

Aftercare for self-harm patients following presentations to Irish hospital emergency departments, 2004-2012

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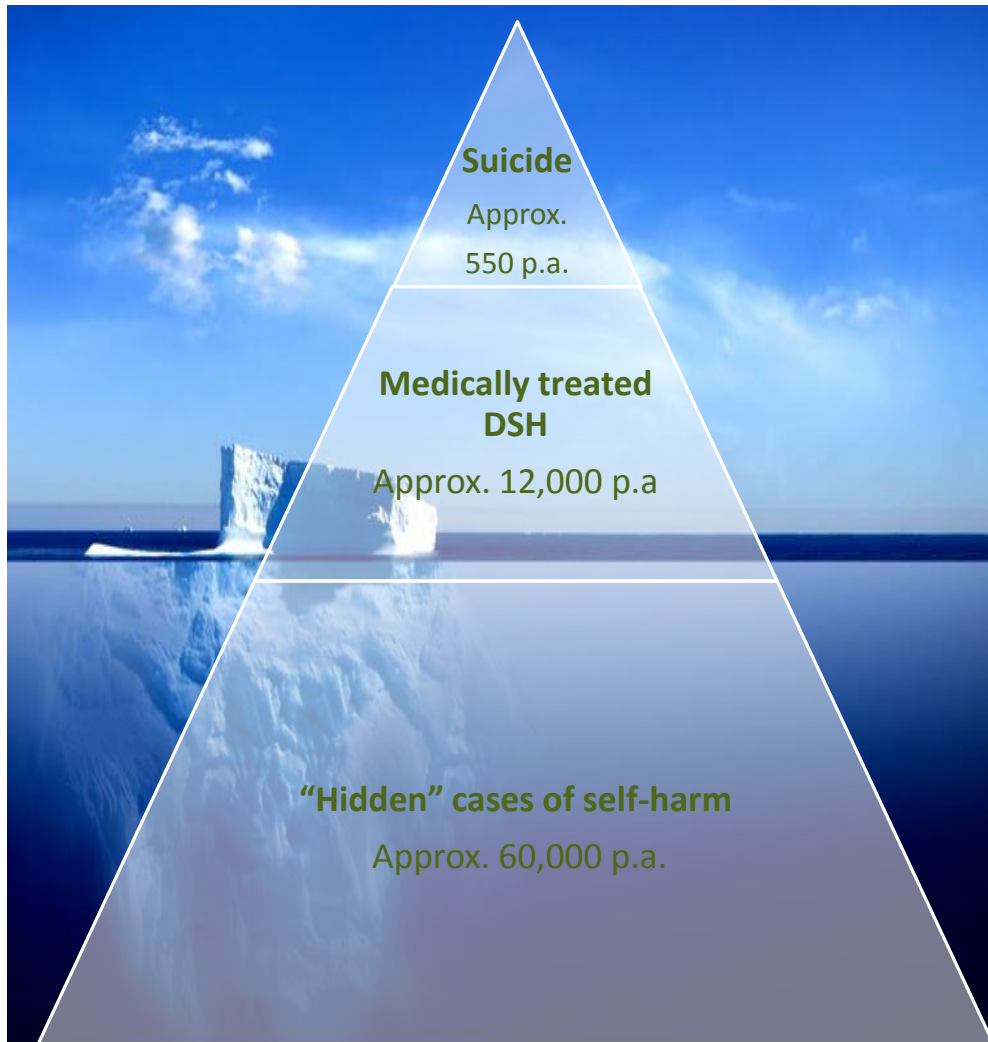
ESSSB 15,

15th European Symposium on Suicide and Suicidal Behaviour,

27-30 August, Tallinn



Hospital-treated self-harm



- In Ireland, approximately 12,000 presentations to EDs each year, involving 9,400 people
- Approximately 1.2m presentations annually (2012) (self-harm represents approx. 1%)
- One in five presentations are due to a repeat act

Source: Griffin et al, 2013



Background

- Clinical guidelines support standardised assessment and management of self-harm patients [NICE Guidelines (2011); American Psychiatric Association (2004); Guidelines of the Suicidal Behaviour Working Group in Ireland (Cassidy et al, 2012)]
- Management of self-harm patients has been associated with improved outcomes of self-harm patients (Bergen et al, 2010; Kapur et al, 2013)

NHS
National Institute for Health and Clinical Excellence

Self-harm: longer-term management

Issued: November 2011


NICE clinical guideline 133
guidance.nice.org.uk/og133

NHS Evidence
Approved product
NICE Evidence provided by NHS
www.nice.org.uk

Continuity of Care for Suicide Prevention and Research

2011

This report was commissioned by the Suicide Prevention Resource Center (SPRC) in collaboration with the Substance Abuse and Mental Health Services Administration (SAMHSA). David Lits, SPRC Director of Science and Policy, provided overall direction. Alan L. Berman, Executive Director of the American Association of Suicidology (AAS), led the administration of the project. David J. Knesper, M.D., Department of Psychiatry, University of Michigan, is the author.



Subsequent to Discharge from an Emergency Department or an Inpatient Psychiatry Unit


SAVING LIVES AND REDUCING HARMFUL OUTCOMES: CARE SYSTEMS FOR SELF-HARM AND SUICIDAL BEHAVIOUR

National Guidelines for the Assessment and Management of Patients Presenting to Irish Emergency Departments following self-harm

Subgroup of the Suicidal Behaviour Working Group

Dr Eugene Cassidy
Dr Ella Arensman
Dr Helen S Keeley
Dr Julie Reidy

March 2012



Background

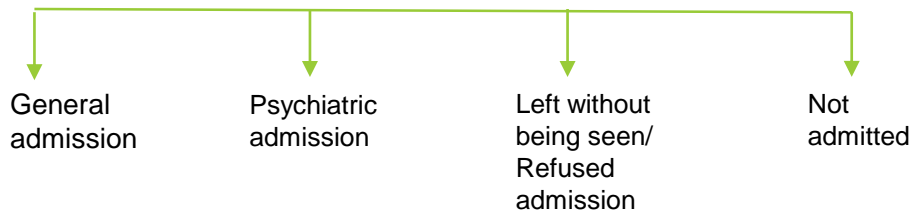
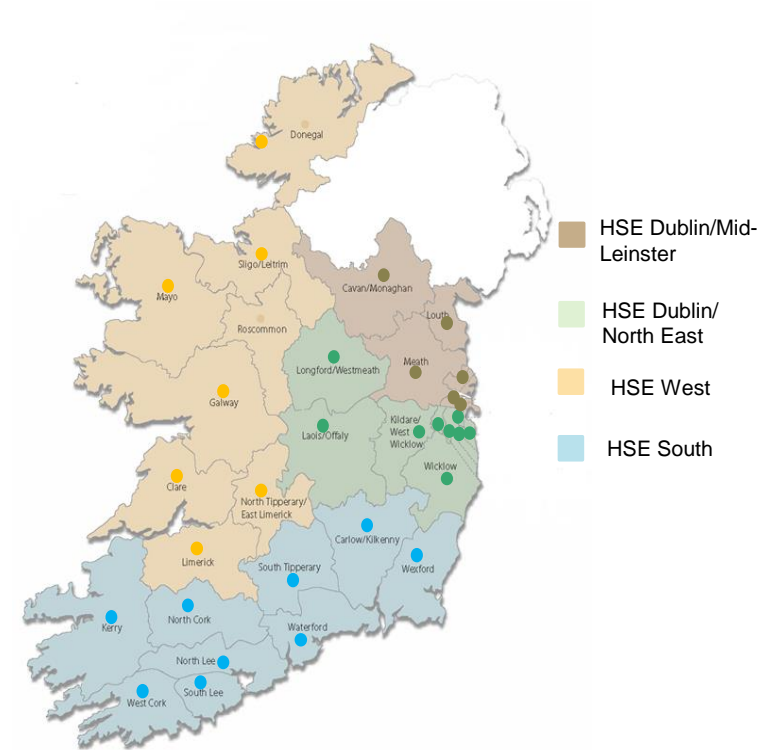
- Admission following aftercare has been shown to vary according to:
 - Method of self-harm, hospital, older age, previous history (Lilley et al, 2008; Bennewith et al, 2004; Suominen & Lonnqvist, 2006; Jimenez-Trevino et al., 2014)

- Previous studies have focused on factors associated with psychiatric hospitalisation in patients with suicidal ideation, following suicide attempts and self-poisoning (Baca-Garcia et al, 2004; Goldberg et al, 2007; Suominen & Lonnqvist, 2006; Kapur et al, 1998)

- Aims: To examine aftercare following self-harm for patients presenting to Irish EDs
 - a) The variation in aftercare of self-harm patients by standard demographics and clinical characteristics;
 - b) Regional and temporal variation in aftercare of self-harm patients
 - c) The factors which predict aftercare following self-harm

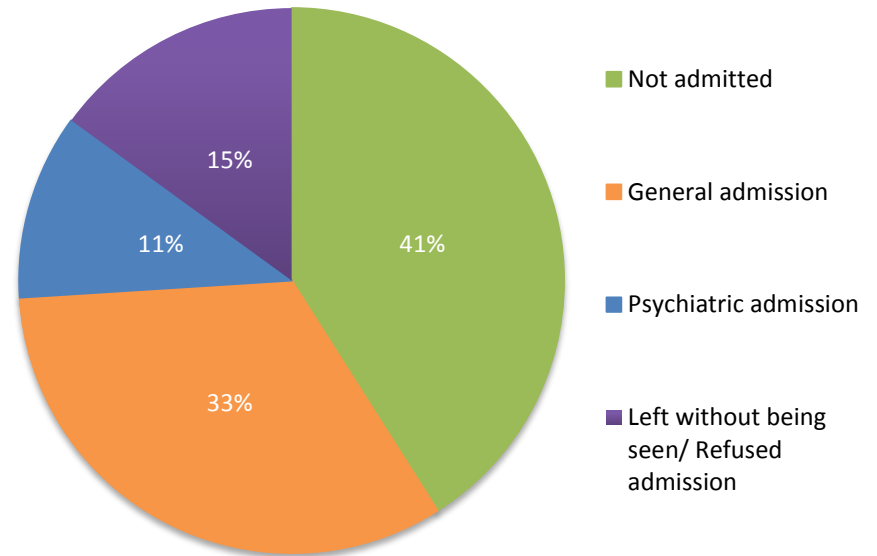
Study design

- Data: Self-harm presentation to all Emergency Departments in Ireland across an 8-year period (1 Jan 2004 to 31 Dec 2012)
- Methods: Univariate analysis and multinomial logistic regression
- Outcome variable: Aftercare



Results: Sample

- Over the 8-year period there were 101,904 presentations made to hospital recorded by the Registry, involving 63,457 individuals
- 55% (n=55,538) were female
- Drug overdose was the most common method of self-harm (72%, followed by self-cutting (22%))
- Most often, patients were discharged from the presenting hospital



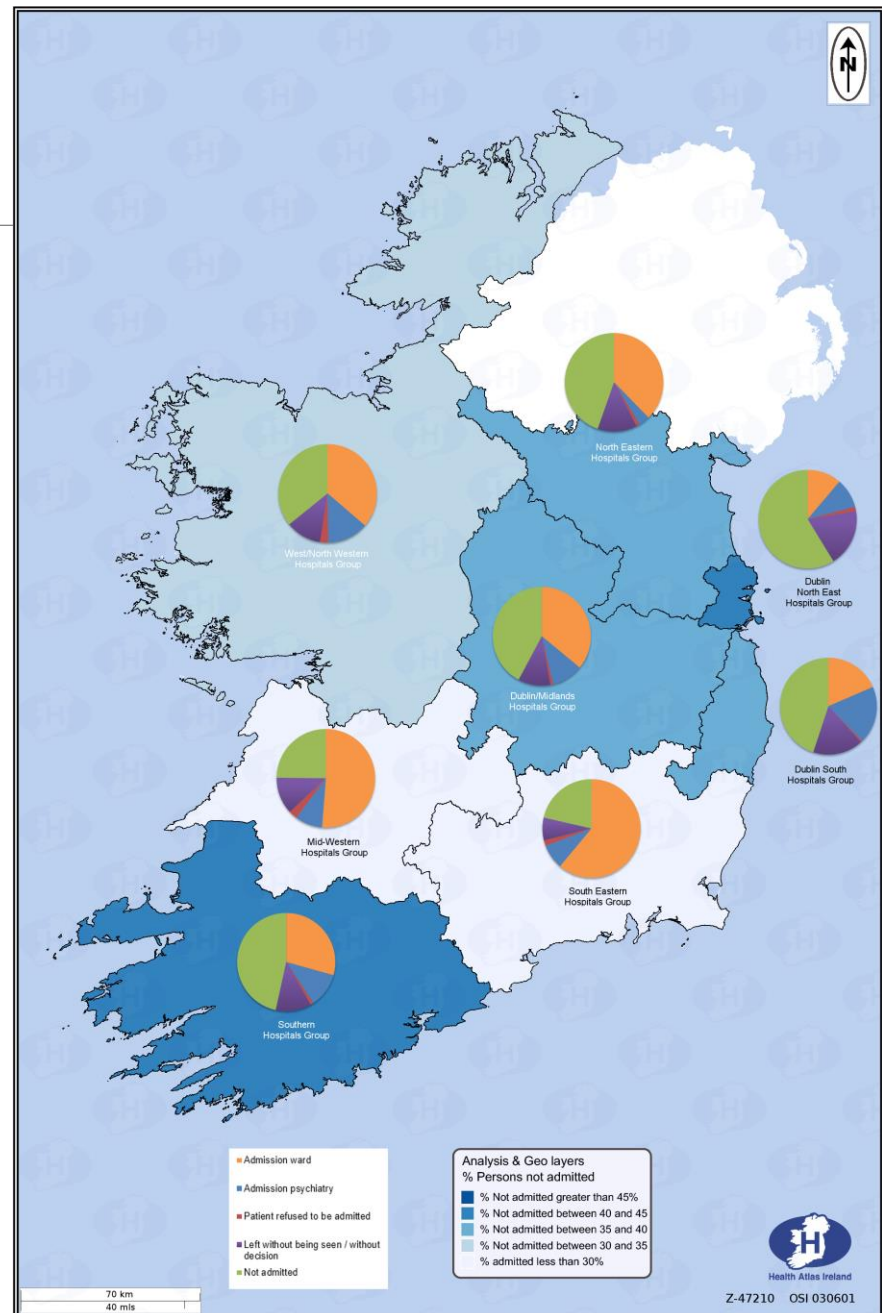
Aftercare by region

1. By Hospital

- General admission: 9% – 79%
- Psychiatric admission: 0% – 28%
- Left without being seen: 3% – 24%

2. By Hospitals Group

- General admission was lowest in Dublin North East (11%) and highest in South Eastern Group (61%)
- Dublin NE Group had highest proportion of patients leaving without being seen (19%)

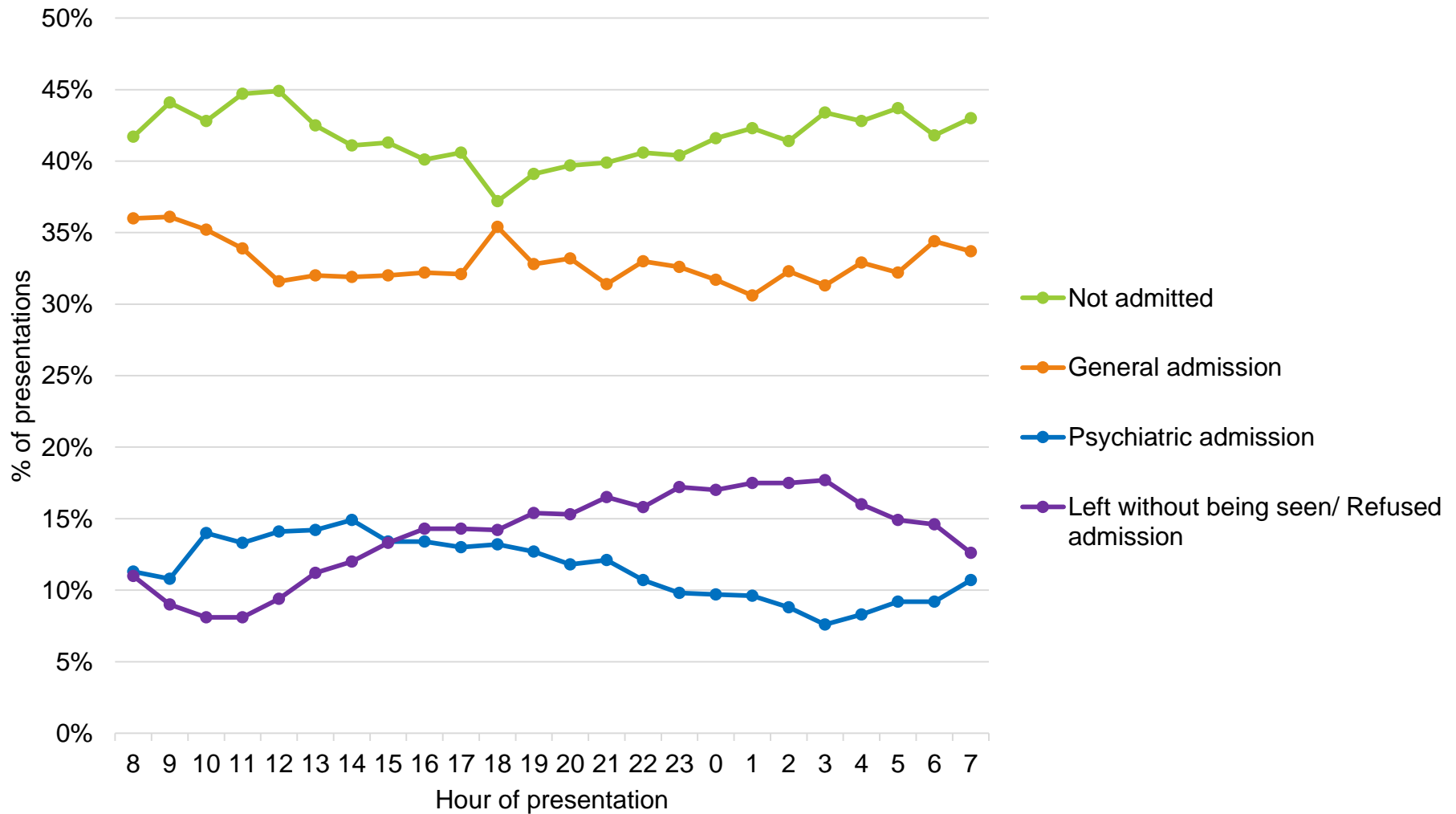


Trends in aftercare over time

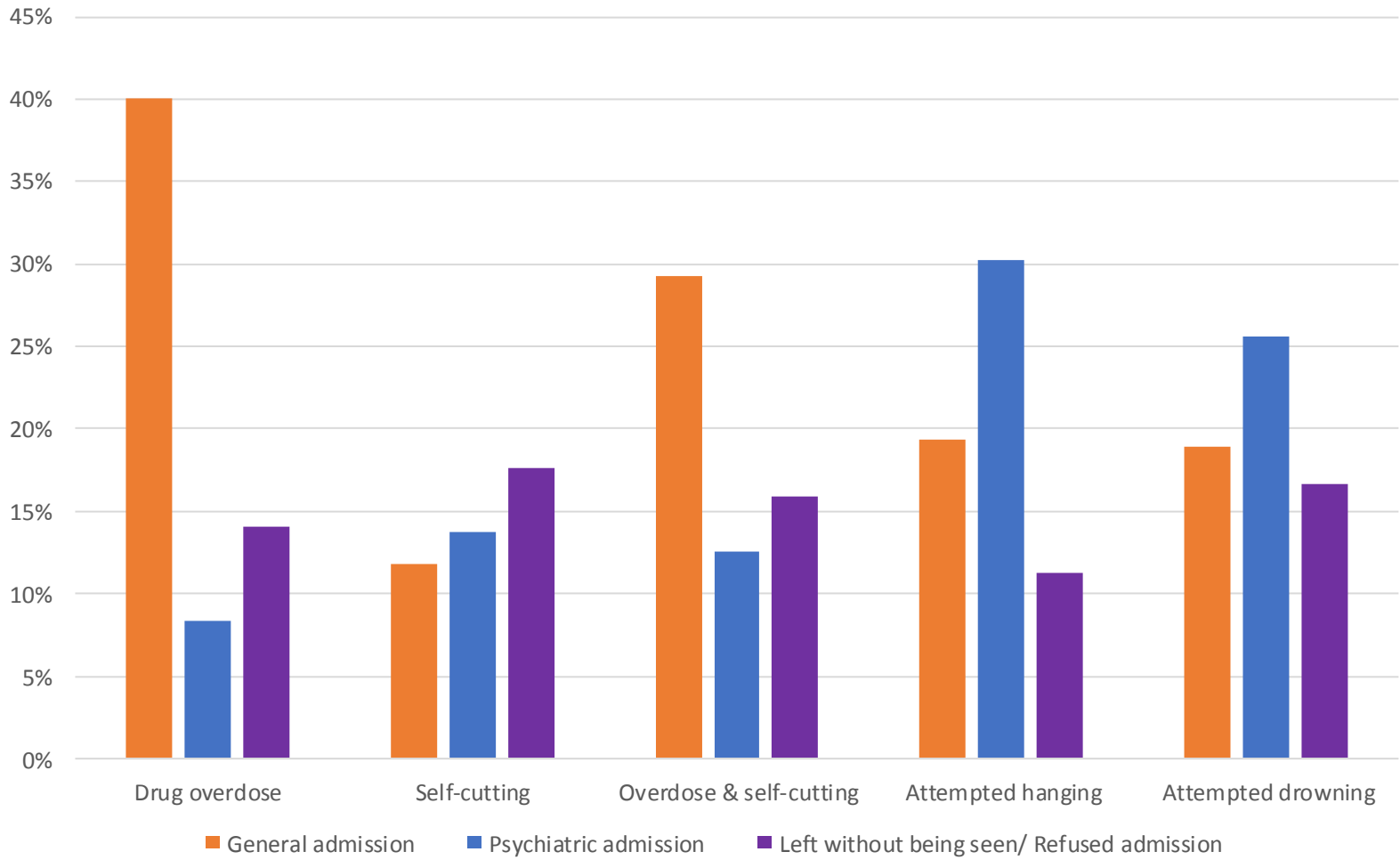
	Not admitted	% diff	General admission	% diff	Psychiatric admission	% diff	Refused admission/ Left without being seen	% diff
2004	30%	-	40%	-	15%	-	15%	-
2005	30%	-	40%	-	14%	-4	15%	+3
2006	37%	+23	35%	-13	13%	-9	15%	-4
2007	41%	+10	34%	-3	11%	-13	14%	-6
2008	44%	+8	33%	-4	10%	-9	13%	-6
2009	44%	+1	31%	-7	10%	-4	16%	+19
2010	44%	-1	30%	-3	11%	+8	16%	+1
2011	49%	+10	27%	-9	10%	-6	15%	-6
2012	48%	-2	28%	+3	10%	+3	14%	-1

χ^2 for trend(1)=46.14; p<0.001

Aftercare by time of attendance



Aftercare by method



Results: multinomial logistic regression (1)

		General admission	Psychiatric admission	Left without being seen/ Refused admission
Year of presentation	2004	Ref	Ref	Ref
	2005	1.01	0.92	0.98
	2006	0.68*	0.68*	0.75*
	2007	0.63*	0.48*	0.61*
	2008	0.55*	0.41*	0.55*
	2009	0.50*	0.40*	0.62*
	2010	0.49*	0.44*	0.65*
	2011	0.43*	0.36*	0.55*
	2012	0.44*	0.38*	0.55*
Time of attendance	midnight < 4am	0.95	0.85*	1.00
	4am < 8am	0.97	0.87	0.85*
	8am < noon	1.10	1.11	0.54*
	noon < 4pm	0.94	1.20*	0.71*
	4pm < 8pm	1.03	1.18*	0.94
	8pm < midnight	Ref	Ref	Ref

The presenting hospital was the variable which was most associated with aftercare



* = p<0.001; ref group (outcome) = Not admitted

Results: multinomial logistic regression (2)

		General admission	Psychiatric admission	Left without being seen/ Refused admission
Gender	Male	1.10*	1.15*	1.30*
	Female	Ref	Ref	Ref
Age	<15	1.11	0.18*	0.48*
	15-24	0.45*	0.43*	1.01
	25-34	0.57*	0.71*	1.28*
	35-44	0.66*	0.80*	1.39*
	45-54	0.80*	0.88*	1.38*
	55+	Ref	Ref	Ref
Residence	Household resident	Ref	Ref	Ref
	Hospital inpatient	1.75*	9.61*	0.47*
	Homeless	0.67*	0.80*	1.14*
	Prisoner	0.39*	0.05*	0.25
City Resident	Yes	0.90	1.00	1.28*
	No	Ref	Ref	Ref

* = p<0.001; ref group (outcome) = Not admitted

Results: multinomial logistic regression (3)

		General admission	Psychiatric admission	Left without being seen/ Refused admission
Presentation number	1 st	Ref	Ref	Ref
	2 nd	1.13*	1.44*	1.20*
	3 rd	1.12*	1.63*	1.32*
	4 th	1.11	1.67*	1.38*
	5 th plus	0.96	1.64*	1.64*
Method	Drug overdose only	Ref	Ref	Ref
	Self-cutting only	0.16*	0.99	0.77*
	Drug overdose and self-cutting	0.70*	1.45*	0.92
	Attempted hanging	0.45*	4.00*	0.75*
	Attempted drowning	0.36*	2.95*	0.93
	Other	0.57*	2.04*	0.82*
Alcohol	Yes	0.95	0.68	1.24*
	No	Ref	Ref	Ref
Weekend presentation	Yes	Ref	Ref	Ref
	No	0.97	1.00	0.98

* = p<0.001; ref group (outcome) = Not admitted

Discussion

- Over the study period, a declining number of presentations result in inpatient admission to the presenting hospital following self-harm
- Large proportion of presentations (15%) leave the ED without being seen or refuse admission
- Being male, older age, method, chronicity/recidivism, time of attendance, residence all affect aftercare in Ireland
 - Presenting hospital matters most of all
- Admission to a psychiatric ward may reflect availability of psychiatric teams
- Repeaters leaving the ED without recommendation suggests a gap in services

Limitations

- Lack of knowledge about self-harm history
- No information on psychosocial assessment of self-harm patients
- No information on referrals made for patients not admitted to the emergency department

Recommendations

- Variation in aftercare pose a challenge for the assessment and management of self-harm
- There is need for uniform assessment and referral procedures, in line with international best practice, to ensure the most appropriate treatment
- Need for the implementation of national evidence informed training programmes to address attitudes, knowledge and confidence of hospital staff
- Further research is required among people who present to hospital following self-harm and who subsequently leaving without an assessment and recommendation for next care

Thank You!

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Research Foundation