.5	(19.4 - 51.5)	9.4	(5.8 - 13.0)
SPA 2	8.7	(6.6 - 10.8)	28.2	(18.3 - 38.0)	5.7	(3.9 - 7.5)
SPA 3	9.8	(7.1 - 12.4)	30.3	(18.7 - 41.8)	7.4	(4.8 - 9.9)
SPA 4	8.5	(5.5 - 11.6)	20.9	(9.4 - 32.5)	6.4	(3.4 - 9.4)
SPA 5	11.0	(4.6 - 17.3)	41.0	(11.9 - 70.0)ǂ*	7.5	(1.9 - 13.1)*
SPA 6	10.1	(7.9 - 12.2)	35.6	(25.7 - 45.5)	5.9	(4.2 - 7.7)
SPA 7	11.6	(8.2 - 15.0)	33.0	(19.6 - 46.5)	7.9	(5.1 - 10.6)
SPA 8	9.4	(6.7 - 12.0)	35.9	(22.0 - 49.7)	6.8	(4.4 - 9.2)
SD 1	9.5	(7.2 - 11.9)	26.6	(16.7 - 36.5)	7.4	(5.1 - 9.7)
SD 2	9.9	(8.2 - 11.6)	34.8	(26.4 - 43.2)	6.2	(4.9 - 7.6)
SD 3	8.3	(6.1 - 10.5)	23.1	(13.4 - 32.9)	6.0	(4.0 - 8.0)
SD 4	10.1	(7.4 - 12.8)	33.3	(21.4 - 45.2)	6.6	(4.4 - 8.8)
SD 5	13.1	(10.3 - 15.8)	41.3	(29.6 - 52.9)	9.1	(6.6 - 11.7)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
** The estimate is statistically unstable (RSE >50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix I: Perceived Easy Access

How Easy Would It Be for Someone to Get Prescription Medications on the Street Around Your Neighborhood? (% Very/Somewhat Easy)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**57.8**	**(56.0 - 59.5)**	**63.9**	**(59.1 - 68.7)**	**56.7**	**(54.8 - 58.6)**
Sex						
Male	52.8	(49.9 - 55.7)	58.9	(52.1 - 65.8)	51.3	(48.1 - 54.5)
Female	61.5	(59.4 - 63.6)	70.3	(63.9 - 76.8)	60.4	(58.2 - 62.7)
Age						
12-17	50.5	(47.3 - 53.7)	76.8	(66.1 - 87.5)	49.0	(45.6 - 52.3)
18-25	57.7	(53.6 - 61.9)	60.2	(49.3 - 71.2)	57.5	(53.0 - 62.0)
26-34	59.0	(55.1 - 63.0)	62.2	(52.7 - 71.7)	58.4	(54.0 - 62.7)
35-44	58.5	(54.3 - 62.6)	59.8	(48.5 - 71.0)	57.9	(53.4 - 62.3)
45-54	60.3	(55.5 - 65.1)	72.4	(60.3 - 84.6)	58.5	(53.4 - 63.7)
55+	58.7	(54.2 - 63.2)	62.5	(50.4 - 74.6)	57.5	(52.6 - 62.4)
Race/Ethnicity						
Latino	59.2	(57.1 - 61.3)	63.8	(57.9 - 69.7)	58.3	(56.1 - 60.5)
White	51.2	(45.7 - 56.6)	59.9	(47.7 - 72.1)	49.1	(43.1 - 55.2)
Black	62.4	(57.9 - 67.0)	76.2	(64.2 - 88.2)	60.5	(55.6 - 65.3)
Asian	45.8	(40.2 - 51.5)	55.1	(39.3 - 70.8)	45.0	(39.1 - 51.0)
Multi	55.2	(46.1 - 64.4)	70.9	(51.9 - 90.0)ǂ	52.6	(42.6 - 62.6)
Nativity						
US Born	56.7	(54.7 - 58.8)	63.9	(58.5 - 69.2)	55.6	(53.4 - 57.8)
Foreign Born	59.8	(56.5 - 63.1)	61.7	(50.9 - 72.4)	59.1	(55.6 - 62.6)
Sexual Orientation						
Heterosexual	57.7	(55.7 - 59.6)	65.2	(59.8 - 70.7)	56.5	(54.4 - 58.6)
LGBQ	58.3	(53.5 - 63.0)	61.1	(49.6 - 72.7)	57.3	(52.1 - 62.6)
Other	58.0	(51.9 - 64.1)	56.6	(36.5 - 76.8)	57.9	(51.5 - 64.3)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**57.8**	**(56.0 - 59.5)**	**63.9**	**(59.1 - 68.7)**	**56.7**	**(54.8 - 58.6)**
SPA 1	56.1	(50.5 - 61.8)	73.7	(58.9 - 88.4)	54.0	(47.9 - 60.0)
SPA 2	52.0	(48.0 - 56.0)	58.8	(47.4 - 70.2)	50.9	(46.7 - 55.2)
SPA 3	57.8	(53.2 - 62.3)	55.4	(43.3 - 67.5)	58.2	(53.3 - 63.0)
SPA 4	63.9	(58.6 - 69.1)	61.2	(46.8 - 75.7)	63.6	(57.9 - 69.2)
SPA 5	52.2	(42.0 - 62.3)	76.6	(53.2 - 100.0)ǂ	49.3	(38.5 - 60.1)
SPA 6	61.2	(57.3 - 65.0)	71.4	(62.0 - 80.8)	59.5	(55.3 - 63.6)
SPA 7	60.7	(56.1 - 65.4)	63.3	(51.1 - 75.6)	59.8	(54.7 - 64.8)
SPA 8	53.2	(48.6 - 57.8)	64.3	(50.8 - 77.8)	52.0	(47.0 - 56.9)
SD 1	61.5	(57.6 - 65.5)	61.6	(50.9 - 72.3)	61.4	(57.2 - 65.6)
SD 2	59.2	(56.0 - 62.3)	70.5	(62.6 - 78.3)	57.3	(53.9 - 60.7)
SD 3	53.5	(49.3 - 57.6)	60.6	(48.5 - 72.7)	52.3	(47.9 - 56.8)
SD 4	58.2	(54.3 - 62.1)	61.4	(50.2 - 72.6)	57.3	(53.1 - 61.5)
SD 5	53.2	(49.1 - 57.2)	62.8	(51.5 - 74.2)	51.8	(47.5 - 56.1)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix J: Perceived Risk of Youth Harm

How Much Do You Think *Youth* Risk Harming Themselves If They Misuse Prescription Medications Regularly? (% Great Risk)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**69.0**	**(67.3 - 70.6)**	**58.7**	**(53.7 - 63.7)**	**70.4**	**(68.7 - 72.1)**
Sex						
Male	64.2	(61.5 - 67.0)	55.6	(48.6 - 62.7)	65.9	(62.9 - 68.9)
Female	72.5	(70.5 - 74.4)	62.6	(55.6 - 69.6)	73.5	(71.5 - 75.5)
Age						
12-17	53.6	(50.4 - 56.8)	28.1	(17.6 - 38.6)	55.1	(51.8 - 58.4)
18-25	59.6	(55.4 - 63.8)	51.0	(39.9 - 62.2)	60.7	(56.1 - 65.3)
26-34	70.6	(66.8 - 74.3)	58.6	(48.8 - 68.4)	72.8	(68.7 - 76.8)
35-44	75.3	(71.7 - 78.9)	66.0	(55.2 - 76.8)	76.5	(72.6 - 80.3)
45-54	77.7	(73.7 - 81.7)	69.2	(57.6 - 80.9)	78.7	(74.4 - 83.0)
55+	71.8	(67.3 - 76.2)	57.2	(43.8 - 70.6)	74.8	(70.3 - 79.4)
Race/Ethnicity						
Latino	68.1	(66.2 - 70.1)	58.4	(52.2 - 64.6)	69.5	(67.4 - 71.5)
White	70.6	(65.7 - 75.6)	62.2	(50.2 - 74.2)	72.6	(67.2 - 78.0)
Black	71.2	(66.9 - 75.4)	62.3	(48.7 - 75.9)	72.4	(67.9 - 76.8)
Asian	73.5	(68.7 - 78.2)	44.0	(28.4 - 59.5)	76.0	(71.1 - 80.9)
Multi	64.0	(55.2 - 72.9)	70.4	(48.9 - 91.9)ǂ	62.9	(53.3 - 72.6)
Nativity						
US Born	67.2	(65.2 - 69.1)	59.3	(53.8 - 64.8)	68.4	(66.3 - 70.4)
Foreign Born	72.8	(69.7 - 75.9)	61.4	(50.7 - 72.0)	74.2	(70.9 - 77.4)
Sexual Orientation						
Heterosexual	70.3	(68.4 - 72.1)	58.4	(52.5 - 64.2)	71.8	(69.9 - 73.7)
LGBQ	62.1	(57.4 - 66.9)	60.2	(49.1 - 71.2)	62.8	(57.6 - 68.0)
Other	63.9	(57.8 - 69.9)	54.8	(35.7 - 73.9)	65.2	(58.8 - 71.6)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**69.0**	**(67.3 - 70.6)**	**58.7**	**(53.7 - 63.7)**	**70.4**	**(68.7 - 72.1)**
SPA 1	67.9	(62.5 - 73.2)	46.1	(26.7 - 65.4)	70.6	(65.1 - 76.1)
SPA 2	70.0	(66.3 - 73.6)	65.1	(53.9 - 76.3)	70.7	(66.8 - 74.5)
SPA 3	72.3	(68.2 - 76.4)	65.5	(54.4 - 76.7)	73.2	(68.9 - 77.6)
SPA 4	62.9	(57.5 - 68.3)	50.7	(36.0 - 65.4)	65.3	(59.5 - 71.1)
SPA 5	73.0	(64.1 - 82.0)	82.1	(66.1 - 98.0)	72.0	(62.3 - 81.8)
SPA 6	68.9	(65.3 - 72.5)	59.5	(49.2 - 69.9)	70.2	(66.4 - 74.1)
SPA 7	64.9	(60.2 - 69.6)	49.7	(36.6 - 62.8)	67.2	(62.3 - 72.1)
SPA 8	74.5	(70.4 - 78.5)	68.3	(56.3 - 80.3)	75.0	(70.7 - 79.3)
SD 1	67.5	(63.7 - 71.3)	62.1	(51.8 - 72.5)	68.3	(64.2 - 72.4)
SD 2	68.9	(65.9 - 71.8)	57.7	(48.9 - 66.5)	70.7	(67.6 - 73.8)
SD 3	69.4	(65.5 - 73.3)	64.3	(52.3 - 76.2)	70.1	(66.0 - 74.2)
SD 4	68.8	(65.0 - 72.6)	53.3	(41.5 - 65.2)	70.7	(66.8 - 74.6)
SD 5	71.6	(68.0 - 75.2)	58.5	(47.0 - 70.0)	73.4	(69.7 - 77.2)

Notes: Regular misuse was defined as misusing Rx medication at least once or twice a week.
PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix K: Perceived Risk of Adult Harm

How Much Do You Think *Adults* Risk Harming Themselves If They Misuse Prescription Medications Regularly? (% Great Risk)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**68.3**	**(66.5 - 70.2)**	**57.0**	**(51.7 - 62.2)**	**70.2**	**(68.2 - 72.1)**
Sex						
Male	65.1	(61.9 - 68.2)	53.8	(46.5 - 61.1)	67.7	(64.2 - 71.2)
Female	70.6	(68.4 - 72.8)	61.0	(53.5 - 68.5)	71.7	(69.4 - 74.1)
Age						
12-17	n/a	(n/a - n/a)	n/a	(n/a - n/a)	n/a	(n/a - n/a)
18-25	58.5	(54.1 - 62.9)	48.6	(37.3 - 60.0)	59.8	(55.0 - 64.6)
26-34	66.8	(62.9 - 70.6)	51.0	(41.1 - 60.9)	69.8	(65.7 - 73.9)
35-44	70.7	(67.1 - 74.4)	60.6	(49.8 - 71.5)	72.2	(68.3 - 76.1)
45-54	71.6	(67.1 - 76.0)	56.6	(44.3 - 68.9)	73.5	(68.8 - 78.2)
55+	72.4	(68.1 - 76.7)	65.6	(52.5 - 78.7)	74.0	(69.5 - 78.5)
Race/Ethnicity						
Latino	68.5	(66.2 - 70.7)	56.3	(49.8 - 62.8)	70.4	(68.1 - 72.8)
White	68.4	(63.0 - 73.8)	65.9	(54.2 - 77.5)	69.0	(62.9 - 75.2)
Black	66.8	(61.9 - 71.6)	50.5	(35.9 - 65.2)	69.2	(64.1 - 74.2)
Asian	68.5	(62.7 - 74.3)	47.8	(31.2 - 64.5)	70.2	(64.0 - 76.3)
Multi	61.4	(49.5 - 73.2)	68.5	(44.8 - 92.2)ǂ	59.7	(46.2 - 73.2)
Nativity						
US Born	68.3	(66.0 - 70.6)	58.9	(53.1 - 64.7)	70.2	(67.7 - 72.6)
Foreign Born	68.3	(65.0 - 71.5)	54.5	(43.4 - 65.6)	69.8	(66.4 - 73.2)
Sexual Orientation						
Heterosexual	69.5	(67.5 - 71.6)	57.2	(51.1 - 63.3)	71.4	(69.2 - 73.5)
LGBQ	59.7	(53.8 - 65.6)	55.6	(43.2 - 68.0)	61.6	(55.0 - 68.3)
Other	64.7	(57.7 - 71.7)	53.9	(33.6 - 74.1)	66.3	(58.9 - 73.8)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**68.3**	**(66.5 - 70.2)**	**57.0**	**(51.7 - 62.2)**	**70.2**	**(68.2 - 72.1)**
SPA 1	71.9	(65.9 - 77.9)	64.2	(44.2 - 84.1)	72.8	(66.5 - 79.1)
SPA 2	65.8	(61.5 - 70.1)	59.8	(48.2 - 71.5)	67.0	(62.4 - 71.6)
SPA 3	71.0	(66.2 - 75.8)	55.6	(42.5 - 68.7)	72.8	(67.7 - 78.0)
SPA 4	67.8	(62.0 - 73.6)	55.6	(40.6 - 70.6)	70.0	(63.7 - 76.3)
SPA 5	70.6	(60.9 - 80.4)	74.0	(54.1 - 93.9)ǂ	70.2	(59.6 - 80.8)
SPA 6	68.5	(64.5 - 72.6)	52.7	(41.5 - 63.9)	71.5	(67.2 - 75.8)
SPA 7	66.3	(61.1 - 71.5)	54.8	(41.0 - 68.6)	68.6	(63.0 - 74.2)
SPA 8	69.6	(64.9 - 74.4)	61.8	(48.1 - 75.5)	70.5	(65.4 - 75.6)
SD 1	66.9	(62.5 - 71.4)	52.8	(41.1 - 64.5)	68.5	(63.7 - 73.3)
SD 2	68.4	(65.1 - 71.6)	53.5	(44.2 - 62.8)	71.0	(67.5 - 74.4)
SD 3	66.8	(62.5 - 71.2)	63.3	(51.4 - 75.2)	67.6	(62.9 - 72.3)
SD 4	68.8	(64.6 - 73.0)	55.8	(43.5 - 68.0)	71.2	(66.9 - 75.6)
SD 5	72.0	(67.8 - 76.2)	64.0	(51.9 - 76.0)	73.2	(68.7 - 77.7)

Notes: Regular misuse was defined as misusing Rx medication at least once or twice a week.
PWMRx included those who had ever misused Rx medication.
Only adult surveys (age 18+) included this question.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix L: Perceived Peer Disapproval

How Would Your Close Friends Feel If You Misused Prescription Medication?
(%Strongly Disapprove/Disapprove)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**86.3**	**(85.1 - 87.5)**	**69.8**	**(65.0 - 74.6)**	**88.8**	**(87.6 - 90.0)**
Sex						
Male	83.2	(81.1 - 85.4)	66.0	(59.2 - 72.7)	87.0	(85.0 - 89.1)
Female	88.6	(87.1 - 90.0)	74.7	(68.1 - 81.3)	90.0	(88.6 - 91.4)
Age						
12-17	87.6	(85.8 - 89.5)	64.8	(52.8 - 76.9)	88.9	(87.1 - 90.8)
18-25	83.8	(80.8 - 86.7)	70.8	(60.8 - 80.9)	85.5	(82.4 - 88.5)
26-34	85.8	(83.0 - 88.6)	65.8	(56.6 - 75.1)	90.1	(87.5 - 92.8)
35-44	86.0	(83.2 - 88.9)	71.1	(60.8 - 81.4)	88.3	(85.5 - 91.1)
45-54	88.5	(85.3 - 91.7)	78.1	(67.8 - 88.5)	90.0	(86.6 - 93.3)
55+	86.2	(82.7 - 89.8)	67.4	(54.0 - 80.9)	89.8	(86.7 - 93.0)
Race/Ethnicity						
Latino	86.0	(84.6 - 87.5)	70.1	(64.2 - 76.0)	88.4	(86.9 - 89.8)
White	88.2	(84.6 - 91.7)	73.7	(62.0 - 85.3)	91.6	(88.4 - 94.8)
Black	85.2	(82.0 - 88.4)	58.6	(44.8 - 72.5)	89.4	(86.7 - 92.1)
Asian	87.6	(84.2 - 91.1)	72.6	(58.5 - 86.6)	89.2	(85.7 - 92.7)
Multi	86.5	(80.9 - 92.1)	70.7	(50.3 - 91.1)ǂ	89.2	(83.7 - 94.7)
Nativity						
US Born	87.1	(85.7 - 88.4)	73.1	(68.2 - 78.0)	89.5	(88.2 - 90.8)
Foreign Born	85.1	(82.6 - 87.6)	62.2	(51.5 - 72.9)	87.7	(85.2 - 90.1)
Sexual Orientation						
Heterosexual	87.6	(86.3 - 88.9)	71.6	(66.0 - 77.1)	89.9	(88.7 - 91.2)
LGBQ	81.3	(77.6 - 85.1)	72.1	(62.7 - 81.5)	83.8	(79.9 - 87.8)
Other	80.2	(75.0 - 85.4)	40.6	(23.3 - 57.9)	84.6	(79.5 - 89.6)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**86.3**	**(85.1 - 87.5)**	**69.8**	**(65.0 - 74.6)**	**88.8**	**(87.6 - 90.0)**
SPA 1	83.1	(78.5 - 87.7)	50.1	(31.1 - 69.0)	87.2	(83.3 - 91.1)
SPA 2	85.9	(83.1 - 88.6)	70.6	(60.1 - 81.1)	88.2	(85.5 - 90.9)
SPA 3	90.3	(87.7 - 92.9)	73.0	(61.7 - 84.2)	92.4	(89.9 - 95.0)
SPA 4	85.5	(81.7 - 89.3)	65.5	(51.3 - 79.8)	89.0	(85.5 - 92.5)
SPA 5	92.5	(88.6 - 96.4)	86.4	(71.9 - 100.0)ǂ	93.2	(89.2 - 97.2)
SPA 6	84.2	(81.5 - 86.9)	66.8	(57.3 - 76.3)	87.2	(84.5 - 89.9)
SPA 7	85.6	(81.9 - 89.3)	72.1	(59.0 - 85.3)	87.9	(84.3 - 91.5)
SPA 8	87.1	(83.9 - 90.2)	77.1	(66.1 - 88.1)	88.6	(85.4 - 91.9)
SD 1	88.8	(86.1 - 91.5)	73.3	(62.9 - 83.7)	90.6	(87.9 - 93.3)
SD 2	84.9	(82.7 - 87.1)	67.3	(59.2 - 75.3)	88.2	(86.1 - 90.3)
SD 3	86.0	(83.2 - 88.8)	70.0	(59.0 - 81.0)	88.5	(85.8 - 91.2)
SD 4	85.7	(82.8 - 88.7)	72.9	(61.4 - 84.5)	87.7	(84.9 - 90.5)
SD 5	86.3	(83.3 - 89.3)	62.9	(50.6 - 75.2)	89.6	(86.9 - 92.3)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix M: Unused Rx Medications

Do you Currently Have Unused or Expired (Left-over) Prescription Medications Where You Live? (%Yes)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**19.6**	**(18.2 - 21.0)**	**20.9**	**(17.2 - 24.6)**	**19.4**	**(17.9 - 20.9)**
Sex						
Male	14.8	(12.8 - 16.8)	16.1	(11.7 - 20.6)	14.4	(12.1 - 16.6)
Female	23.2	(21.4 - 25.1)	27.0	(21.0 - 33.0)	22.8	(20.9 - 24.8)
Age						
12-17	10.8	(9.1 - 12.5)	29.1	(17.8 - 40.5)	9.8	(8.1 - 11.4)
18-25	19.6	(16.2 - 22.9)	24.0	(14.7 - 33.3)	19.1	(15.5 - 22.7)
26-34	17.9	(15.1 - 20.7)	23.5	(15.6 - 31.3)	16.9	(13.9 - 19.9)
35-44	19.7	(16.5 - 23.0)	15.8	(8.7 - 23.0)	19.9	(16.4 - 23.3)
45-54	22.7	(18.6 - 26.7)	23.7	(12.6 - 34.9)	22.4	(18.1 - 26.8)
55+	24.9	(21.0 - 28.8)	16.4	(8.9 - 23.9)	26.6	(22.2 - 31.0)
Race/Ethnicity						
Latino	17.9	(16.3 - 19.5)	18.7	(14.4 - 22.9)	17.7	(16.0 - 19.5)
White	29.1	(24.1 - 34.1)	28.4	(17.2 - 39.6)	29.3	(23.6 - 34.9)
Black	21.2	(17.4 - 25.1)	27.7	(15.8 - 39.5)	19.9	(15.9 - 24.0)
Asian	23.3	(18.6 - 28.1)	19.6	(8.5 - 30.7)	23.8	(18.7 - 28.9)
Multi	23.5	(15.7 - 31.3)	27.5	(6.1 - 49.0)ǂ*	22.8	(14.5 - 31.1)
Nativity						
US Born	20.3	(18.7 - 22.0)	21.1	(16.9 - 25.4)	20.2	(18.4 - 22.0)
Foreign Born	19.0	(16.4 - 21.6)	22.2	(14.2 - 30.1)	18.5	(15.7 - 21.3)
Sexual Orientation						
Heterosexual	19.9	(18.4 - 21.5)	19.9	(15.7 - 24.1)	19.9	(18.2 - 21.5)
LGBQ	23.0	(18.8 - 27.2)	23.5	(14.7 - 32.3)	22.8	(18.0 - 27.6)
Other	13.0	(9.1 - 16.9)	29.0	(12.4 - 45.6)	11.4	(7.4 - 15.3)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**19.6**	**(18.2 - 21.0)**	**20.9**	**(17.2 - 24.6)**	**19.4**	**(17.9 - 20.9)**
SPA 1	16.9	(12.8 - 21.0)	31.9	(16.5 - 47.3)	15.0	(10.8 - 19.2)
SPA 2	21.9	(18.7 - 25.2)	21.9	(12.3 - 31.4)	22.0	(18.6 - 25.5)
SPA 3	20.7	(17.1 - 24.3)	28.4	(17.4 - 39.5)	19.8	(16.0 - 23.6)
SPA 4	19.2	(14.6 - 23.8)	21.9	(10.0 - 33.9)	18.9	(13.9 - 23.9)
SPA 5	38.8	(28.4 - 49.2)	65.7	(43.2 - 88.1)ǂ	35.7	(24.7 - 46.8)
SPA 6	16.4	(13.3 - 19.4)	14.0	(7.5 - 20.5)	16.6	(13.2 - 20.0)
SPA 7	17.1	(13.7 - 20.6)	13.2	(6.3 - 20.1)	17.5	(13.8 - 21.3)
SPA 8	21.4	(17.7 - 25.2)	26.5	(14.9 - 38.1)	21.0	(17.0 - 24.9)
SD 1	18.9	(15.8 - 22.1)	21.2	(12.5 - 29.9)	18.6	(15.2 - 22.1)
SD 2	19.1	(16.4 - 21.7)	17.2	(11.1 - 23.3)	19.4	(16.5 - 22.3)
SD 3	22.6	(19.2 - 26.1)	30.5	(19.4 - 41.7)	21.5	(17.9 - 25.2)
SD 4	17.4	(14.6 - 20.2)	14.7	(8.4 - 21.1)	17.4	(14.4 - 20.4)
SD 5	22.5	(19.2 - 25.9)	27.9	(17.9 - 37.9)	21.8	(18.2 - 25.4)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix N: Safe Disposal of Rx

What Do You Think are the Best Ways to Dispose of Unused or Expired (Left-over) Prescription Medications?

	Drop-off Locations		Safe Drug Sheriff Stations		Flush Down Toilet		Throw in Trash		Hospitals/Pharmacies	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**34.4**	**(32.7 - 36.1)**	**26.4**	**(24.9 - 28.0)**	**23.9**	**(22.4 - 25.3)**	**23.4**	**(21.9 - 24.8)**	**18.8**	**(17.4 - 20.1)**
Sex										
Male	31.8	(29.0 - 34.5)	25.9	(23.4 - 28.3)	23.1	(20.7 - 25.5)	23.9	(21.5 - 26.3)	18.3	(16.1 - 20.5)
Female	36.3	(34.2 - 38.5)	26.9	(24.9 - 28.8)	24.4	(22.6 - 26.2)	22.9	(21.1 - 24.7)	19.1	(17.3 - 20.8)
Age										
12-17	24.4	(21.5 - 27.3)	33.3	(30.1 - 36.6)	24.4	(21.5 - 27.4)	37.7	(34.6 - 40.9)	17.1	(14.6 - 19.7)
18-25	29.5	(25.5 - 33.5)	27.0	(23.3 - 30.7)	25.6	(21.8 - 29.5)	32.4	(28.4 - 36.4)	17.1	(14.0 - 20.3)
26-34	30.6	(27.1 - 34.2)	29.3	(25.7 - 33.0)	27.7	(24.2 - 31.2)	24.6	(21.1 - 28.1)	20.4	(17.2 - 23.7)
35-44	37.2	(33.1 - 41.4)	25.0	(21.2 - 28.8)	24.2	(20.8 - 27.7)	18.5	(15.2 - 21.7)	16.8	(13.8 - 19.7)
45-54	39.7	(35.0 - 44.4)	21.8	(17.8 - 25.8)	21.0	(17.0 - 25.0)	16.6	(13.2 - 20.0)	17.8	(14.1 - 21.4)
55+	41.9	(37.3 - 46.4)	23.7	(19.8 - 27.6)	20.1	(16.5 - 23.7)	15.3	(11.9 - 18.6)	22.5	(18.6 - 26.4)
Race/Ethnicity										
Latino	32.7	(30.7 - 34.7)	25.0	(23.2 - 26.8)	24.1	(22.3 - 25.9)	24.6	(22.8 - 26.3)	17.7	(16.1 - 19.3)
White	46.5	(41.0 - 51.9)	32.2	(27.2 - 37.3)	19.5	(15.4 - 23.5)	16.5	(12.9 - 20.1)	21.7	(17.1 - 26.2)
Black	34.1	(29.5 - 38.6)	23.8	(19.9 - 27.7)	31.6	(27.4 - 35.9)	18.4	(15.0 - 21.7)	19.4	(15.5 - 23.2)
Asian	37.1	(31.5 - 42.7)	37.3	(31.6 - 42.9)	18.5	(13.9 - 23.0)	24.8	(20.1 - 29.5)	25.6	(20.5 - 30.6)
Multi	35.5	(26.7 - 44.2)	33.9	(25.2 - 42.5)	26.6	(18.1 - 35.1)	27.3	(19.4 - 35.1)	29.2	(21.0 - 37.5)
Nativity										
US Born	34.4	(32.4 - 36.4)	29.6	(27.7 - 31.5)	25.0	(23.3 - 26.7)	24.5	(22.8 - 26.2)	19.4	(17.8 - 21.1)
Foreign Born	34.2	(31.0 - 37.4)	20.1	(17.4 - 22.8)	21.9	(19.0 - 24.7)	21.2	(18.4 - 23.9)	17.0	(14.5 - 19.5)
Sexual Orientation										
Heterosexual	35.7	(33.8 - 37.7)	27.2	(25.5 - 29.0)	23.1	(21.5 - 24.8)	22.5	(20.9 - 24.0)	19.1	(17.5 - 20.6)
LGBQ	32.7	(28.1 - 37.3)	29.9	(25.3 - 34.4)	28.5	(24.1 - 32.9)	30.4	(25.6 - 35.1)	20.8	(16.8 - 24.7)
Other	26.5	(21.1 - 32.0)	16.4	(12.1 - 20.6)	23.3	(18.2 - 28.4)	24.7	(19.1 - 30.3)	15.5	(10.9 - 20.2)

Notes: Respondents selected all choices that applied.

Appendix N: Safe Disposal of Rx (Cont.)

What Do You Think are the Best Ways to Dispose of Unused or Expired (Left-over) Prescription Medications?

	Don't Know		Mix and Throw‡		Other		Give Away	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**16.9**	**(15.5 - 18.2)**	**4.5**	**(3.8 - 5.2)**	**1.8**	**(1.3 - 2.3)**	**1.3**	**(0.9 - 1.7)**
Sex								
Male	19.0	(16.7 - 21.4)	3.5	(2.6 - 4.4)	1.5	(0.7 - 2.3)	2.0	(1.3 - 2.8)
Female	15.2	(13.7 - 16.8)	5.2	(4.3 - 6.1)	2.0	(1.4 - 2.6)	0.8	(0.4 - 1.1)
Age								
12-17	23.1	(20.6 - 25.5)	6.1	(4.6 - 7.6)	1.2	(0.6 - 1.8)	1.5	(0.8 - 2.2)
18-25	18.5	(15.4 - 21.6)	5.0	(3.3 - 6.7)	1.5	(0.3 - 2.6)*	2.4	(0.8 - 3.9)*
26-34	16.0	(12.8 - 19.2)	4.6	(3.1 - 6.1)	0.9	(0.2 - 1.6)*	1.2	(0.5 - 1.9)*
35-44	16.6	(13.2 - 20.0)	3.8	(2.1 - 5.5)	1.0	(0.3 - 1.8)*	1.1	(0.4 - 1.9)*
45-54	14.0	(10.6 - 17.4)	3.0	(1.6 - 4.4)	1.9	(0.8 - 3.0)	1.1	(0.1 - 2.1)*
55+	14.7	(11.1 - 18.3)	4.9	(3.2 - 6.7)	4.2	(2.1 - 6.2)	0.8	(0.1 - 1.5)*
Race/Ethnicity								
Latino	17.9	(16.3 - 19.6)	4.2	(3.5 - 5.0)	1.9	(1.3 - 2.5)	1.1	(0.7 - 1.5)
White	11.4	(8.1 - 14.7)	6.1	(3.5 - 8.8)	1.4	(0.2 - 2.6)*	1.9	(0.4 - 3.3)*
Black	16.3	(12.8 - 19.8)	3.7	(1.9 - 5.5)	2.6	(1.1 - 4.2)*	1.0	(0.1 - 1.8)*
Asian	13.4	(9.7 - 17.0)	5.6	(3.2 - 8.0)	0.1	(0.0 - 0.2)**	3.6	(1.6 - 5.6)
Multi	16.7	(10.2 - 23.3)	9.3	(3.6 - 15.0)*	1.4	(0.0 - 3.1)**	0.6	(0.0 - 1.5)**
Nativity								
US Born	15.9	(14.4 - 17.4)	4.8	(4.0 - 5.6)	1.7	(1.1 - 2.2)	1.3	(0.9 - 1.8)
Foreign Born	18.8	(16.0 - 21.6)	4.1	(2.8 - 5.4)	2.2	(1.1 - 3.3)	1.3	(0.6 - 1.9)
Sexual Orientation								
Heterosexual	15.8	(14.3 - 17.3)	4.2	(3.5 - 4.9)	1.8	(1.2 - 2.4)	1.2	(0.8 - 1.6)
LGBQ	16.4	(13.2 - 19.7)	6.6	(4.3 - 8.9)	1.9	(0.6 - 3.1)*	2.9	(1.4 - 4.4)
Other	24.7	(19.6 - 29.8)	4.9	(2.5 - 7.3)	1.3	(0.0 - 2.7)**	0.3	(0.0 - 0.8)**

Notes: Respondents selected all choices that applied.
‡ "Mix and throw" is defined as mixing with other materials (e.g., cat litter) and throwing in the trash.
"Other" responses included "keep them", "sell them", "harm reduction locations", etc.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
** The estimate is statistically unstable (RSE > 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Appendix O: Attitudes Towards Sharing Rx Medications

"It Is Okay To Share Prescription Medications With Those Who Need It"
(%Strongly Agree/Agree)

	Overall		PWMRx		Non-PWMRx	
Category	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**14.0**	**(12.8 - 15.1)**	**23.8**	**(19.9 - 27.7)**	**12.5**	**(11.3 - 13.7)**
Sex						
Male	16.1	(14.1 - 18.1)	26.2	(20.5 - 31.8)	14.1	(12.0 - 16.1)
Female	12.4	(11.0 - 13.8)	20.7	(15.6 - 25.8)	11.5	(10.1 - 12.9)
Age						
12-17	18.8	(16.5 - 21.1)	40.1	(27.5 - 52.6)	17.6	(15.3 - 20.0)
18-25	18.6	(15.3 - 21.8)	33.7	(23.6 - 43.9)	16.7	(13.3 - 20.2)
26-34	14.7	(11.9 - 17.4)	27.5	(19.0 - 35.9)	12.0	(9.2 - 14.8)
35-44	13.1	(10.3 - 15.9)	31.1	(20.6 - 41.6)	10.3	(7.6 - 13.1)
45-54	8.7	(6.5 - 10.9)	10.9	(5.1 - 16.7)	8.5	(6.1 - 10.9)
55+	11.5	(8.5 - 14.5)	11.7	(4.9 - 18.4)	11.3	(8.0 - 14.6)
Race/Ethnicity						
Latino	13.2	(11.9 - 14.6)	21.7	(17.2 - 26.3)	12.0	(10.6 - 13.4)
White	16.7	(12.6 - 20.7)	29.7	(18.4 - 41.1)	13.7	(9.5 - 17.8)
Black	14.3	(11.1 - 17.6)	29.9	(17.2 - 42.5)	12.0	(8.9 - 15.1)
Asian	18.3	(14.2 - 22.3)	26.5	(14.2 - 38.8)	17.6	(13.4 - 21.9)
Multi	15.3	(9.3 - 21.2)	36.3	(14.6 - 58.1)ǂ*	11.6	(5.9 - 17.3)
Nativity						
US Born	15.7	(14.3 - 17.2)	29.6	(24.7 - 34.5)	13.5	(12.0 - 14.9)
Foreign Born	10.8	(8.9 - 12.8)	9.7	(5.0 - 14.4)	10.8	(8.7 - 12.9)
Sexual Orientation						
Heterosexual	14.3	(12.9 - 15.6)	25.2	(20.4 - 29.9)	12.7	(11.4 - 14.1)
LGBQ	15.8	(12.7 - 18.9)	22.8	(15.2 - 30.4)	14.5	(11.0 - 18.0)
Other	10.3	(7.0 - 13.5)	11.9	(2.7 - 21.0)*	10.2	(6.7 - 13.6)

	Overall		PWMRx		Non-PWMRx	
Area	%	95% C.I.	%	95% C.I.	%	95% C.I.
LAC	**14.0**	**(12.8 - 15.1)**	**23.8**	**(19.9 - 27.7)**	**12.5**	**(11.3 - 13.7)**
SPA 1	12.6	(9.3 - 16.0)	26.8	(11.9 - 41.7)	10.9	(7.6 - 14.2)
SPA 2	11.4	(9.1 - 13.6)	21.8	(12.7 - 31.0)	9.7	(7.5 - 11.9)
SPA 3	17.0	(13.6 - 20.4)	34.8	(23.6 - 46.0)	14.9	(11.3 - 18.5)
SPA 4	14.8	(11.1 - 18.6)	26.2	(14.0 - 38.4)	12.8	(9.0 - 16.6)
SPA 5	20.3	(12.2 - 28.4)	45.8	(17.1 - 74.5)ǂ*	17.3	(9.3 - 25.3)
SPA 6	13.0	(10.4 - 15.6)	26.5	(17.6 - 35.5)	10.7	(8.1 - 13.4)
SPA 7	11.8	(9.0 - 14.6)	13.2	(5.8 - 20.7)	11.6	(8.6 - 14.7)
SPA 8	17.5	(14.1 - 20.9)	23.1	(11.9 - 34.3)	16.8	(13.3 - 20.4)
SD 1	15.5	(12.7 - 18.3)	23.0	(14.9 - 31.1)	14.4	(11.4 - 17.4)
SD 2	12.7	(10.6 - 14.8)	23.3	(16.0 - 30.6)	11.0	(8.9 - 13.2)
SD 3	12.3	(9.9 - 14.8)	27.2	(16.7 - 37.8)	10.0	(7.7 - 12.3)
SD 4	14.8	(12.2 - 17.3)	19.6	(11.6 - 27.6)	14.2	(11.5 - 17.0)
SD 5	14.6	(11.9 - 17.3)	30.3	(19.9 - 40.6)	12.4	(9.7 - 15.1)

Notes: PWMRx included those who had ever misused Rx medication.
Non-PWMRx included those who had never misused Rx medication.
* The estimate is for planning or policy purposes (RSE is between 30% and 50%); Interpret with caution.
ǂ The estimate is statistically unstable (sample size < 30); Interpret with caution.

Los Angeles County Department of Public Health

Barbara Ferrer, Ph.D., M.P.H., M.Ed.
Director

Muntu Davis, M.D., M.P.H.
Health Officer

Anish P. Mahajan, M.D., M.S., M.P.H
Chief Deputy Director

Rashmi Shetgiri, M.D., M.S.
Chief Science Officer

Health Outcomes and Data Analytics Division

Tina Kim, **Ph.D., M.A.**
Chief

Katherine Bercovitz, **Ph.D., M.A.**
Martha Medina, M.P.H.

Substance Abuse Prevention and Control Bureau

Gary Tsai, **M.D., FAPA, FASAM**
Bureau Director

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For more information about this report, please contact Dr. Tina Kim at tkim@ph.lacounty.gov.