

Self-harm in Ireland:

Priority groups and opportunities for intervention

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National Suicide Research Foundation, Cork

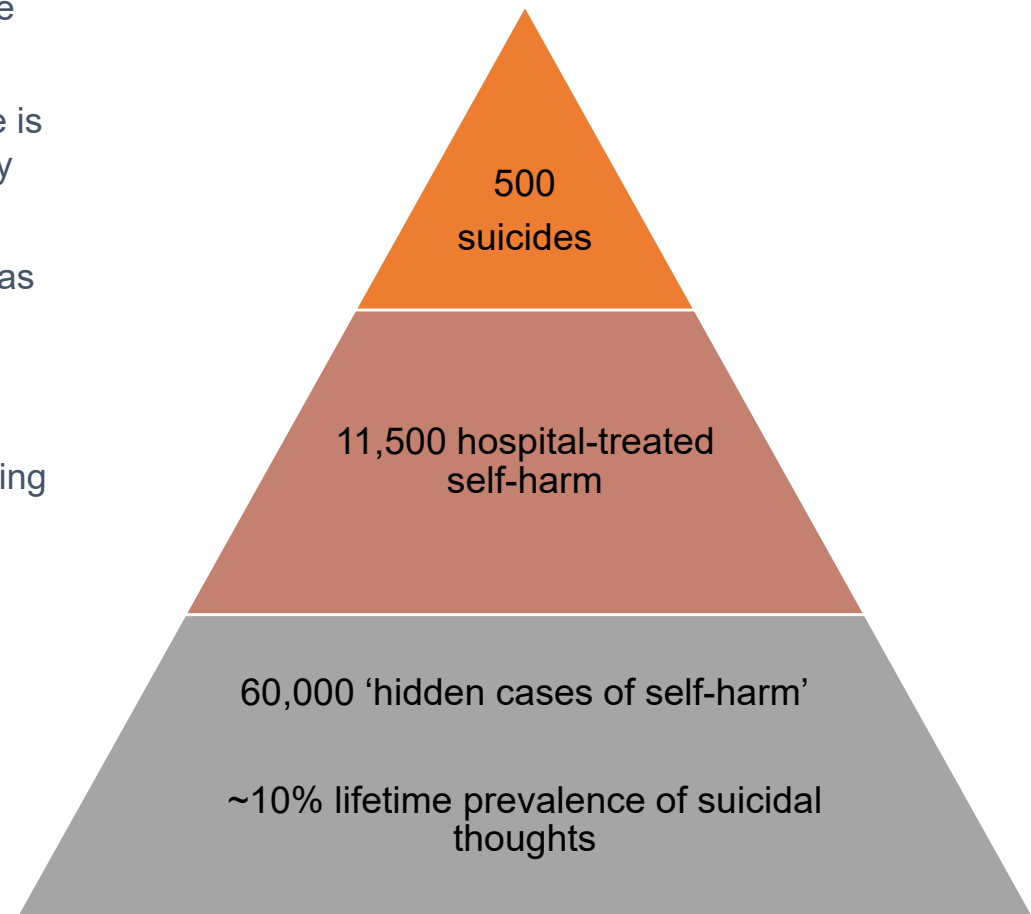
SELF-HARM AWARENESS CONFERENCE 2019
ST PATRICK'S UNIVERSITY HOSPITAL DUBLIN,
MARCH 1ST 2019



National Suicide
Research Foundation

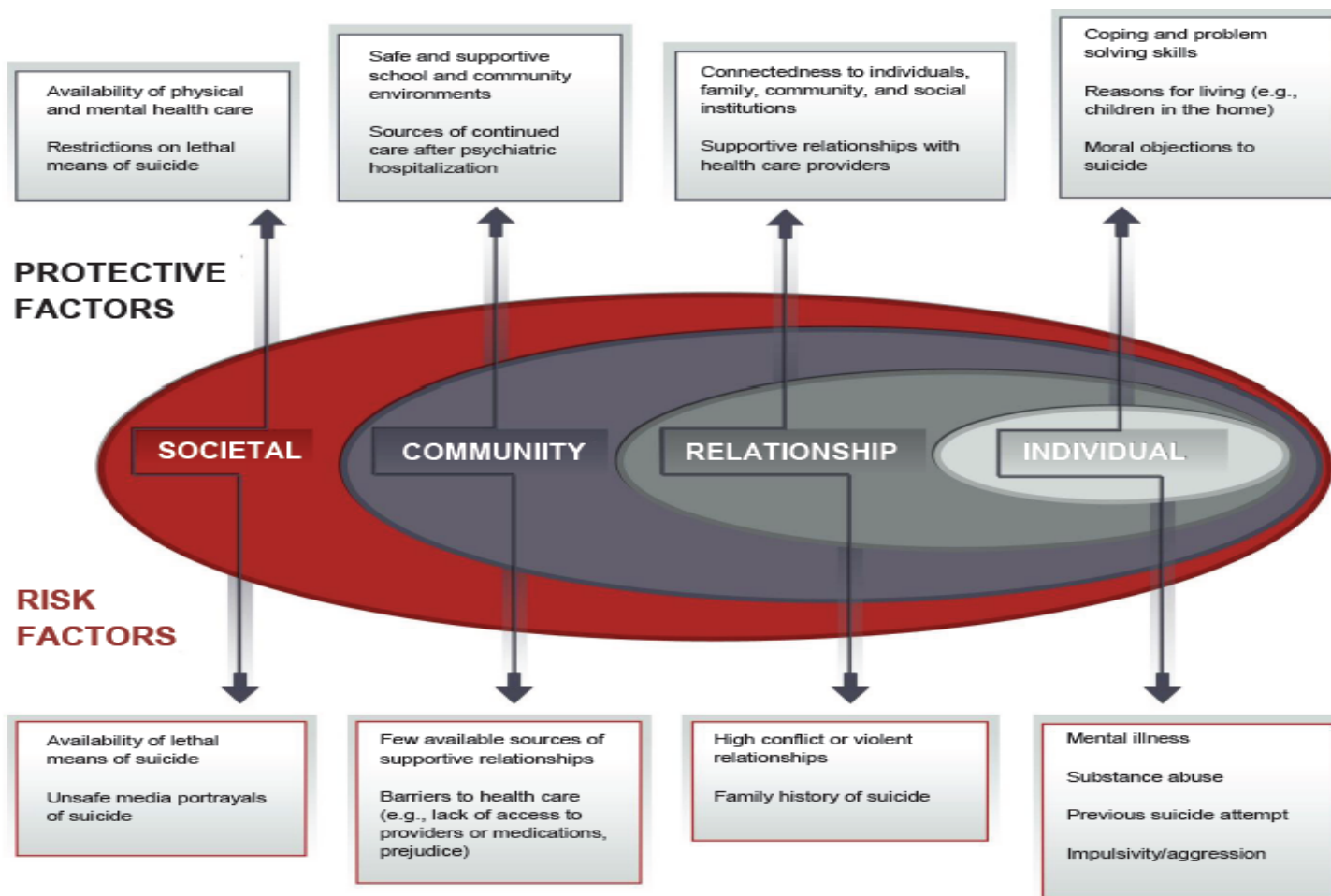
Suicidal behaviour as a public health issue

- ▶ Every 40 seconds a person dies by suicide
- ▶ Among people 15-29 years of age, suicide is the second leading cause of death globally
- ▶ In 61% of responding countries, suicide was perceived to be a significant public health concern
- ▶ By 2030, mental disorders will be the leading cause of burden of disease globally



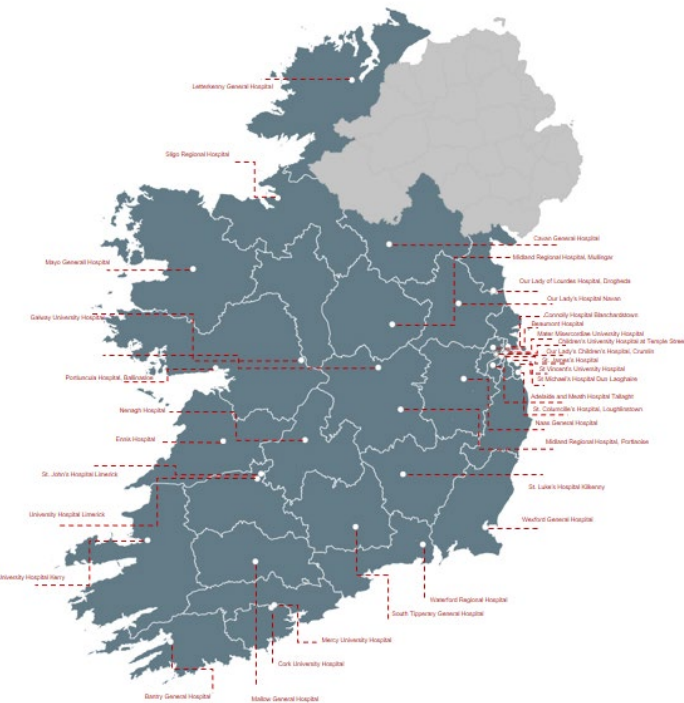


Risk factors for suicidal behaviour





National Self-Harm Registry Ireland



To **establish the extent and nature** of hospital-treated 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 of self-harm

‘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’.

(Schmidtke et al, 2006)



2017 statistics at a glance

Presentations

11,600

Persons

9,103

+21%

2007

2017

Rates in young people
10-24 years increased by
21% between 2007-2017

RATES:

199

per 100,000

1 in every 503

had a self-harm act



Male: 20-24 year-olds
(505 per 100,000)

1 in every 198



Female: 15-19 year-olds
(758 per 100,000)

1 in every 132

PEAK
RATES
WERE
AMONG
YOUNG
PEOPLE

TIME:

Peak time



10pm



3am

7pm

Almost **half** of presentations
were made between 7pm-3am



Monday, Tuesday and Sunday
had the highest number
of self-harm presentations

METHOD:

2 in every 3
involved **overdose**



65%

3 in every 10
involved **alcohol**



33%

Men



29%

Women

1 in every 4
involved **self-cutting**



27%

TREATMENT:



72%

received an assessment in the ED



80%

received a follow-up
recommendation after discharge



12%

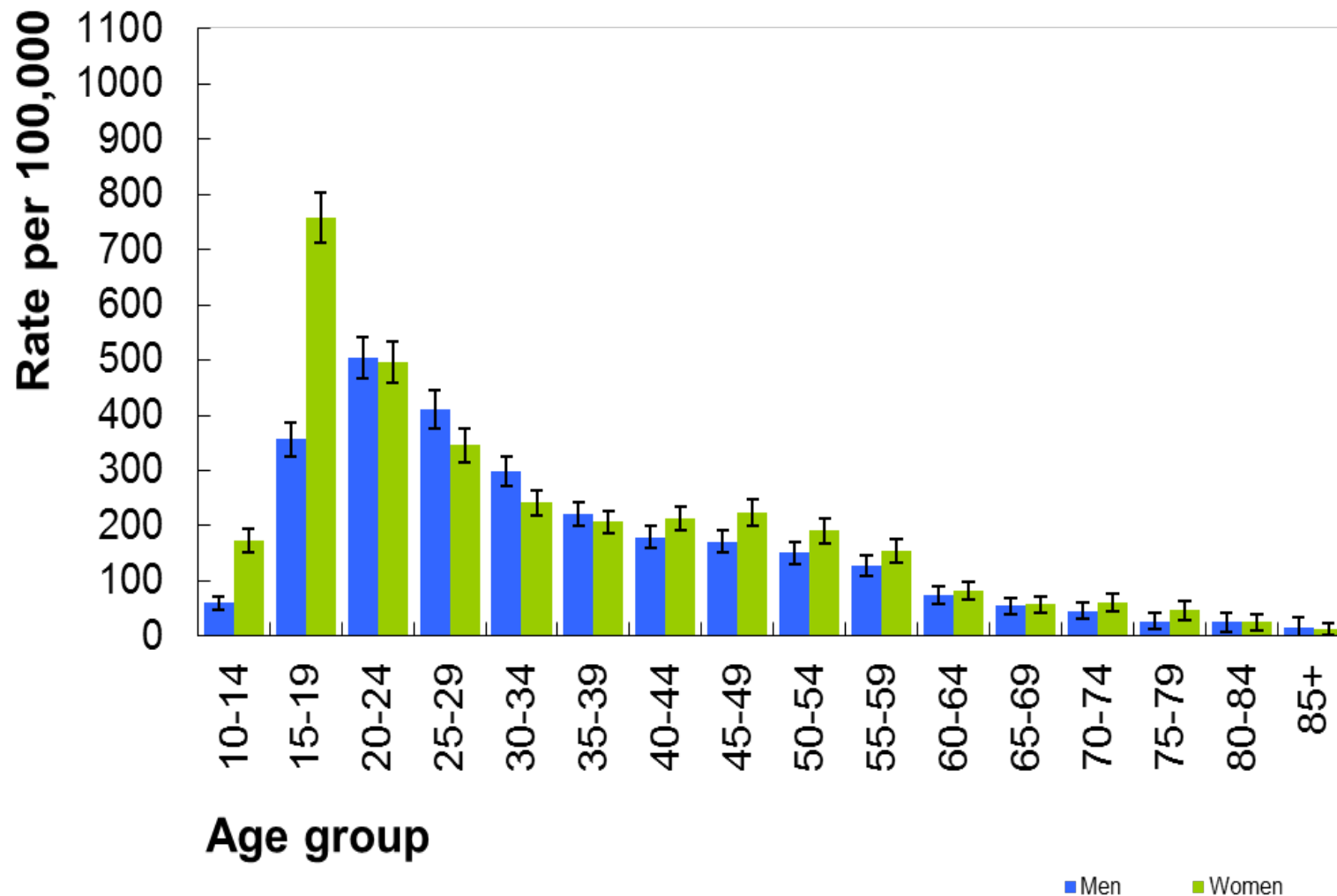
left ED before a
recommendation was made

1 in 7

persons had a repeat
attendance in 2017



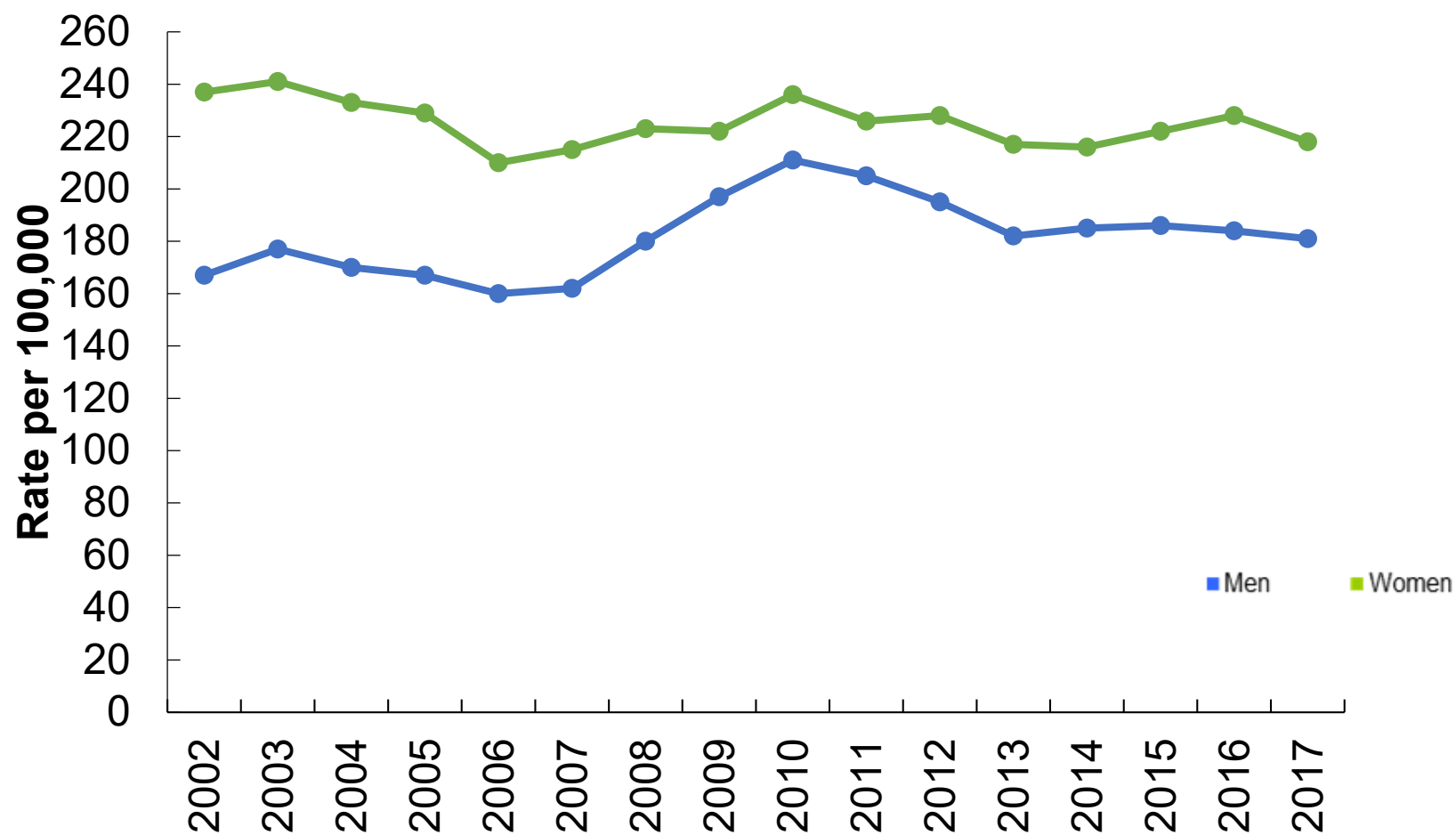
Self-harm by age and gender, 2017



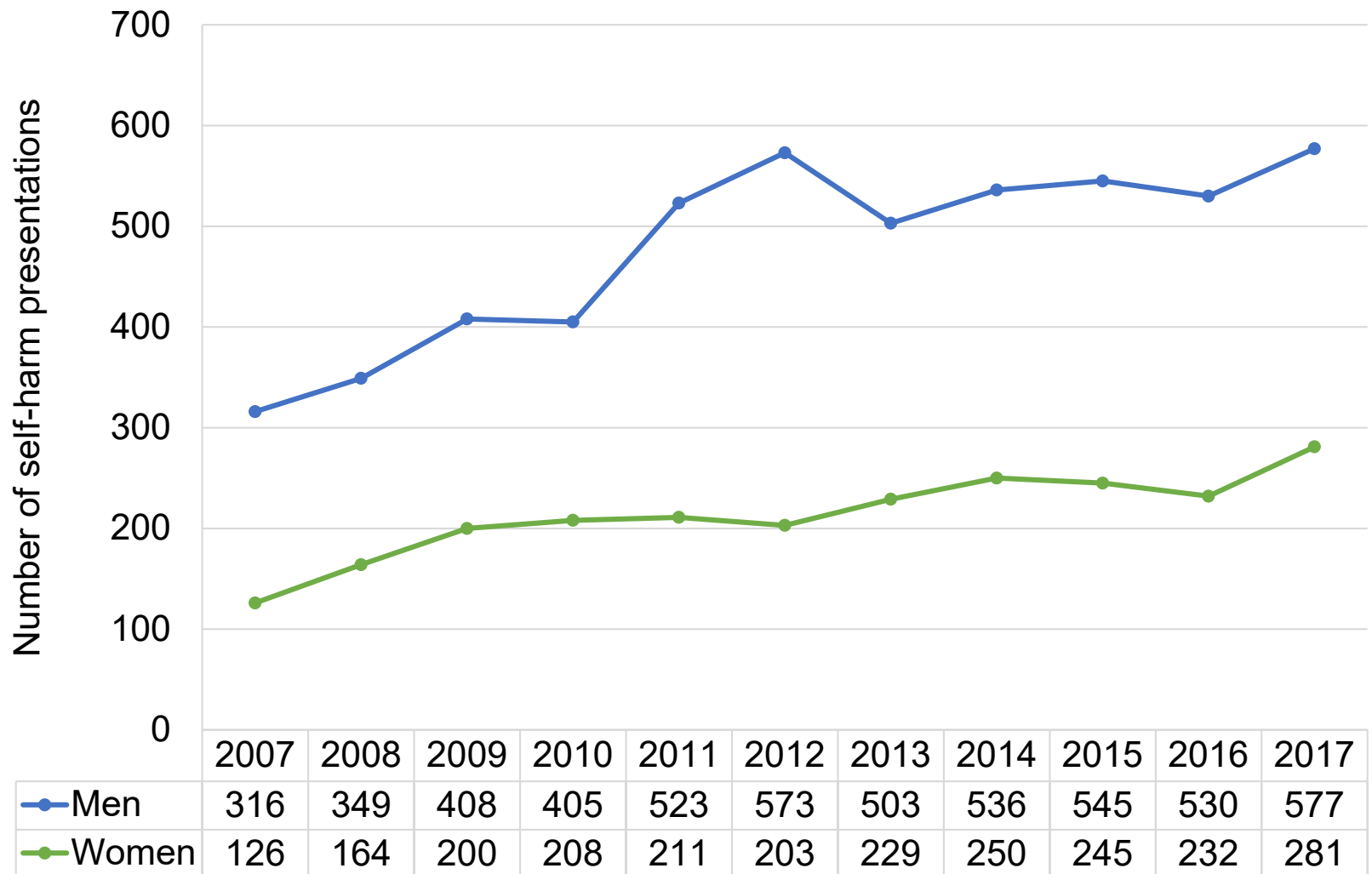


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Irish rate of self-harm, 2002-2017



Trends in highly lethal methods of self-harm



Self-harm among the homeless

- Rate of self-harm **x30 times higher**
- Male, older in age, self-cutting or more lethal methods
- More likely to involve minor tranquilisers, street drugs, opiates
- Factors associated with repetition: Self-cutting, no psychiatric review



Risk of suicide and external causes of death following self-harm, 2009-2011

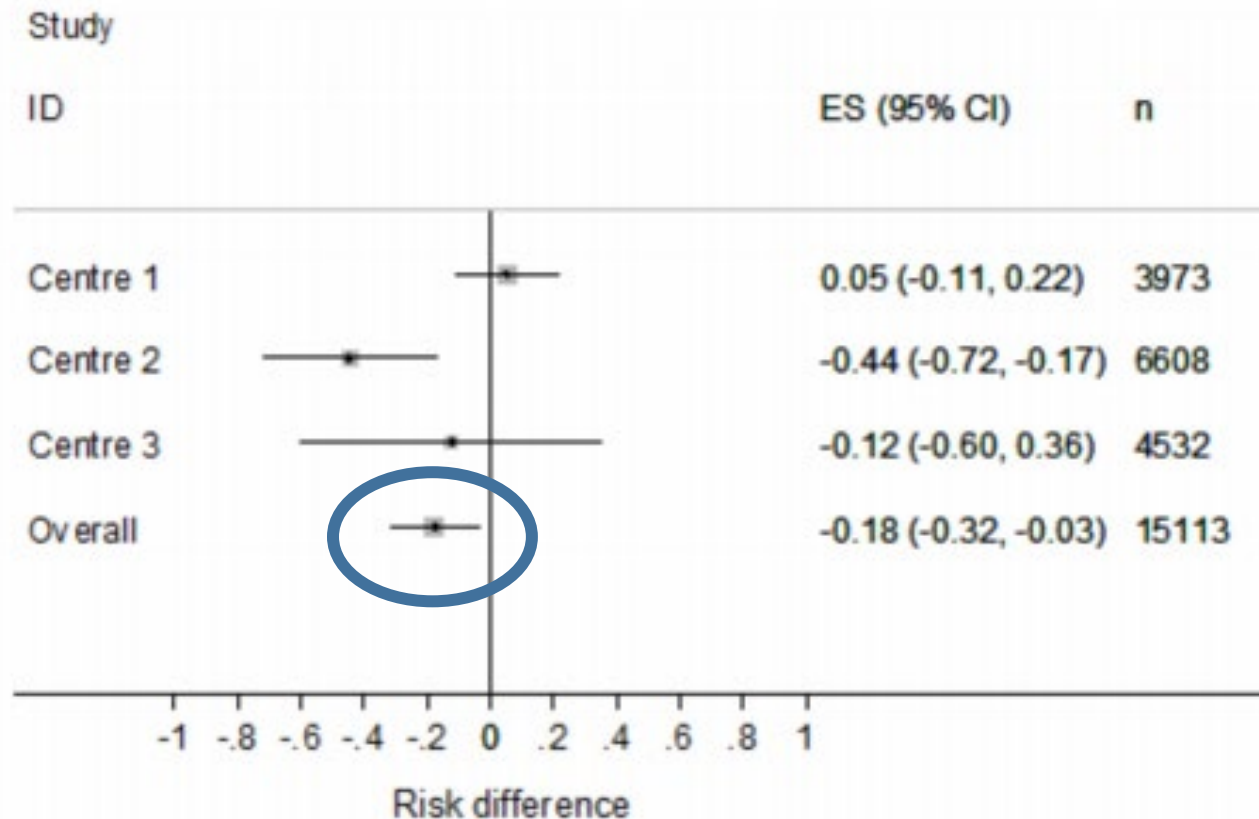
	All External Cause Mortality % (95% CI)	Suicide Mortality % (95% CI)	Non-Suicide Mortality % (95% CI)
Males	2.0 (1.7-2.3)	1.3 (1.1-1.5)	0.7 (0.6-0.9)
Females	0.7 (0.6-0.9)	0.4 (0.3-0.6)	0.3 (0.2-0.4)
All Persons	1.3 (1.2-1.5)	0.8 (0.7-1)	0.5 (0.4-0.6)

O'Farrell et al (unpublished)

Opportunity for intervention:

Clinical settings

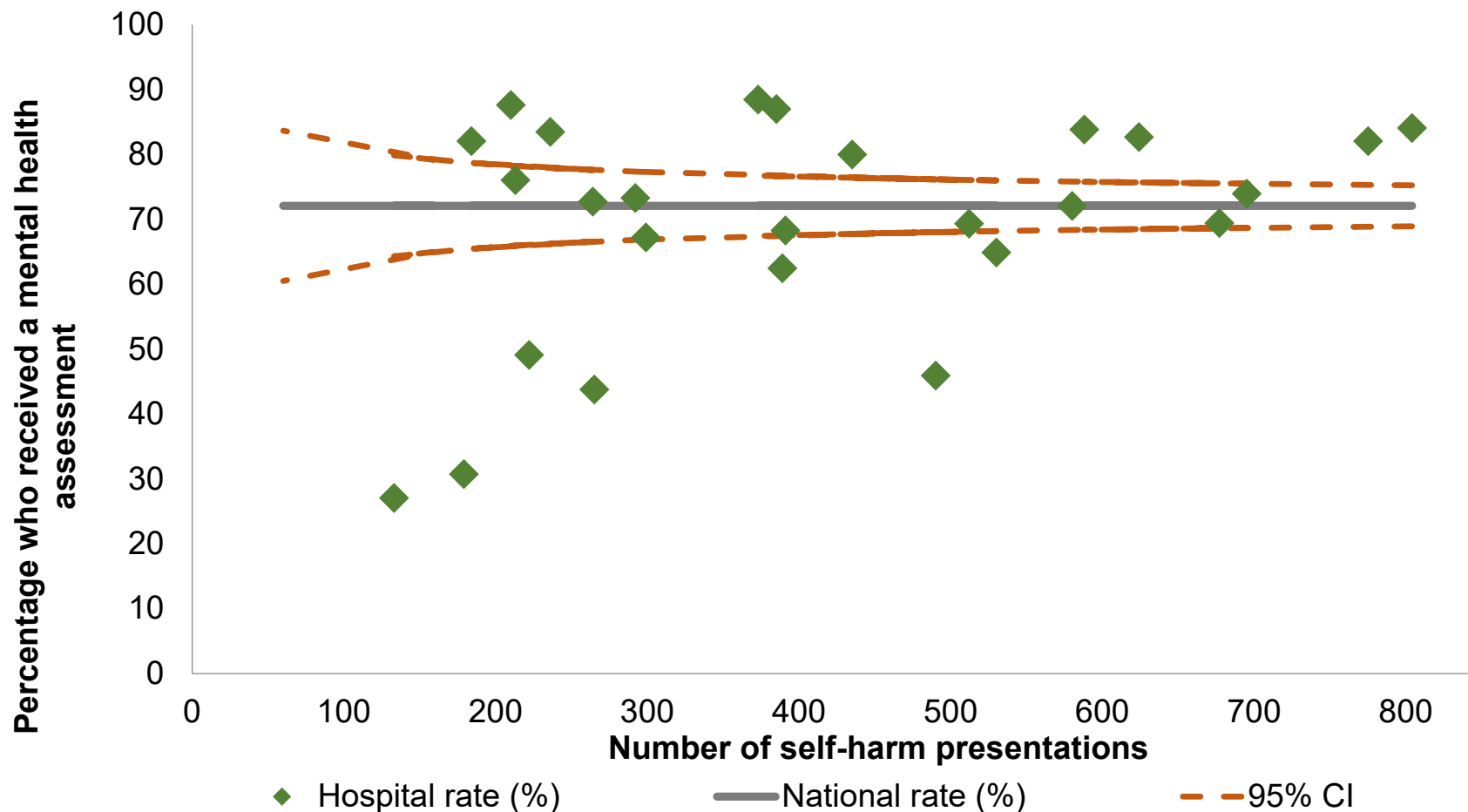
Hospital management of self-harm



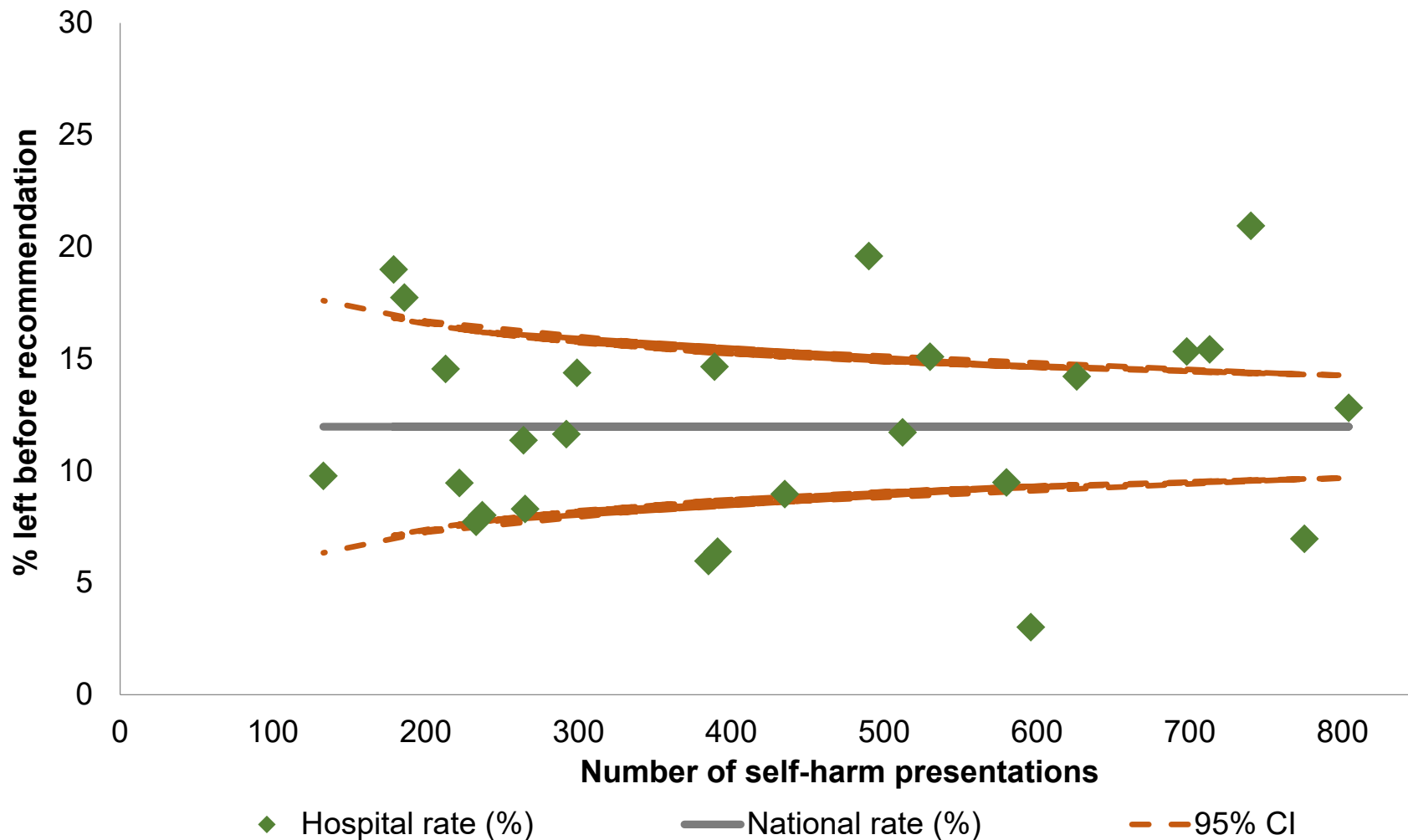
Protective effect of assessment Harmful effect of assessment

Fig 2. Instrumental variable estimates* of the risk difference in repeat self-harm between those who did, and did not receive a psychosocial assessment. * The overall estimate in this figure is the overall instrumental variable estimate, not the pooled estimate from a meta-analysis of the three individual centre estimates.

Provision of mental health assessments by hospital

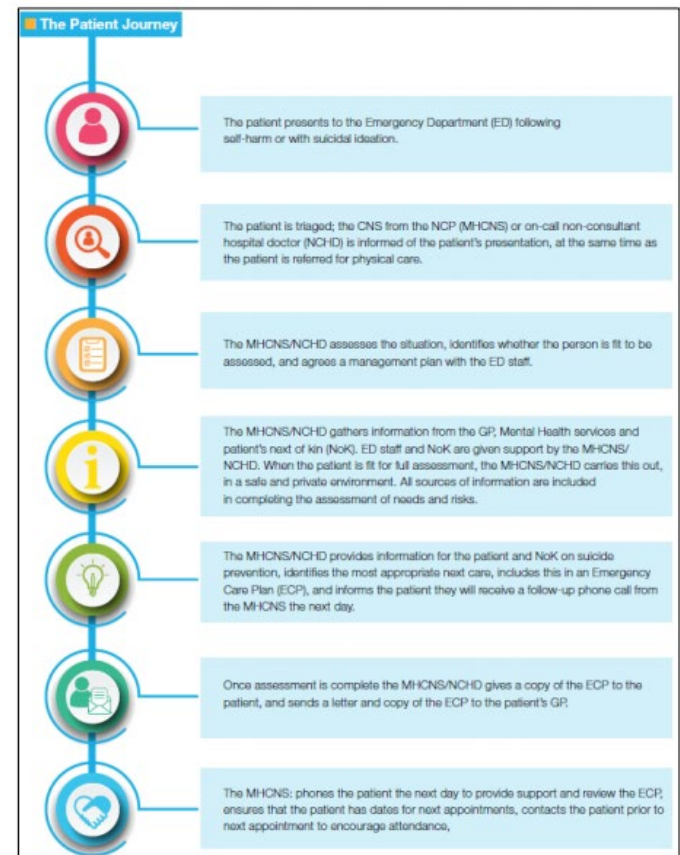


Leaving before recommendation following self-harm



Hospital management of self-harm – Ireland's National Clinical Programme (HSE, 2017)

- ▶ Mental health assessment conducted, including needs and risk
- ▶ Emergency Care Plan provided
- ▶ Involvement of NOK
- ▶ Follow-up phone call (24 hours)
- ▶ Letter to GP



Repetition of self-harm (2007-2015)

- Approximately **15% of patients** will represent with a further act of self-harm within 12 months

Number of presentations	Individual persons	% persons	Presentations	% presentations
1	49,788	77%	49,788	48%
2	8,307	13%	16,614	16%
3	2,911	5%	8,733	8%
4	1,358	2%	5,432	5%
5 or more	2,548	4%	23,804	23%
Total	64,912		10,4371	

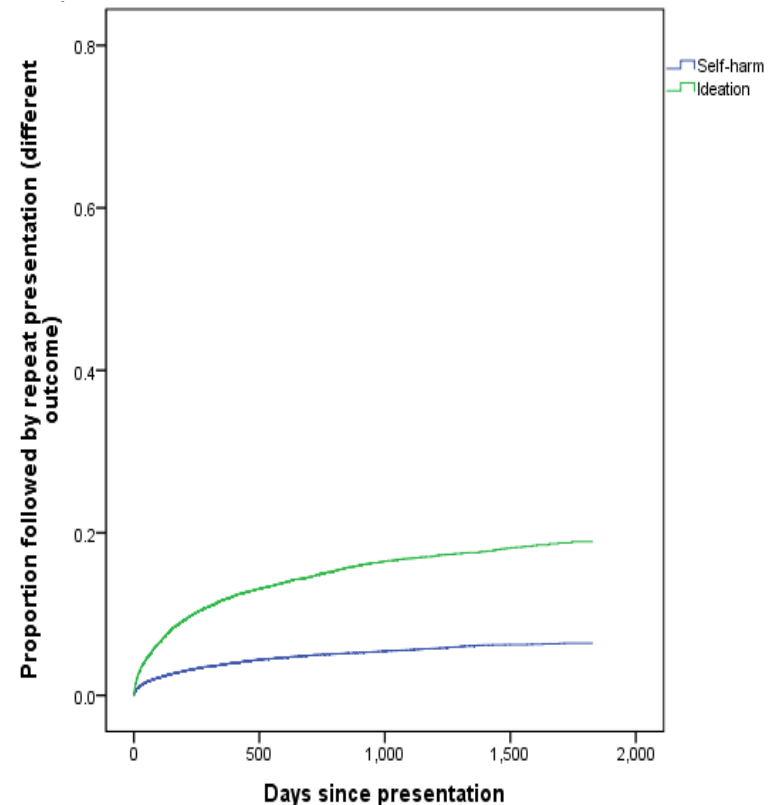
Factors associated with repetition of self-harm

Meeting Abstracts

- Self-cutting as first presentation
- Leaving before a recommendation
- Self-harm history
- Methods of high lethality (method escalation)
- People who present with thoughts of self-harm or suicide are more likely to repeat with self-harm (~20%)

Self-harm and suicide ideation presenters to hospital in Northern Ireland: a registry-based study

Eve Griffin, Brendan Bonner, Denise O'Hagan, Paul Corcoran



National Dialectical Behaviour Therapy Project (Flynn et al, 2018)



National Dialectical Behaviour Therapy Project (Flynn et al, 2018)

**Frequency of self-harm
6 months pre-intervention**

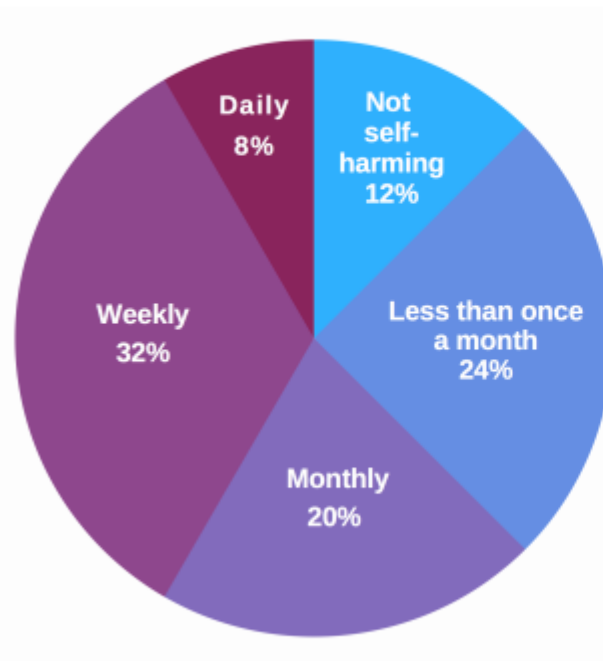


Figure 6.3 AMHS Participants: Frequency of Self-harm 6 months pre-intervention

**Frequency of self-harm
6 months post-intervention**

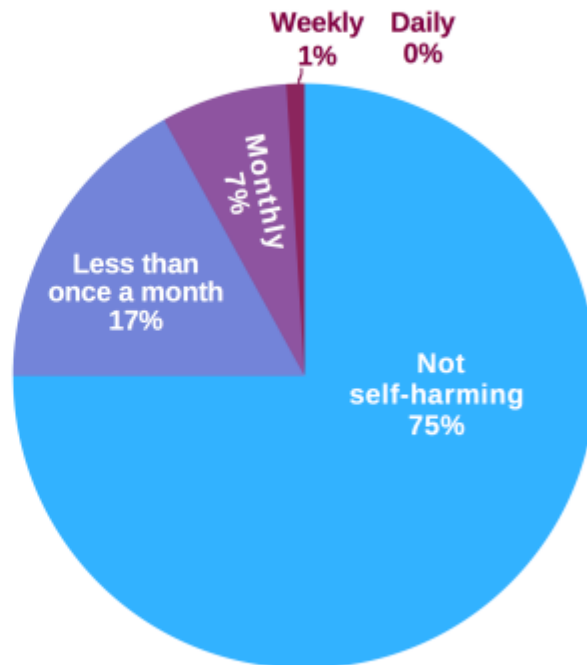
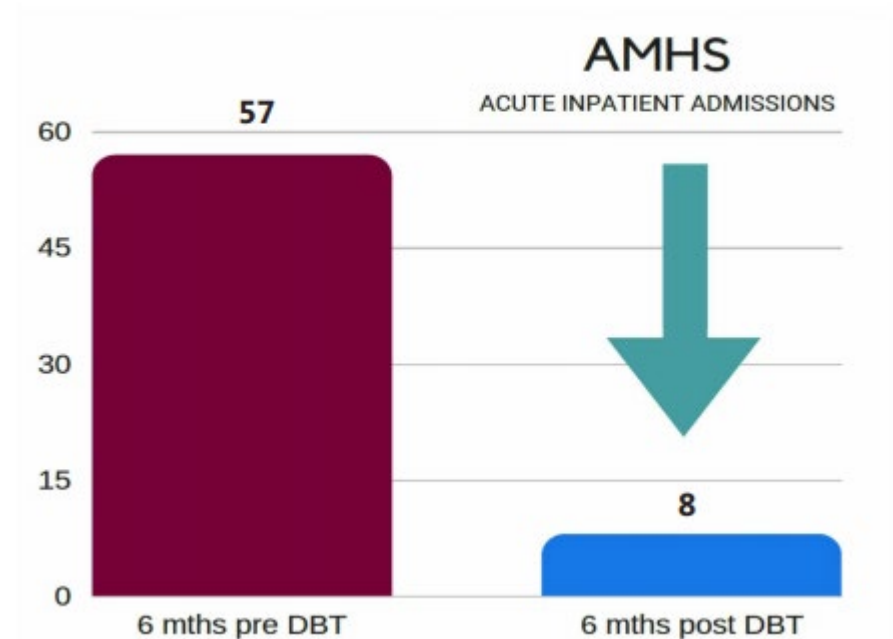
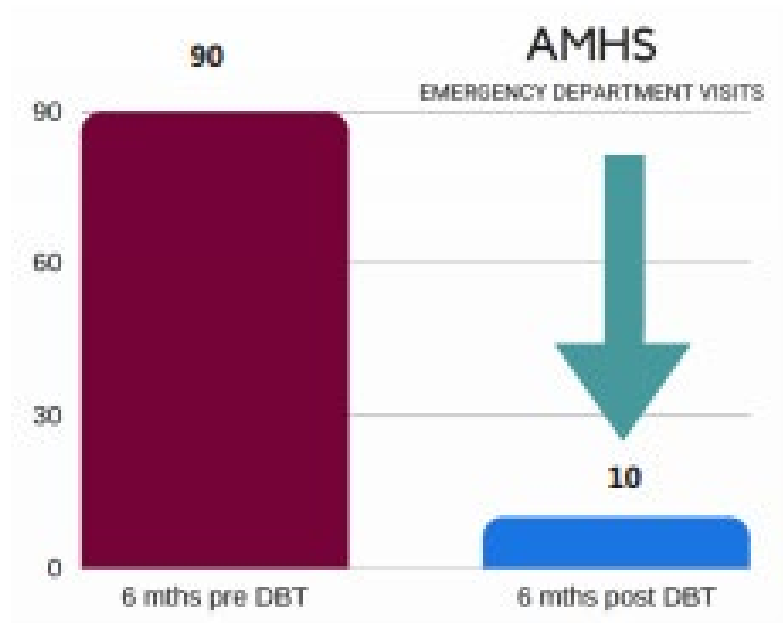


Figure 6.4 AMHS Participants: Frequency of Self-harm 6 months post-intervention

National Dialectical Behaviour Therapy Project (Flynn et al, 2018)



Opportunity to reduce incidence
of self-harm:

Population-based approaches



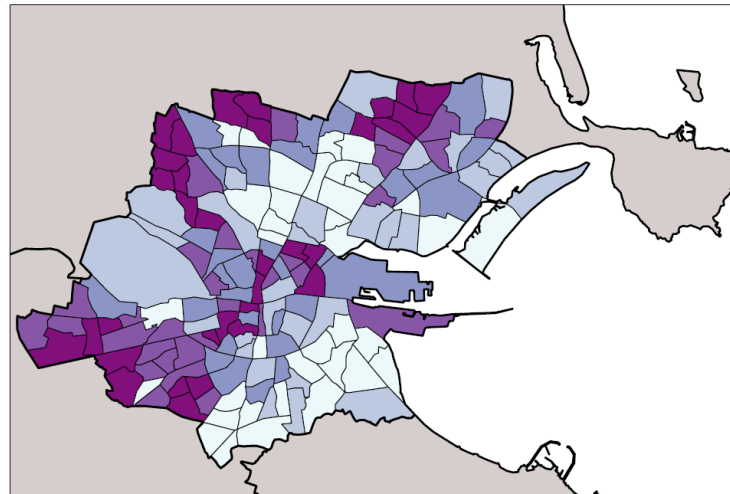
Original article

Impact of the economic recession and subsequent austerity on suicide and self-harm in Ireland: An interrupted time series analysis

Paul Corcoran,^{1,2*} Eve Griffin,¹ Ella Arensman,^{1,2} Anthony P Fitzgerald,² and Ivan J Perry²

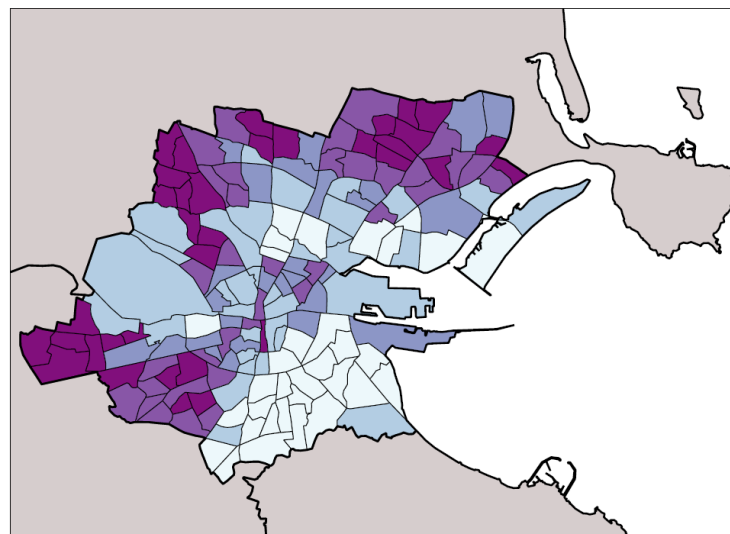
Scenario		Rate by end 2012				Cumulative excess over 2008–12
		Without recession	With recession	Difference (95% CI)	% difference	Number
A. If pre-recession trends continued	Suicide					Deaths
	Male	15.2	23.8	8.7*** (4.8 to 12.5)	57%	476*** (274, 678)
	Female	4.5	4.8	0.3 (–1.1 to 1.8)	7%	85 (–9, 180)
	Self-harm					Hospital presentations
	Male	241.9	316.0	74.1 (–6.3 to 154.6)	31%	5029* (626, 9432)
	Female	293.3	356.5	63.2* (4.1 to 122.2)	22%	3833* (321, 7345)

Area-level self-harm and deprivation, Dublin 2015-2017



Rate of self-harm (per 100,000)

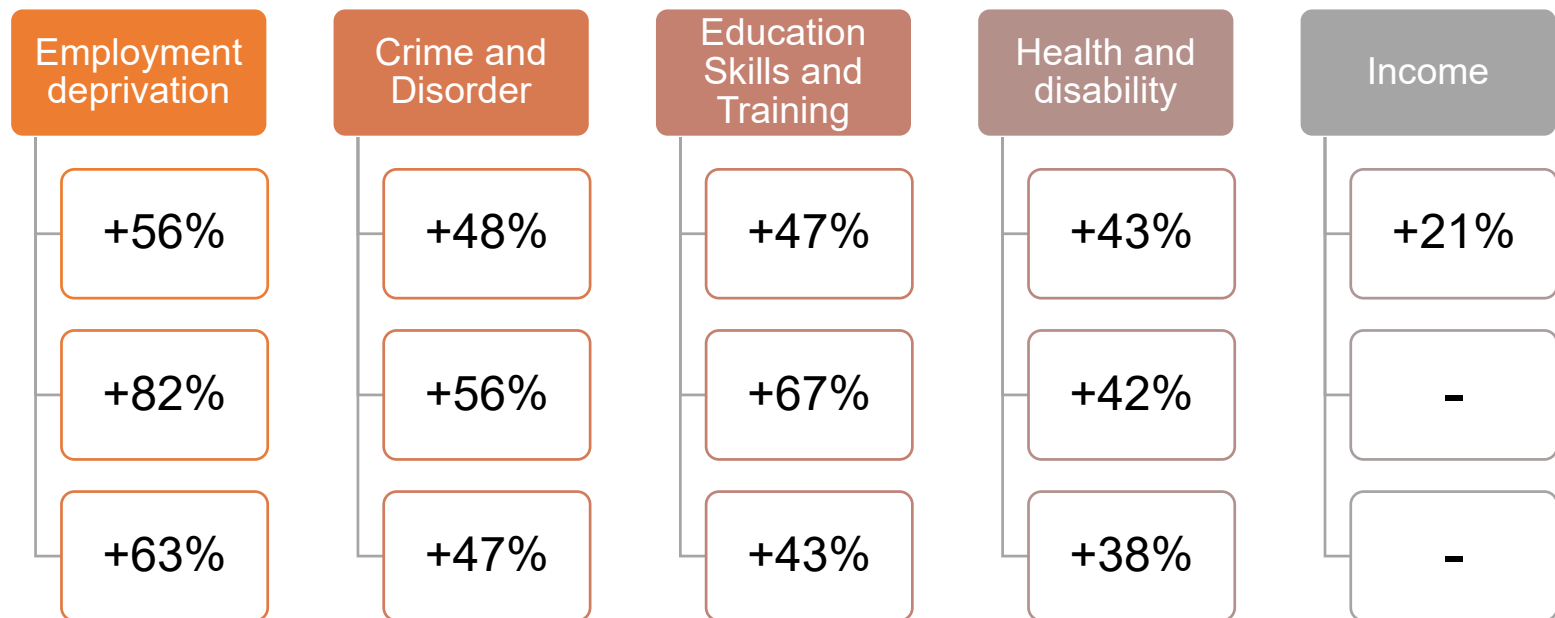
- Self-harm rate greater than 250
- Self-harm rate between 247 and 350
- Self-harm rate between 169 and 246
- Self-harm rate between 118 and 168
- Self-harm rate less than 118



Extent of deprivation

- Most deprived
-
-
-
- Least deprived

Self-harm in Northern Ireland: Aspects of deprivation



Griffin et al. European Journal of Public Health (in press).

Importance of high-quality, national data on mental health

Clinical care

Further integration of mental health services in acute settings

Routine management of self-harm and evidence-based interventions

Reducing self-harm at a population level

Self-harm is an important clinical issue but also a public health concern

More research needed on population approaches to reduce incidence of self-harm

Thank You!

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