





Do National Suicide Prevention Strategies Work?

25th September 2025

Prof Ella Arensman School of Public Health & National Suicide Research Foundation, University College Cork, Ireland & WHO Collaborating Centre on Surveillance and Research in Suicide Prevention







Overview



- > Recent trends in suicide and self-harm
- > The Status of National Suicide Prevention Strategies at Global Level
- > Impact of National Suicide Prevention Strategies
- Evaluation of National Suicide Prevention Strategies: Barriers and Facilitators
- Priorities for Suicide Prevention in Changing Environments





WHO Collaborating Centre for Surveillance and Research in Suicide Prevention

• Since December 2015, the National Suicide Research Foundation has been designated as a WHO Collaborating Centre for Surveillance and Research in Suicide Prevention.

Work plan:

Provide Technical Support for WHO member states in:

- ➤ Establishing and Maintaining Surveillance Systems for Medically Treated Suicide Attempts.
- ➤ Enhancing Screening and Registration of Suicide Mortality Cases.
- ➤ Indicators for the Evaluation of National Suicide Prevention Programmes E-Learning Programme for Establishing and Maintaining Surveillance Systems for Suicide Attempts and Self-Harm
- > Mental health promotion and suicide prevention in the workplace.











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)









"Shifting the narrative on suicide, means driving systemic change, where governments prioritise and invest in quality mental health care and policies to ensure everyone gets the support they need."





"Mental health issues are truly global. When it comes to mental health, all countries are developing countries. Lots to learn!"

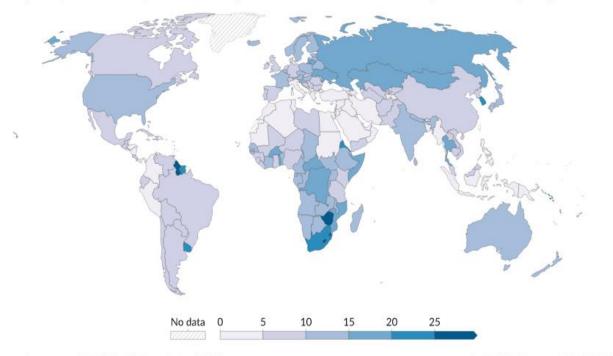


Global status of suicide rates versus data quality of suicide estimates

Suicide rate, 2021



Estimated annual number of suicides per 100,000 people. Suicide deaths are underreported in many countries due to social stigma and cultural or legal concerns. This data includes modeling based on global suicide patterns, and includes adjustments and extrapolations that aim to account for missing data and underreporting.



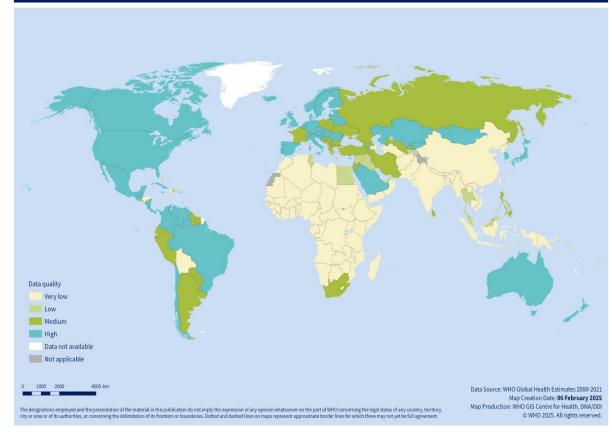
Data source: World Health Organization (2024)

OurWorldinData.org/suicide | CC BY

Note: To allow for comparisons between countries and over time, this metric is age-standardized.

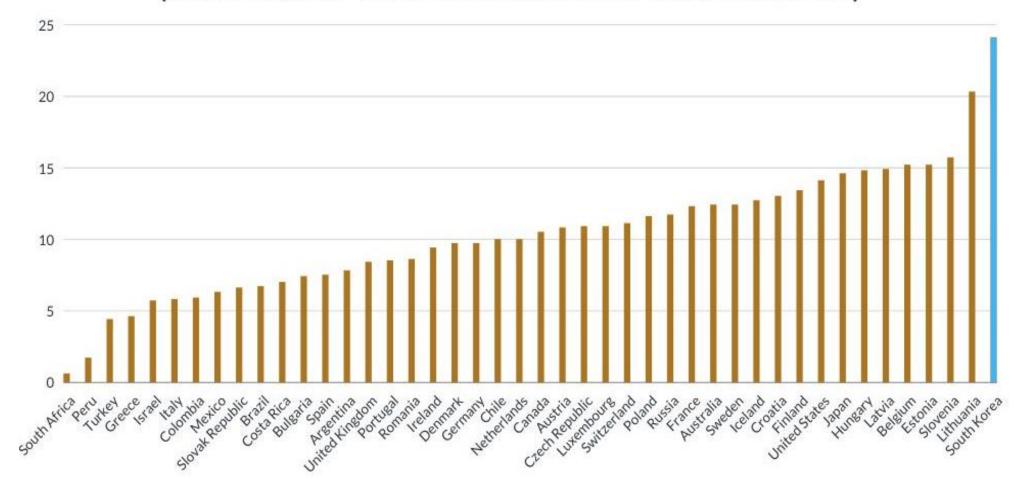






Suicide in OECD Countries

(MOST RECENT DATA AVAILABLE FOR EACH COUNTRY)



Society at
a Glance,
SOCIAL
INDICATORS,
OECD 2024

Increasing trends of self-harm trends among children and adolescents internationally



Social Psychiatry and Psychiatric Epidemiology (2018) 53:663–671 https://doi.org/10.1007/s00127-018-1522-1

ORIGINAL PAPER



Increasing rates of self-harm among children, adolescents and young adults: a 10-year national registry study 2007–2016

Eve Griffin1 · Elaine McMahon1 · Fiona McNicholas 23,4 · Paul Corcoran1,5 · Ivan J. Perry5 · Ella Arensman1,5

Received: 30 November 2017 / Accepted: 25 April 2018 / Published online: 2 May 2018
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Abstract

Purpose Rates of hospital-treated self-harm are highest among young people. The current study examined trends in rates of self-harm among young people in Ireland over a 10-year period, as well as trends in self-harm methods.

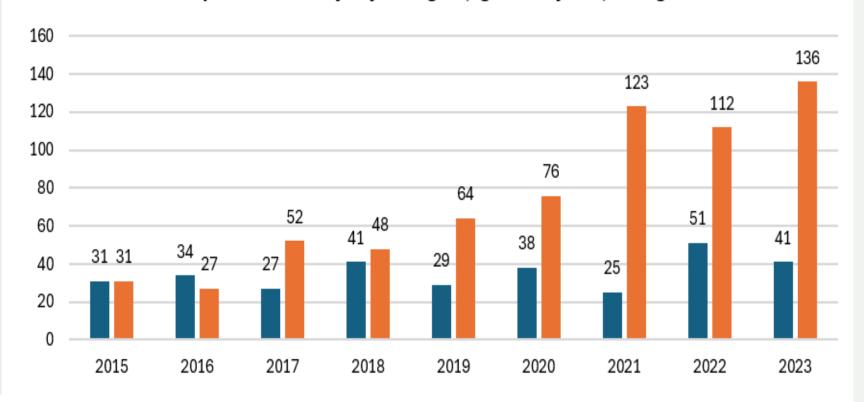
Methods Data from the National Self-Harm Registry Ireland on presentations to hospital emergency departments (EDs) following self-harm by those aged 10-24 years during the period 2007-2016 were included. We calculated annual self-harm rates per 100,000 by age, gender and method of self-harm. Poisson regression models were used to examine trends in rates of self-harm.

Results The average person-based rate of self-harm among 10-24-year-olds was 318 per 100,000. Peak rates were observed among 15-19-year-old females (564 per 100,000) and 20-24-year-old males (448 per 100,000). Between 2007 and 2016, rates of self-harm increased by 22%, with increases most pronounced for females and those aged 10-14 years. There were marked increases in specific methods of self-harm, including those associated with high lethality.

Conclusions The findings indicate that the age of onset of self-harm is decreasing. Increasing rates of self-harm, along with increases in highly lethal methods, indicate that targeted interventions in key transition stages for young people are warranted.

Keywords Self-harm · Young people · Epidemiology

Self harm presentations by boys and girls(aged 5-12 years) during 2015-2023



ORIGINAL PAPER



Self-harm in children 12 years and younger: characteristics and outcomes based on the Multicentre Study of Self-harm in England

Galit Geulayov¹ · Debbie Casey¹ · Liz Bale¹ · Fiona Brand^{1,2} · Ellen Townsend³ · Jennifer Ness⁴ · Muzamal Rehman⁴ · Keith Waters⁴ · Caroline Clements⁵ · Bushra Farooq⁵ · Nav Kapur^{5,6} · Keith Hawton^{1,2}

Between 2000 and 2016, 387 children aged 5–12 years presented to the study hospitals:

39% were 5-11 years

61.5% of children self-poisoned, 50.6% of them by ingesting analgesics.

Of children who self-injured:

45.0% self-cut/stabbed

28.9% used hanging/asphyxiation

32% had a repeat hospital presentation for SH

13.5% re-presented within a year.

SELF-HARM IN CHILDREN IS STRONGLY ASSOCIATED WITH SOCIOECONOMIC DEPRIVATION:

The proportion of study children living in neighbourhoods ranked most deprived (43.4%) was twice the national average.

Gender Breakdown:

boys outnumbered girls 2:1 at 5–10 years, rates were similar at age 11, at 12 years there were 3.8 girls to every boy.

Psychiatry Research 334 (2024) 115807



Contents lists available at ScienceDirect

Psychiatry Research

journal homepage: www.elsevier.com/locate/psychres





Self-harm and suicide death in the three years following hospitalization for intentional self-harm in adolescents and young adults: A nationwide study

Karine Goueslard a, Catherine Quantin a,b,c, Fabrice Jollant d,e,f,g,h,*



➤ Highest rates of self-harm among females aged 14-16 years

Three year follow up:

- ➤ Higher rates of prospective selfharm among those with a self-harm history, psychiatric and somatic disorder, and dispensed drugs
- > 1 in 5 repeated self-harm
- > 1 in 200 died by suicide



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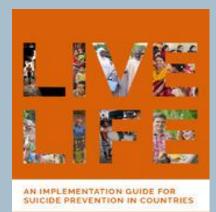
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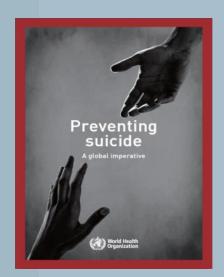
⁸ McGill Group for Suicide Studies, Department of psychiatry, McGill University, Montréal, Québec, Canada

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The Public Health Model

1. Surveillance

What is the problem?

Define the problem of suicidal behaviour through systematic data collection



2. Identify risk & protective factors

What are the causes & what can buffer their impact?

Conduct research to find out why suicidal behaviour occurs and who it affects





4. Implementation

Scaling up effective policies & programmes

Scale up effective and promising interventions and evaluate their impact and effectiveness



3. Develop & evaluate interventions

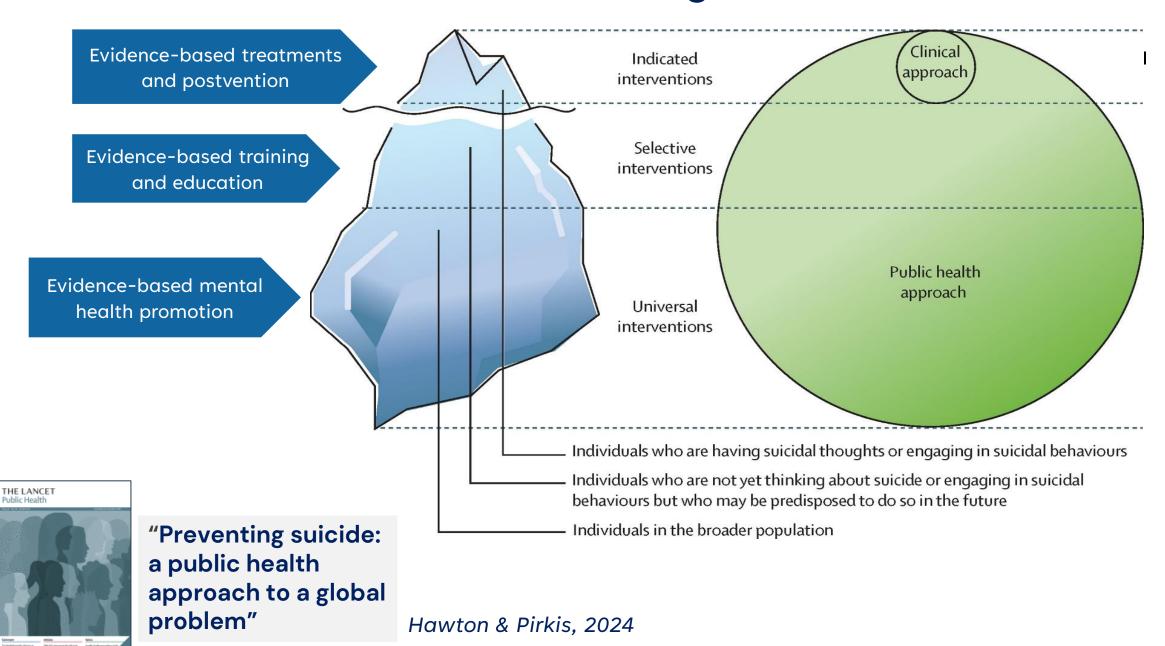
What works & for whom?

Design, implement and evaluate interventions to see what works



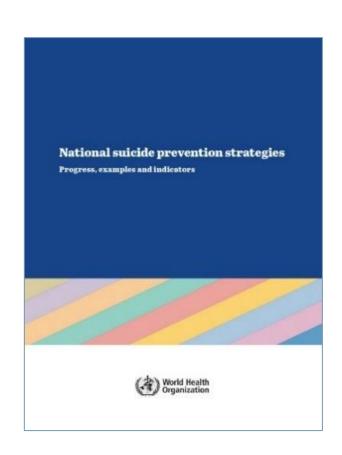


The Iceberg Model



Number of countries with a national suicide prevention strategy

- According to WHO's data, 41 countries report having a national suicide prevention strategy
- In Europe, 6 further countries are in the process of developing a national suicide prevention strategy, through the **EU Joint Action ImpleMENTAL**
- An increasing number of countries are implementing a second or third national suicide prevention strategy, however only a limited number of strategies are evaluated.



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	11) Oversight and
Education	Coordination
6) Treatment	



WHO: Live Life

WHAT IS LIVE LIFE?

cross-cutting foundations

Situation analysis

Multisectoral collaboration

Awareness raising

Capacity building

Financing

Surveillance, monitoring and evaluation

Key effective evidence-based interventions

Limit access to means of

suicide



Interact with the media on responsible reporting



Foster life skills of young people



Early identify and support everyone affected



EXECUTIVE SUMMARY

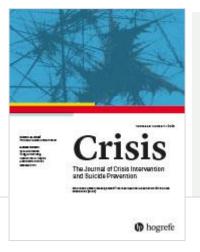
LIVE

AN IMPLEMENTATION GUIDE FOR SUICIDE PREVENTION IN COUNTRIES



Effectiveness of National Suicide Prevention Strategies (NSPSs) and their Components

- ➤ A recent review focused on the effectiveness of national suicide prevention strategies and their components in 29 countries, with suicide mortality data from 24 countries
- ➤ The overall "period effects" (how rates changed over time in countries with NSPSs) ranged from significant decrease for South Korea (RR ~0.80), to a significant increase in Uzbekistan (RR ~1.12)
- There was a pattern of NSPSs containing many (4-11) components, and nearly all included training/education
- Despite the variation in components, no statistically significant associations were found between specific components and changes in suicide mortality, and more likely point in the direction of synergistic effects.



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Research Trends

Evaluating the Effectiveness of Components of National Suicide Prevention Strategies

An Interrupted Time Series Analysis

Marisa Schlichthorst, Lennart Reifels, Matthew Spittal, Angela Clapperton, Katrina Scurrah, Kairi Kolves, Stephen Platt, Jane Pirkis, and Karolina Krysinska ■

Published Online: 20 Dec 2022 • Doi: https://doi.org/10.1027/0227-5910/a000887

Forest plots of period effects for 24 countries for both sexes combined

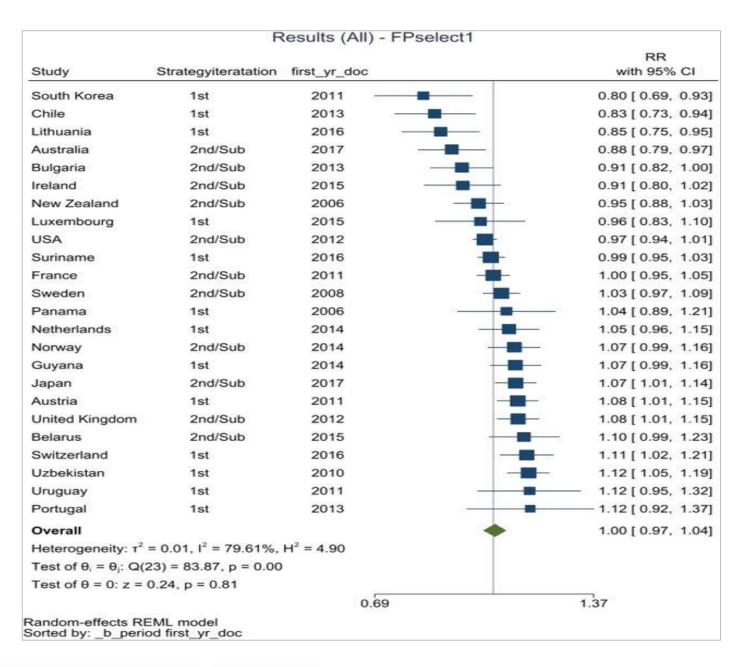
Research Trends



Evaluating the Effectiveness of Components of National Suicide Prevention Strategies

An Interrupted Time Series Analysis

Marisa Schlichthorst¹, Lennart Reifels¹, Matthew Spittal¹, Angela Clapperton¹, Katrina Scurrah¹, Kairi Kolves¹, Stephen Platt², Jane Pirkis¹, and Karolina Krysinska¹







Possible explanations for variable effectiveness of **National Suicide Prevention Strategies**

- > It may take longer than anticipated to show an effect, or to identify an effect only in certain subgroups (intensity and consolidation of actions and interventions)
- In addition to reductions in suicide, other outcome indicators need to be considered, such as secondary or in intermediate outcome indicators, including non-fatal self-harm, awareness of suicide risk factors, access to quality health care, access to lethal means of suicide, and numbers of people hospitalized after an act of self-harm
- Lack of information as to whether specific actions and interventions had been implemented or, if implemented, the quality, scale, intensity, completeness, and timing of the implementation process





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, Jane M Blazeby, 3 Kathleen Anne Boyd, 4 Neil Craig, 5 David P French, 6 Emma McIntosh, Mark Petticrew.7 Jo Rycroft-Malone.8 Martin White.9 Laurence Moore

he UK Medical Research Council's widely used guidance for developing and evaluating complex interventions has been replaced by a new framework, esearch Council and the National

RMI 2021-374-n2061 | doi: 101136/bmi.n206

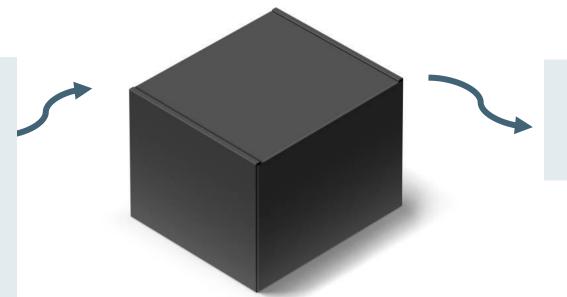


Addressing the "black box" challenge -

What happens during the implementation of a national suicide prevention strategy?

INPUT

- Launch of a national suicide prevention strategy and national/ regional implementation plans
- Baseline assessment of suicide rates



OUTPUT

Assessment suicide rates including trend analysis

There is significant lack of information and national variation in the rigour of implementation. In addition, what may look like a trend over a certain period of time, does not always account for external factors (i.e. public health emergencies).

to include
expertise in
Implementation
Science!

It is fundamental

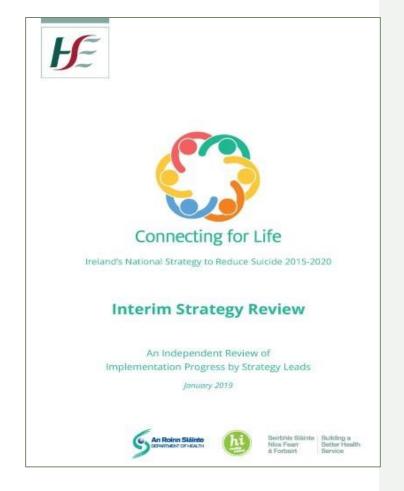




Addressing the 'black box' via continuous monitoring and evaluation during the implementation of the strategy

- ➤ Independent monitoring and evaluation committee to review the National Implementation Plan
- Quarterly National Steering Group meetings and updates on actions, with accountability of all relevant Government Departments, chaired by the Department of Health
- Reporting via an online 'dashboard' system accessible by all members of the Steering Group
- Quarterly reporting allows for timely mitigation of challenges and barriers in implementing the actions.









Intermediate, primary and secondary indicators



Increased awareness of suicide signs and symptoms

Improved provision of capacity and quality of mental health care

Improved identification of people at risk

Reduction in access to lethal suicide methods

Reduction in suicide

Improved access to care

Reduction in suicidal ideation and non-fatal self-harm and repetition

Example: The European Alliance Against Depression's Four-level intervention programme - Evidence base



Population- and community-based interventions to prevent suicide: A...

by Linskens, Eric J; Venables, Noah C;

Gustavson, Allison M; More...



Peer-Reviewed

Review Article Q

Population- and Community-**Based Interventions to Prevent Suicide**

A Systematic Review

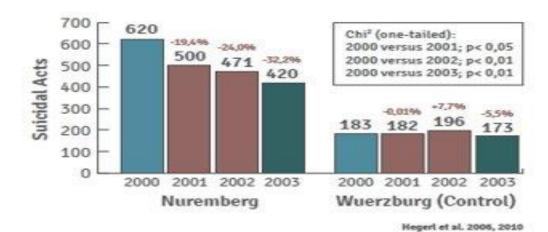
Eric J. Linskens¹, Noah C. Venables^{1,2,3}, Allison M. Gustavson¹, Nina A. Sayer^{1,3,4} Maureen Murdoch^{1,2,4}, Roderick MacDonald¹, Kristen E. Ullman¹, Lauren G. McKenzie¹, Timothy J. Wilt^{1,2,4,5}, and Shahnaz Sultan^{1,2,4}

Abstract. Background: Suicide is estimated to account for 1.4% of deaths worldwide, making it among the leading causes of premature death. Public health approaches to reduce suicide have the potential to reach individuals across the spectrum of suicide risk. Aims: To review the effectiveness of newer community-based or population-level suicide prevention strategies. Methods: We conducted a systematic review of literature published from January 2010 to November 2020 to evaluate the effectiveness of community- and population-level interventions. The US Center for Disease Control framework was used for grouping studies by strategy. Results: We included 56 publications that described 47 unique studies. Interventions that reduce access to lethal means, implement organizational policies and culture in police workplace settings, and involve community screening for depression may reduce suicide deaths. It is unclear if other interventions such as public awareness and education campaigns, crisis lines, and gatekeeper training prevent suicide. Evidence was inconsistent for community-based, multistrategy interventions. The most promising multistrategy intervention was the European Alliance Against Depression. Limitations: Most eligible studies were observational and many lacked concurrent control groups or adjustment for confounding variables. Conclusions: Community-based interventions that may reduce suicide deaths include reducing access to lethal means, implementing organizational policies in workplace settings, screening for depression, and the multistrategy European Alliance Against Depression Program. Evidence was unclear, inconsistent, or lacking regarding the impact of many other single- or multistrategy interventions on suicide deaths.

Keywords: suicide, public health, community-based interventions, population-based interventions

Scoil na Sláinte Poiblí





This systematic review revealed that the EAAD 4-level intervention programme was the most promising approach.

Minneapolis VA Evidence Synthesis Program Center and the VA Center for Care Delivery and Outcomes Research, Minneapolis, MN, USA

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The 4-level intervention concept of EAAD

Level 1
Primary care
and mental
health care

Level 2
General public:
Depression
awareness
campaign

GOALS

Improved care for patients with depression and preventing suicidal behaviour

Level 4
Patients,
high-risk
groups and
relatives

Level 3
Community
facilitators and
stakeholders



10 European countries

Belgium

Bulgaria

Estonia

Germany

Greece

Hungary

Ireland

Italy

Poland

Spain



5 European countries

Spain

Ireland

Greece

Albania

Estonia

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, Kazakhstan, Namibia, **Afghanistan, Uruguay**











School of Public Health

Example: Uruguay



WHO, August 2025

- Among the countries in the Americas with the highest suicide rates
- Recent launch of a nationwide digital registry system (first paper-based, from 2013)
- Followed the WHO Practice manual



National Suicide Prevention Strategy in Development

Multi-layered quality
assurance process: new data
entries are initially validated by
a mental health specialist and
reviewed daily by the
surveillance department
of the Ministry.



From early detection to targeted follow-up care: authorised mental health professionals can access real-time data on recent suicide attempts, enabling rapid follow-up. Furthermore, Uruguay's national clinical guidelines mandates all individuals presenting to the ED with suicide attempts should be followed up by a trained mental health professional within 48 hours and 7 days post-attempt.

Key Priorities for Suicide Prevention in Changing Environments

- > Changing online environments
- > Changing work environments
- Cost-of-living crisis
- Climate change
- Artificial intelligence and suicide (prevention)
- > Political turmoil and armed conflict

Editorial

Suicide Prevention in Changing Environments





Thomas Niederkrotenthaler¹, Ella Arensman², Gregory Armstrong³, Katherine Keyes⁴, Alexandra Pitman^{5,6}, and Benedikt Till¹

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Changing Environments at Crisis

In January 2024, Dr. Jane Pirkis from Australia handed over the reins of Editor-in-Chief (EiC) to Dr. Thomas Niederkrotenthaler from Austria. From 2018, Dr. Pirkis guided the journal from strength to strength, together with her associate editors, Drs. Maria Oquendo and Ella Arensman. While Dr. Arensman will carry on in the leadership team of the journal, Dr. Pirkis and Dr. Oquendo will also continue as members of the broader editorial board. To cope with the increasing demand on journal editors, it was deemed necessary to expand the leadership to a team of six recognized experts in the area of suicide prevention, with clinical, psychiatric, psychological, epidemiological, and public health expertise, as reflected in the journal's content. Since January 2025, Drs. Gregory Armstrong (Australia), Katherine Keyes (United States), Alexandra Pitman (United Kingdom), Benedikt Till (Austria), Ella Arensman (Ireland), and Thomas Niederkrotenthaler (Austria) have worked together to handle manuscripts, develop the journal and the submission policies, and help promote Crisis in order for it to become a globally leading outlet in the area of suicide prevention research. A brief resumé of the leadership team members can be found at the end of this editorial.

We anticipate that the next few years will bring many changes to the journal, some of them related to changes in academic publishing, others reflecting the ever-changing social environments that are relevant to suicide and its prevention. This editorial will cover the dynamic content areas that are essential for the future of suicide prevention and require more research to better understand their implications for suicide and its prevention. The areas covered

here are not exhaustive, but are meant to provide readers with examples of ongoing developments that will be relevant to the field and that readers of *Crisis*, including ourselves, will certainly be pleased to read and learn more about.

There are also some structural plans and visions for the journal that we want to tackle. First, it appears necessary to clarify and revise the authorship guidelines of the journal. We would like to sharpen the definitions of manuscript types and, potentially, expand the types of submissions that we consider. For example, we plan to commission a new type of article – Debates – and also consider pieces covering seminal works in suicide prevention from the past, together with commentary adding contemporary perspectives. Keep an eye on upcoming issues to learn more about this in the near future. Furthermore, Crisis will also continue to support open science and we will update our related guidance.

One of our primary goals is to further strengthen the links of editorial leadership with the editorial board and reviewers. The editorial board and peer reviewers, like the authors, are the backbone of Crisis, and their work is the basis for all developments to be successful. In our work to secure good-quality reviews, editorial boards and reviewers play an essential role and we would like to sincerely thank everyone involved in one (or often several) of these roles for their important contributions. At the same time, we want to ensure that the board is involved in the everyday work of the journal and want to encourage evervone on the board to review and submit their work to Crisis. Together, we can ensure that Crisis remains a premier journal for good-quality suicide prevention research, with a strong focus on clinical and public health research, observational and experimental studies,

New initiative: Strengthening Health Systems for Equitable High-Quality Mental Health Care Outcomes in Refugee Populations in Europe and Low and Middle Income Countries – **SECUREH**

Incidence of sexual violence among recently arrived asylumseeking women in France: a retrospective cohort study

Check for updates

Jérémy Khouani, ^{ab, *} Marion Landrin, ^{b.f.} Rachel Cohen Boulakia, ^{b.f.} Sarah Tahtah, ^{d.} Gaëtan Gentile, ^{b.e.} Anne Desrues, ^a Marine Vengeor Anderson Loundou, ^{a.c.} Adriaan Barbaroux, ^{d.} Pascal Auquier, ^{a.c.} and Maeva Jego^{a,b}

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"Aix Marseille University, Institut des Neurosciences des Systèmes, INS UMR1106, Franc

Summar

Background The prevention of sexual violence (SV) occurring shortly after arrival in host countries towards femals asylum seekers requires knowledge about its incidence. We aimed to determine the incidence of SV and its associates factors during the past year of living in France among asylum-seeking females who had arrived more than one yea earlier but less than two veges.

Health - Europe 2023;34: 100731 Published Oline 18 September 2023 https://doi.org/10.

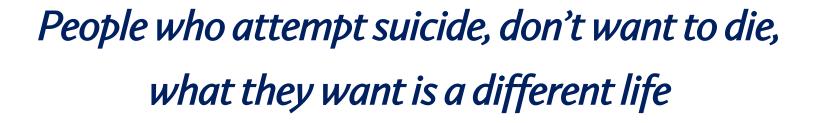
> SECUREH will adapt and implement the proven EAAD 4-Level Intervention Programme as an exemplar of rigorous implementation research.

The project will generate:

- a) Optimised 4-level intervention programme to address depressive and anxiety symptoms, suicidal ideation, pain and sleep disorders among three refugee populations in EU host countries and three LMIC settings, and
- b) Guidance on determinants of sustainable implementation to increase capacity of health, mental health and community services.
- ▶ 12 partners from 8 countries and along with engaging national and international policymakers: UNHCR & WHO and NGOs.
- Initial target groups: Refugees from South Sudan, Ukraine and Syria, with expansion to refugees from Gaza.









A critical feature in working with people who self-harm is to recognise their ambivalence and the fragility and temporality of their decisions about their destiny.

Bermans et al, 2009; Scoliers et al, 2009; Rasumussen et al, 2016; Bermans et al, 2017





Merci beaucoup!

Prof Ella Arensman

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