

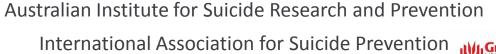
World Suicide Prevention Day Working Together to Prevent Suicide September 10, 2019





Identifying subgroups of self-harm: Implications for assessment and treatment

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Australian Institute for Suicide Research and Prevention



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Dedicated to Allison Milner, 1st May 1983 - 12th August 2019





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Background

 Limited research into subgroups of people who self-harm; different methodological approaches within existing research

Existing clinical guidelines and guidance documents for the assessment and management of self-harm (NICE, 2013; BPS, 2012) have limited focus on clinical subgroups of self-harm and tailored treatment approaches

- Emerging evidence about people who self-harm and who do not benefit from evidence based interventions hidden subgroups?
- Based on the National Self-Harm Registry Ireland, 39% of patients presenting to emergency departments due to selfharm do not receive a psychiatric or psychosocial assessment and 15% leave the hospital without a next care recommendation (Arensman et al, 2018)

PLOS ONE

RESEARCH ARTICLE

Recommended next care following hospitaltreated self-harm: Patterns and trends over time

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Abstract

Objective

The specific objectives of this study were to examine variation in the care of self-harm patients in hospital settings and to identify the factors that predict recommended next care following self-harm.

Methods

Data on consecutive presentations to Irish emergency departments (EDs) involving selfharm from the National Self-Harm Registry Ireland from 2004 to 2012 were utilised. Univariate and multivariate regression analyses were performed to assess the associations between patients' clinical and demographic characteristics, and recommended next care received.

Result

Across the study period a total 101,904 self-harm presentations were made to hospital EDs, involving S3,457 individuals. Over the course of the study there was a declining number of presentations resulting in patient admission following attendance with self-harm. Recommended next care varied according to hospital location, with general admission rates ranging from 11% to 61% across administrative health regions. Multinomial logistic regression identified that the factor which most strongly affected next care was the presenting hospital. Being male, older age, method, repeat self-harm, time of attendance and residence of the patient were all identified as influencing care received. Psychiatric admission was most common when highly lethal methods of self-harm were used (OR = 4.00, 65% CI, 3.83–411). A refallerly-large proportion of patients let the CD without being sent (15%) and the risk of doing so was highest for self-harm repeaters (1.64, 1.55–1.74 for those with 5+

OPEN ACCESS

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Data Availability Statement: The data used in this manuscript comes from the National Self-Harm Registry Ireland and contains sensitive patient information. As a result, access to this data set is restricted and facilitated by the National Suicide Research Foundation. All data requests may be made to the National Suicide Research Foundation

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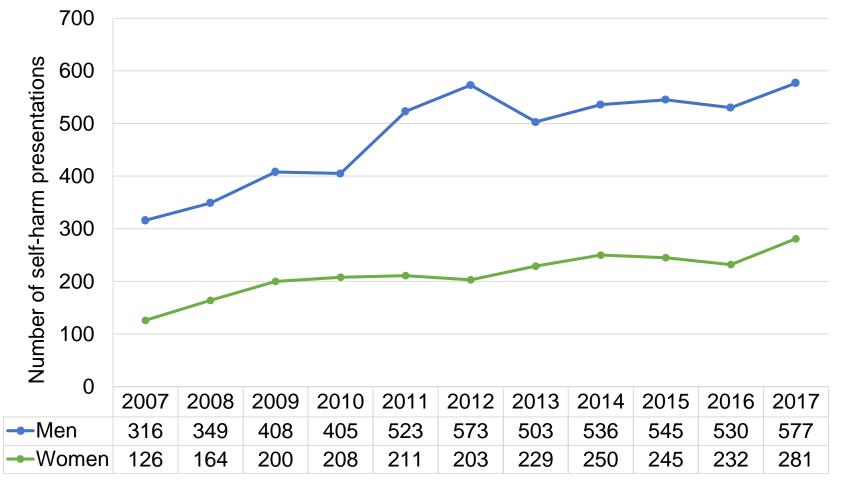








Increasing trend of self-harm acts involving highly lethal methods among males and females (rates/100,000)





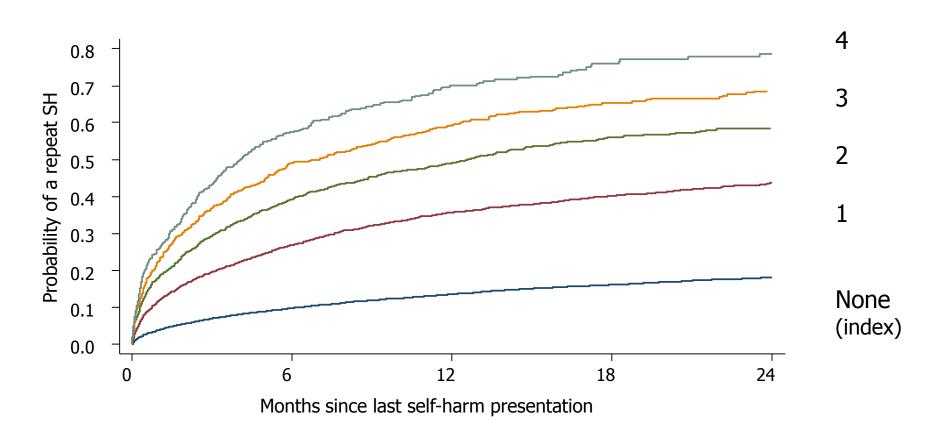








Repetition by number of previous self-harm presentations













Improving Prediction and Risk Assessment of Self-Harm and Suicide (IMPRESS)

Objectives:

- Further investigate predictive risk factors associated with repeated self-harm among high risk groups of self-harm patients
- To develop a programme for the assessment and management of self-harm procedure for repeated self-harm and suicide for use in a general hospital setting
- Prospective design involving in-depth semi-structured interviews following an index self-harm presentation to general hospital (baseline) and 6 months follow-up

Population: 2 high risk groups

- High risk self-harm (HR): self-harm presentations of high lethality and/or high level of suicidal intent)
- Major repeaters (MR): self-harm presentations by patients who have a history of 5 or more previous self-harm presentations)



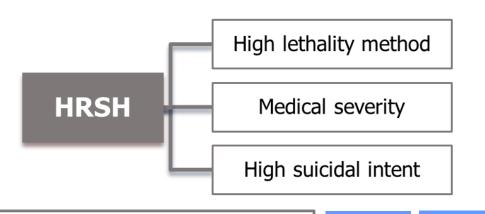








Methods: Recruitment and response of patients with high risk self-harm



e.g. attempted hanging – witnessed suspended / ligature marks

e.g. ICU / referral to plastic surgery

Clinical judgement and objective section of Beck Suicide Intent Scale

3 Hospitals:

High rate city hospitals

Data collection: 28

months

Study 1 Psychiatric and psychosocial assessment data

N=355
Consecutive cases
(incl. 9 fatal acts)

Study 2 Baseline semistructured (n=106) 6 month follow-up semi-structured interviews (56.5%)











Methods: Recruitment and response of patients with major self-harm repetition

Pattern of self-harm repetition

5 or more previous episodes of self-harm

3 Hospitals

High rate city hospitals

Data collection:

22 months

Study 1 Psychiatric and psychosocial assessment data

N=135

Consecutive cases (incl. 2 fatal acts)

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Baseline semistructured (n=32)

6 month follow-up semi-structured interviews (72%)

Study 2



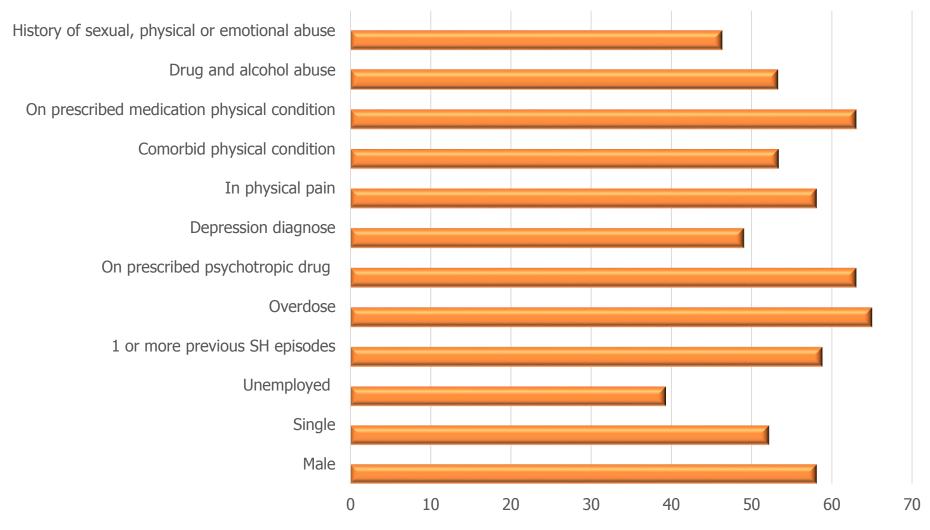








High-Risk Self-Harm





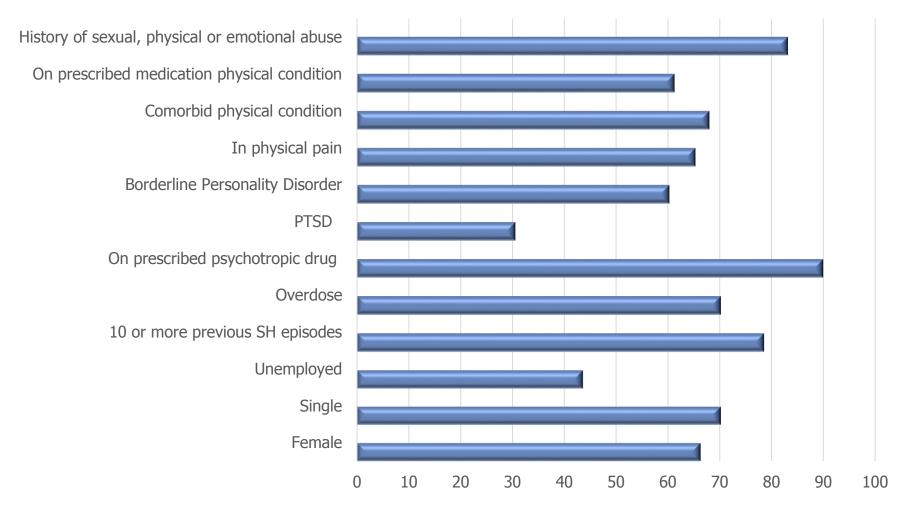








Major Self-Harm Repeaters













Experience of physical and sexual abuse

High Risk Self-Harm

 Among the participants, 46.2% had a history of physical, sexual or emotional abuse. Among this subgroup, 22.9% reported one or more experiences with childhood sexual abuse or sexual assault at adolescent age.

Major Self-Harm repeaters

 Over 80% of participants had a history of physical, sexual or emotional abuse. Among the participants who reported an abuse experience, the majority (71%) had experienced childhood sexual abuse and 80.6% had experienced sexual assault at adolescent age.











Comparing major repeaters versus those with high risk self-harm on physical comorbidities and pharmacological treatment

Common physical comorbidities:		MR	HRSH
•	Asthma	20%	8%
•	Metabolic diseases	20%	19%
•	Orthopaedic problems	16.6%	19%
•	Chronic pain	46.6%	51%

Pharmacological treatment:

•	Antipsychotics	50%	20%
•	Antidepressants	50%	61%
•	Anxiolytics	26.6%	35%
•	More than one psychotropic drug	73.3%	48%











Evidence based interventions

Internationally consistent evidence:

- Dialectical Behaviour Therapy, in particular among women
- Cognitive Behaviour Therapy

Growing evidence:

- **Problem-Solving Therapy**
- Internet-based psychotherapeutic interventions for mild to moderate mental health problems
 - DBT among men who engaged in high-risk self-harm has not yet shown consistently positive effects in reducing repeated self-harm and suicide (Goodman et al, 2016)







Psychosocial interventions following self-harm in adults: a systematic review and meta-analysis





But..... not everybody is able to benefit from the evidence based interventions:

Reduced impact of DBT when:

 People suffer from severe PTSD. Increased repetition of self-harm during treatment

Higher levels of dissociation throughout DBT treatment

 Greater severity of PTSD is associated with lower likelihood of self-harm cessation during DBT (Harned al, 2010; Barnicot and Priebe, 2013)











Complex

Trauma

Borderline Personality Disorder

Advanced training: Self-Harm Assessment and Management for Self-Harm in General Hospitals(SAMAGH)

Core Components Knowledge based training via E-learning (to be completed in the week prior to skills training)

E-learning modules

Module 1- Extent of self-harm and suicide, risk and protective factors

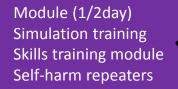
Module 2- Evidence informed assessment and management procedures

Module 3- Working with self-harm patients

Module 4- Subgroups of people who self-harm & evidence based treatments

Module 5- Self-care

Biopsychosocial assessments, referral pathways, safety planning (1/2 day)



Module (1/2 day)
Simulation training
High risk self-harm
behaviour

Module (1/2 day)
Simulation training
Challenging
presentations and
behaviour









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