National Report

Findings from the Survey on the Impact of COVID-19 on access to STBBI-related services, including harm reduction services, for African, Caribbean and Black people in Canada

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Résultats de l'Enquête sur l'incidence de la COVID-19 sur l'accès aux services de santé liés aux ITSS, y compris les services de réduction des méfaits, pour les personnes issues des communautés africaines, caribéennes et noires au Canada

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Acknowledgment

The success of this survey and of the national report was possible because of the Public Health Agency of Canada's collaboration and partnership with several community stakeholders including community researchers, organizations and members to ensure community engagement at every step of the survey including planning and implementation. Key stakeholders include the University of Ottawa and Women's Health in Women's Hands (WHIWH) who assembled a National Expert Working Group (NEWG) to guide the implementation of the survey. The NEWG consisted of African Caribbean and Black (ACB) researchers, service providers, and community members and leaders. NEWG referred to this project as the ACB Community PHAC-funded COVID-19 Impact (APCI) study. The authors gratefully acknowledge and thank all the members of the NEWG, Peer Research Assistants and the participants.



Introduction

The COVID-19 pandemic has disrupted health and social welfare in a proportion unparalleled in the recent past. The surge of the SARS-CoV-2 virus introduced the implementation of physical distancing measures to prevent onward transmission, nation wide shutdowns leading to social and economic consequences, and limited access to medical and social support services (1). In addition to the impact of the pandemic on public health, unprecedented challenges in delivering primary healthcare, including sexually transmitted and blood borne infections (STBBI) prevention, testing and treatment services as well as harm reduction services, have been reported across the country. These disruptions have had a disproportionate impact on populations most at risk for human immunodeficiency virus (HIV), or hepatitis C virus infection, and other STBBI. In Canada, these populations include African, Caribbean and Black (ACB) people, First Nations, Inuit and Métis peoples, and people who use drugs or alcohol (PWUD) (2,3,4).

Studies show that STBBI such as HIV, hepatitis C and syphilis contribute to increased health burden for ACB people, First Nations, Inuit and Métis peoples, and PWUD, as these infections occur more frequently in these populations that already face unique challenges (5,6,7). Specifically, the social determinants of health, including structural barriers to healthcare, systemic racism, stigma and discrimination, housing instability, food insecurity, mental health issues, and family violence are known to account for disproportionate health risks and differential health outcomes for these key populations (8,9,10,11,12). As such, the COVID-19 pandemic added another layer of vulnerability to populations already experiencing structural and social barriers to healthcare access.

Early in the pandemic, the Public Health Agency of Canada (PHAC) identified priority information gaps, representing the impetus to collect data to measure the impact of COVID-19 on the health and well-being of Canadians as well as its impact on provision of healthcare. In addition, the need for disaggregated data, specifically on ethnoracial status, unavailable from national case-based surveillance early on in the pandemic, was identified as a targeted priority. To address these information gaps, PHAC undertook to generate timely information on the impact of COVID-19 on provision of STBBI-related services among service providers and key populations known to be more affected by STBBI.

Four national online surveys were developed to better understand the impact of the COVID-19 pandemic on access to and delivery of STBBI prevention, testing and treatment, as well as harm reduction services. The first survey, the Survey on the Impact of COVID-19 on the delivery of STBBI prevention, testing and treatment including harm reduction services in Canada, was conducted in November and December of 2020. It focused on community-based organizations and local public health units providing STBBI-related services in Canada and examined the impact of COVID-19 on their ability to provide such services (13). Three separate surveys of key populations were also undertaken for ACB people, First Nations, Inuit and Métis peoples, and PWUD. These population-specific surveys explored the impact of COVID-19 on access to STBBI-related services, as well as social and structural determinants of health that impact access to services, including mental health, housing stability, food insecurity, domestic violence, racism, stigma and discrimination, and substance use. The surveys were conducted in collaboration and partnership with several community stakeholders, who assembled expert working groups, such as the National Expert Working Group for the ACB survey.

This report presents the descriptive findings of the national Survey on the Impact of COVID-19 on access to STBBI-related services including harm reduction services for African, Caribbean and Black people in Canada, conducted from May 25, 2021 to July 12, 2021. In this survey, ACB people includes anyone who self-identifies as African, Caribbean or Black including people from historical Black communities in Canada, such as African Nova Scotian communities. The acronym ACB is increasingly being used across Canada to refer to culturally diverse Black people living in this country.

Methods

Survey design

The Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services for African, Caribbean and Black people in Canada was a national online, self-administered, cross-sectional survey. The survey design was inspired by the rapid assessment trendspotter methodology used in the European Monitoring Centre for Drug Addiction's online survey on the impact of COVID-19 (14). Conducting the survey online avoided the COVID-19 risk associated with close physical contact that could occur with face-to-face interviews. Additionally, the online survey method supported data collection from a potentially large number of participants over a short period of time.

Community engagement

PHAC collaborated and partnered with several community stakeholders including community researchers, organizations and members to ensure community engagement at every step of the survey, including planning and implementation. Key stakeholders included the University of Ottawa and Women's Health in Women's Hands (WHIWH)

who assembled the National Expert Working Group (NEWG). The NEWG consisted of ACB researchers, service providers, and community members and leaders. The NEWG was considered an innovative community-based participatory approach for promoting the survey through various methods to ensure appropriate representation across diverse ACB sub-populations.

Sub-committees of the NEWG included knowledge mobilization, data analysis, community engagement, capacity building and data governance. These committees coordinated various activities to facilitate the review and interpretation of the survey findings. They were also involved in the development of different knowledge translation products including this report, data visualization dashboards, conference presentations, master slide deck, World Café virtual events, a PHAC published Data Blog and an infographic (to be released at a later date).

Questionnaire

Survey questions were developed from questionnaires used in prior surveys by the National Tracks Surveillance System and existing online surveys measuring the impact of COVID-19 (7,14,15,16,17,18,19). Input from community members was also received to ensure survey questions and objectives were relevant to the specific target population and aligned with the realities and needs of the community. The survey collected information about sociodemographic characteristics, social determinants of health (i.e., mental health and wellness, employment and financial security, food security, domestic violence, and discrimination), substance use, use of and access to STBBI-related services including harm reduction services, and changes to accessing these services because of the pandemic. With the exception of a few open-ended questions (i.e., participant's age, first three characters of participant's postal code,

number of years lived in Canada, and general comments regarding participant's experiences during the pandemic); all other questions were closed-ended (i.e., checkboxes).

The questionnaire was available in English and French and took approximately 10 to 20 minutes to complete. No directly identifying information was captured on the questionnaire.

Eligibility criteria

Participant eligibility criteria included living in Canada at the time of the survey, aged 18 years or older, ability to read English or French, and self-identifying as African, Caribbean or Black. Before starting the survey, details regarding privacy and personal information were provided to participants. At the end of this section, participants were presented with the following statement: "By clicking the Start Survey button, you have read and understood the information on this page and consent to participation." A weblink to mental health support and resources was also provided if the participant found any questions upsetting.

Recruitment

PHAC worked collaboratively with the NEWG to promote the survey. PHAC contacted just over 800 stakeholders including provincial and territorial contacts, local public health and community-based organizations to distribute the survey link and participate as appropriate. National and regional STBBI organizations and other government departments were encouraged to promote the survey link to their networks of service providers. Service providers were also encouraged to share the survey link with their clients and other known community-based organizations that provide STBBI services as deemed appropriate. Combined, over

5,000 different organizations and individuals from the general population were emailed through existing stakeholder contact lists. The survey link was also distributed via PHAC social media channels (i.e., over 175,000 Facebook followers, 500,000 Twitter followers and 275,000 LinkedIn followers) throughout the data collection period and social media messages were re-posted by key national stakeholders.

The University of Ottawa, WHIWH and the NEWG also developed and implemented targeted recruitment strategies to promote the survey. These included using their existing networks of community-based organizations, Peer Research Associates (PRAs), social media and online social events. The PRAs were recruited and trained to raise awareness of the survey within their communities by attending virtual community events and webinar sessions. The PRAs also targeted and promoted the survey among hard-to-reach populations including the youth, seniors and elderly.

The survey protocol and questionnaire were approved by the Health Canada/PHAC Research Ethics Board. Due to the anonymous nature of this survey and an anticipated low participant burden, reimbursement was not offered for participation in this survey.

Measures

All indicators are measured from the questions asked in the survey. While a large part of the indicators can be interpreted directly from the survey questions, some required additional coding for proper interpretation. In some cases, categories were collapsed to account for small cell counts or when similar concepts needed to be grouped. Described below are the measures used.

Food security

From a list of statements related to food access and food security, participants were asked how true each statement was since the start of the COVID-19 pandemic using a scale of "often true", "sometimes true" and "never true." Participants were classified as experiencing food insecurity if they indicated "often true" or "sometimes true" to any of the following statements:

- The food that you or other household members bought just didn't last, and there wasn't any money to get more
- You or other household members couldn't afford to eat balanced meals
- You ate less than you felt you should because there wasn't enough money to buy food
- Others in your household ate less than you felt they should because there wasn't enough money to buy food
- You or other household members accessed food or meals, at no cost to you, from a community organization

Domestic violence

From a list describing specific acts of domestic violence, participants were asked how their experiences with each of these acts, in the place where they lived, changed since the start of the COVID-19 pandemic. Answer options were "less often", "more often", "no change", "never experienced or does not apply to me", and "prefer not to answer." For each act of domestic violence, a variable was derived separating participants who reported experiencing the specific act from those who did not. Participants were classified as experiencing the specific act if they indicated "less often", "more often" or "no change" to any of the following acts:

- Someone yelled at you or said things to you that made you feel bad about yourself, embarrassed you in front of others, or frightened you
- Someone did things like push, grab, hit, slap, kick, or throw things at you during an argument or because they were angry with you
- Someone was more sexually aggressive towards you
- Someone yelled at someone you live with
- Someone did things like push, grab, hit, slap, kick, or throw things at someone you live with
- Someone controlled how money was spent in your household including limiting your access or withholding funds from you

Discrimination

From a list of attributes possibly related to discrimination, participants were asked for their self-perception of change in their experiences of discrimination when accessing healthcare services since the start of the COVID-19 pandemic. Answer options were "increase", "decrease", "no change", and "did not experience." Participants were classified as experiencing discrimination when accessing healthcare services if they indicated "increase", "decrease" or "no change" to any of the following attributes:

- Race or ethnicity or skin color, including anti-Black racism
- Gender
- Sexual orientation
- Use of substances
- Economic status
- Disability
- Age

Access to STBBI-related services

Participants were asked about their accessibility to the following three STBBI-related services:

- STBBI prevention, testing and treatment services (e.g., STBBI testing and treatment, oral HIV pre-exposure prophylaxis (PrEP), condom and/or dental dam provision, etc.)
- Harm reduction services (e.g., needle or syringe distribution, on-site consumption, drug checking, naloxone training and provision, etc.)
- Substance use and treatment services (e.g., counselling, opioid substitution treatment, inpatient services, etc.)

From a list of specific services, participants were asked to describe their access to these services since the start of the COVID-19 pandemic. Answer options were "always able to access", "sometimes able to access", "wanted or tried to, but was not able to access", and "did not try to access." Participants were classified as having difficulty accessing a specific service if they reported "sometimes able to access" or "wanted or tried to, but were not able to access."

Analysis

The purpose of this report and the analyses undertaken were exploratory and descriptive in nature. Descriptive statistics were computed with SAS Enterprise Guide 7.1. Small cell counts were assessed to determine the risk of identifying individual participants, and were left in when it was determined that there was no risk of re-identification, as per PHAC's Directive for the Collection, Use and Dissemination of Information Relating to Public Health (PHAC, 2013, unpublished document). Where data in the table contain small cell counts, the results should be interpreted with caution. For each survey question, participants who responded

with answer options "prefer not to answer", "don't know", "refused" (i.e., skipped and proceeded to next question without providing an answer), or "not stated" (i.e., questions not answered because session timed out after 2 hours of inactivity) were excluded from analyses of the question except where otherwise indicated.

Results

Sociodemographic characteristics

A total of 1,556 eligible individuals participated in the survey from May 25, 2021 to July 12, 2021. The majority of participants were living in Ontario (42.7%) with smaller proportions living in Quebec (12.7%), British Columbia (10.9%), Alberta (10.9%), Newfoundland and Labrador (5.2%), Prince Edward Island (4.3%), New Brunswick (4.0%), Nova Scotia (3.5%), Saskatchewan (1.9%), Manitoba (1.2%), and the Territories (2.5%) (Table 1).

Among all participants, the average age was 40.2 years, ranging from 18 to 86 years. The largest proportion of participants were between the ages of 25 to 39 years (39.6%), followed by those aged 40 to 54 years (33.4%), 55 years of age and older (15.6%), with the smallest proportion of participants younger than 25 years of age (11.4%).

Most (63.2%) respondents self-identified as Black African, followed by 28.3% self-identifying as Black Caribbean, 7.3% as Black Indigenous or Black Canadian, 1.7% as Black American, 1.1% as Black Latin American, 6.6% as Multiracial (i.e., where one parent is Black), and 1.6% as another Black identity.

Nearly two-thirds (66.2%) of respondents identified their gender as cisgender female and one-third (30.9%) as cisgender male. A smaller proportion of respondents identified as transmasculine (2.2% - i.e., those assigned female at birth who

identified with either male or a non-binary gender) and transfeminine (0.7% - i.e., those assigned male at birth who identified with either female or a non-binary gender). Most (81.8%) respondents reported their sexual orientation as heterosexual or straight and smaller proportions identified as gay or lesbian (4.7%), bisexual (6.6%), Two-spirit (0.6%), other (3.5%), or don't know (2.7%).

Under half (40.8%) of respondents were Canadian citizens born outside of Canada while about one-quarter (23.2%) were Canadian citizens born in Canada. Nearly one-in-five (18.8%) respondents reported being a landed immigrant or permanent resident with smaller proportions reporting being a temporary resident (10.0%), convention refugee or protected person (3.8%), refugee claimant or person in need of protection (2.3%), undocumented or with no immigration status (0.5%), asylum seeker (0.3%), or another non-Canadian citizen status (0.4%) (see footnote of Table 1 for further details on citizenship and immigration status). Among participants not born in Canada, most (29.0%) reported living in Canada for less than five years, followed by between five to nine years (23.5%), 10 to 14 years (17.2%), 25 years or more (15.6%), 15 to 19 years (8.3%), and finally 20 to 24 years (6.5%).

Among all participants, 88.2% had more than a high school education, 7.2% completed up to and including high school, and 4.6% had less than a high school education.

Since the start of the COVID-19 pandemic, the majority (93.6%) of participants were living in stable housing (i.e., living in their own or rented apartment or house, or in a family member's or friend's place). A smaller proportion (6.4%) reported living in precarious or inadequate housing (i.e., living in multiple residences or couch surfing, a hotel or motel room, rooming or boarding house, shelter or hostel, transition or halfway house, psychiatric institution or

drug treatment facility, public place, or correctional facility).

When asked about healthcare insurance that covers all or part of healthcare costs and/or prescription drugs during the COVID-19 pandemic, most (66.3%) respondents reported having healthcare insurance coverage, while nearly one-quarter (24.0%) of participants reported not having healthcare coverage. One-in-ten respondents (9.7%) did not know whether they had healthcare insurance.

Table 1. Sociodemographic characteristics of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Characteristic	n	Total°	%		
Province or Territory where particip	Province or Territory where participant lives				
British Columbia	169	1554	10.9		
Alberta	170	1554	10.9		
Saskatchewan	30	1554	1.9		
Manitoba	19	1554	1.2		
Ontario	664	1554	42.7		
Quebec	197	1554	12.7		
New Brunswick	62	1554	4.0		
Nova Scotia	54	1554	3.5		
Prince Edward Island	67	1554	4.3		
Newfoundland and Labrador	81	1554	5.2		
Territories ^b	39	1554	2.5		
None of the above ^c	2	1554	0.1		
Age group					
Younger than 25 years	178	1556	11.4		
25 to 39 years	616	1556	39.6		
40 to 54 years	519	1556	33.4		
55 to 64 years	173	1556	11.1		
65 years or older	70	1556	4.5		

Table 1. Sociodemographic characteristics of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021 (continued)

Characteristic	n	Total°	%		
Race or racial background ^d	Race or racial background ^d				
Black African	983	1556	63.2		
Black Caribbean	441	1556	28.3		
Black Indigenous or Black Canadian	113	1556	7.3		
Black American	27	1556	1.7		
Black Latin American	17	1556	1.1		
Multiracial (where one parent is Black)	103	1556	6.6		
Another Black race	25	1556	1.6		
Gender identity ^e					
Cisgender female	990	1496	66.2		
Cisgender male	462	1496	30.9		
Transfeminine ^f	11	1496	0.7		
Transmasculine ^g	33	1496	2.2		
Sexual orientation ^h					
Heterosexual or straight	1271	1553	81.8		
Gay or lesbian	73	1553	4.7		
Bisexual	102	1553	6.6		
Two-spirit	10	1553	0.6		
Other	55	1553	3.5		
Don't know	42	1553	2.7		
Citizenship status					
Canadian citizen - born in Canada	358	1546	23.2		
Canadian citizen - not born in Canada	630	1546	40.8		
Landed immigrant or permanent resident	291	1546	18.8		
Convention refugee or protected person ⁱ	59	1546	3.8		
Refugee claimant or person in need of protection ^j	35	1546	2.3		
Asylum seeker ^k	5	1546	0.3		

		a	0.4
Characteristic	n	Total ^a	%
Temporary resident ^l	155	1546	10.0
Undocumented or no immigration status	7	1546	0.5
Not a Canadian citizen - other	6	1546	0.4
Number of years living in Canada ^m			
Less than 5 years	282	974	29.0
5 to 9 years	229	974	23.5
10 to 14 years	167	974	17.2
15 to 19 years	81	974	8.3
20 to 24 years	63	974	6.5
25+ years	152	974	15.6
Education, highest level			
Less than high school	67	1462	4.6
Completed high school	105	1462	7.2
Some college, CEGEP, vocational school, trade school, or apprenticeship training	94	1462	6.4
Completed college, CEGEP, vocational school, trade school, or apprenticeship training	159	1462	10.9
Some university	111	1462	7.6
Completed university certificate or diploma	131	1462	9.0
Completed undergraduate university degree	356	1462	24.4
Completed graduate or professional university degree	429	1462	29.3
Other	10	1462	0.7
Housing status ⁿ			
Stable housing°	1456	1555	93.6
Precarious or inadequate housing ^p	99	1555	6.4
Healthcare insurance coverage ^{q,r}			
Yes	1031	1554	66.3
No	373	1554	24.0
Don't know	150	1554	9.7

Table 1. Sociodemographic characteristics of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021 (continued)

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- **b** Includes Nunavut, Yukon and Northwest Territories.
- c Respondents were eligible to participate if they reported that they were in Canada at the time of enrollment. While all respondents represented in these tables met all eligibility criteria, participants were provided the option to select "None of the above" as a valid answer to this question.
- d The proportions for race or racial background do not add up to 100% as they were not mutually exclusive; participants could report more than one type of race or racial background.
- e The Multidimensional Sex/Gender Measure was used to measure gender identity (20).
- f Transfeminine included those assigned male at birth who identified with either female or a non-binary gender.
- g Transmasculine included those assigned female a birth who identified with either male or a non-binary gender.
- h Total represents total counts for this indicator excluding "Prefer not to answer", "Refused" and "Not stated" values.
- i For the answer option "convention refugee or protected person", participants were provided with the following additional information: "i.e., you have been formally approved as a refugee".
- j For the answer option "refugee claimant or person in need of protection", participants were provided with the following additional information: "i.e., you have applied to become a refugee but your application has not been approved yet".
- k For the answer option "asylum seeker", participants were provided with the following additional information: "i.e., you are a person seeking refugee status but have not yet been processed".
- For the answer option "temporary resident", participants were provided with the following additional information: "e.g., student, temporary worker, visitor, super visa (parent and grandparent)".
- m This indicator was measured among participants who were born outside of Canada.
- n This indicator measured the participant's living situation since the start of the COVID-19 pandemic. Participants could report more than one type of living situation.

- Participants were classified as living in stable housing if they were only living in their own apartment or house, or in a relative's or friend's place.
- Participants were classified as living in precarious or inadequate housing if they indicated living in any of the following situations: living in multiple residences or couch surfing, a hotel or motel room, rooming or boarding house, shelter or hostel, transition or halfway house, psychiatric institution or drug treatment facility, public place, or correctional facility.
- **q** Total represents total counts for this indicator excluding "Prefer not to answer", "Refused" and "Not stated" values.
- r This indicator measured having insurance that covers all or part of healthcare costs and/or prescription drugs, since the start of the COVID-19 pandemic.

Social determinants of health

Mental health and wellness

At the time of the survey, almost half (47.2%) of participants reported their mental health as excellent or very good, one quarter (26.1%) reported their mental health as good, 20.7% as fair and 6.1% as poor (Table 2). When asked how their mental health changed since the start of the pandemic, overall 41.5% reported no change in their mental health, about one-third (33.1%) of respondents reported somewhat worse or much worse mental health; while one-quarter (25.4%) of respondents reported somewhat better or much better mental health. This was different when looking at participants by their reported mental health at the time of data collection (Figure 1). Specifically, the majority (78.7%) of participants with poor mental health felt their mental health was worse since the start of the pandemic. This proportion dropped to 58.9% among participants with fair mental health, 36.5% among those with good mental health, and 14.1% among those with excellent or very good mental health.

Table 2. Mental health of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Indicator	n	Total°	%
Mental health at the time of the survey			
Excellent or very good	733	1553	47.2
Good	405	1553	26.1
Fair	321	1553	20.7
Poor	94	1553	6.1
Change in mental health since the start of the COVID-19 pandemic			
Much better now	146	1554	9.4
Somewhat better now	248	1554	16
About the same	645	1554	41.5
Somewhat worse now	406	1554	26.1
Much worse now	109	1554	7.0

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.

Two-in-five (41.9%) participants accessed, considered accessing, or wanted to access mental health and wellness services (Table 3). Among them, 41.4% reported being sometimes able and sometimes not able to access services, while 20.4% reported not being able to access these services at all. The remaining 38.3% reported always being able to access services.

Among respondents who were not able to access mental health and wellness services, the most frequent barriers reported included the following:

- Difficulty getting a referral, appointment, or contacting a doctor or nurse to get information or advice (55.2%)
- Cost (32.7%)

- Difficulty accessing service(s) because of COVID-19 related public health measures (27.3%)
- Culturally safe and responsive services were not available (26.6%)

Table 3. Access and barriers to accessing mental health and wellness services among participants in the *Survey* of the *Impact of COVID-19* on access to *STBBI-related* services including harm reduction services in Canada, 2021

Indicator	n	Total°	%	
Accessed or considered accessing mental health and wellness services ^b since the start of the COVID-19 pandemic				
Yes	645	1538	41.9	
No	893	1538	58.1	
Ability to access mental health and	wellness	services ^c		
Not able to access services	131	643	20.4	
Sometimes able and sometimes not able to access services	266	643	41.4	
Always able to access services	246	643	38.3	
Barriers to accessing mental health	and welln	ess servi	ces ^d	
Difficulty getting a referral, appointment, or contacting a doctor or nurse to get information or advice	214	388	55.2	
Cost	127	388	32.7	
Difficulty accessing service because of COVID-19 related public health measures	106	388	27.3	
Culturally safe and responsive services were not available	103	388	26.6	
Waited too long between booking an appointment and visit or waited too long to get healthcare service	97	388	25.0	
The service was not available at time required	93	388	24.0	
Fear of, or concern about exposure to someone with COVID-19	87	388	22.4	

Table 3. Access and barriers to accessing mental health and wellness services among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021 (continued)

Indicator	n	Total°	%
Fear of, concern about or experienced racism, including anti-Black racism	82	388	21.1
Fear of, concern about or experienced stigma, discrimination, or violence	71	388	18.3
Difficulty accessing remote services	38	388	9.8
Transportation problems	35	388	9.0
Language problem	11	388	2.8
Other	35	388	9.0

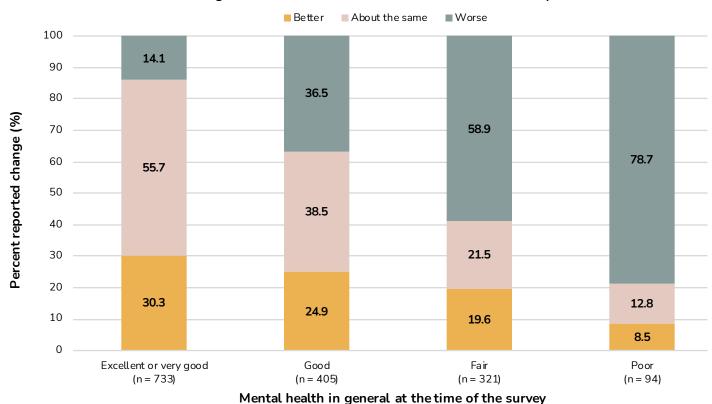
Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- **b** This included mental health care providers, community supports, faith-based and spiritual care supports, etc.
- c This indicator was measured among those who reported they accessed, considered accessing, or wanted to access mental health and wellness services since the start of the COVID-19 pandemic.
- d This indicator was measured among participants who were not always able to access mental health and wellness services. The proportions for barriers to accessing mental health and wellness services do not add up to 100% as they were not mutually exclusive; participants could report more than one type of barrier to accessing these services.

Figure 1. Changes in mental health since the start of the COVID-19 pandemic among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Changes in mental health since the start of the COVID-19 pandemic



Employment and financial security

Prior to the COVID-19 pandemic, about half (49.9%) of participants reported having full-time employment, with smaller proportions reporting part-time work (18.8%), being a full- or part-time student (16.0%), or being unemployed (13.5%) (Table 4). Less than one-in-ten (6.2%) participants reported volunteering, not working due to disabilities (4.3%), being retired (4.1%), looking after children or other family members (2.7%), or having another work situation (1.9%). When asked to describe changes in their work situation since the start of the COVID-19 pandemic, half (50.2%) of respondents reported little to no change, and 18.7% reported either reduced hours and/or pay, 16.9% had to stop working, while 14.3% reported increased hours and/or pay. Among those who reported having reduced hours or stopping work, the majority (44.2%) identified business closure or layoff related to the COVID-19 pandemic as the cause.

Almost one-third (30.2%) of respondents reported that the COVID-19 pandemic resulted in no change in their ability to pay bills for essential needs, such as rent or mortgage payments, utilities, and groceries, and less than one-in-ten (8.8%) respondents reported that it was too soon to tell at the time of survey. Nearly half (43.1%) of respondents reported that the COVID-19 pandemic had a major or moderate impact on their ability to pay bills while 18.0% reported a minor impact.

Less than half (43.9%) of respondents applied and received employment or emergency response benefits since the start of the COVID-19 pandemic. The Canadian Emergency Response Benefit (54.3%) was the most often reported benefit received during this time, followed by regular Employment Insurance benefits (37.9%). Considerably lower proportions of respondents reported receiving other types of benefits (Table 4).

Participants were asked if they have received relief or payment deferrals for any financial obligations during the COVID-19 pandemic, specifically for rent or mortgage payments, car payments or household bills. Among those who needed relief or payment deferrals, three-quarters (74.9%) reported not receiving relief or deferrals for household bills, 66.9% for car payments, and 58.1% for rent or mortgage payments.

Table 4. Employment and financial security of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Indicator	n	Total°	%	
Work situation before the COVID-19 pandemic ^b				
Employed or self-employed full time	749	1502	49.9	
Employed or self-employed part time	283	1502	18.8	
Full or part time student	240	1502	16.0	
Unemployed	202	1502	13.5	
Volunteering	93	1502	6.2	
Not working due to disabilities	65	1502	4.3	
Retired	62	1502	4.1	
Looking after children or other family members	41	1502	2.7	
Other	29	1502	1.9	
Change in work situation since the spandemic	tart of th	e COVID-:	19	
Little to no change	749	1493	50.2	
Reduced hours and/or pay	279	1493	18.7	
Had to stop working	252	1493	16.9	
Increased hours and/or pay	213	1493	14.3	
Main reason for limited or stopped work				
Business closure or layoff related to the COVID-19 pandemic	235	532	44.2	
Personal circumstances related to the COVID-19 pandemic ^d	112	532	21.1	

Table 4. Employment and financial security of participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021 (continued)

Indicator	n	Total°	%
Unplanned absence not related to the COVID-19 pandemic ^e	58	532	10.9
Planned absence not related to the COVID-19 pandemic ^f	26	532	4.9
Other unspecified reason	101	532	19.0
Impact of the COVID-19 pandemic of	n ability t	o pay bill	s ^g
Major impact	287	1486	19.3
Moderate impact	353	1486	23.8
Minor impact	267	1486	18.0
No impact	449	1486	30.2
Too soon to tell	130	1486	8.8
Employment or emergency response start of the COVID-19 pandemic	benefits	received s	since the
Applied and received benefits	639	1455	43.9
Did not apply for any benefits	486	1455	33.4
Did not qualify for any benefits	330	1455	22.7
Type of employment or emergency r since the start of the COVID-19 pan		enefits re	eceived
Canada Emergency Response Benefit (CERB) ⁱ	347	639	54.3
Canada Emergency Student Benefit (CESB) ^j	71	639	11.1
Regular Employment Insurance benefits	242	639	37.9
Sickness	33	639	5.2
Other Employment Insurance benefit	33	639	5.2
Caregiving or compassionate care	10	639	1.6
Work-sharing	6	639	0.9
Received relief or payment deferrals COVID-19 pandemic ^k	since the	start of t	he
Rent or mortgage payments			
I have these payments and I needed relief or payment deferrals but didn't receive them	179	308	58.1

I have these payments and I received relief or payment deferrals	129	308	41.9
Car payments			
I have these payments and I needed relief or payment deferrals but didn't receive them	95	142	66.9
I have these payment and I received relief or payment deferrals	47	142	33.1
Household bills			
I have these payments and I needed relief or payment deferrals but didn't receive them	236	315	74.9
I have these payments and I received relief or payment deferrals	79	315	25.1

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b The proportions for work situation do not add up to 100% as they were not mutually exclusive; participants could report more than one type of work situation.
- c This indicator was measured among participants who indicated they had reduced their hours and/or pay or had to stop working.
- d Personal circumstances related to COVID-19 included personal safety, own or household member's exposure, self-isolation after recent travel, taking care of children due to school and/or daycare closures.
- e An unplanned absence not related to COVID-19 included illness or disability other than COVID-19, caring for children or elder relative for non-COVID-19 reasons, labour dispute (strike or lockout).
- f A planned absence not related to COVID-19 included vacation, work schedule, maternity or parental leave, seasonal job or business.
- g Bills referred to those for essential needs, such as rent or mortgage payments, utilities, and groceries.
- h This indicator was measured among participants who applied for employment or emergency response benefits. The proportions for benefits do not add up to 100% as they were not mutually exclusive; participants could report more than one type of benefit.
- i The Canada Emergency Response Benefit (CERB) provided financial support to employed and self-employed Canadians who were directly affected by COVID-19 between March 15 and September 26, 2020.
- j The Canada Emergency Student Benefit (CESB) provided financial support to post-secondary students, and recent post-secondary and high school graduates who were unable to find work due to COVID-19 between May 10 and August 29, 2020.
- k This indicator was measured among participants who had rent or mortgage, car and/or household bill payments and needed relief or payment deferrals

Food security

Among all participants, more than half (53.0%) reported experiencing some level of food insecurity during the COVID-19 pandemic (Table 5). The following specific experiences of food insecurity were reported: food didn't last and respondents didn't have money to get more (39.9%), respondents couldn't afford balanced meals (36.6%), respondents (32.6%) or other household members (29.0%) ate less because there was not enough money to buy food, and respondents accessed food (at no cost) from a community organization (26.8%).

When looking at food insecurity across reported work situation prior to the pandemic (Figure 2), it was greatest among respondents who were not working due to disabilities (72.9%), who were unemployed (68.8%), and those who reported volunteer work (65.9%). It is worth noting that those who had full-time employment (44.4%) and those retired (47.4%) prior to the COVID-19 pandemic also reported high rates of food insecurity.

Table 5. Food security among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

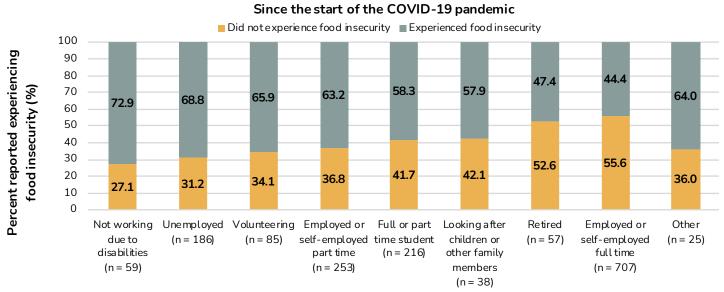
Indicator	n	Total°	%
Experienced food insecurity since th	e start of	the COVI	D-19
Experienced food insecurity	742	1399	53.0
Did not experience food insecurity	657	1399	47.0
Specific experiences of food insecur COVID-19 pandemic	ity since t	he start o	f the
Food didn't last and no money to get more	558	1400	39.9
Couldn't afford balanced meals	511	1397	36.6
Personally ate less because not enough money to buy food	455	1397	32.6
Other household members ate less because not enough money to buy food	405	1397	29.0
Accessed food (at no cost) from a community organization	376	1403	26.8

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b Participants were classified as experiencing food insecurity if they indicated "Often true" or "Sometimes true" to any of the food insecurity situations since the start of the COVID-19 pandemic: the food that you or other household members bought just didn't last, and there wasn't any money to get more; you or other household members couldn't afford to eat balanced meals; you ate less than you felt you should because there wasn't enough money to buy food; others in your household ate less than you felt they should because there wasn't enough money to buy food; you or other household members accessed food or meals, at no cost to you, from a community organization.

Figure 2. Food insecurity since the start of the COVID-19 pandemic by employment status among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

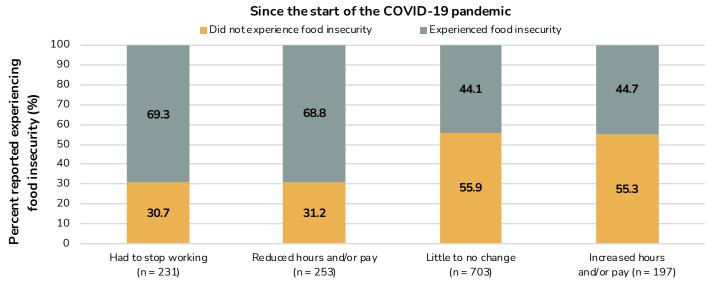


Employment status before the COVID-19 pandemic

Food insecurity was also examined among participants by changes in work situation since the start of the COVID-19 pandemic (Figure 3). Food insecurity was greater among those that had to stop working (69.3%) or those who reported reduced

hours and/or pay (68.8%) during the COVID-19 pandemic, compared to those that reported little to no change in their work situation (44.1%) or increased hours and/or pay during this time (44.7%).

Figure 3. Food insecurity by changes in work situation since the start of the COVID-19 pandemic among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021



Change in work situation since the start of the COVID-19 pandemic

Domestic violence

The majority (62.3%) of respondents reported living with family since the beginning of the COVID-19 pandemic (Table 6). Smaller proportions reported living alone (20.3%) or with roommate(s) or friend(s) (16.8%), and 0.7% reported living in a shelter or experiencing homelessness during this time.

In the year prior to the COVID-19 pandemic, the majority (59.4%) of respondents reported feeling very safe where they lived, with about one-third (33.6%) reported feeling somewhat safe, and a smaller proportion (7.1%) reported feeling not safe. When asked to rate their self-perceived safety where they lived during the COVID-19 pandemic, about three-quarters (74.8%) of respondents reported no change, 17.3% reported feeling less safe, and the remainder (7.9%) feeling more safe.

Table 6. Living arrangement and feelings of safety in the home among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

n	Total°	%	
Living arrangement since the start of the COVID-19 pandemic			
851	1367	62.3	
277	1367	20.3	
230	1367	16.8	
9	1367	0.7	
Self-reported safety where participant lived in the year before the COVID-19 pandemic			
790	1331	59.4	
447	1331	33.6	
94	1331	7.1	
Change in self-reported safety where participant lives since the start of the COVID-19 pandemic			
240	1387	17.3	
1037	1387	74.8	
110	1387	7.9	
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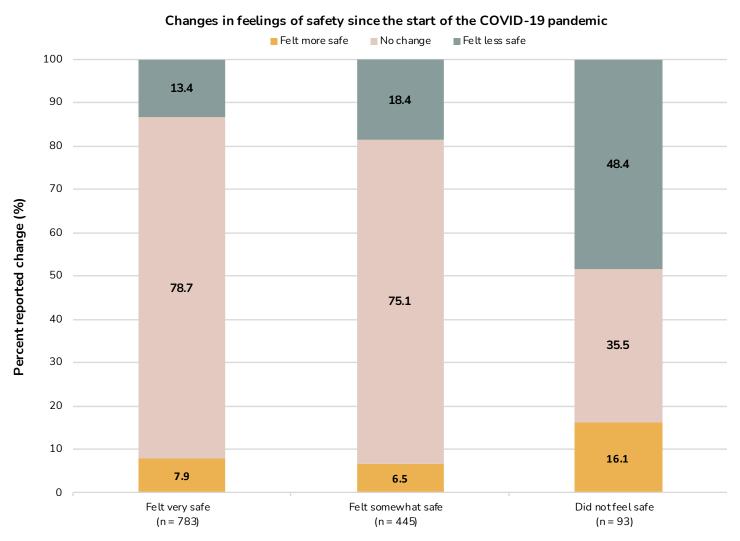
Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.

Experiences of safety during the pandemic were examined across participants based on the level of safety felt prior to the pandemic (Figure 4). Among those who reported not feeling safe prior to the pandemic, almost half (48.4%) reported feeling less safe during the pandemic, 35.5% felt the same, and 16.1% felt more safe during the pandemic. Distributions of changes in personal safety among participants feeling very and somewhat safe in the year prior to the pandemic were generally similar, with more than three-quarters of respondent reporting no change in personal safety during this time (78.7% and 75.1%, respectively).

Figure 4. Changes in feelings of safety in the home since the start of the COVID-19 pandemic among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021



Feelings of safety in the home in the year before the COVID-19 pandemic

Since the start of the COVID-19 pandemic, half (50.1%) of participants reported experiencing verbal abuse directed towards them and 42.1% reported experiencing verbal abuse directed towards someone else in the household (Table 7). Almost one-third (30.6%) reported experiencing financial abuse (i.e., someone controlling how money was spent, limiting access or withholding funds). Over

one-quarter (26.5%) reported experiencing physical abuse directed towards them and 21.8% directed to someone else in the household. One-in-four (25.0%) participants reported experiencing sexual aggression. Those who experienced any type of domestic violence, were asked to report changes.

Table 7. Experiences of domestic violence among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Indicator Since the start of the COVID-19			
pandemic	n	Total°	%
Experienced verbal abuse ^b	ı		
Any	587	1171	50.1
None	584	1171	49.9
Change in frequency of verbal abuse	9		
More often	214	587	36.5
The same	264	587	45.0
Less often	109	587	18.6
Experienced verbal abuse directed a household ^c	t someon	e else in	
Any	501	1191	42.1
None	690	690	57.9
Change in frequency of verbal abuse household	e to some	one else ir	1
More often	174	501	34.7
The same	248	501	49.5
Less often	79	501	15.8
Experienced financial abuse ^d			
Any	365	1194	30.6
None	829	829	69.4
Change in frequency of financial abu	ıse		
More often	98	365	26.9
The same	226	365	61.9
Less often	41	365	11.2
Experienced physical abuse ^e			
Any	314	1186	26.5
None	872	872	73.5
Change in frequency of physical abu	se		
More often	63	314	20.1
The same	205	314	65.3
Less often	46	314	14.7

Indicator Since the start of the COVID-19 pandemic	n	Total°	%	
Experienced physical abuse directed household ^f	l at some	one else in	1	
Any	260	1195	21.8	
None	935	935	78.2	
Change in frequency of physical abundance household	se to som	eone else	in	
More often	36	260	13.9	
The same	194	260	74.6	
Less often	30	260	11.5	
Experienced sexual aggression ^g				
Any	296	1182	25.0	
None	886	886	75.0	
Change in frequency of sexual aggression				
More often	37	296	12.5	
The same	224	296	75.7	
Less often	35	296	11.8	

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

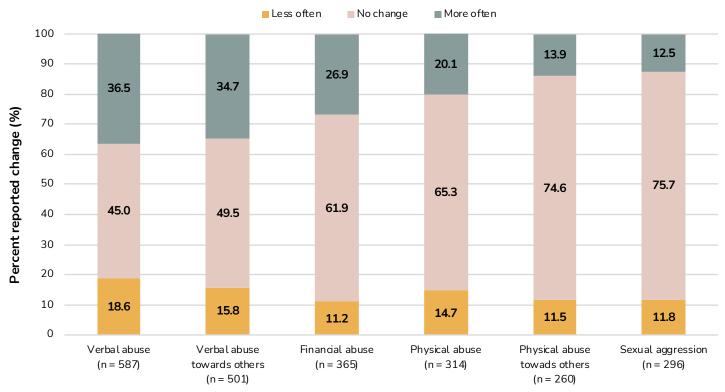
- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone yell at you or said things to you that made you feel bad about yourself, embarrassed you in front of others, or frightened you?".
- c Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone yell at someone you live with?".
- d Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone control how money was spent in your household including limiting your access or withholding funds from you?".
- e Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone do things like push, grab, hit, slap, kick, or throw things at you during an argument or because they were angry with you?".
- Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone do things like push, grab, hit, slap, kick, or throw things at someone you live with?".
- g Included participants who provided a valid answer to "Since the start of the COVID-19 pandemic, how often did someone be more sexually aggressive towards you?".

The frequency and changes of specific acts of domestic violence varied depending on the specific acts of abuse (Figure 5). Participants reported the largest increase in verbal abuse directed towards them (36.5%), followed by verbal abuse directed at

someone else in the household (34.7%), financial abuse (26.9%), physical abuse directed at them (20.1%), physical abuse directed at someone else in the household (13.9%), and sexual aggression (12.5%).

Figure 5. Changes in the frequency of experienced domestic violence since the start of the COVID-19 pandemic among participants who experienced domestic violence in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Changes in frequency of experienced domestic violence since the start of the COVID-19 pandemic



Specific acts of domestic violence experienced since the start of the COVID-19 pandemic

Discrimination

Participants were asked whether they experienced any discrimination when accessing healthcare services in the year before the pandemic and to compare the frequency of these occurrences since the start of the pandemic. This was measured as their perceived experience of discrimination.

Among participants that accessed healthcare services in the year prior to the COVID-19 pandemic, 37.9% reported never experiencing discrimination when accessing these services during that time, while the remainder reported experiencing discrimination often (10.2%), sometimes (32.8%) or rarely (19.1%) (Table 8). Among those who

reported accessing healthcare during the COVID-19 pandemic, the majority (65.6%) reported no change in discrimination when accessing healthcare, less than one-in-ten (9.2%) reported a decrease, and about one-quarter (25.2%) reported an increase.

Table 8. Experiences of discrimination when accessing healthcare among participants in the *Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021*

Indicator	n	Total°	%	
Frequency of experienced discrimination when accessing healthcare services, in the year before the COVID-19 pandemic ^{b, c}				
Often	100	982	10.2	
Sometimes	322	982	32.8	
Rarely	188	982	19.1	
Never	372	982	37.9	
Change in frequency of experienced accessing healthcare services, since pandemic ^d				
Decrease	83	902	9.2	
No change	592	902	65.6	
Increase	227	902	25.2	
Since the start of the COVID-19 pandemic				
Experienced discrimination based or color, including anti-Black racism ^d	race or e	thnicity o	r skin	
None	328	975	33.6	
Any	647	975	66.4	
Change in experienced discriminatio ethnicity or skin colour, including an				
Increase	202	647	31.2	
No change	426	647	65.8	
Decrease	19	647	2.9	
Experienced discrimination based on gender ^d				
None	405	960	42.2	
Any	555	960	57.8	

Indicator	n	Total ^a	%
Change in experienced discrimination based on gender ^e			
Increase	85	555	15.3
No change	453	555	81.6
Decrease	17	555	3.1
Experienced discrimination based	on sexual o	rientation	d
None	505	950	53.2
Any	445	950	46.8
Change in experienced discrimina orientation ^e	tion based o	n sexual	
Increase	48	445	10.8
No change	384	445	86.3
Decrease	13	445	2.9
Experienced discrimination based	on substanc	ce use ^d	
None	604	937	64.5
Any	333	937	35.5
Change in experienced discrimina	tion based o	n substan	ce use ^e
Increase	53	333	15.9
No change	270	333	81.1
Decrease	10	333	3.0
Experienced discrimination based	on economi	c status ^d	
None	414	969	42.7
Any	555	969	57.3
Change in experienced discrimina status ^e	tion based o	n econom	ic
Increase	104	555	18.7
No change	376	555	67.8
Decrease	75	555	13.5
Experienced discrimination based on disability ^d			
None	565	947	59.7
Any	382	947	40.3
Change in experienced discrimina	tion based o	n disabilit	:y ^e
Increase	65	382	17.0
No change	294	382	77.0
Decrease	23	382	6.0

Table 8. Experiences of discrimination when accessing healthcare among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021 (continued)

Experienced discrimination based on age ^d			
None	484	947	51.1
Any	463	947	48.9
Change in experienced discrimination based on age ^e			
Increase	84	463	18.1
No change	372	463	80.4
Decrease	7	463	1.5

Abbreviations: STBBI, sexually transmitted and blood-borne infection. **Note:** The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

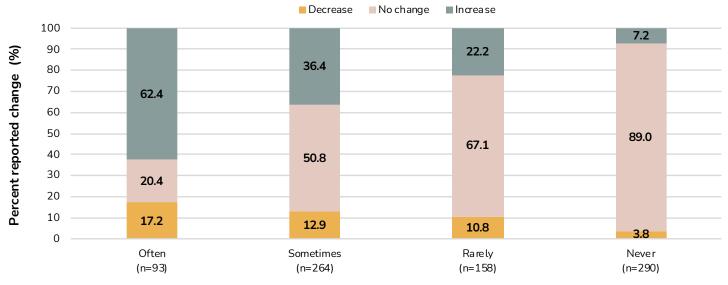
- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- Experienced discrimination included discrimination based on participants': race, ethnicity or skin colour (including anti-Black racism),

- gender, sexual orientation, use of substances, economic status, (dis) ability, age, or other identity.
- c This indicator was measured among participants who accessed healthcare services in the year before the start of the COVID-19 pandemic.
- d This indicator was measured among participants who accessed healthcare services since the start of the COVID-19 pandemic.
- e This indicator was measured among participants who experienced discrimination since the start of the COVID-19 pandemic.

Reported discrimination when accessing healthcare services during the COVID-19 pandemic was also examined across levels of these experiences in the year prior to the pandemic (Figure 6). Proportionally, respondents that reported often experiencing discrimination prior to the pandemic also reported the greatest increase in these experiences during the pandemic (62.4%). In contrast, the largest proportions of respondents who indicated sometimes, rarely and never experiencing discrimination in the year prior, reported no change, 50.8%, 67.1% and 89.0%, respectively, during the COVID-19 pandemic.

Figure 6. Changes in the frequency of experienced discrimination when accessing healthcare services since the start of the COVID-19 pandemic among participants who experienced discrimination in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Changes in frequency of experienced discrimination since the start of the COVID-19 pandemic

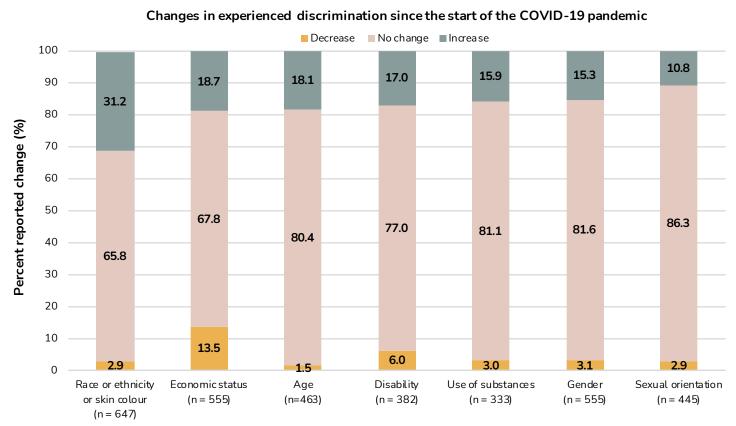


Frequency of experienced discrimination in the year before the COVID-19 pandemic

Participants who reported experiencing discrimination when accessing healthcare services during the COVID-19 pandemic were asked to report on the changes in discrimination based on race, gender, sexual orientation, substance use, economic status, disability, and age (Figure 7). Generally, the majority of respondents reported no change based on these attributes, while a minority of respondents

reported decreased frequency of discrimination. The greatest increase in discrimination was reported based on race or ethnicity or skin colour, including anti-Black racism (31.2%), followed by economic status (18.7%), age (18.1%), disability (17.0%), use of substances (15.9%), gender (15.3%), and finally sexual orientation (10.8%).

Figure 7. Changes in the frequency of experienced discrimination when accessing healthcare services by attributes among participants who experienced discrimination in the *Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021*

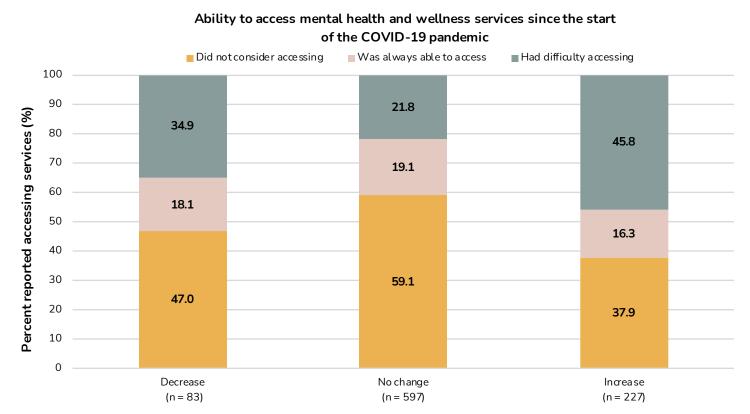


Attributes related to discrimination experienced since the start of the COVID-19 pandemic

To explore the potential effect of discrimination on access to healthcare services, ability to access mental health and wellness services was examined across participants based on the reported change in frequency of experienced discrimination since the start of the pandemic (Figure 8). Those who

reported an increase in frequency of experienced discrimination had the highest proportion of those who had difficulty accessing mental health and wellness services (45.8%) compared to those who reported a decrease in experienced discrimination (34.9%) and those who reported no change (21.8%).

Figure 8. Ability to access mental health and wellness services by changes in frequency of experienced discrimination since the start of the COVID-19 pandemic among participants who experienced discrimination in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021



Change in frequency of experienced discrimination since the start of the COVID-19 pandemic

Substance use

In the year leading up to the COVID-19 pandemic, one-third (34.8%) of participants reported using alcohol, cannabis or any other substances (illegal drugs or non-medical use of opioids) (data not shown). Among substances used during the COVID-19 pandemic (Table 9), alcohol (49.9%)

and cannabis (23.7%) were most frequently used. Smaller proportions of participants reported use of other substances: hallucinogens (5.1%); cocaine or crack (3.9%); ecstasy (3.9%); heroin, fentanyl, or other non-medical opioids (3.4%); speed, methamphetamine, or crystal meth (3.3%); or substances other than what were listed (6.5%).

Respondents that reported using substances since the beginning of the pandemic were asked to describe changes in frequency of their substance use compared to the year prior to the pandemic. Given that small proportions of participants reported illegal substance or non-medical opioid use, only proportions of increased use are reported to preserve anonymity of respondents. Among surveyed substances, the largest increase in use was observed among respondents reporting cannabis use (56.1%); followed by increased hallucinogen use (40.6%); increased alcohol consumption (37.7%); increased cocaine or crack use (37.5%); increased heroin, fentanyl, or other non-medical opioid use (23.3%); increased ecstasy use (20.8%); increased speed, methamphetamine, or crystal meth use (19.5%); and 25.9% of respondents reported an increase use of other substances not listed.

Participants reporting any substance use during the COVID-19 pandemic were asked about changes in their substance use behaviours. Due to a small number of participants reporting substance use, only increases in substance use behaviours are reported in order to maintain participant anonymity. Participants reported the largest increase in experiencing different triggers for use (62.9%); followed by increased use alone (53.4%); increased use of substances not usually used (46.9%); increases in withdrawal symptoms (33.8%); increased worry about overdosing (29.2%); increased sharing of used equipment such as needles or syringes, pipes, tourniquets, swabs, and cookers (22.9%); and finally, increased reports of not being able to get the substances they wanted (22.6%).

Among respondents reporting substance use during the COVID-19 pandemic, 2.5% accessed or wanted to access harm reduction services, while 5.0% accessed or wanted to access substance-use and treatment services (data not shown).

Table 9. Drug and substance use and behaviours among participants in the *Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction in Canada*, 2021

Indicator	n	Total°	%
Drug used since the start of the COVID-19 pandemic ^b			
Alcohol	615	1233	49.9
Increased use ^c	232	615	37.7
Cannabis	294	1241	23.7
Increased use ^c	165	294	56.1
Cocaine or crack	48	1244	3.9
Increased use ^c	18	48	37.5
Speed, methamphetamine, or crystal meth	41	1249	3.3
Increased use ^c	8	41	19.5
Hallucinogens	64	1248	5.1
Increased use ^c	26	64	40.6
Ecstasy	48	1247	3.9
Increased use ^c	10	48	20.8
Heroin, fentanyl, or other non- medical opioids	43	1252	3.4
Increased use ^c	10	43	23.3
Other substances	81	1245	6.5
Increased use ^c	21	81	25.9
Increases in substance consumption of the COVID-19 pandemic ^d	behaviou	rs, since t	he start
Had different triggers for using	83	132	62.9
Used alone	70	131	53.4
Used substances I do not usually use	38	81	46.9
Had withdrawal symptoms	25	74	33.8
Worried about overdosing	19	65	29.2
Shared used equipment such as needles or syringes, pipes, tourniquets, swabs, cookers	11	48	22.9
Was unable to get the substances I use	21	93	22.6

Table 9. Drug and substance use and behaviours among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction in Canada, 2021 (continued)

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b The proportions for drugs used do not add up to 100% as they were not mutually exclusive; participants could report more than one type of drug.
- c The proportions for each drug listed are calculated among the participants who indicated they used this specific drug.
- d This indicator was measured among participants who have used substances.

Access to STBBI-related services

STBBI prevention, testing and treatment services

Since the start of the COVID-19 pandemic, less than one-in-ten (8.8%) respondents accessed or considered accessing STBBI prevention, testing and treatment services (Table 10). Of the participants attempting to access these services during the pandemic, more than half (70.8%) reported not always being able to obtain mental health counselling referrals, community services (60.4%), STBBI information and education including outreach events (55.3%), and interpreter and/or peer health service navigator (53.9%). In addition, 40.5% were not able to access HIV testing, 37.0% hepatitis C virus (HCV) testing, and 47.6% other sexually transmitted infections (STI) testing.

Table 10. Access to STBBI prevention, testing and treatment services among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Indicator	n	Total°	%
Access to STBBI prevention, testing since the start of the COVID-19 pan		ment serv	vices
Accessed or considered accessing	113	1281	8.8
Did not access or consider accessing	1168	1281	91.2
Not able to access the following ST treatment services since the start of			
Mental health counselling referral	51	72	70.8
Community services (e.g., Peer support services)	35	58	60.4
STBBI information and education including outreach events (e.g., health fairs, festivals, community events, etc.)	26	47	55.3
Interpreter and/or peer health service navigator	14	26	53.9
PrEP and/or PEP	18	37	48.7
Indigenous health or healing services	10	21	47.6
Condom and/or dental dam	28	68	41.2
Resources about safer sex (postcard, pamphlets, etc.)	21	52	40.4
HIV testing	32	79	40.5
HCV testing	17	46	37.0
Other sexually transmitted infection (STI) testing	39	82	47.6
Pre and post HIV test counselling	14	37	37.8

Abbreviations: STBBI, sexually transmitted and blood-borne infection; HIV, human immunodeficiency virus; HCV, hepatitis C virus; PEP, postexposure prophylaxis; PrEP, preexposure prophylaxis.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b This indicator measured whether a participant accessed or considered accessing STBBI prevention, testing and treatment services since the start of the COVID-19 pandemic.

Table 10. Access to STBBI prevention, testing and treatment services among participants in the *Survey* of the *Impact of COVID-19* on access to *STBBI-related* services including harm reduction services in Canada, 2021 (continued)

c This indicator was measured among those who reported accessing, considered accessing, or wanted to access STBBI prevention, testing and treatment services since the start of the COVID-19 pandemic. Participants were classified as not being able to access specific STBBI prevention, testing and treatment services if they indicated "Sometimes able to access" or "Wanted or tried to, but was not able to access". The differences in the denominators for each service is due to the differing number of participants who tried to access these services. The proportions for access to STBBI prevention, testing and treatment services do not add up to 100% as they were not mutually exclusive; participants could report more than one type of STBBI prevention, testing, and treatment service.

Among respondents who tried to access STBBI prevention, testing and treatment services, the following barriers were noted (Table 11):

- Difficulty getting a referral, appointment, or contacting a doctor or nurse to get information or advice (55.1%)
- Difficulty accessing service because of COVID-19 related public health measures (35.5%)
- Service not available at the time required (32.7%)
- Waited too long between booking an appointment and visit or waited too long to get healthcare service (28.0%)

Table 11. Barriers to accessing STBBI prevention, testing and treatment services among participants in the *Survey* of the *Impact of COVID-19* on access to *STBBI-related* services including harm reduction services in Canada, 2021

Indicator	n	Total ^a	%	
Barriers to accessing STBBI prevention, testing and treatment services since the start of the COVID-19 pandemic ^b				
Difficulty getting a referral, appointment, or contacting a doctor or nurse to get information or advice	59	107	55.1	
Difficulty accessing service because of COVID-19 related public health measures	38	107	35.5	
The service was not available at time required	35	107	32.7	
Waited too long between booking an appointment and visit or waited too long to get healthcare service	30	107	28.0	
Culturally safe and responsive services were not available	27	107	25.2	
Fear of, or concern about exposure to someone with COVID-19	26	107	24.3	
Fear of, concern about or experienced stigma, discrimination, or violence	24	107	22.4	
Fear of, concern about or experienced racism, including anti-Black racism or anti-Indigenous racism	24	107	22.4	
Difficulty accessing remote services	17	107	15.9	
Transportation problems	16	107	15.0	
Cost	13	107	12.2	
Language problem	9	107	8.4	
Other	22	107	20.6	

Abbreviations: STBBI, sexually transmitted and blood-borne infection.

 ${f Note}:$ The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- a Total represents total counts for the corresponding indicator excluding "Don't know", "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b This indicator was measured among participants who were not always able to access STBBI prevention, testing and treatment services. The proportions for barrier to accessing STBBI prevention, testing and treatment services do not add up to 100% as they were not mutually exclusive; participants could report more than one type of barrier to accessing these services.

Support and treatment for people living with HIV and/or hepatitis C

Among all participants, 10.3% reported they were currently living with HIV and 1.2% reported ever being told they have hepatitis C infection (Table 12).

Among respondents living with HIV, 78.2% were linked to an HIV clinic or provider in the year prior to the COVID-19 pandemic. Since the beginning of the COVID-19 pandemic, 38.1% of respondents living with HIV experienced challenges accessing an HIV care provider or clinic. Among those reporting challenges accessing HIV care during the pandemic, the most frequently reported reasons included (data not shown): difficulty getting a referral, appointment, or contacting a doctor or nurse to get information or advice (51.1%); followed by difficulty accessing service because of COVID-19 related public health measures (48.9%); waited too long between booking an appointment and visit or waited too long to get healthcare service (42.2%); and fear of, or concern about exposure to someone with COVID-19 (42.2%).

Table 12. Self-reported HIV and hepatitis C infection and access to care among participants in the Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services in Canada, 2021

Indicator	n	Total°	%
Self-reported HIV and access to HIV care			
Currently living with HIV	121	1175	10.3
Linked to HIV care in the year before the start of the COVID-19 pandemic ^b	93	119	78.2
Experienced challenges accessing an HIV care provider or clinic since the start of the COVID-19 pandemic ^c	45	118	38.1

Indicator	n	Total ^a	%
Self-reported hepatitis C and access	to hepat	itis C care	
Ever been told to have hepatitis C	15	1209	1.2
Currently have hepatitis C ^d	5	15	33.3
Linked to hepatitis C care the year before the start of the COVID-19 pandemic ^e	<5	5	-
Experienced challenges accessing hepatitis C care since the start of the COVID-19 pandemic ^e	<5	5	-

Abbreviations: STBBI, sexually transmitted and blood borne; HIV, human immunodeficiency virus.

Note: The sum of the percentages may not equal 100% due to rounding, unless stated otherwise.

- -: Data suppressed due to small cell counts.
- a Total represents total counts for the corresponding indicator excluding "Prefer not to answer", "Refused" and "Not stated" values, unless stated otherwise.
- b This indicator was measured among participants living with HIV and excludes those who received an HIV diagnosis during the COVID-19 pandemic.
- c This indicator was measured among participants living with HIV and excludes those who did not try to access an HIV care provider.
- **d** This indicator was measured among participants who reported having ever been told to have hepatitis C.
- e This indicator was measured among those who reported currently have hepatitis C.

Discussion

Findings from this national Survey of the Impact of COVID-19 on access to STBBI-related services including harm reduction services among African, Caribbean and Black people in Canada, conducted from May to July 2021, highlight a reduced level of access to health services as well as the broader health and social impacts of the pandemic.

During data collection, Canada was in the midst of a third wave of the COVID-19 pandemic. Compared to the first wave, the third wave resulted in more cases, partly due to better testing capacity. In terms of vaccination, Canada authorized the first COVID-19 vaccine on December 9, 2020 and by spring 2021, vaccine delivery had accelerated (21). COVID-19-related public health measures in place included restricting non-essential travel (with more stringent restrictions targeting certain countries) and non-essential business activities, requirements of travelers to Canada to obtain negative SARS-CoV-2 tests and quarantine upon entry, as well as school closures (22,23,24). All measures impacted the day-to-day lives of people living in Canada. Indeed, measures in place at this time led to reductions and closures of health and social services, with almost half of STBBI prevention, testing and treatment service providers reporting a decreased ability to deliver services (13).

In response to the growing need for disaggregated data and the importance of having an intersectional lens to address the disproportionate impact of the COVID-19 pandemic on ACB people, efforts were put in place to collect more nuanced information on race, gender and immigration status (3). Most participants (77%) in this survey were not born in Canada, were mostly Black African (63%), and cisgender female (66%). Almost one-third of participants who were not born in Canada reported

living in Canada for less than 5 years. There were smaller proportions of participants from other racial backgrounds (e.g., Black Caribbean, Black Indigenous or Black Canadian) and even smaller proportions of participants who identified as transgender.

Impact of COVID-19 on access to STBBI-related services and harm reduction services

"During the pandemic, the use of some health services noticeably decreased. This may be driven both by fewer people seeking care as well as a decrease in the number and types of services available."

Chief Public Health Officer of Canada's Annual Report 2021, page 25

Findings from the survey show that only a small proportion of respondents accessed or considered accessing STBBI-related services. In addition, these respondents reported experiencing difficulties accessing services. Services particularly impacted were the ability to receive mental health counselling referrals, community services, STBBI information and education including outreach events, and access to an interpreter and/or a peer health service navigator. This was in line with decreases reported by STBBI service providers during the COVID-19 pandemic, notably decreases in providing services involving sexual health educational resources and mental health counselling (13). These results highlight the

barriers to accessing STBBI-related services and it is not known how these barriers will evolve as the COVID-19 pandemic continues and during the post-pandemic period (25,26).

Nearly half of respondents who accessed or considered accessing STI testing (other than HIV or hepatitis C), or PrEP and/or PEP therapy were not always able to do so, and two-in-five (41%) participants were not always able to access HIV testing. The most common barrier reported by half of these participants was difficulty getting a referral or an appointment. In the survey, one-in-ten participants (10%) reported living with HIV, a proportion higher than in the general Canadian population, which was estimated to be two-in-one-thousand people in 2018 (5). ACB people are overrepresented in those living with HIV, highlighting the importance of HIV screening and care interventions for this population (3,27). Barriers to accessing support and treatment services may have been exacerbated during the COVID-19 pandemic, possibly explaining why 38% of participants living with HIV reported experiencing challenges accessing an HIV care provider or clinic since the beginning of the pandemic.

Access to substance use-related services or treatments among those who reported substance use was also low and further investigation is needed to understand this observation. Many harm reduction, substance use and treatment services decreased their operations at some point during the COVID-19 pandemic (13). In addition, stigma associated with substance use can act as a barrier to accessing these services (21,28,29).

Impact of COVID-19 on social determinants of health

"The pandemic put in stark relief the complex interaction of the social determinants of health – factors such as education, economic stability, job security, and stable housing – in shaping health outcomes and driving health inequities."

Chief Public Health Officer of Canada's Annual Report 2021, page 85

Findings regarding suboptimal access to healthcare services cannot be considered without taking into account the social determinants of health. These upstream drivers influence risk behaviours and access to healthcare services (21). Of note, nearly one-in-ten (10%) respondents were unaware of their healthcare insurance coverage status, while nearly one-quarter (24%) of respondents did not have coverage, a finding that may have contributed to lower levels of access to care.

Employment and financial security

The COVID-19 pandemic had an economic impact on millions of Canadians who either lost their jobs, worked reduced hours and/or experienced financial instability (21). This was also the case in this survey as 36% of participants reported either working reduced hours or having to stop work since the start of the COVID-19 pandemic. Also, 43% reported that the pandemic had a major or moderate impact on their ability to pay bills. It is worth highlighting

that only a small proportion of those who needed relief or payment deferrals, actually received such payments. There were similar gaps between need and access for rent or mortgage payments, car payments, and household bills.

Food insecurity

Experiences of unemployment, precarious employment and income instability may have increased food insecurity for ACB people. In fact, respondents who reported part-time employment, unemployment, volunteer work, and those not working due to disabilities, experienced food insecurity at a higher frequency than those who were employed or self-employed full time. In addition, those who reported reduced hours and/ or pay and those that had to stop working since the beginning of the COVID-19 pandemic indicated experiencing food insecurity at a higher rate than those reporting little to no change or increased hours and/or pay during the pandemic. Food insecurity is a key social determinant of health that is strongly associated with a range of adverse health outcomes and it may have increased as a result of the pandemic (21). Overall, food insecurity among ACB people in this survey (53%) appears higher than what has been observed in the general population during the pandemic. Based on a Statistics Canada survey conducted during the second wave, one-in-ten Canadians reported experiencing food insecurity (30).

Domestic violence

As COVID-19 surged, experiences of family violence also increased (31). Among all ACB people surveyed, 17% reported feeling less safe where they lived during the COVID-19 pandemic. This was higher among those who already did not feel safe prior to the pandemic. Based on a survey of the general Canadian population, 10% of

women and 9% of men were concerned about the possibility of violence in the home during the first wave of the pandemic but this was lower during the second wave (21,32). The data for this survey were collected during the third wave, suggesting persisting concerns about safety among ACB people. Regarding specific acts of violence, changes in the frequency of experienced domestic violence since the start of the pandemic paralleled the trend for underlying violence. The highest increase was observed for verbal abuse, followed by verbal abuse towards others in the household, financial abuse, physical abuse towards others in the household, and sexual aggression.

Discrimination

Nearly two-thirds (62%) of respondents reported experiencing discrimination when accessing healthcare services prior to the pandemic. Additionally, one-quarter (25%) of respondents reported experiencing an increase in discrimination during the COVID-19 pandemic. Similar to the trend seen in domestic violence, the highest proportion of participants who reported an increase in discrimination (62%) was among those who reported such experiences before the pandemic. Participants reported multiple forms of discrimination. Of note, two-thirds (66%) of participants reported experiencing discrimination based on race or ethnicity or skin color, including anti-Black racism and one-third (31%) reported an increase in this experience since the start of the pandemic. Unfortunately, these findings are in line with other surveys conducted during the pandemic. A crowdsourced survey conducted in August 2020 showed that Chinese, Korean, Southeast Asian, and Black respondents were twice as likely to report experiencing discrimination compared to non-visible minority respondents (21,33). These experiences may have manifested as barriers to seeking healthcare services during the pandemic,

highlighting the ongoing need to tackle systemic and anti-Black racism institutionalized within social systems, including healthcare.

Mental health

Regarding mental health during the COVID-19 pandemic, one-in-four (27%) participants reported their mental health as fair or poor. Worsening mental health since the start of the pandemic was highest among these participants compared to others who reported excellent, very good or good mental health at the time of the survey. Similar to the perception of safety at home and discrimination, this highlights how those with pre-existing conditions were disproportionately affected by the pandemic. Similar findings were observed in a Statistics Canada survey conducted in fall 2020 among people aged 18 years or older. It found among those with depression, anxiety or posttraumatic stress disorder, that the majority reported worsened mental health since the start of the pandemic (34). In this survey of ACB people, three-quarters (80%) of respondents reported being sometimes or always able to access mental health services. Reported barriers, such as difficulty getting a referral or contacting a healthcare practitioner to get information and cost of services, represent potential areas for consideration in the development of future interventions to make services more accessible.

Impact of COVID-19 on substance use

In relation to substance use, half of the surveyed participants reported using alcohol since the start of the pandemic and under half (38%) reported an increase in their use. Cannabis use was reported by 24% of participants and a bit more than half (56%) reported an increase in their use since the start of the pandemic. In a survey conducted by Statistics Canada in January 2021, nearly one-quarter of Canadians who had previously consumed alcohol reported an increase in their consumption and one-third of those who previously consumed cannabis reported an increase in their use (35).

Strengths and Limitations

Given the challenges of using probability-based sampling to reach individuals during a pandemic, an anonymous online survey was selected as the most appropriate sampling method. Due to the nature of convenience sampling used in this survey, it is not possible to generalize the findings to all ACB people in Canada. Generalizability is also limited because of the small sample of participants who reported accessing or considered accessing STBBI-related services. The online nature of the survey may have also contributed to a selection bias, as participants without access to a computer or internet were less likely to participate. This, in turn, may have led to underestimates related to precarious living situations, as well as food and financial insecurity. However, engagement with academic and community stakeholders, such as faculty members of the University of Ottawa, WHIWH and the NEWG, that promoted the survey to help assure appropriate representation across diverse ACB sub-populations, may have mitigated this selection bias. Also, these findings were based on self-reported data and were subject to response biases, such as social desirability. The anonymous nature of the survey likely minimized this bias.

Given the cross-sectional study design, conclusive statements cannot be made regarding the attribution of the COVID-19 pandemic as the "cause" of the changes identified in this report. This study was purposefully designed to identify participants' "perceived" changes in behaviours and other outcomes. Despite this, the data collected provide a rich source of information on respondents' personal perceptions of the impacts of the COVID-19 pandemic on their lives, including access to STBBI-related services.

Conclusion

"If Canada is to have an exceptional public health evidence base, ongoing knowledge exchange and established arrangements between public health organizations and a range of disciplines (e.g., social science, geography, economics) must be prioritized. Interdisciplinary collaborations are particularly important for understanding and responding to the complex, layered, and interconnected determinants of health."

Chief Public Health Officer of Canada's Annual Report 2021, page 62

This survey offers important insights on the impact of the COVID-19 pandemic on the social determinants of health and, in turn, on access to STBBI-related services among ACB people in Canada.

The survey identified several intersecting social and structural factors that may have impacted access to STBBI-related services before the COVID-19 pandemic only to be further exacerbated during the pandemic. Worsening financial instability for ACB people meant they were also more likely to experience food insecurity. Household members experiencing domestic violence, reported feeling disproportionately less safe since the start of the pandemic. Together these stressors can also impact mental health. This was seen in the early phase

of the pandemic where Canadians experiencing food insecurity were more likely to perceive their mental health as fair or poor (36). In addition, the discrimination often faced by ACB people was likely exacerbated during the pandemic possibly leading to a decrease in access to healthcare services.

These findings add to the existing and growing evidence of health inequities faced by ACB people. One of the primary aims of the public health system in Canada is to achieve equitable health outcomes, and this cannot be tackled without an equitable lens that focuses on the social determinants of health (37,38). As emphasized in the Chief Public Health Officer of Canada's Report on the State of Public Health in Canada 2021, the "causes of the causes" need to be addressed through upstream interventions that target economic and social policies. It is through these interventions, along with downstream interventions that support people already experiencing these challenges that the health of the Canadian population can improve (21). Targeting upstream interventions and policies can only be achieved through intersectoral collaboration across federal, provincial, territorial, and regional health departments; community-led organizations; and relevant stakeholders and disciplines, such as social sciences and economy. By addressing barriers to STBBI-related services that are rooted within the social determinants of health, it will be possible to achieve the global targets and meet the strategic goals of the Pan-Canadian STBBI Framework for Action (39,40).

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