



BC COVID-19 SPEAK Survey Dashboard TECHNICAL NOTES



MISSION

To understand the public's perceptions of risk, acceptability of public health measures and recovery measures, the broader impacts of COVID-19 on social, economic, physical health, mental wellbeing, and community resiliency.

VISION

To balance the successful management of the COVID-19 pandemic in British Columbia (BC) with the least burden on the overall health and wellbeing of the population.

VALUES

To build trust and support shared responsibility with the people we serve through improving our services and minimizing the unintended consequences of disease containment.

BACKGROUND

The BC COVID-19 Survey on Population Experience, Action and Knowledge (SPEAK) is a web-based population health survey to elicit BC residents' experience, knowledge, and actions during the COVID-19 pandemic, understand the impacts of the pandemic and plan approaches for future public health and recovery measures.

There have been two rounds of the BC COVID-19 SPEAK Survey; round 1 of the survey was conducted early in the pandemic from May 12 to May 31, 2020, and round 2 was conducted from April 8 to May 9, 2021, a year since the public health restrictions began on March 14, 2020.

Early in the pandemic, the immediate priorities were reducing the transmission of the virus, and while these measures have been disruptive to our everyday lives, the continuing global spread of COVID-19 has seen these measures extended, and the extent of the impact is unknown. Understanding the unintended impacts of the pandemic on the social, economic, physical health, mental wellness and resilience of communities is essential for BC's response and recovery. This information is vital in planning future public health measures and policies and a critical source for provincial and local government, healthcare decision-makers, academia, and community stakeholders to collaboratively address the impacts of the COVID-19 pandemic.

To appropriately develop public health measures and policies that consider the unintended impacts, an accurate understanding of British Columbians' experience, knowledge and actions during the COVID-19 pandemic is crucial. While provincial COVID -19 case and fatality counts provide a direct gauge for the success of COVID -19 pandemic measures, there was a need for comprehensive, relevant, and representative local-level information on the impacts of public health measures on other aspects of BC residents' lives.



The BC COVID-19 SPEAK Survey was developed collaboratively to fill this information gap, in collaboration between the BC Centre for Disease Control (BCCDC), First Nations Health Authority, Vancouver Coastal Health, Fraser Health, Interior Health, Northern Health, Island Health, and the Office of the Provincial Health Officer.

The survey sought to capture information within the following domains:

- Socio-demographics
- COVID-19 Testing, Response and Prevention
- Experience
- Risk and Protective Factors
- Healthcare Impacts
- Social Impacts
- Economic Impacts
- Resiliency

Domains added for round 2

- Vaccine
- Adaption

QUESTIONNAIRE OVERVIEW

Content and Format

The BC COVID-19 SPEAK Survey was developed with extensive consultation with stakeholders and partners. In the initial BC COVID-19 SPEAK Survey, there were 85 questions; 52 key survey questions were retained and integrated into the round 2 survey, which comprised 102 questions. Survey questions were drawn from mostly validated sources (e.g., Canadian Community Health Survey (CCHS), national and international COVID-19 Population Health Surveys including specific tools from Statistics Canada and the World Health Organization (WHO), and the national Census) where possible.

Except for age, sex (or gender in round 1), and municipality, which were required questions to complete the survey, all other questions were optional and included “prefer not to answer” as a response option.

The initial BC COVID-19 SPEAK survey was primarily a web-based population health survey available in English and Simplified Chinese. Language guides were available in French, Punjabi, American Sign Language (ASL), Korean, Spanish, Vietnamese, Farsi, Arabic and Traditional Chinese and a call centre was available for individuals who required assistance with completing the survey or support in another language. Round 2 was a web-based survey available in English, French, Punjabi and Simplified Chinese, and language guides were available in ASL, Korean, Spanish, Vietnamese, Farsi, Arabic and Traditional Chinese. A call centre was not used for round 2 of the survey.



Target Population

The target population for the survey was residents of BC who were 18 years of age or older. To achieve a large and representative sample, a response crude target of 2% of the urban population and 4% for rural/remote communities were set as determined by the Community Health Service Area (CHSA) density designation. Population sample targets were created at a 4% margin of error and were used as the primary target if this estimate was larger than the population proportion. Targets were also established for age, sex, income, education, and ethnicity by each geographic area. Progress towards these targets was monitored daily, and purposeful promotion and stakeholder outreach was done to better reach specific geographies and population demographics.

Through partnerships and collaboration, in round 1, a final sample of 394,382 responses was achieved and used in the final analytical dataset, reaching 456% of the crude provincial target (by population proportion). Population targets were surpassed for each Health Authority with Interior Health completing 56,501 surveys (337% of the crude target), Fraser Health completing 114,105 surveys (405% of the crude target), Vancouver Coastal Health completing 111,167 surveys (563% of the crude target), Island Health completing 97,164 surveys (633% of crude target) and Northern Health completing 15,445 (242% of crude target).

For round 2, a final sample of 206,241 responses was achieved, and 188,561 was used in the final analytical dataset, reaching 180% of the crude provincial target (by population proportion). Population targets were surpassed for each Health Authority with Interior Health completing 27,930 surveys (167% of the crude target), Fraser Health completing 51,720 surveys (183% of the crude target), Vancouver Coastal Health completing 52,957 surveys (268% of the crude target), Island Health completing 49,556 surveys (323% of crude target) and Northern Health completing 6,398 (100% of crude target).

In both rounds of the survey, not all sub-regions or demographic groups by geography did reach their target. Specifically, rural communities, populations with lower education, lower incomes, and some visible minorities were less reached and were prioritized for outreach.

Participant Recruitment and Survey Completion

For round 1 of the surveys, potential respondents could self-access the survey on the BCCDC website or call a dedicated call center. The survey was promoted by the BC Provincial Health Officer and Health Minister during their COVID-19 press conferences throughout the survey period. Survey promotion was conducted through mainstream media, Health Authorities, local government, non-government organizations, social media promotions (through Twitter and Facebook) and regional sites also conducted community outreach and promotion. Radio advertisements also ran in remote and rural areas of BC. Round 2 of the surveys was promoted the same as round 1, except more targeted recruitment was conducted through Facebook, Instagram stories, promotional print and digital media in regional newspapers, and promotional advertising at COVID-19 vaccination centers or testing sites. Potential respondents who had voluntarily provided an email address in round 1 of the surveys received an automatic email notification inviting them to participate in the survey. Other respondents could self-access the BCCDC website.



DATA MANAGEMENT

Data Clean Up and Processing

Demographics data were cleaned to create the final analytical dataset, which only included surveys where a Health Service Delivery Area (HSDA) geography, age, and sex (or gender in round 1) were assigned as well, as the respondent must have progressed to at least 31% of the round 1 survey and 33% in the round 2 survey. Duplicates by Provincial Health Number, email or phone number were removed if they were also matched by age and sex/gender. Those who withdrew consent after the survey was submitted were also removed.

Question format was reviewed (i.e., single select vs. multi-select responses), and appropriate denominators were selected for each indicator. Those who did not answer the corresponding question or selected “Prefer not to answer” or “Don’t know” were excluded from the denominators of that indicator (See Appendix 1 and Appendix 2).

Data Weighting

Statistical weighting is often used in large surveys to ensure that the sample of collected responses reflects the overall target population. This type of weighting compensates because certain demographics are less likely to respond to a survey. For example, most general population surveys have substantially more female than male respondents (often 60% female), although, in the general population, the number of males and females is very similar. Because surveys tend to over-represent females and under-represent males in the population, a weight is used to compensate for this bias. The other common characteristics that affect response rate and need to be considered are age and education.

Establishing at the outset, detailed socio-demographic targets for each geographic area of interest within the survey allowed a more focused participant recruitment, with the ultimate benefit of applying smaller weights. The margin of error around an estimate increases when large weights are applied. Such purposeful sampling allows for more confident and stable estimates to be derived.

For both rounds of the BC COVID-19 SPEAK Survey, the samples were weighted using 2016 Canadian Census data by geography (HSDA, Local Health Area (LHA), and CHSA) for age, sex, education level, and ethnicity to account for residual differences in sample demographics and to ensure that the sample is as representative as possible of the overall geographic population that is being reported on (see Appendix 1 and Appendix 2).

Each geography (HSDA, LHA, CHSA) specific survey weight is derived from the corresponding geography, sex, and age, plus education and ethnicity if they are available. Ethnicity was categorized into five groups to limit stratifications included in weights while optimizing representativeness across the survey region. These groupings are Indigenous (First Nations, Métis, Inuit), Chinese, South Asian, White, and all other ethnicities combined.



ANALYSIS

Use of Data

The data may be used for the following purposes:

- To support ongoing surveillance, reporting, and analysis of the impact of the COVID-19 response in BC;
- To understand the experience of British Columbians during the pandemic;
- To inform ongoing COVID-19 public health measures in BC; and
- To inform public health interventions and to plan or to implement healthcare services in BC.

Selection of Indicators for the Dashboard

A complete list of indicators was drawn from the survey questions. Descriptive analysis was conducted to describe, organize, and summarize the survey data, and indicators were reviewed. Indicators were selected for inclusion on the BC COVID-19 SPEAK Dashboards based on the importance and relevance of the findings to survey objectives and in consultation with epidemiology leads from the regional Health Authorities (RHA), BCCDC, and the Ministry of Health (MoH).

Relevance and importance of questions in terms of actionability were considered along with the following guidelines:

- Informs testing strategy
- Public health management of cases and contacts
- Measures targeted at individuals
- Measures targeted at the community
- Broader policy considerations
- Supports stratification geographic/socioeconomic (equity)

Indicators added for round 2

- Monitor change from early in the pandemic to one year on
- Guide COVID-19 vaccine program decisions and equity considerations
- Guide health, social, and economic recovery

Stratifications

The BC COVID-19 SPEAK Dashboards allows the user to explore indicators by five different levels of geography: provincial, by Health Authority, HSDA (Region), LHA (Sub-region), and CHSA (Community). Each indicator is made available at the BC, Health Authority, and HSDA by age, sex, education, income, ethnicity, and household composition.



Weights

All analyses were performed based on weights calculated at the same corresponding geography level, except indicators at the Health Authority and BC geography level where the HSDA weights were used.

Statistical Significance

Statistical significance was not reported for the indicators in the BC COVID-19 SPEAK Dashboards when comparisons are allowed. Differences observed upon an exploration of the dashboard may or may not be statistically significant and should be interpreted with caution.

Data Suppression

Efforts were made to report only reliable estimates and to not release estimates that are highly variable given the small sample size. Coefficients of variation were calculated for each stratification level for each indicator in the dashboard. Estimates with coefficients of variation greater than 33.3% were considered unreliable and were suppressed in the profiles. Statistics Canada uses similar cut-offs in national surveys like the Canadian Community Health Survey. Data were also suppressed for geography with more than 25% indigenous population or unanimous responses to a question with a sample size < 30. Suppression is indicated with a missing or gray bar in the dashboard.

FUNDING SUPPORT

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Website: <https://bccdcfoundation.org/>

CONTACT INFORMATION

British Columbia Centre for Disease Control

655 West 12th Avenue, Vancouver, British Columbia V5Z 4R4 Canada

Website: <http://www.bccdc.ca/health-professionals/data-reports/bc-covid-19-speak-dashboard>

Email: covid19.speak@bccdc.ca

SUGGESTED CITATIONS

Technical Notes

British Columbia Center of Diseases Control (2021). BC COVID-19 SPEAK Survey – Technical Notes. Prepared by British Columbia Center for Disease Control.

Survey Results

British Columbia Center of Diseases Control (2020). BC COVID-19 SPEAK Round 1 Survey. Prepared by British Columbia Center for Disease Control.

British Columbia Center of Diseases Control (2021). BC COVID-19 SPEAK Round 2 Survey. Prepared by British Columbia Center for Disease Control.



Indicator	Calculation and Notes	Denominator	Source
SOCIO-DEMOGRAPHICS			
GENDER	Indicators derived from question 2: <i>What is your gender identity? Check all that apply</i>		Statistic Canada. Census 2016 ¹ asked sex and not gender. The options were only Male and Female. Algorithm was applied to approximate sex based on gender response (see variable "sex" calculation and notes).
Female			
Male	This was a mandatory question to take part in the survey. The variable represents gender, not sex (male, female only). Respondents were asked their gender and options included Male, Female, Transgender, Non-binary, Two-Spirit, My gender is: [Free text] and Prefer not to answer. Respondents could select more than one response. The analysis and reporting in the dashboard were restricted to male and female due to small sample size of other gender responses.		
SEX	Indicators derived from question 2: <i>What is your gender identity? Check all that apply</i>		
Female			
Male	<p>A respondent's sex was derived from their gender response. Gender was asked in a check all that apply format including Male, Female, Transgender, Non-binary, Two-Spirit, Other with text specification.</p> <p>Sex = Male if respondents selected, "Male", "Male" and "Other", "Female" and "Transgender", "Male" and "Non-binary", "Male" and "Two-Spirit", or "Other" only and text includes "Man" or "Male" or Transwoman/Trans female/gay", "Transgender" and "Other" only with text including "female/lesbian/woman/transwoman/trans female, "Non-binary" and "Other" only with text including "man/male", "Two-Spirit" and "Other" only with text including "man/male".</p> <p>Sex = female if respondents selected, "Female" only, "Female" + "Other", "Male" and "Transgender", "Female" and "Non-binary", "Female" and "Two-Spirit", "Other" only and text includes "woman/ female/lesbian/femme/transman", "Transgender" and "Other" only with text including "man/male/transman/gay", "Non-binary" and "Other" only with text including "woman/female/lesbian/femme/transman", or "Two-Spirit" and "Other" only with text including "woman/female/lesbian/femme/transman".</p> <p>All else remaining, Sex = Unknown</p>		



Indicator	Calculation and Notes	Denominator	Source
AGE (YEARS)	Indicators derived from question 1: <i>What is your age?</i>		BC COVID-19 SPEAK Survey target population was aged 18 and over. Census, national household survey (NHS) ¹ and Canadian community health survey ² (12 years+) report have wider age groups so publicly reported estimates, such as on Statistics Canada website, from these surveys may differ.
18-29	This was a mandatory question to take part in the survey.		
30-39	Age at time of survey for the respondent was selected from a drop-down list.		
40-49			
50-59			
60-69			
70-79			
80+			
EDUCATION	Indicators derived from question 80: <i>What is the highest level of education you have completed?</i>		The BC COVID-19 SPEAK education question was based on Statistics Canada, Canadian Census ¹ questions. Census also reports highest level of education completed. It is possible to derive the SPEAK education categories from census data.
Below high school	<input type="checkbox"/> Less than high school graduation <input type="checkbox"/> High school graduation <input type="checkbox"/> Trade certificate or diploma from a vocational school or apprenticeship training <input type="checkbox"/> Non-university certificate or diploma from a community college, CEGEP or nursing school <input type="checkbox"/> University certificate below bachelor's level <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Graduate degree <input type="checkbox"/> Prefer not to answer These categories were collapsed into four categories for reporting: 1. Below high school 2. High school 3. Trade certificate or diploma from a vocational school or apprenticeship training, non-university certificate or diploma from a community college, CEGEP or nursing school, or University certificate below bachelor's level 4. University degree (Bachelor's degree or Graduate degree)		
High school			
Certificate or diploma			
University degree			



Indicator	Calculation and Notes	Denominator	Source
HOUSEHOLD INCOME	Indicators derived from question 74: <i>Can you estimate your household income, before taxes and deductions, from all sources for the last calendar (tax) year?</i>	A large number of COVID-19 SPEAK participants did not report their income. This is common problem for all large surveys. The non-response for this question was 21% or respondents.	
Under \$20,000	<input type="checkbox"/> Under \$20,000		
\$20,000 to \$59,000	<input type="checkbox"/> \$20,000 to \$39,999		
\$60,000 to \$99,000	<input type="checkbox"/> \$40,000 to \$59,999		
\$100,000-\$139,000	<input type="checkbox"/> \$60,000 to \$79,999		
\$140,000 and above	<input type="checkbox"/> \$80,000 to \$99,999		
	<input type="checkbox"/> \$100,000 to \$119,999		
	<input type="checkbox"/> \$120,000 to \$139,999		
	<input type="checkbox"/> \$140,000 to \$159,999		
	<input type="checkbox"/> \$160,000 to \$179,999		
	<input type="checkbox"/> \$180,000 to \$199,999		
	<input type="checkbox"/> \$200,000 and over		
	<input type="checkbox"/> I don't know		
	<input type="checkbox"/> Prefer not to answer		
ETHNICITY	Indicators derived from question 77: <i>Do you consider yourself to be. Check all that apply.</i>	Statistics Canada. Canadian Census ¹	
White	<input type="checkbox"/> First nations		
Chinese	<input type="checkbox"/> Métis		
South Asian	<input type="checkbox"/> Inuit		
Southeast Asian/ Filipino	<input type="checkbox"/> White (European Descent)		
West Asian/Arab	<input type="checkbox"/> Chinese		
Japanese/Korean	<input type="checkbox"/> South Asian (e.g., East Indian, Pakistani, Sri Lankan)		
Black	<input type="checkbox"/> Black (e.g., African or Caribbean)		
Latin American/ Hispanic	<input type="checkbox"/> Filipino		
Multiple/Other	<input type="checkbox"/> Latin American/Hispanic		
	<input type="checkbox"/> Southeast Asian (e.g., Vietnamese, Cambodian, Malaysian, Laotian)		
	<input type="checkbox"/> Arab		
	<input type="checkbox"/> West Asian (e.g., Iranian, Afghan)		
	<input type="checkbox"/> Korean		
	<input type="checkbox"/> Japanese		
	<input type="checkbox"/> Other		
	<input type="checkbox"/> Prefer not to Answer		
	Indicators derived from question 79: <i>“Are you status First Nations?”</i>		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
	<input type="checkbox"/> I don't know		
	<input type="checkbox"/> Prefer not to answer		



Indicator	Calculation and Notes	Denominator	Source
RESPONSE AND PREVENTION			
PREVENTIVE PERSONAL HYGIENE	<p>Indicators derived from question 27: <i>Which of the following actions do you take to lower your risk of getting COVID-19? Check all that apply</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I have not changed my actions <input type="checkbox"/> Hand washing regularly for 20 seconds <input type="checkbox"/> Avoiding touching my eyes, nose, and mouth with unwashed hands <input type="checkbox"/> Use of disinfectants to clean hands when soap and water is not available for hand washing (like alcohol gel or foam, such as Purell) <input type="checkbox"/> Use of disinfectants to clean frequently touched surfaces, objects in the home (such as doorknobs, or sink taps) <input type="checkbox"/> Staying home when you are sick or when you have a cold <input type="checkbox"/> Only taking essential trips outside of the home (such as to grocery store, pharmacy, walk a pet, exercise) <input type="checkbox"/> Practicing physical distancing (staying at least 2 metres away from people) when outside of the home <input type="checkbox"/> Avoiding gatherings <input type="checkbox"/> Working from home <input type="checkbox"/> Wearing a mask that covers the mouth and nose <input type="checkbox"/> Other; specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from World Health Organization (WHO) Regional Office for Europe: Survey Tool and Guidance. Rapid, simple, flexible behavioural insights in COVID-19 Appendix Page 12. ³
No preventive actions	Respondents who selected, "Hand washing regularly for 20 seconds", "Avoiding touching my eyes, nose, and mouth with unwashed hands", "Use of disinfectants to clean hands when soap and water is not available for hand washing (like alcohol gel or foam, such as Purell)", or "Use of disinfectants to clean frequently touched surfaces, objects in the home (such as doorknobs, or sink taps)".		
No preventive actions	Respondents who selected, "I have not changed my actions".		
Wash hands regularly	Respondents who selected, "Hand washing regularly for 20 seconds".		
Physical distancing	Respondents who selected, "Practicing physical distancing (staying at least 2 metres away from people) when outside of the home".		
Avoid gatherings	Respondents who selected, "Avoiding gatherings".		
Stay home sick	Respondents who selected, "Staying home when you are sick or when you have a cold".		



Indicator	Calculation and Notes	Denominator	Source
ABLE TO SELF-ISOLATE	<p>Indicator is a combination of two survey questions:</p> <p>Indicators derived from question 57: <i>Do you live by yourself? (Yes/No)</i> and Question 59: <i>Do you have a place where you could self-isolate?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes – I can self-isolate from my household members in my own home <input type="checkbox"/> Yes – I or my household members could stay with someone else <input type="checkbox"/> No – I have no permanent home <input type="checkbox"/> No – I could not self-isolate from my household members <input type="checkbox"/> Prefer not to answer 	Denominator does not include “Prefer not to answer” or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Able to self-isolate	Respondents who selected, “they live alone or they can self-isolate in their own home or in someone else’s home”.		
SICK LEAVE	<p>Indicators derived from question 73: <i>Are you able to stay home from work when you are sick?</i></p> <p>Question is branched from the question 70: <i>As of March 2020, what occupation or industry did you most recently work in?</i> For those who did not select, “Not working”.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No – I do not have sick leave benefits <input type="checkbox"/> No – work culture prevents me from staying home while sick <input type="checkbox"/> No – I feel too guilty <input type="checkbox"/> No – I do not feel that I have job security <input type="checkbox"/> No – No one else can do my job <input type="checkbox"/> No – Other; please specify: <input type="checkbox"/> Prefer not to answer 	Denominator does not include “Other, please specify”, “Prefer not to answer” or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Sick leave	Respondents who selected, “Yes – I can self-isolate from my household members in my own home” or “Yes – I or my household members could stay with someone else”.		



Indicator	Calculation and Notes	Denominator	Source
WORK REMOTELY	<p>Indicator is a combination of two survey questions:</p> <p>Indicators derived from question 27: <i>Which of the following actions do you take to lower your risk of getting COVID-19: Check all that apply (Working from home)</i> and Question 63: <i>Are you currently working? Check all that apply</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, going into the office/workplace <input type="checkbox"/> Yes, remotely <input type="checkbox"/> Yes, with reduced hours due to COVID-19 <input type="checkbox"/> Yes, with increased hours due to COVID-19 <input type="checkbox"/> Yes, working doing unpaid or voluntary work outside the home <input type="checkbox"/> No, not working due to COVID-19 (laid off, business closed, company policy, etc.) <input type="checkbox"/> No, other reason <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer", or missing responses.	Adapted from WHO Regional Office for Europe: Survey Tool and Guidance. Rapid, simple, flexible behavioural insights in COVID-19 Appendix Page 12. ³ Adapted from the University of California Los Angeles (UCLA) COVID Survey. ⁴
Working remotely	Respondents who selected, "Yes-remotely" and not "Yes-going in to office/workplace".		
ABLE TO PHYSICAL DISTANCE AT WORK	<p>Indicator derived from question 72: <i>How often does your work environment allow for physical distancing with co-workers (such as enabling remote work, separate offices, virtual meetings, etc.)?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> All the time <input type="checkbox"/> Almost all the time <input type="checkbox"/> Some of the time <input type="checkbox"/> Rarely <input type="checkbox"/> None of the time <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" and missing responses. The denominator is those who answer "Some of the time", "Rarely", or "None of the time".	Novel question developed for BC COVID-19 SPEAK.
Able to physical distance at work	Respondents who selected, "All the time" or "Almost all the time".		



Indicator	Calculation and Notes	Denominator	Source
PUBLIC HEALTH RESPONSE APPROPRIATE	<p>Indicator derived from question 50: <i>Do you think the public health response to the current coronavirus pandemic in British Columbia is appropriate, too extreme, or not sufficient?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Much too extreme <input type="checkbox"/> Somewhat too extreme <input type="checkbox"/> Appropriate <input type="checkbox"/> Somewhat insufficient <input type="checkbox"/> Not sufficient at all <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	International Survey on Coronavirus: covid19-survey.org. ⁵
Public health response appropriate	Respondents who selected, "Appropriate".		
EXPERIENCE			
MENTAL HEALTH	<p>Indicators derived from question 38: <i>Compared to before the COVID-19 pandemic, how would you rate your mental health (such as feeling anxious, depressed or irritable) now?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Much better <input type="checkbox"/> Slightly better <input type="checkbox"/> About the same <input type="checkbox"/> Slightly worse <input type="checkbox"/> Much worse <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from Statistics Canada. Canada Community Health Survey (CCHS) ² / My Health My Community_1. ⁶
Mental health worsening	Mental health worsening: proportion of respondents who selected, "slightly worse" or "much worse".		
STRESS	<p>Indicators derived from question 39: <i>Thinking about the amount of stress in your life, would you say that most days since the COVID-19 pandemic are:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not very stressful <input type="checkbox"/> A bit stressful <input type="checkbox"/> Somewhat stressful <input type="checkbox"/> Quite stressful <input type="checkbox"/> Extremely stressful <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	MHMC_1. ⁶
Stressed	Respondents who selected, "quite stressful" or "extremely stressful".		



Indicator	Calculation and Notes	Denominator	Source
CONCERN FOR HEALTH	Indicator derived from question 40: <i>How concerned are you about each of the following impacts of COVID-19? My own health</i> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Statistics Canada. Mental Health and COVID-19 Survey. ⁷
Concern for own health	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned".		
CONCERN FOR FAMILY	Indicators derived from question 40: <i>How concerned are you about each of the following impacts of COVID- 19? Vulnerable family members' health (e.g. elderly family members, those with chronic conditions)</i> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Statistics Canada. Mental Health and COVID-19 Survey. ⁷
Concern for vulnerable family health	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned".		
PERCEIVE CORONAVIRUS CLOSE BY	Indicator derived from question 41: <i>Indicator derived from question on a slide scale: The novel coronavirus to me feels ...</i> <i>Proximity</i> <i>(0) Far away from me - - - - - Close to me (100)</i>	Denominator does not include missing responses.	Adapted from WHO Regional Office for Europe: Survey Tool and Guidance. Rapid, simple, flexible behavioural insights in COVID-19 Appendix Page 12. ³
Perceive coronavirus close by	Respondents who selected, "≥ 67 on the 100 point scale".		
Perceive coronavirus far away	Respondents who selected, "≤ 33 on the 100 point scale".		



Indicator	Calculation and Notes	Denominator	Source
FIND CORONAVIRUS THOUGHT CONSUMING	Indicator derived from question 41: <i>Indicator derived from question on a slide scale: The novel coronavirus to me feels...</i> <i>Thought consuming</i> (0) <i>Something I almost never think about</i> - - - - - - - - - - <i>Something I think about all the time (100)</i>	Denominator does not include missing responses.	Adapted from WHO Regional Office for Europe: Survey Tool and Guidance. Rapid, simple, flexible behavioural insights in COVID-19 Appendix Page 12. ³
Perceive coronavirus close by	Respondents who selected, "≥ 67 on the 100 point scale".		
Perceive coronavirus far away	Respondents who selected, "≤ 33 on the 100 point scale".		
FIND CORONAVIRUS CONTROL	Indicator derived from question 41: <i>Indicator derived from question on a slide scale: The novel coronavirus to me feels...</i> <i>Control</i> (0) <i>Something I am able to combat with my own action</i> - - - - - <i>Something that makes me feel helpless (100)</i>	Denominator does not include missing responses.	Adapted from WHO Regional Office for Europe: Survey Tool and Guidance. Rapid, simple, flexible behavioural insights in COVID-19 Appendix Page 12. ³
Feel Helpless	Respondents who selected, "≤ 33 on the 100 point scale".		
Feel Control	Respondents who selected, "≥ 67 on the 100 point scale".		
RISK AND PROTECTIVE FACTORS			
PHYSICAL ACTIVITY - RECREATION	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Walking, running, or cycling for recreation.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Walk/run/cycle for recreation - more	Respondents who selected, "significantly more" or "somewhat more".		
Walk/run/cycle for recreation - less	Respondents who selected, "significantly less" or "somewhat less".		



Indicator	Calculation and Notes	Denominator	Source
PHYSICAL ACTIVITY - COMMUTING	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Walking, running, or cycling for commute.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Commute by walk/run/cycle - more	Respondents who selected, "significantly more" or "somewhat more".		
Commute by walk/run/cycle - less	Respondents who selected, "significantly less" or "somewhat less".		
FRUITS AND VEGETABLES	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Fruit and vegetable consumption.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Fruits and vegetables - more	Respondents who selected, "significantly more" or "somewhat more".		
Fruits and vegetables - less	Respondents who selected, "significantly less" or "somewhat less".		
SLEEP	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Sleep.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses	Adapted from MHMC_1. ⁶

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Sleep - more	Respondents who selected, "significantly more" or "somewhat more".		
Sleep - less	Respondents who selected, "significantly less" or "somewhat less".		
ALCOHOL	<p>Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Drink alcohol.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Alcohol - more	Respondents who selected, "significantly more" or "somewhat more".		
Alcohol - less	Respondents who selected, "significantly less" or "somewhat less".		
CANNABIS	<p>Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Use cannabis (e.g., Marijuana).</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Cannabis - more	Respondents who selected, "significantly more" or "somewhat more".		
Cannabis - less	Respondents who selected, "significantly less" or "somewhat less".		



Indicator	Calculation and notes	Denominator	Source
SMOKE	Indicators derived from question 36: <i>Which of the following best describes your smoking or vaping use?</i> <input type="checkbox"/> I have never smoked/vaped <input type="checkbox"/> I smoke/vape daily <input type="checkbox"/> I smoke/vape occasionally <input type="checkbox"/> I no longer smoke/vape, but I used to smoke/vape daily <input type="checkbox"/> I no longer smoke/vape, but I used to smoke/vape occasionally <input type="checkbox"/> I don't know Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Smoke - daily/occasionally	Respondents who selected, "I smoke/vape daily" or "I smoke/vape occasionally".		
CHRONIC CONDITIONS	Indicators derived from question 33: <i>Has a doctor ever diagnosed you with any of the following other conditions? Check all that apply.</i> <input type="checkbox"/> Diabetes <input type="checkbox"/> High blood pressure <input type="checkbox"/> Heart disease <input type="checkbox"/> Chronic breathing condition (e.g., Asthma, chronic obstructive pulmonary disease (COPEd), chronic bronchitis or emphysema) <input type="checkbox"/> Cancer <input type="checkbox"/> Liver disease <input type="checkbox"/> Kidney disease <input type="checkbox"/> Immunocompromised <input type="checkbox"/> Overweight (BMI 25-29.9) <input type="checkbox"/> Obese (BMI 30 or more) <input type="checkbox"/> Other; specify: <input type="checkbox"/> None of the above <input type="checkbox"/> Prefer not to answer	Denominator does not include "None of the above", "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
One or more health conditions	Respondents who selected, one or more of any of the conditions listed except "Other; specify".		



Indicator	Calculation and notes	Denominator	Source
HEALTHCARE IMPACTS			
HEALTHCARE DIFFICULTY	<p>Indicators derived from question 44: <i>Since the COVID-19 pandemic, have you experienced difficulty in accessing health care you needed from a doctor, nurse, traditional health care provider or other health professional?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I haven't needed care <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Adapted from MHMC_2. ⁶
Difficulty accessing healthcare	Respondents who selected, "Yes".		
TYPE OF HEALTHCARE DIFFICULTY	<p>Indicators derived from question 45: <i>What kind of care have you had difficulty accessing? Check all that apply.</i></p> <p>Question is branched from question 44: <i>Since the COVID-19 pandemic, have you experienced difficulty in accessing health care you needed from a doctor, nurse, traditional health care provider or other health professional? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Family doctor <input type="checkbox"/> Scheduled surgery <input type="checkbox"/> Diagnostic services (imaging, endoscopy, angiography, laboratory, etc.) <input type="checkbox"/> Emergency or urgent care services <input type="checkbox"/> Preventive care (e.g., Immunizations/shots) <input type="checkbox"/> Specialty care (e.g., Dermatologist, optometrist, obstetrician, podiatrist) <input type="checkbox"/> Complementary care (e.g., Physical therapy, massage therapy, nutritionist, chiropractor) <input type="checkbox"/> Dental care <input type="checkbox"/> Counselling <input type="checkbox"/> Traditional wellness/healing <input type="checkbox"/> Other; please specify: _____ <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	MHMC_2. ⁶
Family doctor - difficulty access	Respondents who selected, "family doctor".		
Elective surgery - difficulty access	Respondents who selected, "elective surgery".		
Diagnostics - difficulty access	Respondents who selected, "diagnostics".		



Indicator	Calculation and notes	Denominator	Source
Emergency care - difficulty access	Respondents who selected, "emergency care".		
Preventive care - difficulty access	Respondents who selected, "preventive care".		
Specialist - difficulty access	Respondents who selected, "specialist".		
Complementary care - difficulty access	Respondents who selected, "complementary care".		
Dentist - difficulty access	Respondents who selected, "dentist".		
Counselling - difficulty access	Respondents who selected, "counselling".		
Traditional wellness - difficulty access	Respondents who selected, "Traditional wellness".		
HEALTHCARE AVOIDING	Indicator derived from question 46: <i>Since the COVID-19 pandemic, have you avoided health care you otherwise would have had from a doctor, nurse, traditional health care provider, or other health professional?</i> <input type="checkbox"/> I haven't needed care <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Avoid healthcare	Respondents who selected, "Yes".		



Indicator	Calculation and notes	Denominator	Source
TYPE OF HEALTHCARE AVOIDING	<p>Indicators derived from question 47: <i>What kind of care have you avoided? Check all that apply.</i></p> <p>Question is branched from question 46: <i>Since the COVID-19 pandemic, have you avoided health care you needed from a doctor, nurse, traditional health care provider or other health professional? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Family doctor <input type="checkbox"/> Scheduled surgery <input type="checkbox"/> Diagnostic services (imaging, endoscopy, angiography, laboratory, etc.) <input type="checkbox"/> Emergency or urgent care services <input type="checkbox"/> Preventive care (e.g., Immunizations/shots) <input type="checkbox"/> Specialty care (e.g., Dermatologist, optometrist, obstetrician, podiatrist) <input type="checkbox"/> Complementary care (e.g., Physical therapy, massage therapy, nutritionist, chiropractor) <input type="checkbox"/> Dental care <input type="checkbox"/> Counselling <input type="checkbox"/> Traditional wellness/healing <input type="checkbox"/> Other; please specify: _____ <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Family doctor - avoid	Respondents who selected, "family doctor".		
Elective surgery - avoid	Respondents who selected, "elective surgery".		
Diagnostics - avoid	Respondents who selected, "diagnostics".		
Emergency care - avoid	Respondents who selected, "emergency care".		
Preventive care - avoid	Respondents who selected, "preventive care".		
Specialist - avoid	Respondents who selected, "specialist".		
Complementary care - avoid	Respondents who selected, "complementary care".		
Dentist - avoid	Respondents who selected, "dentist".		
Counselling - avoid	Respondents who selected, "counselling".		
Traditional wellness - avoid	Respondents who selected, "Traditional wellness".		

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Indicator	Calculation and notes	Denominator	Source
VIRTUAL CARE INTEREST	<p>Each indicator derived from question 49: <i>I would be interested in connecting with a health care provider remotely, such as virtually through a video call or phone call (as appropriate), if given clear instructions on how to connect.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Strongly agree <input type="checkbox"/> Somewhat agree <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat disagree <input type="checkbox"/> Strongly disagree <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected "Prefer not to answer" or missing.	Novel question developed for BC COVID-19 SPEAK.
Virtual care interest	Respondents who selected, "Strongly agree" or "Somewhat agree".		
SOCIAL IMPACTS			
CHILDCARE	<p>Indicators derived from question 60: <i>Since the coronavirus pandemic, have you lost child care for your children aged 1-4 years?</i></p> <p>Question is branched from question 58: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, "aged less than 1 year" or "aged 1-4 years".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, childcare facility closed <input type="checkbox"/> Yes, I chose to take my children out of child care <input type="checkbox"/> No <input type="checkbox"/> I don't use external childcare <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I do not use external childcare", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Childcare - lost or removed	Respondents who selected, "Yes, child care facility closed" or "Yes, I chose to take my children out of child care".		



Indicator	Calculation and notes	Denominator	Source
CHILD'S LEARNING	<p>Indicators derived from question 61: <i>With schools being closed to in person instruction, how has this impacted your school-aged child's, or your children's, learning?</i></p> <p>Question is branched from question 58: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, = "aged 5-12 years" or aged 13-17 years" or <0(K-12)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly impaired their learning <input type="checkbox"/> Somewhat impaired their learning <input type="checkbox"/> No change in their learning <input type="checkbox"/> Somewhat improved their learning <input type="checkbox"/> Significantly improved their learning <input type="checkbox"/> My school-aged children still go to school <input type="checkbox"/> Prefer not to answer 	Denominator does not include "My school-aged children still go to school", "Prefer not to answer" or missing responses.	
Child impaired learning	Respondents who selected, "Significantly impaired their learning" or "Somewhat impaired their learning".		
CHILD STRESS	<p>Indicators derived from question 62: <i>Please indicate how your child's or children's wellbeing has changed? Child stress.</i></p> <p>Question is branched from question 58: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, = "aged 5-12 years" or aged 13-17 years" or <0(K-12)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child stress - more	Respondents who selected, "significantly more" or "somewhat more".		
Child stress - less	Respondents who selected, "significantly less" or "somewhat less".		



Indicator	Calculation and notes	Denominator	Source
CHILD SCREEN TIME	<p>Indicators derived from question 62: <i>Please indicate how your child's or children's wellbeing has changed? Child screen time.</i></p> <p>Question is branched from question 58: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, = "aged 5-12 years" or aged 13-17 years" or <0(K-12)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child screen time - more	Respondents who selected, "significantly more" or "somewhat more".		
Child screen time - less	Respondents who selected, "significantly less" or "somewhat less".		
CHILD CONNECTING WITH FRIENDS	<p>Indicators derived from question 62: <i>Please indicate how your child's or children's wellbeing has changed? Child connecting with friends.</i></p> <p>Question is branched from question 59: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, = "aged 5-12 years" or aged 13-17 years" or <0(K-12)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child connection with friends - more	Respondents who selected, "significantly more" or "somewhat more".		
Child connection with friends - less	Respondents who selected, "significantly less" or "somewhat less".		

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Indicator	Calculation and notes	Denominator	Source
CHILD CONNECTING WITH FAMILY	<p>Indicators derived from question 62: <i>Please indicate how your child's or children's wellbeing has changed? Child connecting with family.</i></p> <p>Question is branched from question 58: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, = "aged 5-12 years" or aged 13-17 years" or <0(K-12)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child connection with family - more	<input type="checkbox"/> Respondents who selected, "significantly more" or "somewhat more".		
Child connection with family - less	<input type="checkbox"/> Respondents who selected, "significantly less" or "somewhat less".		
ECONOMIC IMPACTS			
BUSINESSES - COMFORTABLE VISITING	<p>Indicators derived from question 54: <i>Would you visit/patron a business that is not considered essential if they had good measures in place such as space to allow for physical distancing and frequent disinfecting of surfaces.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Very comfortable visiting <input type="checkbox"/> Somewhat comfortable visiting <input type="checkbox"/> Neither comfortable or uncomfortable visiting <input type="checkbox"/> Somewhat uncomfortable visiting <input type="checkbox"/> Very uncomfortable visiting <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or "missing responses".	
Businesses - Comfortable Visiting	Respondents who selected, "Very comfortable visiting" or "Somewhat comfortable visiting".		



Indicator	Calculation and notes	Denominator	Source
NOT WORKING DUE TO COVID-19	<p>Indicator derived from question 63: <i>Are you currently working? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes-going in to office/workplace <input type="checkbox"/> Yes-remotely <input type="checkbox"/> Yes-with reduced hours due to COVID-19 <input type="checkbox"/> Yes-with increased hours due to COVID-19 <input type="checkbox"/> No- due to COVID-19 (laid off, business closed, company policy, etc.) <input type="checkbox"/> No - other reason (e.g. student, unemployed, retired, etc.) <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Adapted from UCLA COVID Survey. ⁴
Not working due to COVID-19	Respondents who selected, "No- due to COVID-19 (laid off, business closed, company policy, etc.)".		
WORK IMPAIRED	<p>Indicator derived from question 64: <i>How has the COVID-19 pandemic affected your work (e.g., Productivity, stress, financially, children at home etc.)?</i></p> <p>Question is branched from question 63: <i>Are you currently working? Check all that apply. And respondents selected, "Yes-going in to office/workplace", "Yes-remotely", "Yes-with reduced hours due to COVID-19", or "Yes-with increased hours due to COVID-19".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly impaired my work <input type="checkbox"/> Somewhat impaired my work <input type="checkbox"/> No change in my work <input type="checkbox"/> Somewhat improved my work <input type="checkbox"/> Significantly improved my work <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses	
Work impaired	Respondents who selected, "Significantly impaired my work", or "Somewhat impaired my work".		
FINANCIAL STRESS	<p>Indicators derived from question 65: <i>Since the COVID-19 pandemic, how has it been for you or your household to meet its financial needs?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Much more difficult <input type="checkbox"/> Somewhat more difficult <input type="checkbox"/> Neither more difficult nor easier <input type="checkbox"/> Somewhat easier <input type="checkbox"/> Much easier <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	Adapted from MHMC_2. ⁶



Indicator	Calculation and notes	Denominator	Source
Financial stress - current	Respondents who selected, "much more difficult" or "somewhat more difficult".		
FOOD SECURITY	<p>Indicators derived from question 67: <i>Please indicate whether the following statement is often true, sometimes, or never true since the COVID-19 pandemic. You worry that food will run out before you get money to buy more.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Often true <input type="checkbox"/> Sometimes true <input type="checkbox"/> Never true <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	CCHS. ²
Concern for food security	Respondents who selected, "often true" or "sometimes true".		
FUTURE FINANCIAL NEED	<p>Indicators derived from question 66: <i>If the current public health response to the COVID-19 pandemic does not change for the next few months, what will happen to your financial situation?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly worse <input type="checkbox"/> Somewhat worse <input type="checkbox"/> No change <input type="checkbox"/> Somewhat better <input type="checkbox"/> Significantly better <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC_2. ⁶
Financial stress - future	Respondents who selected, "significantly worse" or "somewhat worse".		
HOUSING SECURITY	<p>Indicator derived from question 68: <i>How likely is it that you will need to move within the next 6 months because you can no longer afford your current home?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Very likely <input type="checkbox"/> Likely <input type="checkbox"/> Neither likely nor unlikely <input type="checkbox"/> Unlikely <input type="checkbox"/> Very unlikely <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC_2. ⁶
Housing insecure	Housing insecure: proportion of respondents who selected, "very likely" or "likely".		



Indicator	Calculation and notes	Denominator	Source
RESILIENCY			
CONNECTION WITH FAMILY	Indicator derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Connecting with family.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁶
Connection with family - same	Respondents who selected, "significantly more" or "somewhat more".		
Connection with family - never	Respondents who selected, "significantly less" or "somewhat less".		
COMMUNITY BELONGING	Indicator derived from question 42: <i>How would you describe your sense of belonging to your local community?</i> <input type="checkbox"/> Very strong <input type="checkbox"/> Somewhat strong <input type="checkbox"/> Somewhat weak <input type="checkbox"/> Very weak <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC_2. ⁶
Community belonging - strong	Respondents who selected, "very strong" or "somewhat strong".		
Community belonging - weak	Respondents who selected, "very weak" or "somewhat weak".		

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Variable	Calculation and Notes	Denominator	Source
SOCIO-DEMOGRAPHICS			
SEX	Indicators derived from question 7: <i>What was your sex at birth?</i>		
Female			
Male	This was a mandatory question to take part in the survey. The variable represents sex at birth; female, male or prefer not to answer.		
AGE (YEARS)	Indicators derived from question 1: <i>What is your age?</i>		BC COVID-19 SPEAK survey target population was aged 18 and over. Census, national household survey (NHS) ¹ and Canadian community health survey ² (12 years+) report have wider age groups so publicly reported estimates, such as on Statistics Canada website, from these surveys may differ.
18-29			
30-39	This was a mandatory question to take part in the survey.		
40-49	Age at time of survey for the respondent was selected from a drop-down list.		
50-59			
60-69			
70-79			
80+			

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EDUCATION	Indicators derived from question 98: <i>What is the highest level of education you have completed?</i>		The BC COVID-19 SPEAK education question was based on Statistics Canada Census ³ questions. Census also reports highest level of education completed. It is possible to derive the SPEAK education categories from census data.
Below high school High school Certificate or diploma University degree	<input type="checkbox"/> Less than high school graduation <input type="checkbox"/> High school graduation <input type="checkbox"/> Trade certificate or diploma from a vocational school or apprenticeship training <input type="checkbox"/> Non-university certificate or diploma from a community college, CEGEP or nursing school <input type="checkbox"/> University certificate below bachelor's level <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Graduate degree <input type="checkbox"/> Prefer not to answer These categories were collapsed into four categories for reporting: 1. Below high school 2. High school 3. Trade certificate or diploma from a vocational school or apprenticeship training, non-university certificate or diploma from a community college, CEGEP or nursing school, or University certificate below bachelor's level 4. University degree (Bachelor's degree or Graduate degree)		
HOUSEHOLD INCOME	Indicators derived from question 94: <i>Can you estimate your household income, before taxes and deductions, from all sources for the last calendar (tax) year?</i>		Statistics Canada. Canadian census ³ / Canadian community health survey (CCHS). ²
Under \$20,000 \$20,000 to \$59,000 \$60,000 to \$99,000 \$100,000-\$139,000 \$140,000 and above	<input type="checkbox"/> Under \$20,000 <input type="checkbox"/> \$20,000 to \$39,999 <input type="checkbox"/> \$40,000 to \$59,999 <input type="checkbox"/> \$60,000 to \$79,999 <input type="checkbox"/> \$80,000 to \$99,999 <input type="checkbox"/> \$100,000 to \$119,999 <input type="checkbox"/> \$120,000 to \$139,999 <input type="checkbox"/> \$140,000 to \$159,999 <input type="checkbox"/> \$160,000 to \$179,999 <input type="checkbox"/> \$180,000 to \$199,999 <input type="checkbox"/> \$200,000 and over <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer		



Variable	Calculation and Notes	Denominator	Source
ETHNICITY	Indicators derived from question 2: <i>Do you consider yourself to be. Check all that apply.</i>		Statistics Canada. Canadian Census. ³
White	<input type="checkbox"/> First nations		
Chinese	<input type="checkbox"/> Métis		
South Asian	<input type="checkbox"/> Inuit		
Southeast Asian/ Filipino	<input type="checkbox"/> White (European Descent)		
West Asian/Arab	<input type="checkbox"/> Chinese		
Japanese/Korean	<input type="checkbox"/> South Asian (e.g., East Indian, Pakistani, Sri Lankan)		
Black	<input type="checkbox"/> Black (e.g., African or Caribbean)		
Latin American/ Hispanic	<input type="checkbox"/> Filipino		
Multiple/Other	<input type="checkbox"/> Latin American/Hispanic		
	<input type="checkbox"/> Southeast Asian (e.g., Vietnamese, Cambodian, Malaysian, Laotian)		
	<input type="checkbox"/> Arab		
	<input type="checkbox"/> West Asian (e.g., Iranian, Afghan)		
	<input type="checkbox"/> Korean		
	<input type="checkbox"/> Japanese		
	<input type="checkbox"/> Other		
	<input type="checkbox"/> Prefer not to Answer		
	Indicators derived from question 4: <i>“Are you status First Nations?”</i>		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
	<input type="checkbox"/> I don't know		
	<input type="checkbox"/> Prefer not to answer		

COVID-19 TESTING, RESPONSE AND PREVENTION

COVID-19 TEST	Indicators derived from question 12: <i>Have you ever tested positive for COVID-19?</i>	Denominator does not include “I don't know”, “Prefer not to answer” or missing responses.	Adapted from University of California Los Angeles (UCLA) COVID Survey. ⁴
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No, my test was negative		
	<input type="checkbox"/> I am waiting to receive the results		
	<input type="checkbox"/> I have never been tested		
	<input type="checkbox"/> I don't know		
	<input type="checkbox"/> Prefer not to answer		
Never tested COVID-19	Respondents who selected, “I have never been tested”.		

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Variable	Calculation and Notes	Denominator	Source
NEVER BEEN TESTED REASON	<p>Indicators derived from question 13: <i>Why have you never been tested for COVID-19? Check all that apply.</i></p> <p>Question is branched from question 12: <i>Have you ever tested positive for COVID-19?</i> For those who selected, "I have never been tested". Therefore, each indicator denominator only includes those who selected, "I have never been tested" and does not include other response options.</p> <ul style="list-style-type: none"> <input type="checkbox"/> I have never had symptoms <input type="checkbox"/> Testing was unavailable or difficult to access <input type="checkbox"/> Testing is inconvenient and time-consuming <input type="checkbox"/> Result takes too long <input type="checkbox"/> I am afraid of getting COVID-19 from a testing site <input type="checkbox"/> I am worried about getting a positive result (e.g. on work, school, or social life) <input type="checkbox"/> I don't trust that results are kept confidential <input type="checkbox"/> I have experienced discrimination when accessing health care <input type="checkbox"/> I fear blame for spreading COVID-19 <input type="checkbox"/> I am afraid of the test procedure <input type="checkbox"/> I can't take time off work for testing <input type="checkbox"/> I was told to self-isolate instead of getting tested <input type="checkbox"/> I don't have transportation to get to or from a testing site <input type="checkbox"/> I don't have someone to watch my children/other people in my care while I go to a testing site <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	<p>Statistics Canada. Canadian COVID-19 Antibody and Health Survey/ Adult.⁵</p> <p>Adapted from John Hopkins University. COVID-19 Community Response Survey.⁶</p>
Top reason no test - no symptoms	Respondents who selected, "I have never had symptoms".		
2nd top reason no test - unavailable	Respondents who selected, "testing was unavailable or difficult to access".		
3rd top reason no test - self-isolated	Respondents who selected, "told to self-isolate instead of getting tested".		



Variable	Calculation and Notes	Denominator	Source
AVOIDED TESTING	<p>Indicators derived from question 14: <i>Have you ever avoided being tested for COVID-19? Check all that apply.</i></p> <p>Question is branched from the question 12: <i>Have you ever tested positive for COVID-19?</i> For those who selected, "Yes" "No, my test was negative" or "I am waiting to receive my results".</p> <ul style="list-style-type: none"> <input type="checkbox"/> No <input type="checkbox"/> Yes, but I only had mild symptoms <input type="checkbox"/> Yes, testing was unavailable or difficult to access <input type="checkbox"/> Yes, testing is inconvenient and time-consuming <input type="checkbox"/> Yes, results take too long <input type="checkbox"/> Yes, I am afraid of getting COVID-19 from a testing site <input type="checkbox"/> Yes, I am worried about getting a positive result (e.g. on work, school, or social life) <input type="checkbox"/> Yes, I don't trust that results are kept confidential <input type="checkbox"/> Yes, I have experienced discrimination when accessing health care <input type="checkbox"/> Yes, I fear blame for spreading COVID-19 <input type="checkbox"/> Yes, I am afraid of the test procedure <input type="checkbox"/> Yes, I can't take time off work for testing <input type="checkbox"/> I don't have transportation to get to or from a testing site <input type="checkbox"/> I don't have someone to watch my children/other people in my care while I go to a testing site <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	<p>Statistics Canada Canadian COVID-19 Antibody and Health Survey/ Adult.⁵</p> <p>Adapted from John Hopkins University. COVID-19 Community Response Survey.⁶</p>
Avoid tested COVID-19	<p>Respondents who selected, "Yes, testing was unavailable or difficult to access", "Yes, testing is inconvenient and time-consuming", "Yes, results take too long", "Yes, I am afraid of getting COVID-19 from a testing site", "Yes, I am worried about getting a positive result (e.g. On work, school, or social life)", "Yes, I don't trust that results are kept confidential", "Yes, I have experienced discrimination when accessing health care", "Yes, I fear blame for spreading COVID-19 ", "Yes, I am afraid of the test procedure", "Yes, I can't take time off work for testing", "Yes, I don't have transportation to get to or from a testing site" or "Yes, I don't have someone to watch my children/ other people in my care while I go to a testing site" or "Other, please specify:"</p>		
Top reason avoid tested - mild symptoms	<p>Respondents who selected, "only had mild symptoms".</p>		



Variable	Calculation and Notes	Denominator	Source
2nd top reason avoid tested - unavailable	Respondents who selected, "testing was unavailable or difficult to access".		
3rd top reason avoid tested - positive result	Respondents who selected, "worried about getting a positive result".		
CONTACTED BY PUBLIC HEALTH	Indicators derived from question 15: <i>Have you ever been identified as a close contact to someone with COVID-19 or told to self-isolate by public health?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Close contact or self-isolate	Respondents who selected, "Yes".		
SELF-ISOLATION	Indicators derived from question 16: <i>Did you have a place where you could self-isolate for the whole time of your isolation period?</i> Question is branched from the question 15: <i>Have you ever been identified as a close contact to someone with COVID-19 or told to self-isolate by public health?</i> For those who selected, "Yes". <input type="checkbox"/> I was able to self-isolate in my own home <input type="checkbox"/> I was able to self-isolate in someone else's home <input type="checkbox"/> I was able to self-isolate in a hotel <input type="checkbox"/> I received assistance with finding a place to self-isolate (e.g. through Health Authority, BC Housing) <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> No, I was not able to self-isolate <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from Statistics Canada Canadian COVID-19 Antibody and Health Survey/ Adult. ⁵ Adapted from John Hopkins University. COVID-19 Community Response Survey. ⁶
Able to self-isolate	Respondents who selected, "I was able to self-isolate in my own home", "I was able to self-isolate in someone else's home", "I was able to self-isolate in a hotel", "I received assistance with finding a place to self-isolate" or "Other, please specify".		



Variable	Calculation and Notes	Denominator	Source
STAY AT HOME WHEN SICK	<p>Indicators derived from question 81: <i>Are you able to stay home from work when you are sick or self-isolating?</i></p> <p>Question is branched from the question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply.</i> For those who selected, "post-secondary education student" or ≠ "Not working".</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, I have paid sick leave <input type="checkbox"/> Yes, I can take unpaid leave <input type="checkbox"/> Yes, I can work remotely <input type="checkbox"/> No, I don't have sick leave benefits <input type="checkbox"/> No, I can't take unpaid leave <input type="checkbox"/> No, my work culture prevents me from staying home while sick <input type="checkbox"/> No, I feel too guilty <input type="checkbox"/> No, I don't feel that I have job security <input type="checkbox"/> No, no one else can do my job <input type="checkbox"/> No, other please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses. For each 'No' choice, denominator does not include "Prefer not to answer" or missing responses and none of the 'No' choices was selected. For each 'Yes' choice, denominator does not include "Prefer not to answer" or missing responses and none of the 'Yes' choices was selected.	Novel question developed for BC COVID-19 SPEAK.
Stay home sick	Respondents who selected, "Yes, I have paid sick leave", "Yes, I can take unpaid leave", or "Yes, I can work remotely".		
Unable stay home sick - no sick leave	Respondents who selected, "No, I don't have sick leave benefits".		



Variable	Calculation and Notes	Denominator	Source
WORK	<p>Indicator derived from question 70: <i>Are you currently working or studying? Check all that apply</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, going into the office/workplace <input type="checkbox"/> Yes, working remotely <input type="checkbox"/> Yes, both working remotely and going into the workplace <input type="checkbox"/> Yes, with reduced hours due to COVID-19 <input type="checkbox"/> Yes, with increased hours due to COVID-19 <input type="checkbox"/> Yes, working doing unpaid or voluntary work outside the home <input type="checkbox"/> No, not working due to COVID-19 (laid off, business closed, company policy, etc.) <input type="checkbox"/> No, not working -unable to work due to caring for a child or family member <input type="checkbox"/> No, not working prior to COVID-19 <input type="checkbox"/> Retired <input type="checkbox"/> Full-time student <input type="checkbox"/> Part-time student <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer", "Other, please specify" or missing responses.	Adapted from UCLA COVID Survey. ⁴
Working remotely	Respondents who selected, "Yes, working remotely" or "Yes, both working remotely and going into the workplace".		
PUBLIC HEALTH ORDERS -YOU	<p>Indicator derived from question 52: <i>How well do you think you are doing at following the current recommendations by the BC provincial health officer?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Very well <input type="checkbox"/> Somewhat well <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat poorly <input type="checkbox"/> Very poorly <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I don't know", "Prefer not to answer" and missing responses.	Novel question developed for BC COVID-19 SPEAK R1 adapted for R2.
You follow public health - well	Respondents who selected, "very well" or "somewhat well".		



Variable	Calculation and Notes	Denominator	Source
PUBLIC HEALTH ORDERS-PUBLIC	Indicator derived from question 53: <i>How well do you think the public is doing at following the current recommendations by the BC provincial health officer?</i> <input type="checkbox"/> Very well <input type="checkbox"/> Somewhat well <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat poorly <input type="checkbox"/> Very poorly <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R1 adapted for R2.
Public follow Public Health - well	Respondents who selected, "very well" or "somewhat well".		
NON-ESSENTIAL BUSINESSES	Indicators are derived from question 54: <i>Since the COVID-19 pandemic, have you visited non-essential businesses such as restaurants or shopping complexes?</i> <input type="checkbox"/> Yes, frequently <input type="checkbox"/> Yes, sometimes <input type="checkbox"/> Yes, rarely <input type="checkbox"/> No, I do not feel comfortable <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Frequent visit non-essential business	Visited non-essential business during COVID-19 -frequently: proportion of people who selected, "Yes, frequently".		
EXPERIENCE			
GENERAL MENTAL HEALTH	Indicators derived from question 31: <i>In general, would you say your mental health is:</i> <input type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Canadian Community Health Survey (CCHS) ² / My Health My Community Survey (MHMC). ⁷
Mental health - poor	Respondents who selected, "fair" or "poor".		



Variable	Calculation and Notes	Denominator	Source
MENTAL HEALTH	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, how would you rate your mental health (such as feeling anxious, depressed or irritable) now?</i> <input type="checkbox"/> Much better <input type="checkbox"/> Slightly better <input type="checkbox"/> About the same <input type="checkbox"/> Slightly worse <input type="checkbox"/> Much worse <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from CCHS ² / MHMC_1.7
Mental health worsening	Mental health worsening: proportion of respondents who selected, "slightly worse" or "much worse".		
STRESS	Indicators derived from question 33: <i>Thinking about the amount of stress in your life, would you say that most days since the COVID-19 pandemic are:</i> <input type="checkbox"/> Not very stressful <input type="checkbox"/> A bit stressful <input type="checkbox"/> Somewhat stressful <input type="checkbox"/> Quite stressful <input type="checkbox"/> Extremely stressful <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	MHMC_1.7
Stressed	Respondents who selected, "quite stressful" or "extremely stressful".		
CONCERN FOR HEALTH	Indicator derived from question 35: <i>How concerned are you about each of the following impacts of COVID-19? My own health</i> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Statistics Canada. Mental Health and COVID-19 Survey. ⁸
Concern for own health	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned".		



Variable	Calculation and Notes	Denominator	Source
CONCERN FOR FAMILY	<p>Indicators derived from question 35: <i>How concerned are you about each of the following impacts of COVID-19? Family members' health (e.g., Elderly family members, those with chronic conditions) at increased risk.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Statistics Canada. Mental Health and COVID-19 Survey. ⁸
Concern for vulnerable family health	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned".		
CONCERN FOR FUTURE	<p>Indicator derived from question 35: <i>How concerned are you about each of the following impacts of COVID-19? Uncertainty about the future.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Statistics Canada. Mental Health and COVID-19 Survey. ⁸
Concern for an uncertain future	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned".		
LONELY	<p>Indicator derived from question 36: <i>How often do you feel lonely (e.g., Feeling left out, isolated from others, or lacking companionship)?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Never or hardly ever <input type="checkbox"/> Some of the time <input type="checkbox"/> Often <input type="checkbox"/> Almost always <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC ⁷ based on UCLA 3-item Loneliness Scale. ⁹
Feeling lonely - always	Respondents who selected, "almost always" or "often".		



Variable	Calculation and Notes	Denominator	Source
MENTAL HEALTHCARE	<p>Indicators derived from question 44: <i>Since the COVID-19 pandemic, has your mental health care changed?</i></p> <p>Question is branched from question 43: <i>Has a doctor diagnosed or treated you for a mental health condition in the past 10 years? For those who selected, "Yes, before the pandemic".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I have not tried to access mental health care, or I have not needed mental health care <input type="checkbox"/> There have not been changes to my mental health care <input type="checkbox"/> I have had mild changes such as appointments moved to telehealth instead of in person visits <input type="checkbox"/> I have had moderate changes such as delay in my appointments or getting prescriptions with some impact on my health <input type="checkbox"/> I have had significant changes, I have been unable to access care with an impact on my mental health <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	John Hopkins University. COVID-19 Community Response Survey. ⁶ MHMC_2. ⁷
Mental healthcare - change/impact health	Respondents who selected, "I have had significant changes, I have been unable to access care with an impact on my mental health".		
HOPEFUL	<p>Indicators derived from question 46: <i>In the past week, how often you have felt hopeful for the future.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all or less than 1 day <input type="checkbox"/> 1-2 days <input type="checkbox"/> 3-4 days <input type="checkbox"/> 5-7 days <input type="checkbox"/> Unsure <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Unsure", "Prefer not to answer" or missing responses.	John Hopkins University. COVID-19 Community Response Survey. ⁶ MHMC_2. ⁷
Hopeful for future - most days	Respondents who selected, "5-7 days".		
RISK AND PROTECTIVE FACTORS			
GENERAL HEALTH	<p>Indicators derived from question 18: <i>In general, would you say your health is:</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	CCHS ² / MHMC ⁷



Variable	Calculation and Notes	Denominator	Source
Health – Excellent or very good	Respondents who selected, "excellent" or "very good".		
Health - Good	Respondents who selected, "good".		
PHYSICAL ACTIVITY - RECREATION	<p>Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Walking, running, or cycling for recreation.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Walk/run/cycle for recreation - more	Respondents who selected, "significantly more" or "somewhat more".		
Walk/run/cycle for recreation - less	Respondents who selected, "significantly less" or "somewhat less".		
PHYSICAL ACTIVITY - COMMUTING	<p>Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Walking, running, or cycling for commute.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Commute by walk/run/cycle - more	Respondents who selected, "significantly more" or "somewhat more".		
Commute by walk/run/cycle - less	Respondents who selected, "significantly less" or "somewhat less".		



Variable	Calculation and Notes	Denominator	Source
PUBLIC TRANSIT	<p>Indicators derived from question 30: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Use public transit (e.g., Bus, sky train, sea bus).</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	
Use public transit - more	Respondents who selected, "significantly more" or "somewhat more".		
Use public transit - less	Respondents who selected, "significantly less" or "somewhat less".		
PHYSICAL ACTIVITY - 150 MINS/WEEK	<p>Indicators derived from two questions.</p> <p>Question 23: <i>During the last 7 days, on how many days did you do moderate or vigorous physical activities that made you breathe harder than normal? Such as exercise, dancing, active commuting, cycling, sports, active chores, climbing stairs, heavy lifting /digging/construction)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> ___ days per week <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer <p>Question 24: <i>On average, how much time did you spend doing moderate or vigorous physical activities on one of those days?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> ___ hours per day and ___ minutes per day <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	CCHS ² / MHMC. ⁷
Physical activity - less than 150 mins/week	Respondents who selected "less than 5 days" to question 23 and "less than 30 minutes" for question 24.		
Physical activity - 150 mins/week or more	Respondents who selected " 5 or more days" to question 23 and "30 minutes or more" for question 24.		



Variable	Calculation and Notes	Denominator	Source
FRUITS AND VEGETABLES	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Fruit and vegetable consumption.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Fruits and vegetables - more	Respondents who selected, "significantly more" or "somewhat more".		
Fruits and vegetables - less	Respondents who selected, "significantly less" or "somewhat less".		
SLEEP	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Sleep.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Sleep - more	Respondents who selected, "significantly more" or "somewhat more".		
Sleep - less	Respondents who selected, "significantly less" or "somewhat less".		
ALCOHOL	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Drink alcohol.</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷

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Variable	Calculation and Notes	Denominator	Source
Alcohol - more	Respondents who selected, "significantly more" or "somewhat more".		
Alcohol - less	Respondents who selected, "significantly less" or "somewhat less".		
BINGE DRINKING	<p>For male respondents the indicator was derived from question 28: <i>In the past 12 months, how often have you had 5 or more drinks on one occasion? One drink of alcohol includes one glass of beer, one small glass of wine or one shot of hard alcohol.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Never <input type="checkbox"/> Less than once a month <input type="checkbox"/> Once a month <input type="checkbox"/> 2 to 3 times a month <input type="checkbox"/> Once a week <input type="checkbox"/> More than once a week <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer <p>For female respondents the indicator was derived from question 29: <i>In the past 12 months, how often have you had 4 or more drinks on one occasion? One drink of alcohol includes one glass of beer, one small glass of wine or one shot of hard alcohol.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Never <input type="checkbox"/> Less than once a month <input type="checkbox"/> Once a month <input type="checkbox"/> 2 to 3 times a month <input type="checkbox"/> Once a week <input type="checkbox"/> More than once a week <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer <p>Question is branched from Question 27: <i>In the past 12 months, how often did you drink alcoholic beverages? And respondents selected any response except "never". Therefore, each indicator denominator only includes those who answered, any response except "never" and does not include other response options.</i></p>	Denominator does not include "Prefer not to answer" or missing responses.	CCHS ² / MHMC. ⁷
Binge Drinking – 1+ times/month	Respondents who selected, "once a month" "2 to 3 times a month" "once a week" or "more than once a week".		



Variable	Calculation and Notes	Denominator	Source
CANNABIS	Indicators derived from question 32: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Use cannabis (e.g., Marijuana).</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Cannabis - more	Respondents who selected, "significantly more" or "somewhat more".		
Cannabis - less	Respondents who selected, "significantly less" or "somewhat less".		
SMOKE	Indicators derived from question 36: <i>Which of the following best describes your smoking or vaping use?</i> <input type="checkbox"/> I have never smoked/vaped <input type="checkbox"/> I smoke/vape daily <input type="checkbox"/> I smoke/vape occasionally <input type="checkbox"/> I no longer smoke/vape, but I used to smoke/vape daily <input type="checkbox"/> I no longer smoke/vape, but I used to smoke/vape occasionally <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Smoke - daily/occasionally	Respondents who selected, "I smoke/vape daily" or "I smoke/vape occasionally".		



Variable	Calculation and Notes	Denominator	Source
CHRONIC CONDITIONS	<p>Indicators derived from question 33: <i>Has a doctor ever diagnosed you with any of the following other conditions? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Diabetes <input type="checkbox"/> High blood pressure <input type="checkbox"/> Heart disease <input type="checkbox"/> Chronic breathing condition (e.g., Asthma, chronic obstructive pulmonary disease (COPED), chronic bronchitis or emphysema) <input type="checkbox"/> Cancer <input type="checkbox"/> Liver disease <input type="checkbox"/> Kidney disease <input type="checkbox"/> Immunocompromised <input type="checkbox"/> Overweight (BMI 25-29.9) <input type="checkbox"/> Obese (BMI 30 or more) <input type="checkbox"/> Other; specify: <input type="checkbox"/> None of the above <input type="checkbox"/> Prefer not to answer 	Denominator does not include "None of the above", "Prefer not to answer" or missing responses	Adapted from MHMC_1. ⁷
One or more health conditions	Respondents who selected, one or more of the conditions listed except "other; specify".		
HEALTHCARE IMPACTS			
HEALTHCARE DIFFICULTY	<p>Indicators derived from question 47: <i>Since the COVID-19 pandemic, have you experienced difficulty in accessing health care you needed from a doctor, nurse, traditional health care provider or other health professional?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I haven't needed care <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Adapted from MHMC_2. ⁷
Difficulty accessing healthcare	Respondents who selected, "Yes".		

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Variable	Calculation and Notes	Denominator	Source
TYPE OF HEALTHCARE DIFFICULTY	<p>Indicators derived from question 48: <i>What kind of care have you had difficulty accessing? Check all that apply.</i></p> <p>Question is branched from question 47: <i>Since the COVID-19 pandemic, have you experienced difficulty in accessing health care you needed from a doctor, nurse, traditional health care provider or other health professional? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Family doctor <input type="checkbox"/> Scheduled surgery <input type="checkbox"/> Diagnostic services (imaging, endoscopy, angiography, laboratory, etc.) <input type="checkbox"/> Emergency or urgent care services <input type="checkbox"/> Preventive care (e.g., Immunizations/shots) <input type="checkbox"/> Specialty care (e.g., Dermatologist, optometrist, obstetrician, podiatrist) <input type="checkbox"/> Complementary care (e.g., Physical therapy, massage therapy, nutritionist, chiropractor) <input type="checkbox"/> Dental care <input type="checkbox"/> Counselling <input type="checkbox"/> Mental health care <input type="checkbox"/> Traditional wellness/healing <input type="checkbox"/> Other; please specify: _____ <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	MHMC_2.7
Family doctor - difficulty access	Respondents who selected, "family doctor".		
Elective surgery - difficulty access	Respondents who selected, "elective surgery".		
Diagnostics - difficulty access	Respondents who selected, "diagnostics".		
Emergency care - difficulty access	Respondents who selected, "emergency care".		
Preventive care - difficulty access	Respondents who selected, "preventive care".		
Specialist - difficulty access	Respondents who selected, "specialist".		
Complementary care - difficulty access	Respondents who selected, "complementary care".		

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Variable	Calculation and Notes	Denominator	Source
Dentist - difficulty access	Respondents who selected, "dentist".		
Counselling - difficulty access	Respondents who selected, "counselling".		
Mental Health - difficulty access	Respondents who selected, "mental health".		
Traditional wellness - difficulty access	Respondents who selected, "Traditional wellness".		
HEALTHCARE AVOIDING	Indicator derived from question 49: <i>Since the COVID-19 pandemic, have you avoided health care you otherwise would have had from a doctor, nurse, traditional health care provider, or other health professional?</i> <input type="checkbox"/> I haven't needed care <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Avoid healthcare	Respondents who selected, "Yes".		



Variable	Calculation and Notes	Denominator	Source
TYPE OF HEALTHCARE AVOIDING	<p>Indicators derived from question 50: <i>What kind of care have you avoided? Check all that apply.</i></p> <p>Question is branched from question 49: <i>Since the COVID-19 pandemic, have you avoided health care you needed from a doctor, nurse, traditional health care provider or other health professional? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Family doctor <input type="checkbox"/> Scheduled surgery <input type="checkbox"/> Diagnostic services (imaging, endoscopy, angiography, laboratory, etc.) <input type="checkbox"/> Emergency or urgent care services <input type="checkbox"/> Preventive care (e.g., Immunizations/shots) <input type="checkbox"/> Specialty care (e.g., Dermatologist, optometrist, obstetrician, podiatrist) <input type="checkbox"/> Complementary care (e.g., Physical therapy, massage therapy, nutritionist, chiropractor) <input type="checkbox"/> Dental care <input type="checkbox"/> Counselling <input type="checkbox"/> Mental health care <input type="checkbox"/> Traditional wellness/healing <input type="checkbox"/> Other; please specify: _____ <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected, "I don't know", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Family doctor - avoid	Respondents who selected, "family doctor".		
Elective surgery - avoid	Respondents who selected, "elective surgery".		
Diagnostics - avoid	Respondents who selected, "diagnostics".		
Emergency care - avoid	Respondents who selected, "emergency care".		
Preventive care - avoid	Respondents who selected, "preventive care".		
Specialist - avoid	Respondents who selected, "specialist".		
Complementary care - avoid	Respondents who selected, "complementary care".		
Dentist - avoid	Respondents who selected, "dentist".		
Counselling - avoid	Respondents who selected, "counselling".		
Mental Health - avoid	Respondents who selected, "mental health".		

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Variable	Calculation and Notes	Denominator	Source
Traditional wellness - avoid	Respondents who selected, "Traditional wellness".		
HEALTH IMPACTED	<p>Each indicator derived from question 51: <i>How do you think this difficulty accessing or avoiding the care you needed has impacted your health?</i></p> <p>Question is branched from two questions:</p> <p>Question 47: <i>Since the COVID-19 pandemic, have you experienced difficulty in accessing health care you needed from a doctor, nurse, traditional health care provider or other health professional?</i> And respondents answer "Yes".</p> <p>Question 49: <i>Since the COVID-19 pandemic, have you avoided health care you needed from a doctor, nurse, traditional health care provider or other health professional?</i> And respondents answer "Yes".</p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly worsened my health <input type="checkbox"/> Somewhat worsened my health <input type="checkbox"/> Has likely not impacted my health <input type="checkbox"/> I don't know how it has impacted my health <input type="checkbox"/> Prefer not to answer 	Denominator does not include respondents who selected "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK.
Not access healthcare - worsened health	Health- not impacted: proportion of respondents who selected, "has likely not impacted my health".		
SOCIAL IMPACTS			
CHILDCARE	<p>Indicators derived from question 63: <i>Since the COVID-19 pandemic, at any time have you lost childcare for your children aged 1-4 years?</i></p> <p>Question is branched from question 59: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, "aged less than 1 year" or "aged 1-4 years".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, childcare facility closed permanently <input type="checkbox"/> Yes, childcare facility closed temporarily <input type="checkbox"/> Yes, I lost my in-home childcare support (e.g., Nanny, relative) <input type="checkbox"/> Yes, I chose to take my children out of childcare <input type="checkbox"/> Yes, I did lose childcare but have since regained it <input type="checkbox"/> No <input type="checkbox"/> I don't use external childcare <input type="checkbox"/> Prefer not to answer 	Denominator does not include "I do not use external childcare", "Prefer not to answer" or missing responses	Novel question developed for BC COVID-19 SPEAK.



Variable	Calculation and Notes	Denominator	Source
Childcare - lost or removed	Respondents who selected, "Yes, childcare facility closed permanently", "Yes, childcare facility closed temporality", "Yes, I lost my in-home childcare support (e.g., Nanny, relative)", "Yes, I chose to take my children out of childcare", or "Yes, I did lose childcare but have since regained it".		
EMPLOYMENT	<p>Indicators derived from question 40: <i>Since the COVID-19 pandemic, have you experienced a change in any of the following? Employment (e.g., Lost job, had to change jobs, got a new job, retired).</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No change <input type="checkbox"/> Change for the better <input type="checkbox"/> Change for the worse <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Employment change - better	Respondents who selected, "change for the better".		
Employment change - worse	Respondents who selected, "change for the worse".		
EDUCATION	<p>Indicators derived from question 40: <i>Since the COVID-19 pandemic, have you experienced a change in any of the following? Education (e.g., Postponed schooling, dropped out of school, started higher education, not able to complete education or graduate as planned).</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No change <input type="checkbox"/> Change for the better <input type="checkbox"/> Change for the worse <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Education change - better	Respondents who selected, "change for the better".		
Education change - worse	Respondents who selected, "change for the worse".		



Variable	Calculation and Notes	Denominator	Source
HOUSING	<p>Indicators derived from question 40: <i>Since the COVID-19 pandemic, have you experienced a change in any of the following? Housing (e.g., Bought a new home, sold my home).</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No change <input type="checkbox"/> Change for the better <input type="checkbox"/> Change for the worse <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Housing change - better	Respondents who selected, "change for the better".		
Housing change - worse	Respondents who selected, "change for the worse".		
DISCRIMINATION	<p>Indicators derived from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No <input type="checkbox"/> Same as before the pandemic <input type="checkbox"/> Increased since the pandemic <input type="checkbox"/> Decreased since the pandemic <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Adapted from MHMC_2.7
Discrimination - ever	Respondents who selected, "same as before the pandemic", "increased since the pandemic" or "decreased since the pandemic" for any of the options "age", "sex", "sex orientation" "ethnicity", "culture", "language", "religion", "family", or "disability/health".		
Increased discrimination - due pandemic	Respondents who selected, "increased since the pandemic" for at least one of these options "age", "sex", "sex orientation" "ethnicity", "culture", "language", "religion", "family", or "disability/health".		



Variable	Calculation and Notes	Denominator	Source
ETHNICITY DISCRIMINATION	Indicators derived from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following? Ethnicity, nationality, race or skin colour.</i> <input type="checkbox"/> No <input type="checkbox"/> Same as before the pandemic <input type="checkbox"/> Increased since the pandemic <input type="checkbox"/> Decreased since the pandemic <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Adapted from MHMC_2.7
Increased discrimination - race	Respondents who selected, "increased since the pandemic" .		
POSITIVE COVID-19 DISCRIMINATION	Indicators derived from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following? Testing positive to COVID-19.</i> <input type="checkbox"/> No <input type="checkbox"/> Increased since the pandemic <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Adapted from MHMC_2.7
Increased discrimination - COVID-19 +	Respondents who selected, "increased since the pandemic".		
LIVING IN COVID-19 AREA DISCRIMINATION	Indicators derived from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following? Living in an area that has a high number of COVID-19 cases.</i> <input type="checkbox"/> No <input type="checkbox"/> Increased since the pandemic <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Adapted from MHMC_2.7
Increased discrimination - live in area	Respondents who selected, "increased since the pandemic".		

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LIVING IN COVID-19 AREA DISCRIMINATION	<p>Indicators derived from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following? Living in an area that has a high number of COVID-19 cases.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No <input type="checkbox"/> Increased since the pandemic <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	Adapted from MHMC_2.7
Increased discrimination - live in area	Respondents who selected, "increased since the pandemic".		
SETTING EXPERIENCED DISCRIMINATION	<p>Indicators derived from question 42: <i>In what setting have you experienced discrimination, been treated unfairly or with less respect. Check all that apply.</i></p> <p>Question is branched from question 41: <i>Have you experienced any discrimination, been treated unfairly or with less respect because of any of the following? And respondents selected, "No same as before the pandemic", "increased since the pandemic" or "decreased since the pandemic". Therefore, each indicator denominator only includes those who selected, "No same as before the pandemic", "increased since the pandemic" or "decreased since the pandemic" and does not include other response options.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Workplace <input type="checkbox"/> School or educational setting <input type="checkbox"/> Health care <input type="checkbox"/> Community <input type="checkbox"/> Online <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_2.7
Discrimination - workplace	Respondents who selected, "workplace".		
Discrimination - school	Respondents who selected, "school or place of education".		
Discrimination - healthcare	Respondents who selected, "health care setting".		
Discrimination - community	Respondents who selected, "community".		



Variable	Calculation and Notes	Denominator	Source
HOUSEHOLD CONFLICT	<p>Indicators derived from question 39: <i>Since the COVID-19 pandemic, have you experienced any increased conflict or disruption in your household?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> No, none <input type="checkbox"/> Yes, household members occasionally more short-tempered with one another; no physical harm <input type="checkbox"/> Yes, household members more frequently short-tempered with one another; or children in the home getting in physical fights with one another <input type="checkbox"/> Yes, household members more frequently short-tempered with one another and adults in the home throwing things at one another, knocking over furniture, hitting, or harming one another <input type="checkbox"/> Yes, other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted John Hopkins University. COVID-19 Community Response Survey. ⁶
Increased household conflict	Respondents who selected, any of the "Yes" options except "No, none" or "Prefer not to answer".		
CHILD'S WELLBEING	<p>Indicators derived from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed?</i></p> <p>Question is branched from question 59: <i>Please indicate the number of people in each age range who live in your household and their relationship to you. And respondents selected, "aged 5-12 years" or <0 or "aged 13-17". Therefore, each indicator denominator only includes those who selected, "aged 5-12 years" or <0 or "aged 13-17" and does not include other response options.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly worse <input type="checkbox"/> Somewhat worse <input type="checkbox"/> No change <input type="checkbox"/> Somewhat better <input type="checkbox"/> Significantly better <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	
Child wellbeing - worse	Respondents who selected, "significantly worse" or "somewhat worse".		



Variable	Calculation and Notes	Denominator	Source
CHILD PHYSICAL ACTIVITY	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child physical activity.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child physical activity - more	Respondents who selected, "significantly more" or "somewhat more".		
Child physical activity - less	Respondents who selected, "significantly less" or "somewhat less".		
CHILD STRESS	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child stress. Question is branched from question 65: Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child stress - more	Respondents who selected, "significantly more" or "somewhat more".		
Child stress - less	Respondents who selected, "significantly less" or "somewhat less".		

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CHILD SCREEN TIME	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child screen time.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child screen time - more	Respondents who selected, "significantly more" or "somewhat more".		
Child screen time - less	Respondents who selected, "significantly less" or "somewhat less".		
CHILD FRUIT AND VEGETABLE	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child fruit and vegetable.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child fruit and vegetable - more	Respondents who selected, "significantly more" or "somewhat more".		
Child fruit and vegetable - less	Respondents who selected, "significantly less" or "somewhat less".		

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CHILD CONNECTING WITH FRIENDS	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child connecting with friends. Question is branched from question 65: Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child connection with friends - more	Respondents who selected, "significantly more" or "somewhat more".		
Child connection with friends - less	Respondents who selected, "significantly less" or "somewhat less".		



Variable	Calculation and Notes	Denominator	Source
CHILD CONNECTING WITH FAMILY	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child connecting with family.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child connection with family - more	Respondents who selected, "significantly more" or "somewhat more".		
Child connection with family - less	Respondents who selected, "significantly less" or "somewhat less".		
CHILD LEARNING	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child learning.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses	
Child learning - more	Respondents who selected, "significantly more" or "somewhat more".		
Child learning - less	Respondents who selected, "significantly less" or "somewhat less".		



Variable	Calculation and Notes	Denominator	Source
CHILD SLEEP	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child Sleep.</i> Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child sleeping - more	Respondents who selected, "significantly more" or "somewhat more".		
Child sleeping - less	Respondents who selected, "significantly less" or "somewhat less".		
CHILD EXTRACURRICULAR ACTIVITIES	<p>Indicators derived from question 66: <i>Please indicate how your child's or children's wellbeing has changed? Child extracurricular activities.</i></p> <p>Question is branched from question 65: <i>Since the COVID-19 pandemic, overall, how has your child's or your children's wellbeing (physical, learning and behaviour) changed? And respondents selected, "significantly worse" "somewhat worse" "somewhat less" or "significantly less".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Not applicable 	Denominator does not include "Not applicable" or missing responses.	
Child extracurricular activities - more	Respondents who selected, "significantly more" or "somewhat more".		
Child extracurricular activities - less	Respondents who selected, "significantly less" or "somewhat less".		



Variable	Calculation and Notes	Denominator	Source
CHILD SCHOOL	<p>Indicators derived from question 67: <i>How important was schools being open to your child's or children's well-being?</i></p> <p>Question is branched from question 60: <i>Do you have anyone in your household attending an educational institution (e.g., Elementary, high school, university, college, institutes)? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Very important <input type="checkbox"/> Somewhat important <input type="checkbox"/> Neutral <input type="checkbox"/> Not important <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses	Novel question developed for BC COVID-19 SPEAK R2.
School open - important	Respondents who selected, "very important" or "somewhat important".		
SCHOOL NOTIFICATION	<p>Indicators derived from question 68: <i>Did you ever receive a school exposure notification for your child's or children's school?</i></p> <p>Question is branched from question 60: <i>Do you have anyone in your household attending an educational institution (e.g., Elementary, high school, university, college, institutes)? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not sure", "Not applicable" "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Received school notification	Respondents who selected, "Yes"		



Variable	Calculation and Notes	Denominator	Source
SCHOOL NOTIFICATION PROVIDED CONFIDENCE	<p>Indicators derived from question 69: <i>Did the notification provide confidence in the safety of your child (ren) at school from COVID-19? Check all that apply?</i></p> <p>Question is branched from question 68: <i>Did you ever receive a school exposure notification for your child's or children's school? And respondents selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, provided confidence through being aware that exposures are being identified and monitored <input type="checkbox"/> Yes, provided confidence and ability to reinforce risk reducing behaviours for our child(ren) <input type="checkbox"/> No, caused significant concern but we let our child continue to attend class in-person due to lack of alternatives <input type="checkbox"/> No, caused significant concern and we kept our child at home for few days <input type="checkbox"/> My child was identified as a close contact and was kept at home <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
School notice - provided no confidence	Respondents who selected, "No, caused significant concern but we let our child continue to attend class in-person due to lack of alternatives" or "No, caused significant concern and we kept our child at home for few days".		
School notice - provided confidence	Respondents who selected, "Yes, provided confidence through being aware that exposures are being identified and monitored" or "Yes, provided confidence and ability to reinforce risk reducing behaviours for our child(ren)" .		



Variable	Calculation and Notes	Denominator	Source
EDUCATION AFFECTED	<p>Indicators derived from question 83: <i>Since the COVID-19 pandemic, has your education been affected? Check all that apply.</i></p> <p>Question branching from either two questions.</p> <p>Question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply, and respondents selected, "post-secondary education student".</i></p> <p>Question 70: <i>Are you currently working or studying? Check all that apply, and respondents selected, "full-time student" or "part-time student".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Some of my courses were postponed or cancelled <input type="checkbox"/> I was not able to complete some or all of my courses <input type="checkbox"/> Planned work placement was delayed or cancelled <input type="checkbox"/> I was not able to complete my degree, diploma or certificate as planned <input type="checkbox"/> All my classes were moved online <input type="checkbox"/> Some of my classes were moved online <input type="checkbox"/> I don't have adequate internet connection to complete classes remotely <input type="checkbox"/> I don't have adequate space to complete classes remotely <input type="checkbox"/> I have dropped out of my course <input type="checkbox"/> I have postponed my course <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> No <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses. Note the response choices "No" and "I have dropped out of my course" were mistakenly used the same response coding. Therefore, those who selected, one of these choices are included in the denominator but these responses cannot be separated	Statistics Canada. Impacts of the COVID-19 pandemic on postsecondary students. ¹⁰
Education affected - course cancelled	Respondents who selected, "Some of my courses were postponed or cancelled"		
Education affected - not complete course	Respondents who selected, "I was not able to complete some or all of my courses"		
Education affected - work cancelled	Respondents who selected, "Planned work placement was delayed or cancelled"		
Education affected - not complete	Respondents who selected, "I was not able to complete my degree, diploma or certificate as planned"		
Education affected - all classes online	Respondents who selected, "All my classes were moved online"		
Education affected - some classes online	Respondents who selected, "Some of my classes were moved online"		



Variable	Calculation and Notes	Denominator	Source
Education affected - no internet	Respondents who selected, "I don't have adequate internet connection to complete classes remotely"		
SCHOOL WILL BE ONLINE AGAIN IN SEPTEMBER- CONCERNED	<p>Indicators derived from question 84: <i>Due to the COVID-19 pandemic, how concerned are you about each of the following? School will be online again in September.</i></p> <p>Question branching from either two questions.</p> <p>Question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply, and respondents selected, "post-secondary education student".</i></p> <p>Question 70: <i>Are you currently working or studying? Check all that apply, and respondents selected, "full-time student" or "part-time student".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Impacts of the COVID-19 pandemic on postsecondary students. ¹⁰
Top reason concern - online September	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned"		
GRADES WILL BE AFFECTED -CONCERNED	<p>Indicators derived from question 84: <i>Due to the COVID-19 pandemic, how concerned are you about each of the following? My grades will be affected.</i></p> <p>Question branching from either two questions.</p> <p>Question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply, and respondents selected, "post-secondary education student".</i></p> <p>Question 70: <i>Are you currently working or studying? Check all that apply, and respondents selected, "full-time student" or "part-time student".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Impacts of the COVID-19 pandemic on postsecondary students. ¹⁰
2nd top reason concern - grades affected	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned"		



Variable	Calculation and Notes	Denominator	Source
NO PROSPECTS FOR A JOB IN THE NEAR FUTURE -CONCERNED	<p>Indicators derived from question 84: <i>Due to the COVID-19 pandemic, how concerned are you about each of the following? I will not have prospects for a job in the near future.</i></p> <p>Question branching from either two questions.</p> <p>Question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply, and respondents selected, "post-secondary education student".</i></p> <p>Question 70: <i>Are you currently working or studying? Check all that apply, and respondents selected, "full-time student" or "part-time student".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Extremely concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Impacts of the COVID-19 pandemic on postsecondary students. ¹⁰
3rd top reason concern - no job prospects	Respondents who selected, "somewhat concerned", "very concerned" or "extremely concerned"		



Variable	Calculation and Notes	Denominator	Source
ECONOMIC IMPACTS			
MOST RECENTLY WORK	<p>Indicators derived from question 79: <i>Since the COVID-19 pandemic, what occupation or industry did you most recently work in? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> I do not work or go to school (e.g., I am retired, or do unpaid work) <input type="checkbox"/> Post-secondary education student (e.g., University, college, institute) <input type="checkbox"/> Accommodation and food services <input type="checkbox"/> Administrative and support, waste management, and remediation services <input type="checkbox"/> Agriculture, forestry, fishing, and hunting <input type="checkbox"/> Arts, entertainment, and recreation <input type="checkbox"/> Construction <input type="checkbox"/> Educational services <input type="checkbox"/> Finance and insurance <input type="checkbox"/> Health care <input type="checkbox"/> Information and cultural industries <input type="checkbox"/> Management of companies and enterprises <input type="checkbox"/> Manufacturing <input type="checkbox"/> Mining, quarrying, and oil and gas extraction <input type="checkbox"/> Professional, scientific, and technical services <input type="checkbox"/> Public administration (local, provincial, or federal government) <input type="checkbox"/> Real estate and rental and leasing <input type="checkbox"/> Retail trade <input type="checkbox"/> Social assistance <input type="checkbox"/> Transportation and warehousing <input type="checkbox"/> Utilities <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Other services (except public administration), please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or "missing responses".	Statistics Canada. North American Industry Classification System (NAICS) Canada. ¹¹
Occupation - post-secondary student	Respondents who selected " post-secondary education student".		



Variable	Calculation and Notes	Denominator	Source
CURRENTLY WORKING OR STUDYING	<p>Indicators derived from question 70: <i>Are you currently working or studying? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, going into the office/workplace <input type="checkbox"/> Yes, working remotely <input type="checkbox"/> Yes, both working remotely and going into the workplace <input type="checkbox"/> Yes, with reduced hours due to COVID-19 <input type="checkbox"/> Yes, with increased hours due to COVID-19 <input type="checkbox"/> Yes, working doing unpaid or voluntary work outside the home <input type="checkbox"/> No, not working due to COVID-19 (laid off, business closed, company policy, etc.) <input type="checkbox"/> No, not working -unable to work due to caring for a child or family member <input type="checkbox"/> No, not working prior to COVID-19 <input type="checkbox"/> Retired <input type="checkbox"/> Full-time student <input type="checkbox"/> Part-time student <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC ⁷ / UCLA COVID Survey. ⁴
Not working due to COVID-19	Respondents who selected, "No-not working due to COVID-19 (laid off, business closed, company policy, etc.)".		
Currently studying	Respondents who selected, "Full-time student", or "Part-time student".		
WORK INTERRUPTION	<p>Indicator derived from question 71: <i>Since the COVID-19 pandemic have you experienced any unplanned interruptions to your employment (e.g., Lost job, furlough, seasonal employment stopped)?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Work interruption	Respondents who selected, "Yes".		



Variable	Calculation and Notes	Denominator	Source
WORK INTERRUPTION DURATION	<p>Indicators derived from question 72: <i>How many weeks in total since the beginning of the COVID-19 pandemic did you experience an unplanned interruption to your employment?</i></p> <p>Question is branched from question 71: <i>Since the COVID-19 pandemic have you experienced any unplanned interruptions to your employment (e.g., Lost job, furlough, seasonal employment stopped)? And respondent selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Less than 1 week <input type="checkbox"/> 1-4 weeks <input type="checkbox"/> 5-12 weeks <input type="checkbox"/> 13-24 weeks <input type="checkbox"/> 25-52 weeks <input type="checkbox"/> More than 52 weeks <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Work interruption 24+ weeks	Respondents who selected, "25-52 weeks", or "More than 52 weeks".		
Work interruption 1+ year	Respondents who selected, "More than 52 weeks".		
WORK IMPACT	<p>Indicator derived from question 73: <i>How has the COVID-19 pandemic affected your work (e.g., Productivity, stress, financially, children at home etc.)?</i></p> <p>Question is branched from question 70: <i>Are you currently working? Check all that apply. And respondents selected, "Yes, going into the office/workplace", "Yes, working remotely", "Yes, both working remotely and going into the workplace", yes, with reduced hours due to COVID-19 " "Yes, with increased hours due to COVID-19 " or "Yes, working doing unpaid or voluntary work outside the home".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly impaired my work <input type="checkbox"/> Somewhat impaired my work <input type="checkbox"/> No change in my work <input type="checkbox"/> Somewhat improved my work <input type="checkbox"/> Significantly improved my work <input type="checkbox"/> Prefer not to answer <input type="checkbox"/> Not applicable 	Denominator does not include "Prefer not to answer", "Not applicable" or missing responses.	
Work impaired	Respondents who selected, "Significantly impaired my work", or "Somewhat impaired my work".		



Variable	Calculation and Notes	Denominator	Source
FINANCIAL STRESS	Indicators derived from question 74: <i>Since the COVID-19 pandemic, how has it been for you or your household to meet its financial needs?</i> <input type="checkbox"/> Much more difficult <input type="checkbox"/> Somewhat more difficult <input type="checkbox"/> Neither more difficult nor easier <input type="checkbox"/> Somewhat easier <input type="checkbox"/> Much easier <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	
Financial stress - current	Respondents who selected, "much more difficult" or "somewhat more difficult".		
FOOD SECURITY	Indicators derived from question 76: <i>Please indicate whether the following statement is often true, sometimes, or never true since the COVID-19 pandemic. You worry that food will run out before you get money to buy more.</i> <input type="checkbox"/> Often true <input type="checkbox"/> Sometimes true <input type="checkbox"/> Never true <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	CCHS. ²
Concern for food security	Respondents who selected, "often true" or "sometimes true".		
FUTURE FINANCIAL NEED	Indicators derived from question 75: <i>If the current public health response to the COVID-19 pandemic does not change for the next few months, what will happen to your financial situation?</i> <input type="checkbox"/> Significantly worse <input type="checkbox"/> Somewhat worse <input type="checkbox"/> No change <input type="checkbox"/> Somewhat better <input type="checkbox"/> Significantly better <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC ₂ . ⁷
Financial stress - future	Respondents who selected, "significantly worse" or "somewhat worse".		

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Variable	Calculation and Notes	Denominator	Source
HOUSING SECURITY	Indicator derived from question 77: <i>How likely is it that you will need to move within the next 6 months because you can no longer afford your current home?</i> <input type="checkbox"/> Very likely <input type="checkbox"/> Likely <input type="checkbox"/> Neither likely nor unlikely <input type="checkbox"/> Unlikely <input type="checkbox"/> Very unlikely <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC_2.7
Housing insecure	Housing insecure: proportion of respondents who selected, "very likely" or "likely".		
FINANCIAL RELIEF SERVICES	Indicators derived from question 78: <i>Since the covid-19 pandemic, have you used any of the following services or supports? Check all that apply.</i> <input type="checkbox"/> I have not needed financial relief services <input type="checkbox"/> Mortgage deferral <input type="checkbox"/> Employment insurance <input type="checkbox"/> Credit card payment deferral or interest reduction <input type="checkbox"/> Canada emergency wage subsidy for business owners <input type="checkbox"/> Canada emergency response benefits (e.g., CRB, CRCB, CESB, CRSB) <input type="checkbox"/> ICBC rebates or payment deferral <input type="checkbox"/> Rental relief <input type="checkbox"/> Seniors' relief <input type="checkbox"/> BC recovery benefit <input type="checkbox"/> Food bank <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Used financial relief services	Respondents who selected, at least one of the choices except "I have not needed financial relief services" and "Prefer not to answer".		



Variable	Calculation and Notes	Denominator	Source
LIVING ARRANGEMENT	<p>Indicators derived from question 62: <i>Since the COVID-19 pandemic, have you experienced any changes to your living arrangements? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> My university/college residences closed <input type="checkbox"/> I could no longer afford my accommodation so had to move <input type="checkbox"/> I moved in with family <input type="checkbox"/> I moved in with friends <input type="checkbox"/> I had to return to BC from another province or overseas <input type="checkbox"/> I was evicted from my home <input type="checkbox"/> I no longer have accommodation <input type="checkbox"/> It was unsafe where I was living <input type="checkbox"/> I have relocated to another community for lifestyle reasons <input type="checkbox"/> I have relocated to another community for economic reasons <input type="checkbox"/> No <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	
Living arrangement changed	Respondents who selected, at least one choices except "No" or "Prefer not to answer"		
Living change - no longer afford	Respondents who selected, "I could no longer afford my accommodation so had to move".		
Living change - relocated economic	Respondents who selected, "I have relocated to another community for economic reasons"		
RESILIENCY			
CONNECTION WITH FAMILY	<p>Indicator derived from question 30: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Connecting with family.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1.7
Connection with family - more	Respondents who selected, "never".		



Variable	Calculation and Notes	Denominator	Source
Connection with family - less	Respondents who selected, "same".		
CONNECTION WITH FRIENDS	Indicator derived from question 30: <i>Compared to before the COVID-19 pandemic, have some of your behaviours changed? Connecting with friends</i> <input type="checkbox"/> Significantly more <input type="checkbox"/> Somewhat more <input type="checkbox"/> Same <input type="checkbox"/> Somewhat less <input type="checkbox"/> Significantly less <input type="checkbox"/> Never <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from MHMC_1. ⁷
Connection with friends - more	Respondents who selected, "never".		
Connection with friends - less	Respondents who selected, "same".		
COMMUNITY BELONGING	Indicator derived from question 38: <i>How would you describe your sense of belonging to your local community?</i> <input type="checkbox"/> Very strong <input type="checkbox"/> Somewhat strong <input type="checkbox"/> Somewhat weak <input type="checkbox"/> Very weak <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses.	MHMC_2. ⁷
Community belonging - strong	Respondents who selected, "very strong" or "somewhat strong".		
Community belonging - weak	Respondents who selected, "very weak" or "somewhat weak".		
VACCINE			
VACCINE ELIGIBILITY	Indicators derived from question 85: <i>Are you eligible to receive a COVID-19 vaccine right now in BC?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer	Denominator does not include "I don't know", "Prefer not to answer" or missing responses	Novel question developed for BC COVID-19 SPEAK R2.
Eligible to receive vaccine	Respondents who selected, "Yes".		

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Variable	Calculation and Notes	Denominator	Source
RECEIVED VACCINE	<p>Indicators derived from question 86: <i>Have you already received at least one dose of COVID-19 vaccine?</i></p> <p>Question branching from question 85: <i>Are you eligible to receive a COVID-19 vaccine right now in BC? And respondents who selected, "Yes".</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No, but I intend to <input type="checkbox"/> No and I don't intend to <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
Those eligible received 1+ dose	Respondents who selected, "Yes".		
Not received 1+ dose - but intend to	Respondents who selected, "No, but I intend to".		
VACCINE HESITANCY	<p>Indicators derived from two questions.</p> <p>Question 86: <i>Have you already received at least one dose of COVID-19 vaccine?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No, but I intend to <input type="checkbox"/> No and I don't intend to <input type="checkbox"/> Prefer not to answer <p>Question 87: <i>When it is your time to receive the COVID-19 vaccine, will you get it?</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> I don't know <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses to both question 86 and question 87.	
Vaccine hesitancy	Respondents selected, "No and I don't intend to" in Question 86, or "No" or "I don't know" in Question 87.		
COVID-19 VACCINES ARE BENEFICIAL	<p>Indicators derived from question 89: <i>When thinking about the COVID-19 vaccine, please indicate if you disagree or agree with the following. COVID-19 vaccines are beneficial.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Strongly disagree <input type="checkbox"/> Somewhat disagree <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat agree <input type="checkbox"/> Strongly agree <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from the Intention to Receive a COVID-19 Vaccine Survey. ¹²
Vaccines are beneficial - agree	Respondents who selected, "somewhat agree" or "strongly agree".		



Variable	Calculation and Notes	Denominator	Source
COVID-19 VACCINES ARE SAFE	Indicators derived from question 89: <i>When thinking about the COVID-19 vaccine, please indicate if you disagree or agree with the following. COVID-19 vaccines are safe.</i> <input type="checkbox"/> Strongly disagree <input type="checkbox"/> Somewhat disagree <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat agree <input type="checkbox"/> Strongly agree <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from the Intention to Receive a COVID-19 Vaccine Survey. ¹²
Vaccines are safe - agree	Respondents who selected, "somewhat agree" or "strongly agree".		
COVID-19 VACCINES WILL HELP ME GET BACK TO NORMAL LIFE-AGREE	Indicators derived from question 89: <i>When thinking about the COVID-19 vaccine, please indicate if you disagree or agree with the following. COVID-19 vaccines will help me get back to normal life.</i> <input type="checkbox"/> Strongly disagree <input type="checkbox"/> Somewhat disagree <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat agree <input type="checkbox"/> Strongly agree <input type="checkbox"/> Prefer not to answer	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from the Intention to Receive a COVID-19 Vaccine Survey. ¹²
Vaccines get back to normal life - agree	Respondents who selected, "somewhat agree" or "strongly agree".		
ADAPTION			
GOING TO THE DOCTOR OR HOSPITAL CONCERN	Indicators derived from question 91: <i>How concerned are you about the health risks of resuming the following activities as the COVID-19 safety measures are relaxed? Going to the doctor or hospital.</i> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Resuming economic and social activities during COVID-19. ¹³
Concern resuming - going to doctor	Respondents who selected, "somewhat concerned" or "very concerned".		

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RETURNING IN PERSON TO THE WORKPLACE - CONCERN	<p>Indicators derived from question 91: <i>How concerned are you about the health risks of resuming the following activities as the COVID-19 safety measures are relaxed? Returning in person to the workplace.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Resuming economic and social activities during COVID-19. ¹³
Concern resuming - returning workplace	Respondents who selected, "somewhat concerned" or "very concerned".		
RETURNING IN PERSON TO EDUCATIONAL INSTITUTIONS - CONCERNED	<p>Indicators derived from question 91: <i>How concerned are you about the health risks of resuming the following activities as the COVID-19 safety measures are relaxed? Returning in person to educational institutions.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Not at all concerned <input type="checkbox"/> Somewhat concerned <input type="checkbox"/> Very concerned <input type="checkbox"/> Not applicable <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Not applicable", "Prefer not to answer" or missing responses.	Statistics Canada. Resuming economic and social activities during COVID-19. ¹³
Concern resuming - returning school	Respondents who selected, "somewhat concerned" or "very concerned".		



Variable	Calculation and Notes	Denominator	Source
SEE CHANGE	<p>Indicator derived from question 92: <i>What are the most important areas within our society you would like to see changed? Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Reduce income inequality <input type="checkbox"/> Improve access to health care (e.g., Through expanded services and telehealth) <input type="checkbox"/> Increase funding for science <input type="checkbox"/> Flexibility in how we work <input type="checkbox"/> Improve infrastructure (e.g., Internet to rural and remote communities, public transit) <input type="checkbox"/> Increase economic growth <input type="checkbox"/> Expand our provincial and national climate change mitigation goals (e.g., Through less commute driving, traveling, less waste) <input type="checkbox"/> Expand urban outdoor spaces (e.g., More outdoor dining space, closed streets for neighborhood gatherings) <input type="checkbox"/> Create more parks/outdoor recreation facilities <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Adapted from RAND COVID-19 and the experiences of population at greater risk – wave1/2. ^{14,15}
See change - income inequality	Respondents who selected, "reduce income inequality".		
See change - access to healthcare	Respondents who selected, "improve access to health care".		
See change - expand outdoor spaces	Respondents who selected, "expand urban outdoor spaces".		
See change - create more parks	Respondents who selected, "create more parks/outdoor recreation facilities".		



Variable	Calculation and Notes	Denominator	Source
SEE CONTINUED CHANGES	<p>Indicator derived from question 93: <i>What are some of the changes that have come from the COVID-19 pandemic that you would like to see continued. Check all that apply.</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> More flexible working options such as working from home <input type="checkbox"/> Attending health care appointments virtually <input type="checkbox"/> Increased connection with family and friends online <input type="checkbox"/> Increased access to online education resources and programs <input type="checkbox"/> Increased access to online interactive extracurricular activities <input type="checkbox"/> Increased ability to schedule online (e.g., Community centre, pool, skiing, dining out) <input type="checkbox"/> Trading parking for outdoor seating/space for patios <input type="checkbox"/> Street space used for walking and cycling <input type="checkbox"/> Less traffic on roads <input type="checkbox"/> Less social pressure to be always doing something or going out <input type="checkbox"/> Other, please specify: _____ <input type="checkbox"/> Prefer not to answer 	Denominator does not include "Prefer not to answer" or missing responses.	Novel question developed for BC COVID-19 SPEAK R2.
See continued - more flexible work	Respondents who selected, "more flexible working options such as working from home".		
See continued - virtual healthcare	Respondents who selected, "attending health care appointments virtually".		
See continued - access online education	Respondents who selected, "increased access to online education resources and programs".		
See continued - trade parking outdoor	Respondents who selected, "trading parking for outdoor seating/space for patios".		
See continued - less traffic	Respondents who selected, "street space used for walking and cycling".		

References

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