

Implementation and Evaluation of National Suicide Prevention Strategies: Progress and Challenges



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Disclosure

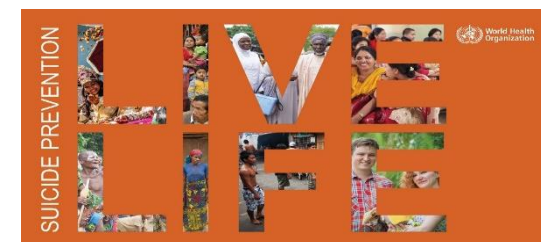
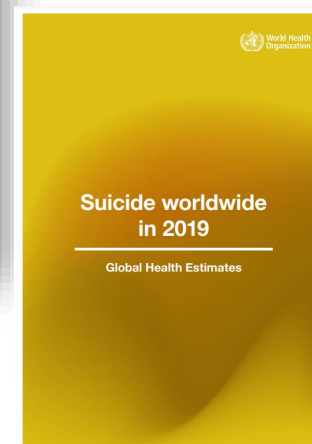
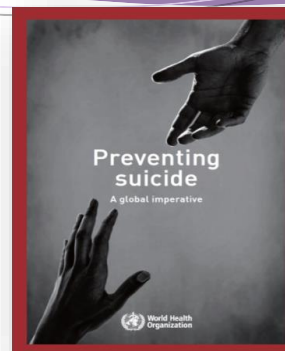
I have no actual or potential conflict of interest in relation to this presentation.

Learning objectives

To enhance the knowledge and understanding of the development, implementation and evaluation of national suicide prevention strategies

Context

- WHO Global Report on **Preventing Suicide** (WHO, 2014)
- **Suicide worldwide in 2019: global health estimates.** World Health Organization. (WHO, 2021)
- **UN Sustainable Development Goals:** SDGs 2030, e.g. Target 3.4: *By 2030, reduce by one-third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.*
- **LIVE LIFE:** An implementation guide for suicide prevention in countries (WHO, 2021)

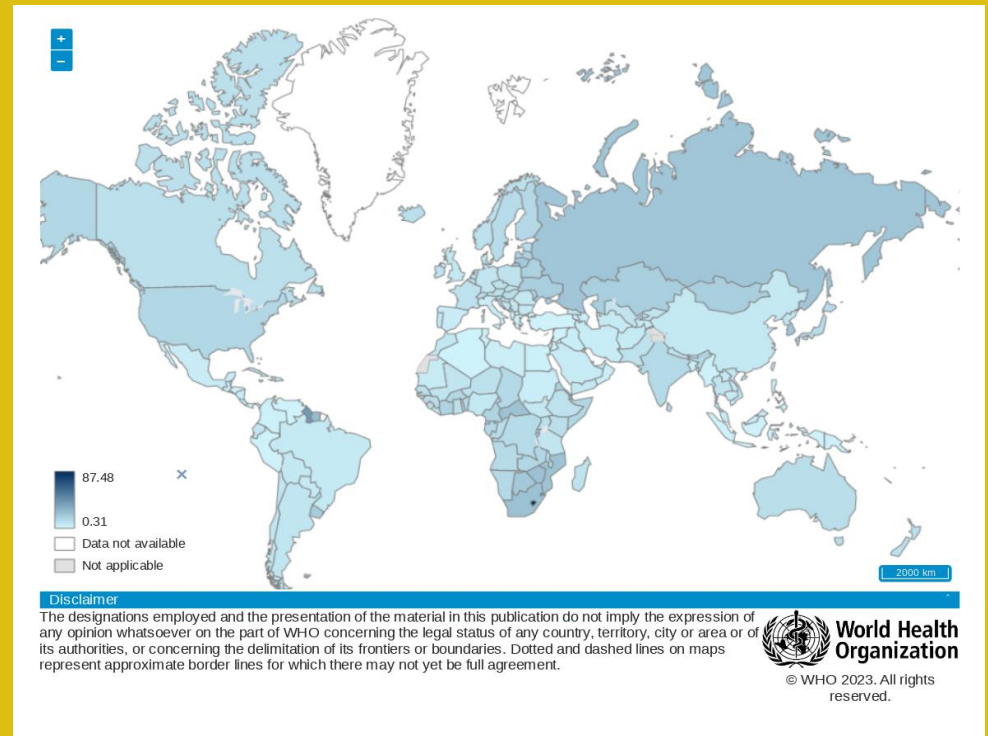


A Closer Look



**SUICIDE WORLDWIDE IN 2019:
GLOBAL HEALTH ESTIMATES**
World Health Organization.
(WHO, 2021)

SUICIDE RATES (PER 100 000 POPULATION) AGE-STANDARDIZED YEAR: 2019 BOTH SEXES



Suicide worldwide in 2019: global health estimates. World Health Organization. (WHO, 2021)

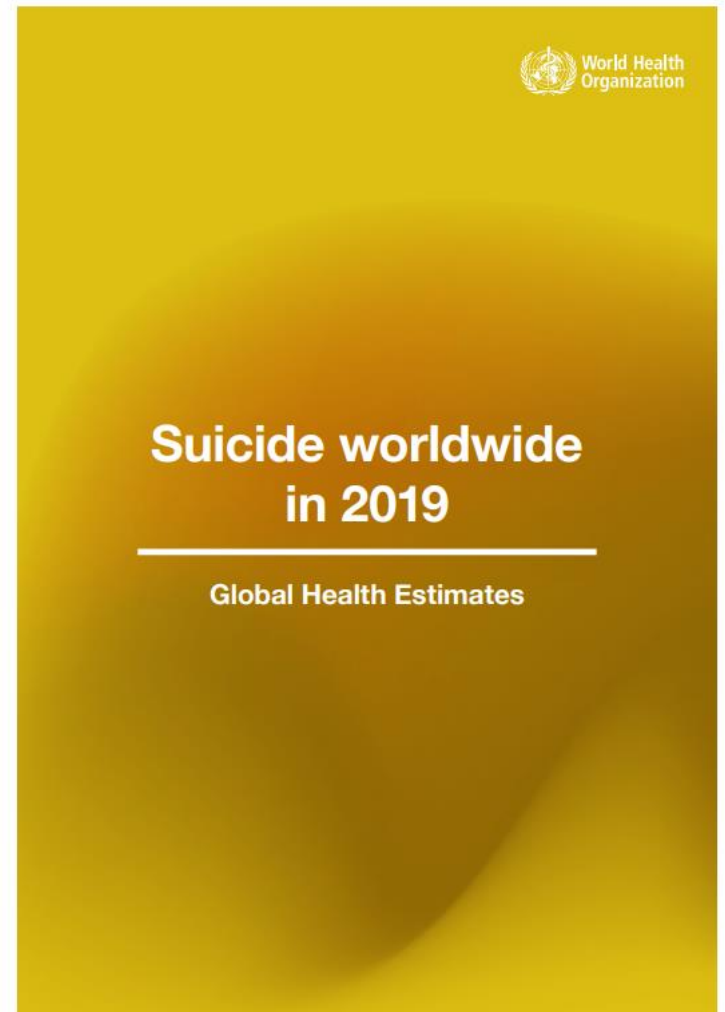
- The global age-standardized suicide rate is somewhat in decline, but this is not observed in all countries.
- Should the decline continue **at its current rate, global SDG and WHO targets to reduce suicide mortality by one third by 2030 will not be met.**
- Lives will be lost, while suicides are preventable.

LIMITING
ACCESS TO
MEANS OF
SUICIDE

EARLY
IDENTIFICATION,
ASSESSMENT,
MANAGEMENT
AND FOLLOW-UP

FOSTERING
SOCIO-
EMOTIONAL
LIFE SKILLS IN
ADOLESCENTS

INTERACTING
WITH THE
MEDIA FOR
RESPONSIBLE
REPORTING
OF SUICIDE



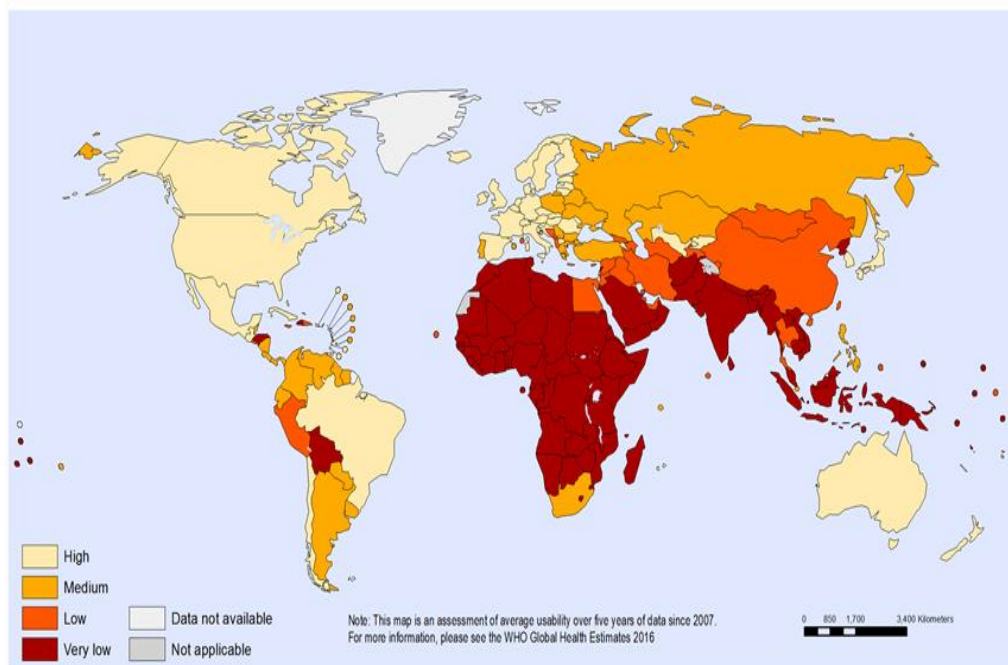
Suicide surveillance - Data Quality

Preventing suicide
A manual for case
registration of suicide
and attempted suicide



- ❖ The quality and availability of data on suicide and suicide attempts is poor globally
- ❖ ONLY 20 countries are known to have gathered national survey data and 3 have national hospital-based suicide attempt data
- ❖ ONLY 60 countries have good-quality vital registration data on suicide mortality
- ❖ Improvement of surveillance and dissemination of data is necessary to inform action

Quality of vital registration data on causes of death, including suicides



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization



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Suicide numbers during the first 9-15 months of the COVID-19 pandemic compared with pre-existing trends: An interrupted time series analysis in 33 countries

Summary

Background Predicted increases in suicide were not generally observed in the early months of the COVID-19 pandemic. However, the picture may be changing and patterns might vary across demographic groups. We aimed to provide a timely, granular picture of the pandemic's impact on suicides globally.

Methods We identified suicide data from official public-sector sources for countries/areas-within-countries, searching websites and academic literature and contacting data custodians and authors as necessary. We sent our first data request on 22nd June 2021 and stopped collecting data on 31st October 2021. We used interrupted time series (ITS) analyses to model the association between the pandemic's emergence and total suicides and suicides by sex-, age- and sex-by-age in each country/area-within-country. We compared the observed and expected numbers of suicides in the pandemic's first nine and first 10-15 months and used meta-regression to explore sources of variation.

Findings We sourced data from 33 countries (24 high-income, six upper-middle-income, three lower-middle-income; 25 with whole-country data, 12 with data for area(s)-within-the-country, four with both). There was no evidence of greater-than-expected numbers of suicides in the majority of countries/areas-within-countries in any analysis; more commonly, there was evidence of lower-than-expected numbers. Certain sex, age and sex-by-age groups stood out as potentially concerning, but these were not consistent across countries/areas-within-countries. In the meta-regression, different patterns were not explained by countries' COVID-19 mortality rate, stringency of public health response, economic support level, or presence of a national suicide prevention strategy. Nor were they explained by countries' income level, although the meta-regression only included data from high-income and upper-middle-income countries, and there were suggestions from the ITS analyses that lower-middle-income countries fared less well.

Interpretation Although there are some countries/areas-within-countries where overall suicide numbers and numbers for certain sex- and age-based groups are greater-than-expected, these countries/areas-within-countries are in the minority. Any upward movement in suicide numbers in any place or group is concerning, and we need to remain alert to and respond to changes as the pandemic and its mental health and economic consequences continue.

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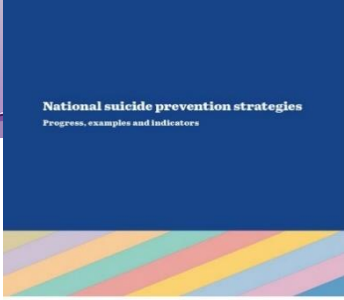
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Challenges in developing and implementing national suicide prevention programmes

- Ineffective planning, co-ordination, collaboration, lack of enforcement of guidelines and insufficient resources
- Lack of independent and systematic evaluations of national suicide prevention programmes
- Address real-time developments, in particular, mental health needs and suicide prevention among refugees and migrants from LMICs
- Despite many challenges, encouraging developments in relation to initiating or completing national suicide prevention programmes, e.g: Lithuania, Guyana, Namibia, Afghanistan





Core components of national suicide prevention strategies

1) Surveillance	7) Crisis Intervention
2) Means Restriction	8) Postvention
3) Media	9) Awareness
4) Access to Services	10) Stigma Reduction
5) Training and Education	11) Oversight and Coordination
6) Treatment	



LIVE

cross-cutting foundations

- Situation analysis
- Multisectoral collaboration
- Awareness raising
- Capacity building
- Financing
- Surveillance, monitoring and evaluation

Key effective evidence-based interventions

L

Limit access to means of suicide



I

Interact with the media on responsible reporting



F

Foster life skills of young people



E

Early identify everyone affected



Strategic actions and targeted suicide prevention activities that may reinforce the development of a national strategy



Strategic Global Developments in Suicide Prevention

In recent years, the World Health Organization (WHO) Global Mental Health Action Plan, 2013-2020, has been a major step forward in pushing the agenda of suicide prevention globally (WHO, 2013; Saxena, Flishka, & Chhabildas, 2015). This plan was adopted by health ministers in all 194 WHO member states to formally recognize the importance of mental health issues and a worldwide commitment. Among WHO member states are 25 countries where suicide is currently still criminalized and an additional 20 countries where according to Maria Lee suicide attempts may be punished with jail sentences (Mishara & Wisniewski, 2014). The action plan covers specified actions to improve mental health and to contribute to the attainment of a set of agreed global targets, in particular to aim for (a) a 20% increase in service coverage for severe mental disorders, and (b) a 10% reduction of the suicide rate in countries by 2020.

The subsequent publication of the WHO report *Preventing Suicide: A Global Imperative*, in 2014 (WHO, 2014), was strategically a major and timely step to increase the commitment of national governments and health ministers to more formal agreements to act in relation to suicide prevention. Many members of the International Association for Suicide Prevention (IASP) representing all regions in the world were involved in preparing this report. IASP in collaboration with WHO's Department of Mental Health and Substance Abuse has initiated workshops inviting country representatives to discuss and share experiences in the development and implementation of national suicide prevention programs, during IASP world congresses

Are We Making Progress in Suicide Prevention at Global Level?

We are indeed! Since the publication of the WHO Global Mental Health Action Plan and the WHO report on preventing suicide, there are several indications that the development and the implementation of national suicide prevention programs have accelerated, in particular in countries and regions where so far little or no suicide prevention initiatives were present, such as Cyprus (Ministry of Public Health, 2014), Suriname (Ministerie van Volksgezond-

global mental health



INTERVENTIONS

REVIEW

Overview evidence on interventions for population suicide with an eye to identifying best-supported strategies for LMICs

A. Fleischmann¹, E. Arensman², A. Berman³, V. Carli⁴, D. De Leo⁵, G. Hadziacki⁶, S. Howland⁷, L. Vijayakumar⁸, D. Wasserman⁹ and S. Saxena¹

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Global Mental Health (2016), 3, e5, page 1 of 8. doi:10.1017/gmh.2016.27

Globaly, over 800 000 people died by suicide in 2012 and there are indications that for each adult who died of suicide there were likely to be many more attempting suicide. There are many millions of people every year who are affected by suicide and suicide attempts, taking into consideration the family members, friends, work colleagues and communities, who are bereaved by suicide. In the WHO Mental Health Action Plan (2013–2020), Member States committed themselves to work towards the global target of reducing the suicide rate in countries by 10% by 2020. Hence, the first-ever WHO report on suicide prevention, *Preventing suicide: a global imperative*, published in September 2014, is a timely call to take action using effective evidence-based interventions. Their relevance for low- and middle-income countries is discussed in this paper, highlighting restricting access to means, responsible media reporting, introducing mental health and alcohol policies, early identification and treatment, training of health workers, and follow-up care and community support following a suicide attempt.

Received 28 November 2014; Revised 22 November 2015; Accepted 3 December 2015

Key words: Evidence-based, intervention, interventions, low- and middle-income countries, suicide, suicide attempt.

Background

Globaly, over 800 000 people died by suicide in 2012, according to World Health Organization (WHO) Global Health Estimates (WHO, 2014, p. 3). This corresponds to a global age-standardized suicide rate of 11.4 per 100 000 population; 15.0 and 8.0 per 100 000

indications that for each adult who died of suicide there were likely to be many more attempting suicide (De Leo et al., 2005; WHO, 2014). Taking into consideration the family members, friends, work colleagues and communities, who are bereaved by suicide (Pittman et al., 2014), there are many millions of people

In countries where a fully developed, comprehensive national strategy is not yet in place, this should not delay targeted suicide prevention programmes, while these can contribute to a national response.

Regardless of the current level of implementation and context, countries can commence with strategic actions for suicide prevention (bottom up), e.g:

- Engaging with relevant stakeholders
- Training of health and community based professionals, and changing attitudes.
- Reducing access to means
- Building surveillance
- Raising awareness
- Engaging with the media

A community driven, regional action plan, can draw national interest and provide a basis for wider implementation – Bottom up and Top Down approach.

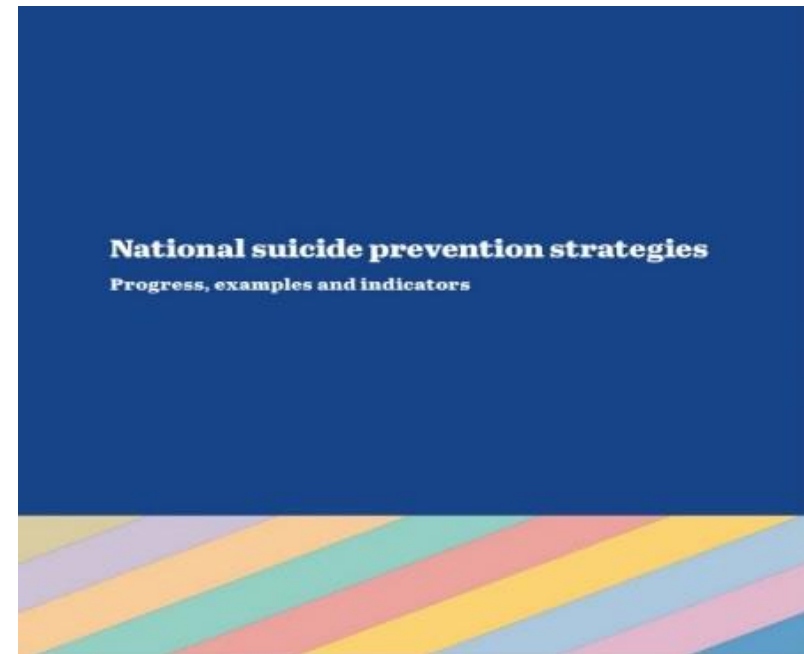
Country examples of 1st or 2nd national suicide prevention strategy

First strategy:

- Bhutan
- Guyana
- Iran
- Republic of Korea
- Switzerland
- Namibia (2nd national strategy in progress)
- Uruguay

Second strategy:

- England
- Ireland
- Sweden
- Japan
- USA





Ella Arensman
Diego De Leo
Jane Pirkis
(Editors)

Suicide and Suicide Prevention From a Global Perspective

IASP
International Association
for Suicide Prevention

hp hogrefe

NSRF National Suicide
Research Foundation

 **UCC**
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

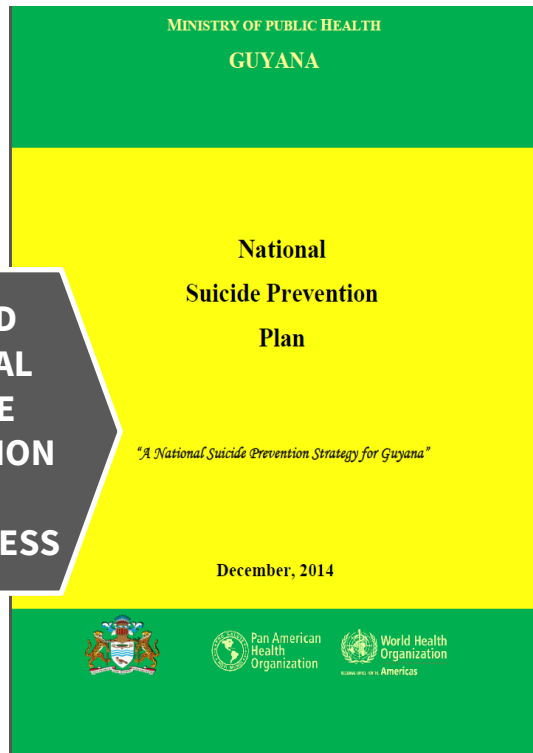
 **IASP**

- This monograph includes summary accounts of suicide and suicide prevention across WHO regions, including Europe, Southeast Asia, Americas, Africa, Eastern Mediterranean, and Western Pacific.
- The monograph addresses the extent of suicide and self-harm around the globe divided into the six regions, differentiating low- and middle-income countries from high-income countries.
- **Existing interventions and suicide prevention programmes are reported and discussed within each region.**

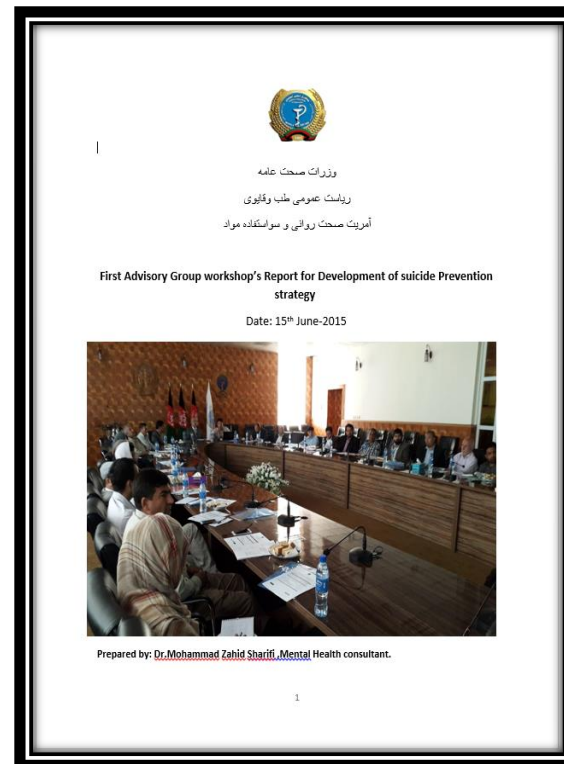
Countries with recently completed/initiated national suicide prevention programmes despite many challenges

EXAMPLES

Guyana



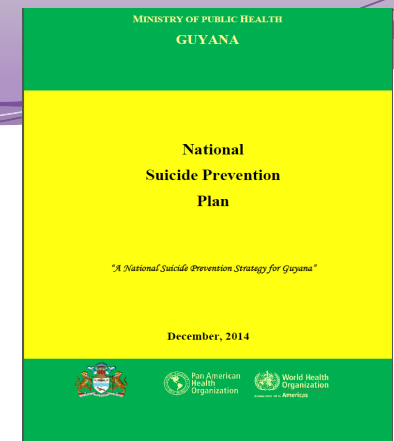
Afghanistan



Example Guyana



Ministry of Health
Guyana



- National Suicide Prevention Plan (2015-2020)
- High rate of suicide: 44.2 suicides per 100,000 people in 2017 (WHO)
- Long-term criminalisation of suicide and attempted suicide
- Universal interventions, targeting the whole of a population to reduce access to means and reduce inappropriate media coverage of suicide.
- The Strategy relies on cross-cutting values and principles:
 - 1) Universal health coverage
 - 2) Human rights
 - 3) Evidence-based practice and interventions for treatment and prevention
 - 4) Life course approach

Example Afghanistan



- National Suicide Prevention Strategy in Development
- In 2015, the suicide rate in Afghanistan was 5.7 per 100,000 people (WHO)
- However, the accuracy of the suicide data is limited
- The Afghan Ministry of Public Health (MoPH) reported 4,466 self-poisoning and 4,136 self-immolation cases in 2015 across Afghanistan, where suicides exceed deaths by homicide and war combined annually
- The strategy is based on the following key values, respect for diversities; sensitiveness to socio-culture-religious and gender issues; promotion of the society dignity and respect for the human rights of people.

Evaluation of national suicide prevention programmes from an international perspective

- Evaluation of implementation in 6 countries; reports from 4 countries: Finland, Scotland, Northern Ireland and Republic of Ireland
- Evidence of impact of national suicide prevention programmes: inconsistent
- Challenges related to evaluating complex interventions, incl. multiple interacting components, change over time, quality of implementation, synergistic effects

Example: Trends in US Suicide Deaths among young people, 1999 to 2017, following Suicide Prevention Legislation

US National Suicide Prevention Strategy 2001 and legislation on youth suicide prevention in 2004, during declining youth suicide rate.

No impact of these strategies on reversing the increasing trend that started in 2007.

The revision of the National Strategy for Suicide Prevention in 2012 was followed, in 2015, by a further increase in male youth suicide rates.

Mishara & Stijelja, 2020

RESEARCH LETTER

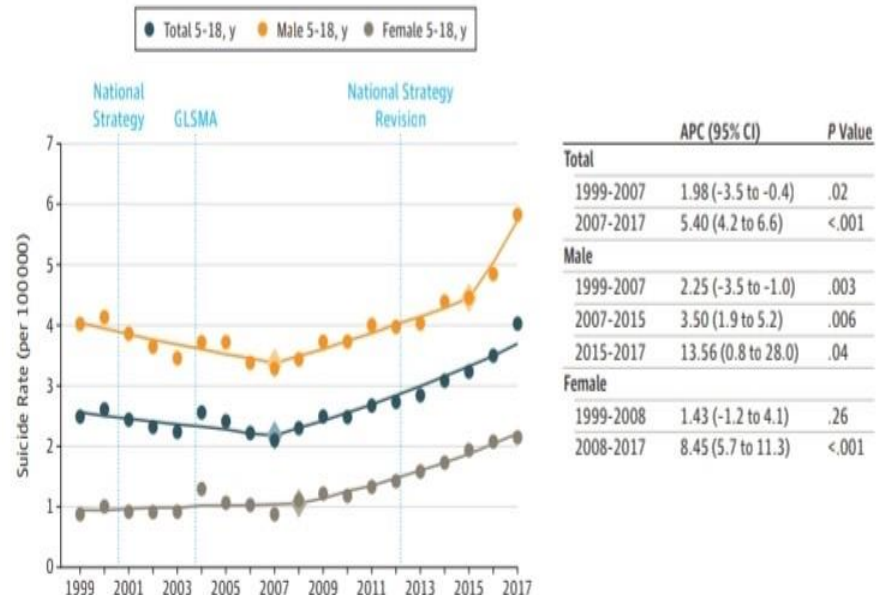
Trends in US Suicide Deaths, 1999 to 2017, in the Context of Suicide Prevention Legislation

Burstein et al¹ have reported that visits to US hospital emergency departments (EDs) for suicide attempts (SA) or suicide ideation (SI) doubled among youth aged 5 to 18 years between 2007 and 2015. The question remains whether this trend is paralleled by an increase in suicides. The United States has greatly invested in youth suicide prevention during this period. If only ED visits increased but not suicide mortality, this

approval or use informed consent procedures, and thus this study did not obtain such approval or consent. We used SPSS version 26.0 (IBM) for analyses, with 2-sided *P* values less than .05 considered significant. Data analysis occurred from April 2019 to May 2019.

Results | From 1999 to 2007, suicide rates for individuals aged 5 to 19 years fell steadily (Figure 1), with an annual percentage change (APC) of -1.98% (95% CI, -3.5% to -0.4%; *P* = .02). Beginning in 2007, the overall suicide rate increased by an APC of 5.4% (95% CI, 4.2%-6.6%; *P* < .001).

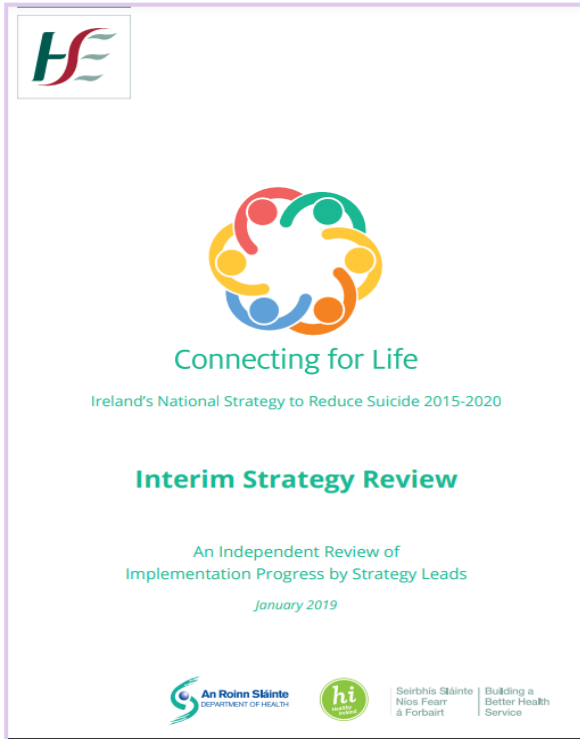
Figure 1. Joinpoint Analysis of Changes in Trends of US Suicide Rates of Children and Adolescents Aged 5 to 18 Years, by Sex, United States, 1999-2017



IRELAND CASE STUDY: SUMMARY OF RESULTS

Evaluation of a National Suicide Prevention Strategy

- ❖ For five out of the seven goals, it was concluded that good progress was made with implementing the key actions
- ❖ For actions with limited progress, specific recommendations were provided to optimise the implementation
- ❖ The interim review highlighted the need to develop a *CfL* Implementation Plan for 2020-24, informed by a review of available evidence, and with key partners to secure the commitments required at Departmental/cross-sectoral level



Evaluation of National Suicide Prevention Programmes - Challenges

Primary outcomes:

- Identify effects on the incidence of suicide and suicide attempts/self-harm at national level
- Issues related to accuracy and timeliness of suicide mortality data

Intermediate outcomes:

- Changes in intermediate outcomes, e.g. knowledge, attitudes, help-seeking behaviour, not consistently associated with changes in primary outcomes
- Assessing the impact of confounding factors

RESEARCH METHODS AND REPORTING

OPEN ACCESS

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For numbered affiliations see end of the article.
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SUMMARY POINTS

Complex intervention research can take an efficacy, effectiveness, theory based, and/or systems perspective, the choice of which is based on what is known already and what further evidence would add most to knowledge. Complex intervention research goes beyond asking whether an intervention works in the sense of achieving its intended outcome—to asking a broader range of questions (eg, identifying what other impacts it has, assessing its value relative to the resources required to deliver it, theorising how it works, taking account of how it interacts with the context in which it is implemented, how it contributes to system change, and how the evidence can be used to support real world decision making). A trade-off exists between precise unbiased answers to narrow questions and more uncertain answers to broader, more complex questions; researchers should answer the questions that are most useful to decision makers rather than those that can be answered with greater certainty. Complex intervention research can be considered in terms of phases, although these phases are not necessarily sequential: development or identification of an intervention, assessment of feasibility of the intervention and evaluation design, evaluation of the intervention, and impactful implementation. At each phase, six core elements should be considered to answer the following questions:

- How does the intervention interact with its context?
- What is the underpinning programme theory?
- How can diverse stakeholder perspectives be included in the research?
- What are the key uncertainties?
- How can the intervention be refined?
- What are the comparative resource and outcome consequences of the intervention?

The answers to these questions should be used to decide whether the research should proceed to the next phase, return to a previous phase, repeat a phase, or stop.

[thebmj | *BMJ* 2021;374:n2061 | doi: 10.1136/bmj.n2061](https://doi.org/10.1136/bmj.n2061)

A new framework for developing and evaluating complex interventions: update of Medical Research Council guidance

Kathryn Skivington,¹ Lynsay Matthews,¹ Sharon Anne Simpson,¹ Peter Craig,¹ Janis Baird,² Jane M Blazeby,³ Kathleen Anne Boyd,⁴ Neil Craig,⁵ David P French,⁶ Emma McIntosh,⁴ Mark Petticrew,⁷ Jo Rycroft-Malone,⁸ Martin White,⁹ Laurence Moore¹

The UK Medical Research Council's widely used guidance for developing and evaluating complex interventions has been replaced by a new framework, commissioned jointly by the Medical Research Council and the National Institute for Health Research, which takes account of recent developments in theory and methods and the need to maximise the efficiency, use, and impact of research.

Complex interventions are commonly used in the health and social care services, public health practice, and other areas of social and economic policy that have consequences for health. Such interventions are delivered and evaluated at different levels, from individual to societal levels. Examples include a new surgical procedure, the redesign of a healthcare programme, and a change in welfare policy. The UK Medical Research Council (MRC) published a framework for researchers and research funders on developing and evaluating complex interventions in 2000 and revised guidance in 2006.^{1,2} Although these documents continue to be widely used and are now accompanied by a range of more detailed guidance on specific aspects of the research process,^{3,4} several important conceptual, methodological and theoretical developments have taken place since 2006. These developments have been included in a new framework commissioned by the National Institute of Health Research (NIHR) and the MRC.⁵ The framework aims to help researchers work with other stakeholders to identify the key questions about complex interventions, and to design and conduct research with a diversity of perspectives and appropriate choice of methods.

Development of the Framework for Developing and Evaluating Complex Interventions

The updated Framework for Developing and Evaluating Complex Interventions is the culmination of a process that included four stages:

- A gap analysis to identify developments in the methods and practice since the previous framework was published⁶
- A full day expert workshop, in May 2018, of 36 participants to discuss the topics identified in the gap analysis
- An open consultation on a draft of the framework in April 2019, whereby we sought stakeholder opinion by advertising via social media, email lists and other networks for written feedback (52 detailed responses were received from stakeholders internationally)
- Redraft using findings from the previous stages, followed by a final expert review.

We also sought stakeholder views at various interactive workshops throughout the development of the framework: at the annual meetings of the Society for Social Medicine and Population Health (2018), the UK Society for Behavioural Medicine (2017, 2018), and internationally at the International Congress of Behavioural Medicine (2018). The entire process was

Intermediate and long-term outcome indicators

Increased awareness of suicide signs and symptoms

Improved identification of those at risk

Improved access to care

Improved provision of capacity and quality mental health care

Reduction in access to lethal suicide methods

Reduction in suicidal ideation and non-fatal self-harm

Reduction in suicide



National Suicide
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Thank you!

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