Supplementary Materials

Appendix A. Survey Questions

**(Demographics)**

What is your age? _____ years

Which of the following best describes your racial or ethnic group?
□ Asian - East (e.g., Chinese, Japanese, Korean)
□ Asian – South (e.g., Indian, Pakistani, Sri Lankan)
□ Asian – South East (e. g., Malaysian, Filipino, Vietnamese)
□ Black – African (e.g., Ghanaian, Kenyan, Somali)
□ Black – Caribbean (e.g., Barbadian, Jamaican)
□ Black – North American (e.g., Canadian, American)
□ First Nation
□ Indian – Caribbean (e.g., Guyanese with origins in India)
□ Indigenous / Aboriginal not included elsewhere
□ Inuit
□ Mixed Heritage (e.g., Black – African and White- North American)
(Please specify): _____
□ Latin American (e.g., Argentinean, Chilean, Salvadoran)
□ Metis
□ Middle Eastern (e.g., Egyptian, Iranian, Lebanese)
□ White – European (e.g., English, Italian, Portuguese, Russian)
□ Do not know
□ Other (s) (Please specify):_____

What sex were you assigned at birth? (Check ONE only)
□ Male
□ Female
□ Intersex
□ Do not know
□ Other (s) (Please specify):_____

What is your gender? (Check ONE only)
□ Man
□ Woman
□ Trans Man
□Trans Woman
□Gender-diverse/non-binary/genderqueer
□Two-Spirit
□ Do not know
□ Other (s) (Please specify):_____

What is your sexual orientation? (Check ONE only)
□ Heterosexual (Straight)
□ Gay
□Lesbian
□Bisexual
□Two-Spirit
□ Queer
□ Do not know
□ Other (s) (Please specify):_____

What type of housing do you live in? (Check All that apply)
□ Own Home
□ Renting
□ Boarding Home
□ Correctional/ Facility
□ Homeless /On the street
□ Group Home
□ Shelter/Hostel
□ Supportive Housing
□ Do not know
□Living with Parents
□ Other (s) (Please specify):_____

What was your total family income before taxes last year? (Check ONE only)
□ $0 - $ 14 999
□ $15000 - $19 999
□ $20000 - $24999
□ $25000 - $29999
□ $30000 - $34999
□ $35000 - $39999
□ $40000 - $59999
□ $60000 or more
□ Do not know

What is the highest level of education you have completed? (Check ONE only)
□ Some primary school
□ Primary School
□ Some high school
□ High school diploma
□ Some college
□ College diploma
□ Some university
□ University degree

□ Do not know

For which of the following classes of substances have you received a diagnosis of a substance use disorder/addiction or been referred to treatment?
□ Alcohol
□ Sedatives-hypnotics-anxiolytics (pills to calm you down, help you relax or help you sleep like Valium, Xanax, Ativan, Klonopin, Ambien, Sonata, or Lunesta)
□ Cannabis (marijuana, "pot", "grass", "weed", hashish/"hash", THC)
□ Stimulants or "uppers" (to give you more energy, keep you alert, lost weight, or help you focus; drugs like speed, methamphetamine, crystal meth, "crank", Ritalin or methylphenidate, Dexedrine, Adderall or amphetamine or prescription diet pills)
□ Cocaine or "crack"
□ Opioids (heroin, methadone, or prescription pain killers like morphine, codeine, Percocet, Percodan, Oxycontin, Tylox, or oxycodone, Vicodin, Lortab, Lorcet or hydrocodone, suboxone or buprenorphine)
□ Hallucinogens (drugs to "trip" or heighten your senses, like LSD, "acid," peyote, mescaline, psilocybin, Ecstasy [MDMA, "molly"], bath salts, DMT or other hallucinogens)
□ Phencyclidine (PCP) and related substances (PCP ("angel dust," "peace pill") or ketamine ("Special K," "Vitamin K"))
□ Inhalants (glue, paint, or correction fluid, gasoline, or other inhalants to get high)

## (Cannabis Use Characteristics)

### All Participants

Have you used cannabis in the past 12 months?
□ Yes □ No

Have you used cannabis in your life?
□ Yes □ No

### Current Use group (past-year use)

Do you use cannabis mainly for medicinal reasons and/or recreational reasons? (Check ONE only)
□ Medicinal reasons
□ Recreational reasons
□ Both
□ Don't know

In the past 12 months, have you used the following cannabis products for medical purposes? (Check all that apply; if none apply, please do not check any answer)
□ Dried flower/leaf (smoked or vaporized)
□ Hashish/kief

□ Liquid concentrate (e.g., hash oil, butane honey oil, etc.)
□ Cannabis oil cartridges or disposable vape pens
□ Solid concentrate (e.g., shatter, budder, etc.)
□ Edibles (e.g., prepared food products)
□ Liquid (e.g., cola/tea)
□ Other  (e.g., tinctures, topical ointments, fresh flower/leaf for juicing) (please specify without providing any identifiable information):_____

Please describe the THC and CBD contents of the products you have used in the past 12 months for medical purposes? (Check ALL that apply)
□ CBD only
□ THC only
□ High CBD / low THC
□ High THC / low CBD
□ Balanced THC and CBD
□ Other, Please specify: ……… THC … (%, mg/ml, mg) , CBD … (%, mg/ml, mg)

In the past 12 months, from whom did you usually obtain the cannabis you used for medical purposes? (Check ALL that apply)
□ I grow my own
□ It was grown for me
□ It was shared around a group of friends
□ From a family member or friend
□  From an acquaintance
□ From a dealer or storefront dispensary
□ Health Canada licensed producer by mail order
□ Other (please specify) :_____
□ Don't know

In the past 12 months, did you use the following method to consume cannabis for non-medical purposes? (Check ALL that apply)
□Smoked (e.g., a joint, bong, pipe or blunt)
□ Eaten it in food (e.g., brownies, cakes, cookies or candy)
□ Drank it (e.g., tea, cola, alcohol, other drinks)
□ Vaporized it with a vaporizer (non-portable)
□ Vaporized it with a vape pen or e-cigarette (portable)
□ Dabbing (e.g., including hot knife/nail)
□ Used it some other way (e.g., tinctures, applied directly to skin) (please specify):_____

In the past 12 months from whom did you usually obtain the cannabis you used for non-medical purposes from? (Check ALL that apply)
□ I grow my own
□ It was grown for me

□ It was shared around a group of friends
□ From a family member or friend
□ From an acquaintance
□ From a dealer or storefront dispensary
□ Health Canada licensed producer by mail order
□ Other (please specify) :_____
□ Don't know

## Past Use group (lifetime use but no use in past year)

Did you use cannabis mainly for medicinal reasons and/or recreational reasons?  (Check ONE only)
□ Medicinal reasons
□ Recreational reasons
□ Both
□ Don't know

In the past, did you use the following cannabis products for medical purposes?
(Check all that apply; if none apply, please do not check any answer)
□ Dried flower/leaf (smoked or vaporized)
□ Hashish/kief
□ Liquid concentrate (e.g., hash oil, butane honey oil, etc.)
□ Cannabis oil cartridges or disposable vape pens
□ Solid concentrate (e.g., shatter, budder, etc.)
□ Edibles (e.g., prepared food products)
□ Liquid (e.g., cola/tea)
□ Other  (e.g., tinctures, topical ointments, fresh flower/leaf for juicing) (please specify without providing any identifiable information):_____

Please describe the THC and CBD contents of the products you have used in the past for medical purposes? (Check ALL that apply)
□ CBD only
□ THC only
□ High CBD / low THC
□ High THC / low CBD
□ Balanced THC and CBD
□ Other, Please specify: ……… THC … (%, mg/ml, mg) , CBD … (%, mg/ml, mg)

In the past, from whom did you usually obtain the cannabis you used for medical purposes from? (Check ALL that apply)
□ I grow my own
□ It was grown for me
□ It was shared around a group of friends
□ From a family member or friend

□ From an acquaintance
□ From a dealer or storefront dispensary
□ Health Canada licensed producer by mail order
□ Other (please specify) :_____
□ Don't know

In the past, did you use the following method to consume cannabis <u>for non-medical purposes</u>? (Check ALL that apply)
□ Smoked (e.g., a joint, bong, pipe or blunt)
□ Eaten it in food (e.g., brownies, cakes, cookies or candy)
□ Drank it (e.g., tea, cola, alcohol, other drinks)
□ Vaporized it with a vaporizer (non-portable)
□ Vaporized it with a vape pen or e-cigarette (portable)
□ Dabbing (e.g., including hot knife/nail)
□ Used it some other way (e.g., tinctures, applied directly to skin) (please specify):_____

In the past from whom did you usually obtain the cannabis you used for <u>non-medical purposes</u> from? (Check ALL that apply)
□ I grow my own
□ It was grown for me
□  It was shared around a group of friends
□  From a family member or friend
□  From an acquaintance
□  From a dealer or storefront dispensary
□  Health Canada licensed producer by mail order□  Other (please specify) :_____
□  Don't know

## Appendix B. In-Depth Interview Guide

The interview will be divided into three sections. First, we will be assessing the reason why you use cannabis, and how it makes you feel. Second, we will be asking how you look for information about different cannabis products and what types of products you buy. Third, we will be asking about your expectancies of cannabis use.

The interview will last approximately **sixty to ninety minute,** though this is just an estimate, as it depends on how you answer the questions. If you need to stop the interview to take a break at any time, please let me know.

I will be audio recording the interview because I do not want to miss any of your comments. Because we are recording the session, please make sure to speak up so that we do not miss anything you are saying. Shortly after the session, the audio recording will be transcribed, and the audio recordings will be deleted.

All responses will be kept confidential. This means that your interview responses will only be shared with the research team, and we will make sure that any information we include in the reports we write does not identify you as the responder. Please remember that you do not have to talk about anything you don't want to, and you may end the interview at any time.

Are there any questions about what I just explained before we begin?

Part 1: Motives for Cannabis Use

I'll start by asking you to discuss the reasons for your cannabis use and whether your cannabis use relates to your substance use disorder.

1. I would like you to think back to the time when you started using cannabis. What was your reason for starting to use cannabis?
   a. **Probe question**: Did you already have symptoms of mental health or substance use problems? Did using cannabis have any impact on your symptoms or did it impact your use or the effects of other drugs?
   b. **Other possible probe questions**:
      i. How old were you?
      ii. What was your occupation?
      iii. How did you feel immediately before using cannabis for the first time? What about after using cannabis for the first time?
      iv. Were there others with you at the time, and if so, what did they think of your cannabis use?
2. Why did you continue to use cannabis regularly?
3. In what situations do you use cannabis today?
   a. Who is with you? How do they feel about you using cannabis?

4. How does using cannabis make you feel, before and after using?
   a. **Probe question**: What are some common positive and negative experiences? For example, do you notice specific effects on your body, or on your memory, behavior, emotions, or stress levels?
   b. **Probe question**: How can cannabis make you feel in certain situations, such as when alone, when in a social situation, or around someone who may interest you sexually?
5. What effect does cannabis have on your symptoms of Substance Use Disorder today?
   a. Has anything changed since you started using cannabis?
6. How do you usually cope with your symptoms of Substance Use Disorder? (Does cannabis play a role?)
7. Is there anything else you would like to add at this time?

Part 2: Cannabis Products and Purchasing Trends

Given that purchasing cannabis for recreational use is now legal in Canada, this part of the interview will focus on asking questions about your purchasing trends. Specifically, I will be asking about your cannabis product preferences and how you get your information about the content of cannabis products you purchase.

8. How do you find information about cannabis products (for example: from the Internet, from friends)?
9. How do you purchase cannabis?
10. What kinds of cannabis products do you purchase (for example: edibles, cannabis oils, dried flower, vape cartridges or other vape products)?
    a. **Probe question**: Do you have preferences about the cannabis products you buy? Why or why not?
11. As you may know, two of the main ingredients in cannabis are THC, which can make some people feel high, and cannabidiol or CBD, which can make some people feel more relaxed. Some strains of cannabis have higher amounts of THC, some have higher amounts of CBD, while some have approximately equal amounts of both ingredients. Did you know about this difference?
    a. If so, do you consider this information when purchasing cannabis that you use? Why?
12. Does the choice of cannabis product or cannabis strain have any impact on your symptoms of Substance Use Disorder?
13. Is there anything more you would like to add at this time?

Part 3: Expectancies of the Effects of Cannabis

In the last section of the interview, I would like to discuss your expectancies about the effects of cannabis use. As opposed to examining your motivations and reasons

for using cannabis (like we did in the first section of the interview), I would like you to focus on what your expectations are when you use cannabis. This question is designed to elicit your opinions about the cannabis use, rather than your motivations.

14. Before you started using cannabis, what did you think about people who used cannabis and why they did it?
    a. **Probe question**: How did you think cannabis would affect them, and what impact did you think cannabis had on them? (Were these positive or negative expectations?)
    b. **Probe question**: Did you think cannabis would affect their body, memory, emotions, or behavior? How did you think using cannabis affected them in different situations, such as when alone or in social situations?
15. Before you started using cannabis, what effect did you think cannabis would have had on you? Why?
    a. **Probe question**: How did you think cannabis would have affected you? (Did you think those effects would have been positive or negative?)
    b. **Probe question**: What did you think those effects would have been on your body, memory, behavior, or speech? Why?
    c. **Probe question**: What did you think those effects would have been when you were alone?  Why?
    d. **Probe question**: What do you think those effects would have been when you were in with other people? Why?
    e. **Probe question**: Before you started using cannabis, how did you think using cannabis would have impacted your symptoms of Substance Use Disorder? Why?
16. When you started using cannabis, did your expectancies of the effects of cannabis use change?  If so, how did they change?  (What was different?)
    a. **Probe question**: Did your expectancies change in regards to effects of cannabis on your body, memory, behavior, emotions, or speech? Did your expectancies change in regards to effect of cannabis while you were alone or in social situations?
17. How do you feel about using cannabis today? Why?
18. From the time you started using cannabis to now, has anything else changed about your expectancies of the effects of cannabis? If so, what has changed and why?
    a. **Probe question**: Have your expectancies changed in regards to effects of cannabis on your body, memory, behavior, emotions, or speech? Have your expectancies changed in regards to effect of cannabis while you were alone or in social situations?
19. We're now at the end of the interview. Is there anything else you'd like to add?

eTable 1. *Self-reported lifetime treatment for Substance Use Disorders (SUDs), by SUD Type (total n = 472; 363 current cannabis use, 109 past cannabis use)*

| SUD Type | Cannabis Use Group | ER Visit n (%) | Psychiatrist n (%) | Medication n (%) | Psychotherapy n (%) | Family Physician n (%) | Inpatient n (%) |
|---|---|---|---|---|---|---|---|
| Alcohol use disorder | Current | 65 (18%) | 66 (18%) | 87 (24%) | 41 (11%) | 51 (14%) | 49 (14%) |
| | Past | 13 (12%) | 19 (17%) | 20 (18%) | 10 (9%) | 10 (9%) | 9 (8%) |
| Sedative use disorder | Current | 9 (2%) | 10 (3%) | 11 (3%) | 9 (2%) | 8 (2%) | 8 (2%) |
| | Past | 2 (2%) | 4 (4%) | 1 (1%) | 2 (2%) | 1 (1%) | 0 |
| Cannabis use disorder | Current | 10 (3%) | 36 (10%) | 25 (7%) | 22 (6%) | 14 (4%) | 9 (2%) |
| | Past | 2 (2%) | 5 (5%) | 2 (2%) | 2 (2%) | 2 (2%) | 3 (3%) |
| Stimulant use disorder | Current | 19 (5%) | 20 (6%) | 20 (6%) | 12 (3%) | 14 (4%) | 21 (6%) |
| | Past | 2 (2%) | 3 (3%) | 2 (2%) | 1 (1%) | 1 (1%) | 2 (2%) |
| Cocaine use disorder | Current | 19 (5%) | 30 (8%) | 22 (6%) | 12 (3%) | 20 (6%) | 30 (8%) |
| | Past | 6 (6%) | 15 (14%) | 10 (9%) | 5 (5%) | 6 (6%) | 5 (5%) |
| Opioid use disorder | Current | 37 (10%) | 29 (8%) | 51 (14%) | 20 (6%) | 22 (6%) | 30 (8%) |
| | Past | 7 (6%) | 16 (15%) | 12 (11%) | 6 (6%) | 4 (4%) | 5 (5%) |
| Hallucinogen use disorder | Current | 2 (1%) | 4 (1%) | 6 (2%) | 3 (1%) | 3 (1%) | 8 (2%) |
| | Past | 2 (2%) | 4 (4%) | 3 (3%) | 2 (2%) | 1 (1%) | 2 (2%) |
| PCP use disorder | Current | 3 (1%) | 4 (1%) | 1 (0.3%) | 1 (0.3%) | 2 (1%) | 5 (1%) |
| | Past | 1 (1%) | 1 (1%) | 1 (1%) | 1 (1%) | 1 (1%) | 1 (1%) |
| Inhalant use disorder | Current | 0 | 0 | 0 | 0 | 1 (0.3%) | 1 (0.3%) |
| | Past | 0 | 0 | 1 (1%) | 0 | 0 | 0 |