Editorial

Expanding the evidence for population mental health in Canada: a call to action for evidence-informed policy and practice

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Now, well into our second year of the global COVID-19 pandemic, concerns for population mental health are mounting. These concerns are well justified given the increases in established risk factors known to contribute to mental ill-health, including economic hardship, social deprivation and cumulative losses of fundamental health and social services. The distribution and impact of these risk factors will likely be unequal, disproportionately affecting individuals living in adverse socioeconomic circumstances and marginalized communities, as well as those with pre-existing physical, mental health and neurodevelopmental conditions.

While evidence on the mental health impacts of the pandemic is accumulating rapidly, most studies to date rely on non-probability-based sampling methods, cross-sectional study designs, limited assessment of mental health and underrepresentation of marginalized populations and communities—the very populations disproportionately impacted by the pandemic.\(^1,3\) These methodological weaknesses limit generalizability, statistical inferences and attributions of pandemic-related impacts on population mental health, compromising opportunities for informing mental health policy and practice.

This special issue of Health Promotion and Chronic Disease Prevention in Canada: Research, policy and practice presents results from the 2020 Survey on COVID-19 and Mental Health (SCMH),\(^3\) a population-based, cross-sectional survey explicitly designed to address several of the methodological weaknesses of existing evidence. The 2020 SCMH applied robust, probability-based sampling methods to ascertain a representative sample of adults aged 18 years or older living in Canada’s 10 provinces and three territorial capital cities. The sample includes 14,689 respondents (53.3% response rate) who completed an online or telephone survey during the second wave of the COVID-19 pandemic, between September and December 2020. Select survey content and measurement was similar to the annual component of the Canadian Community Health Survey (CCHS),\(^3\) a biennial, cross-sectional health survey of the Canadian population, permitting comparisons of mental health before and during the COVID-19 pandemic.

The findings generally converge on several important themes consistent with population-based surveys in the United Kingdom\(^1,2\) and the United States\(^1,3\) and systematic reviews of emerging evidence.\(^4-18\) First, levels of distress, measured using well-validated symptom-based screening instruments of depression and anxiety, have increased during the pandemic relative to before.\(^8,11,17\) These increases are generally more pronounced during lockdowns compared to when pandemic restrictions ease.\(^9,12,16\)

Second, increases in levels of distress vary across population subgroups and are more pronounced among younger adults, females and immigrant populations.\(^9,11,13-15\) Changes in mental health as a function of socioeconomic circumstances are nuanced: some indicators suggest a positive association between educational attainment and greater increases in levels of distress and alcohol use during the pandemic, relative to before;\(^6,7,10\) while other findings indicate no difference.\(^8\)

Third, the prevalence of self-reported suicidal ideation appears not to have increased during the pandemic.\(^9\) These findings are consistent with recent analyses of data from 21 countries documenting no significant increase in risk of suicide in the early months of the pandemic (April–July 2020) compared to expected levels based on data from the pre-pandemic period.\(^19\)

Fourth, a sizable portion of the Canadian population have reported increases in cannabis (5%) and alcohol use (16%) since the start of the pandemic and use of either cannabis or alcohol is strongly associated with co-occurring levels of distress.\(^10\)

Finally, frontline workers and individuals reporting pandemic-related economic, health and interpersonal stressors are more likely

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to report high levels of distress and suicidal ideation during the pandemic.\textsuperscript{5,9}

Taken together, these findings suggest a likely increase in demand for mental health care in the population and a need for responses targeting select subgroups that have been disproportionately impacted. To bridge the gap between levels of need in the population and mental health service availability, innovative models of service delivery designed to increase access and efficiency, such as stepped care and collaborative care models, may show promise.\textsuperscript{20-23} An integral component of these efforts must include outcome monitoring to determine the effectiveness of mental health care and establish iterative cycles of continuous improvement and innovation.\textsuperscript{24}

While these findings provide initial insights into potential pandemic-related impacts on population mental health, important gaps remain. First, and foremost, is the complete absence of comparable, nationally representative data on the mental health of Canadian children and young people—a longstanding gap that predates the pandemic. This is a particular concern now, given the extraordinary challenges and disruptions to fundamental aspects of their daily lives that children and young people have endured throughout the pandemic.

The mental health–related impacts of these disruptions remain largely unknown, leaving decision makers and service providers with little evidence to draw upon when deciding about allocating vital resources and establishing intervention and mitigation strategies. Without these data, policy and practice decisions cannot be adequately informed and widening mental health disparities will likely ensue.

Second, the sole reliance on cross-sectional studies, with varying sampling and measurement methodologies, compromises the validity of temporal comparisons and places strict limits on causal attributions linked specifically to pandemic-related impacts. Longitudinal studies, with comparable pre-pandemic baseline data and carefully timed follow-up assessments, are required to identify subgroups most at risk and determine temporal ordering of associations that can inform causal attributions and optimize the effectiveness of prevention and intervention strategies.\textsuperscript{1,3,25}

Moreover, our current evidence of pandemic-related impacts on population mental health is restricted to the first and second waves of the pandemic. Repeated follow-up assessments are needed to monitor longer-term impacts given well-documented health consequences of previous economic recessions and disasters—particularly increasing rates of mental ill-health, including suicide and substance use as well as family violence and psychiatric hospitalizations.\textsuperscript{26-28}

Third, systematic underrepresentation of marginalized, racialized and Indigenous populations creates stark data gaps that must be addressed if we are truly committed to reducing health disparities in Canada.

Fourth, mental health measurement must go beyond the use of symptom-based screening scales to include indicators of severity, comorbidity and functional impairments.\textsuperscript{24} Taking a more comprehensive approach to measurement will aid in determining who is most in need of mental health interventions.

The pandemic has shone a light on our ill-preparedness for monitoring population mental health, particularly among the most vulnerable. Sustained investments in methodologically rigorous, longitudinal, population-based surveys can serve as a common platform for achieving a number of complementary goals of public health surveillance, mental health science, policy and practice. In times of crisis, these surveys serve an essential role in generating timely evidence about population mental health needs, strategies for mitigating risks and opportunities for evaluating intervention efforts.\textsuperscript{29}

Although costly to implement, the value proposition of longitudinal, population-based surveys is immense, by way of generating accurate and reliable evidence—necessary prerequisites for informing mental health policy and practice.\textsuperscript{1,2} The potential of such investments is epitomized by the COVID-19 Longitudinal Health and Well-being National Core Study in the United Kingdom, which was designed to link over 20 longitudinal, population-based cohort studies with national electronic health, education, occupation and geographical records to determine the impacts of the COVID-19 pandemic in the immediate, medium and longer term.\textsuperscript{30}

With mental disorders now among the leading causes of disability burden globally, there is no doubt we must increase investments in mental health science to reduce the burden of suffering.\textsuperscript{31} Policy makers and practitioners need timely evidence to inform the range of effective mental health programming required across the population and to implement layered approaches to “proportionate universalism” addressing longstanding equity goals while making effective use of public resources.\textsuperscript{32} A critical gap that must be addressed immediately is the lack of nationally representative data on the mental health needs of Canadian children and young people. Recent investments in a longitudinal follow-up of the Canadian Health Survey of Children and Youth (CHSCY)\textsuperscript{33} represent a promising starting point. The CHSCY is a nationally representative sample of children and youth aged 1 to 17 years that uses data collected by Statistics Canada immediately prior to the pandemic.

The COVID-19 pandemic represents a call to action for sustained investments in population-based, longitudinal surveys of mental health. Without such investments, we have no metric for monitoring our progress and collective impact in reducing the burden of mental ill-health in our population.

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Conflicts of interest

The author declares that she has no conflicts of interest.

Statement

The content and views expressed in this editorial are those of the author and do not necessarily reflect those of the Government of Canada.
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