Suicide and self-harm in Ireland: Data collection systems and recent outcomes

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Overview

- Recent trends of suicide in Ireland
- Challenges in relation to accuracy and real-time access to suicide mortality data
- Suicide Support and Information System and Suicide and Self-Harm Observatory – recent outcomes
- National Self-Harm Registry of Self-Harm Ireland recent outcomes
- Benefits of suicide and self-harm surveillance systems











Trends in suicide in Ireland by gender, 2002-2017







2016-2017: Provisional data CSO





Suicide in Ireland by age and gender: Average rates











Connecting for Life: Ireland's National Strategy to Reduce Suicide 2015-2020

Goal 7: To improve surveillance, evaluation and high quality research relating to suicidal behaviour

7.2: Improve access to timely and high quality data on suicide and self-harm













The need to develop an innovative suicide recording system in Ireland: Suicide Support and Information System (SSIS)

- Absence of real-time data on suicide. Suicide figures are often published by the Central Statistics Office (CSO) 2 years after the death has occurred.
- Information from CSO is often limited to demographics and methods involved in cause of death

Development of the Suicide Support and Information System – Objectives:

- 1. Better define the incidence and pattern of suicide in Ireland
- 2. Identify and better understand causes of suicide
- 3. Identify and improve the response to clusters of suicide
- 4. Improve access to support for the bereaved
- 5. Reliably identify those individuals who present to the Emergency Department due to self-harm and who subsequently die by suicide









A systematic approach to obtain real-time and accurate data on suicide: Suicide Support and Information System, Ireland











Second Report of the Suicide Support and Information System

Main characteristics of people who had died by suicide

- > Overrepresentation of men (80.1%); Men significantly younger than women
- Relatively high proportion were unemployed at time of death (33.1%)
- Among men, 48.6% had worked in the construction/production sector; among women, 26.5% had worked in a healthcare setting
- Nearly two thirds had a history of self-harm (65.2%); 69.1% were diagnosed with depression, and alcohol/and or drug abuse was present among 60.7%
- In the year prior to death, 81% had been in contact with their GP or a mental health service. Most people who contacted GP did so more than 4 times









Differences between men aged <40 years versus men aged <u>></u> 40 years



Men aged ≥ 40 Years





Men aged < 40 Years





The Suicide and Self-Harm Observatory (SSHO)– Links between data sources to capture suspected suicide case in real-time

The Coroners of Cork city and county

- Only information that can be provided prior to coronial request will be made available by the coroner for entry to the minimal dataset.
- Information provided by the coroners will not be used by the NSRF/UCC to approach family members directly
- Data obtained from the coroners will provide the most complete information on case of suspected suicide



Health Service Executive

- A two way pathway will exist between the NSRF and the HSE:
- 1. Information relating to the suspected suicide of a service user will be obtained from the HSE patient mortality register.
- 2. Information from the minimal dataset will be shared with the Suicide Resource Officer (SRO) in order to facilitate early response to emerging suicide clusters.
- The SRO takes into consideration families in need due to the sudden death of a family member based on best practice.
- The SRO also provides support to schools and other community services in the region that has been affected by the sudden death of a student.



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Benefits of the SSHO based on pilot implementation December 2018-September 2019

- SSHO has been effective in crosschecking incomplete data provided by the HSE Resource Officer for Suicide Prevention. The crosschecking feature of the SSHO ensures that support can be provided indirectly by the HSE in affected communities.
- Communication between the primary researcher and the data providers has been good overall.
- The SSHO has been used in five instances within the first six months of its existence to validate unverified reports of contagion within two areas of Cork in December 2018 and May 2019.
- This validation feature has also been effective in fulfilling a request from the media for verification of information, hence preventing the spread of misinformation relating to perceived contagion/clustering in the area of Cork.







Vational Suicide search Foundation







The National Self-Harm Registry Ireland – Recent outcomes















National Self-Harm Registry Ireland

Aims:

- To establish the extent and nature of hospitaltreated self-harm;
- To monitor trends over time and also by area;
- To contribute to policy and development;
- To **inform** the progress of **research and prevention**.

Definition

'an act with **non-fatal outcome** in which an individual **deliberately initiates a non-habitual behaviour**, that without intervention from others will cause self harm, or deliberately ingests a substance in excess of the prescribed or generally recognised therapeutic dosage, and which is aimed at realising changes that the person desires via the actual or expected physical consequences'.



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Self-harm by age and gender, 2018



Age group





Research

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ORIGINAL PAPER

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

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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 agod 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-humm 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, arises of self-hum increased by 225, with increases most prosonaced for females and those appd 10–14 years. There were marked increases in specific methods of self-hum, including those associated with high lexhality. **Conclusions:** The findings indicate that the age of onset of elf-hum in decreasing. Increasing rates of self-hum, 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 among young people in Ireland, 2007-2016





Male









- Young people with the highest risk for repeated self-harm were 15–19-year-old females and 20–24-year-old males
- Self-cutting was the method associated with the highest risk of selfharm repetition. Time between first self-harm presentations represents an indicator of subsequent repetition
- Increased risk of self-harm method escalation among young people in recent years











Method of self-harm by males and females by age group



Health

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Research





Drugs used in intentional overdose





Self-harm intervention and suicide prevention at national level in Ireland

 National Clinical Programme for the Assessment and Management of Patients Presenting to Emergency Departments following Self-Harm

• *Connecting for Life*, Ireland's National Strategy to Reduce Suicide, 2015-2020





















Benefits of surveillance systems for hospital/health centre treated self-harm

- Informing:
 - Service provision, resource deployment and guidelines for self-harm management
 - Assessment and interventions for non-fatal suicidal behaviour
- "Real-Time Data"
- Evaluation of interventions
- Regional variations
- Clinical management of self-harm
- All attendances to hospital Emergency Departments

























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