Unemployment, suicide and COVID-19: using the evidence to plan for prevention

COVID-19-related unemployment may significantly increase suicide rates; implementation of appropriate preventive measures is critical

In response to the coronavirus disease 2019 (COVID-19) pandemic, the imposition of social distancing policies and related labour market impacts have resulted in extensive job losses. Globally, the International Monetary Fund has predicted the steepest economic downturn since the Great Depression. In May 2020, 2.3 million Australians (one in five employed people) were either unemployed or had work hours reduced for economic reasons, resulting in the steepest rise in rates of unemployment on record — a change from 5.2% in March to 7.1% — with Treasury predicting a rate of 8% by September 2020.

Unemployment alone is associated with a two- to threefold increased relative risk of death by suicide compared with being employed, and sudden spikes in unemployment are associated with corresponding surges in the population rates of suicide. The global financial crisis, which led to the deepest recession since the 1930s and the loss of 30 million jobs worldwide, is estimated to have resulted in at least 10 000 additional economic suicides between 2008 and 2010 in Europe and North America. Projections using historical data suggest suicide rates may increase by 3.3–8.4% over the 2020–2021 period in the United States and up to 27% in Canada.

Of course, all this is speculative and although the links between economic recessions and suicide are well documented, what is less clear is how the relationship plays out in the context of larger sociocultural and health events such as COVID-19. The 1918–1920 influenza pandemic caused around 39 million deaths worldwide and resulted in governments implementing quarantine, public hygiene and social distancing policies, but evidence regarding its impact on world economies and suicide is limited. The severe acute respiratory syndrome (SARS) epidemic of 2003 came at the height of the Asian financial crisis, so disentangling the two is difficult. However, during this period, suicide rates in more than 10 000 additional economic suicides between 2008 and 2010 in Europe and North America. Projections using historical data suggest suicide rates may increase by 3.3–8.4% over the 2020–2021 period in the United States and up to 27% in Canada.

As the situation continues to change daily, an accurate estimate of likely unemployment resulting from the COVID-19 pandemic is difficult. Even current estimates under-represent the impact, as individuals who are still employed but at significantly reduced hours are discounted. This is of particular concern when considering the global financial crisis, which saw Australian unemployment take a comparatively minor increase from 4.0% to 5.8% and coincided with an increase in suicide rates of 22% and 12% for unemployed men and women respectively. As the present crisis may potentially double the current unemployment rate, one can extrapolate to alarming conclusions, with some (albeit unpublished) modelling reflecting this projection.

Despite this grim speculative forecast, this is not the whole story. There are marked differences between the present crisis and those that have come before. For instance, the current recession is supply (rather than demand) driven, and the prospect of recovery, although slow, is conceivable and may bolster optimism. Although major industries will be severely affected, there is potential for increased local spending as the borders remain closed. In addition, some hope may be found in the resilience shown by civilians in times of global unrest — for instance, the often cited “Blitz spirit” — and the possibility that the shared experience of the pandemic might bring a sense of social cohesion, which may prove life-preserving.

Notwithstanding considerable evidence of the psychosocial impacts of mass unemployment, we argue that the impact of the COVID-19 pandemic on suicide rates is far from predetermined, and that early and sustained action can prevent many suicides and other adverse mental health outcomes. During prior recessions, Austria, Sweden and Finland have each displayed resilience in the face of substantially increased unemployment. In fact, despite sizeable rises in unemployment rates in Sweden and Finland in the early 1990s, the rate of suicide decreased.

We suggest that, based on the available literature, there are several factors that may moderate the impacts of widespread unemployment. These include both early prevention measures and crisis care: sustained welfare spending; labour market programs and protections; and adequate funding of, and access to, mental health services, including prevention programs and engaging new technologies in the reporting and care response.

Firstly, countries with sustained welfare spending during recessions have less marked increases in
suicide rates than those that cut spending on welfare and job search initiatives for the unemployed. Robust social policies to ensure adequate welfare benefits for people with low or sudden loss of income are thought to be central to offsetting the impact of the recession on suicide. Where governments expand public welfare spending in the wake of disasters, there is good evidence for a reduction in suicide. The federal government’s introduction of the JobKeeper and JobSeeker payment schemes are likely to mitigate suicide risk while simultaneously stimulating the economy and require long term investment.

Secondly, countries with active labour market programs, which assist the unemployed to find work or retrain, and those with labour market protections have lower rates of unemployment-related suicide than countries that do not. It has been estimated that, during European recession periods in the past 50 years, each US$100 per capita of investment in active labour market programs reduced the association of unemployment with suicide by 0.4%.

Thirdly, it is critical that investment is made immediately in mental health, not just in terms of treatment but also in evidence-based prevention programs. Different approaches are required to reduce attempts, and deaths, involving both public health and clinical services. In terms of direct suicide prevention interventions, there is increasing evidence for multilevel systems approaches — using components ranging from individual-level (eg, assertive aftercare, psychosocial interventions) to public health interventions (eg, general practitioner and gatekeeper training), in addition to indirect interventions (targeting risk factors). Critical to effectiveness is the degree of penetration of these services, based on early population modelling, and the types of factors likely to differentially affect communities, including indigenous communities. Improving quality, availability and access to programs and crisis support services is vital to preventing suicide, with the current crisis both creating new challenges and compounding pre-existing systemic issues.

While the mental health sector is rapidly mobilising to improve access and the government has been quick to revise the Medicare rebate in this regard, it is vital that resource allocation and innovation continues beyond the span of the physical distancing measures. While increasing telehealth services is critical, the health professionals available to support them are unlikely to increase to meet need, and blended services that include automated digital components may be a more efficient solution. The additional $48 million in mental health funding announced in May 2020 is a positive step; however, further funding for evidence-based prevention initiatives is more important than ever to alleviate demand on treatment services. In terms of suicide prevention, digital interventions may hold some utility for both at-risk and actively suicidal individuals, especially where other health services are lacking.

Of course, economies undergoing recessions by their very nature have significant financial constraints, and governments will inevitably have to review spending across all services. It is critical that these limited funds are directed toward the most viable and cost-effective services. Importantly, not all groups are affected equally, and subgroup consideration is vital. In crisis periods, it can be the most disadvantaged groups that are disproportionately affected, and marginalised and at-risk populations require specific attention. It is also important to consider that many of the adverse consequences of job loss, including house repossession, mounting debt, mental health problems and relationship strain, are delayed and, therefore, long term investment is required.

Finally, engaging new technologies in the fight against suicide may present a valuable new tool. This includes information technology-enabled coordinated care and the dynamic reporting of suicide risk using immediate and real-time data so that developing hotspots can be identified and shut down and local services can be mobilised. Although this field of study is in its infancy, the potential for concepts such as integrated, geospatial mapping, hotspot surveillance, and real-time reporting could lead to significant advancements in predicting and intervening in suicidal behaviour.

Ultimately, the economic fallout resulting from the COVID-19 pandemic represents a threat, requiring urgent mobilisation and planning. There are certain steps required to moderate the mental health impacts of widespread unemployment, including sustained welfare spending; labour market programs; adequate investment in, and access to, mental health treatment and prevention services; and the dynamic reporting of suicide risk to aid regional responses and means restriction. The current economic crisis presents an opportunity to implement policies that would not only mitigate the impact of the recession on suicide but may incidentally reduce the national health and economic burden presented by emotional distress in any economic cycle. In doing so, there may be the ability to emerge from the current crisis stronger and more resilient as a nation.

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