Self-harm and suicide in young people: Associated risk factors and evidence based interventions

Connecting for Life Dublin North City and County Midterm Review Conference

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Overview

- Extent of suicide and self-harm among adolescents and young adults
- Risk factors associated with self-harm and suicide among adolescents and young adults, and cases
- Psychotherapeutic interventions for self-harm in adolescents and young adults
- Suicide contagion and clustering
- Young people's experiences and perspectives









Extent of the problem of self-harm in adolescents and young adults

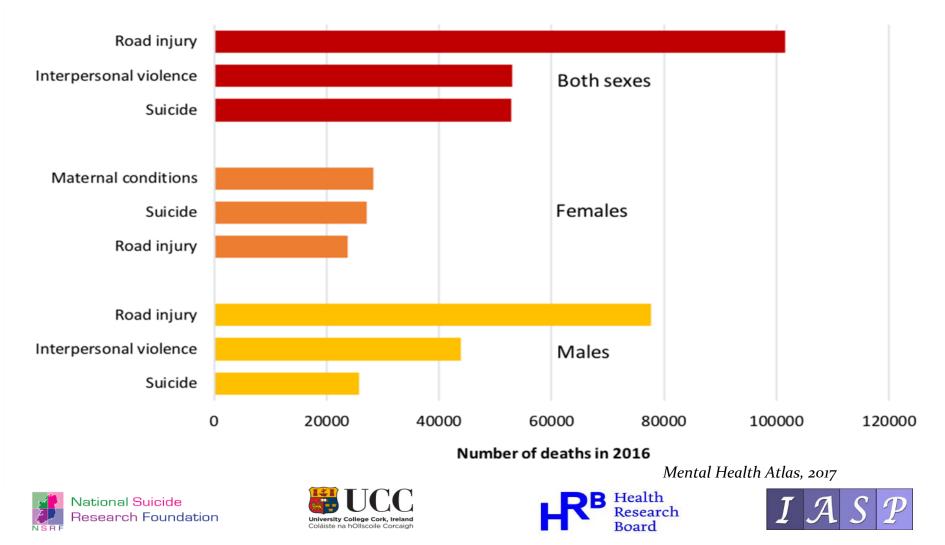








Leading causes of death among young people aged 15-19 years at global level (WHO, 2017)



Self-harm presentations in Ireland (NSHRI, 2019)



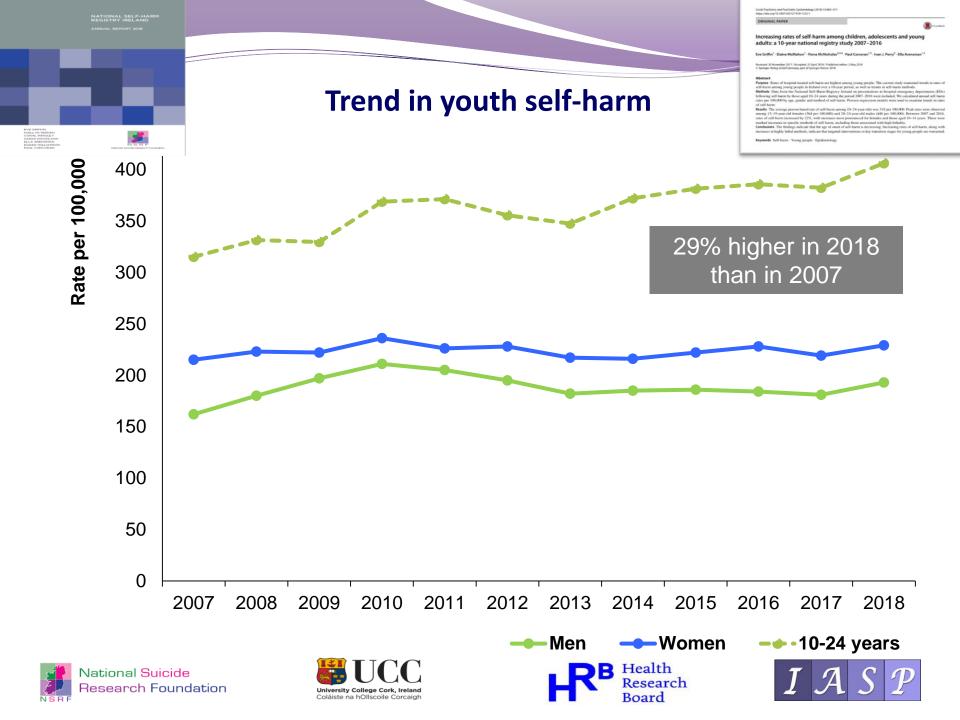
NSRF, 2019

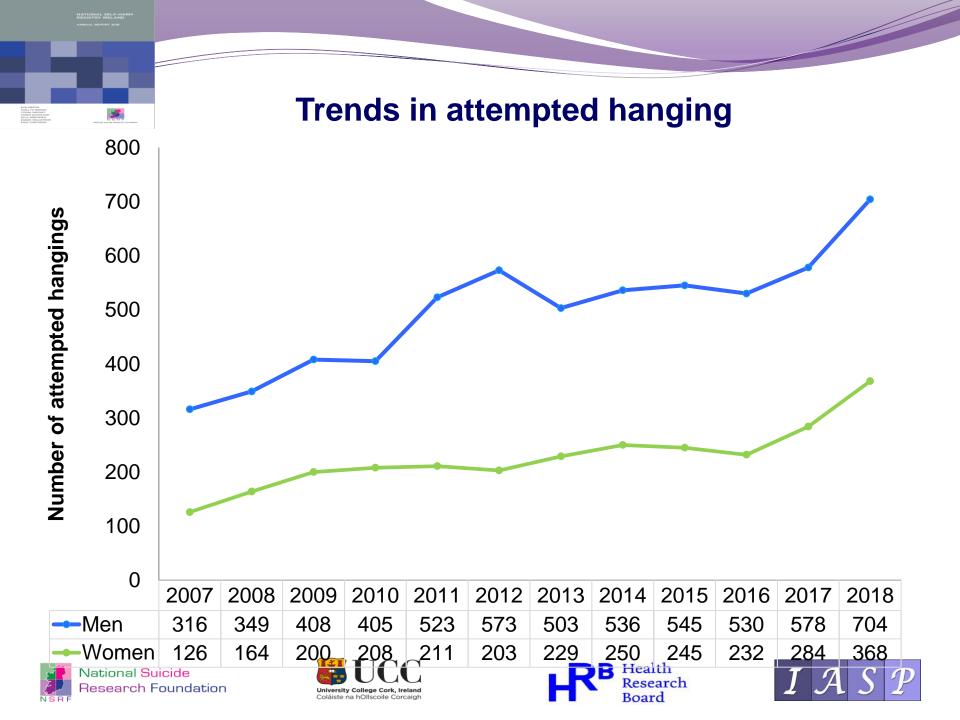


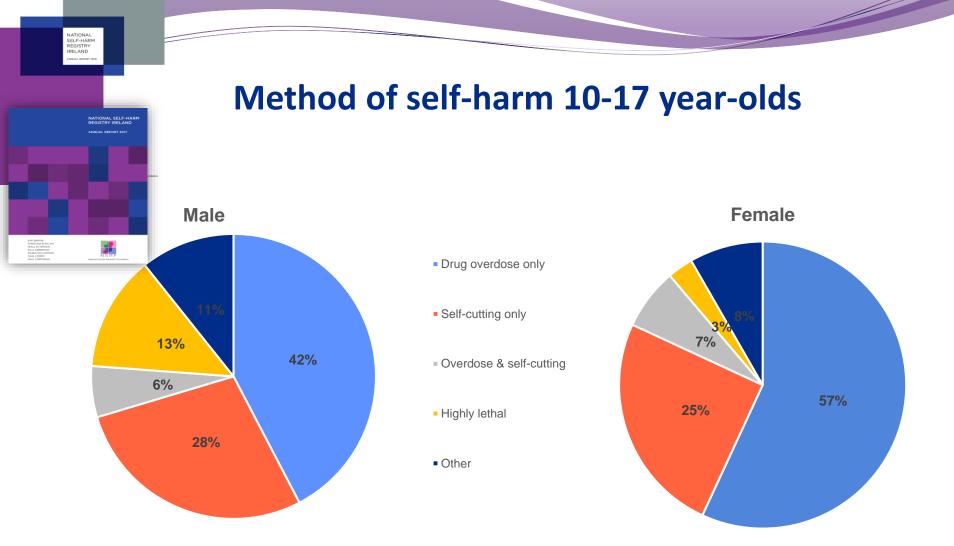












Alcohol was involved in 11% of presentations (15% for boys, 10% for girls)











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Risk factors associated with self-harm in adolescents

Girls

- Substance abuse, including alcohol and drug abuse
- Self-harm by friends and family members
- Sexual abuse and physical maltreatment
- Problems related to sexuality
- Problems with parents
- Bullying and Cyberbullying
- Difficulties in making keeping friends
- High levels of depressive symptoms
- Sleep problems





Boys

- Substance abuse, including alcohol and drug abuse
- Self-harm by friends and family members
- High levels of anxiety
- High levels of impulsivity
- Problems related to sexuality
- Bullying and Cyberbullying
- Problems with school work
- Sleep problems

McMahon et al, 2013; Hysing et al, 2015







St PolicyBristo

Priorities for suicide prevention: balancing the risks and opportunities of internet use

Dr Lucy Biddle, Dr Jane Derges, Prof David Gunnell (University of Bristo Dr Stechanie Stace, Jacoul Morrissey (Samaritane)

Balancing the risks and opportunities of internet use

- In a population survey of 21 year olds, of the 248 participants who had made suicide attempts (6% of the overall sample), almost three quarters reported some kind of suicide-related internet use at some point in their lives
- One in five had accessed sites giving information on how to harm yourself or take your life. In addition, help-sites were accessed as well.

Biddle et al, 2016

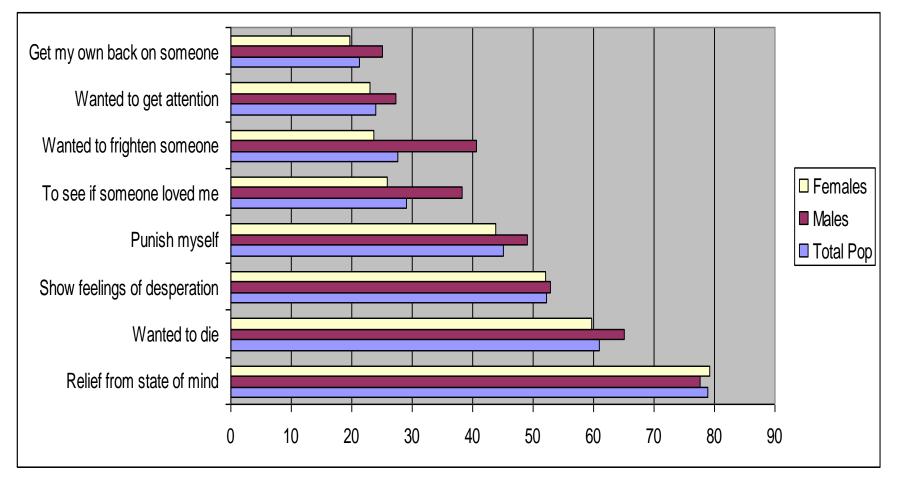








Motives related to self-harm by gender among adolescents





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Scoliers et al, 2009; Rasmussen et al, 2016





The importance of understanding Ambivalence

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

Bermans et al, 2009; 2017



- I said to myself, If somebody comes up to me and says, 'Are you okay? Is something wrong? Can I help you?' I was going to tell them my whole life story and they were going to make me safe."
- A suicidal person needs to hear: "That we care about you, your life does matter and that all we want is for you to stay," he says. "If someone had looked at me on that bridge or that bus and said that to me, I would have begged for help." Kevin Hines

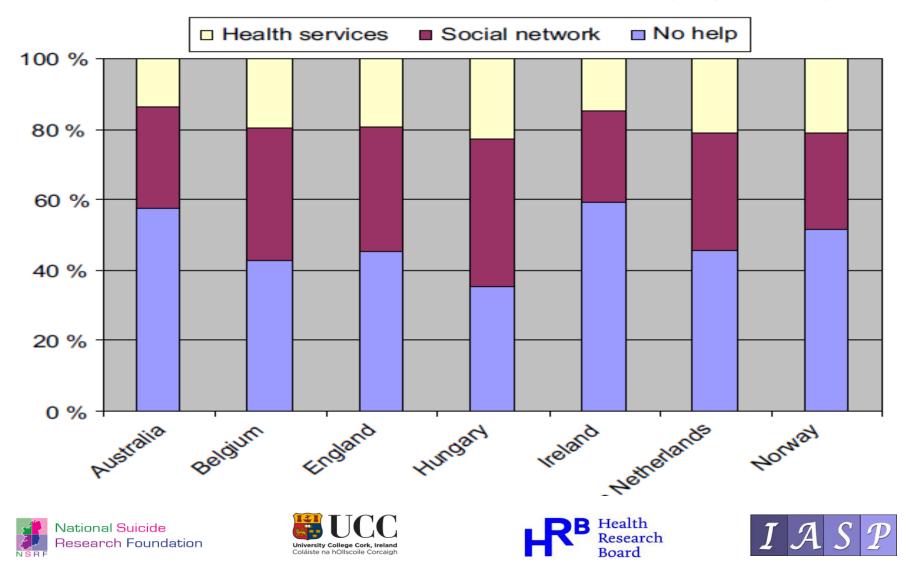




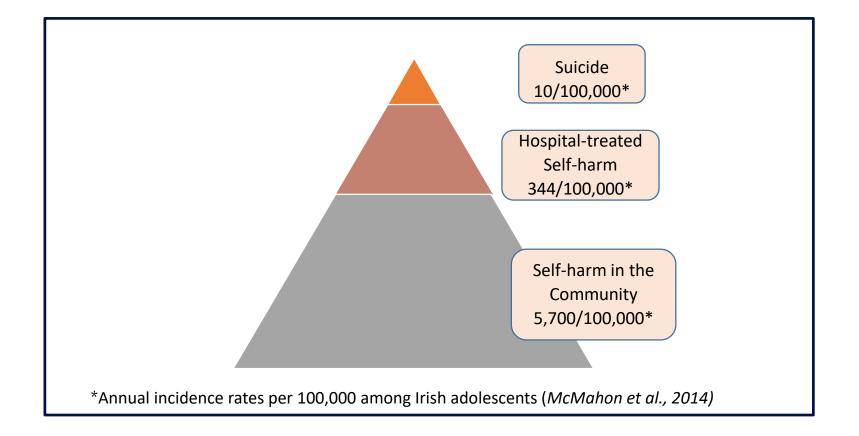




Proportion of adolescents with self-harm who receive help from health services, social network or no help by country



Suicide and medically treated self-harm in adolescents -The tip of the iceberg











School-based and psychotherapeutic and interventions for self-harm in adolescents and young adults











- The Youth Aware of Mental Health programme (YAM), a school-based intervention of short duration (5 h in 4 weeks), was significantly more effective in preventing new cases of suicide attempts and severe suicidal ideation, including planning, than no intervention (the control group)
- The reported reduction in incident suicide attempts was more than 50% with YAM than for the control group
- In SEYLE, the YAM not only prevented suicide attempts, but it also reduced new cases of severe suicidal ideation, including suicide planning—all important markers of poor psychological wellbeing
- The design of the YAM, aimed at changing pupils' negative perceptions and improving their coping skills in the management of adverse life events and stressors, which often are triggers of suicidal behaviour, could account for its significant effects











Young People's perspectives

School-based individual support

"Show them there is always someone there to help"

Peer discussion groups

"A group where kids can sit and discuss problems freely"

> "Maybe someone else feels the same and would like to help"



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School-based mental health education

"More mental health classes"

"Get someone who had a problem to give a talk in school"

Anonymous support

"Write down problems privately and a teacher can discuss them in front of the class"





Psychotherapeutic interventions for self-harm in adolescents and young adults

- Cognitive Behaviour Therapy Individual and Group-based psychotherapy
- Dialectical Behaviour Therapy for Adolescents (DBT-A)
- Home-based family therapy
- Brief compliance enhancement





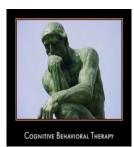


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Articles

What is known about CBT as a therapeutic intervention for adolescents and young adults

- CBT has resulted in significant reductions in self-harm, depressed mood and trait anxiety among adolescents and young adults (Oldershaw et al, 2012; Taylor et al, 2011; Esposito-Smythers et al, 2011; Brent et al, 2009; Slee et al, 2008; Hawton et al, 2016)
- A risk reduction and relapse prevention approach to treatment, in addition to integrated CBT and DBT techniques has proven effective (*Brent et al, 2009*)



• A time-limited cognitive-behavioural intervention, has proven efficacy for patients with recurrent and chronic self-harm (*Slee et al, 2008*)









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

- *Connecting for Life*, Ireland's National Strategy to Reduce Suicide, 2015-2020
- National Clinical Programme for the Assessment and Management of Patients Presenting to Emergency Departments following Self-Harm











Suicide contagion and clustering in young people









Historical evidence of contagion of suicide

1774: *"The Sorrows of Jung Werther"* – JW Von Goethe

 Following publication of the novel, indications for imitative suicides among young men in Germany, and in Denmark and Italy – "The Werther Effect"

1962: Marilyn Monroe

12% increase in suicide in the month following her death by suicide.

1988: TV film of railway suicide of a 19-year old male student

 A tv film showing the railway suicide of a young men was followed by a 175% increase in railway suicides in young men over 70 days after broadcasting.

Phillips, 1974; Schmidtke & Häfner, 1988; Halgin et al, 2006











Evidence of copycat suicides and suicide attempts/ self-harm

Families blame '13 Reasons Why' for the suicides of 2 teens in California (US), April 2017)

Netflix officials defend 13 Reasons Why against claims it glamourises suicide



Dylan Minnette and Katherine Langford in 13 Reasons Why









Netflix drama series blamed for inspiring teens' suicide and attempted suicide (Austria), May 2017

'13 Reasons Why' copycat suicide in Peru, June 2017

Increase in teen suicidal behaviour linked to '13 Reasons Why', Toronto, June 2017

Further consistent research outcomes

JAMA Psychiatry | Original Investigation

Association of Increased Youth Suicides in the United States With the Release of 13 Reasons Why

homas Niederkrotenthaler, MD, PhD, MMSc, Steven Stack, PhD; Benedikt Till, DSc: Mark Sinyor, MSc, MD; Jane Pirkis, PhD: David Garcia, DSc: Jan R. H. Rockett, PhD, MPH: Ulrich S. Tran, DSc

IMPORTANCE On March 31, 2017, Netflix released the show 13 Reasons Why, sparking immediate criticism from suicide prevention organizations for not following media recommendations for responsible suicide portraval and for possible suicide contagion by media. To date, little research has been conducted into the associations between the show and suicide counts among its young target audience.

📇 Editorial page 891 Author Audio Interview

OBJECTIVE To analyze the changes in suicide counts after the release of 13 Reasons Why.

DESIGN, SETTING, AND PARTICIPANTS For this time series analysis, monthly suicide data for the age groups 10 to 19 years, 20 to 29 years, and 30 years or older for both US males and females from January 1, 1999, to December 31, 2017, were extracted from the Centers for Disease Control and Prevention's WONDER (Wide-ranging Online Data for Epidemiologic Research) database. Twitter and instagram posts were used as a proxy to estimate the amount of attention the show received through social media from April 1, 2017, to June 30, 2017. Autoregressive integrated moving average time series models were fitted to the pre-April 2017 period to estimate suicides among the age groups and to identify changes in specific suicide methods used. The models were fitted to the full time series with dummy variables for (1) April 2017 and (2) April 1, 2017, to June 30, 2017. Data were analyzed in December 2018 and January 2019.

MAIN OUTCOMES AND MEASURES Suicide data before and after the release of the show in 2017.

RESULTS Based on social media data, public interest in the show was highest in April 2017 and was negligible after June 2017. For 10- to 19-year-old males and females, increases in the observed values from April to June 2017 were outside the 95% confidence bands of forecasts. Models testing 3-month associated suicide mortality indicated 66 (95% CI, 16.3-115.7) excess suicides among males (12.4% increase. 95% CI, 3.1%-21.8%) and 37 (95% CI, 12.4-61.5) among females (21.7% increase; 95% CI, 7.3%-36.2%). No excess suicide mortality was seen in other age groups. The increase in the hanging suicide method was particularly high (26.9% increase; 95% CI, 15.3%-38.4%).

CONCLUSIONS AND RELEVANCE Caution must be taken in interpreting these findings: however, the suicide increase in youth only and the signal of a potentially larger increase in young females all appear to be consistent with a contagion by media and seem to reinforce ed for collaboration toward improving fictional portravals of suicide



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Impact of the Netflix series 13 Reasons Why:

- Excess suicides in females and males in the age group 15-19 years from April to June 2017 in the US, in particular for suicide involving hanging.
- Evidence supporting the need for public health and suicide experts to engage with the entertainment industry.

(Niederkrotenthaler et al, 2019)







Reasons Why Not

- The graphic nature of reporting and the reporting of specific details of highly lethal methods involved can trigger copycat cases; the effects of exposure on suicidal behaviour and violence are well-documented.
- Revenge suicide is relatively rare; revenge motive is reported by a minority of young people who self-harm.
- Evidence based information on positive mental health promotion and help-seeking for mental health problems, was not taken into account.
- There are elements of glorifying and romanticising suicide, which may further impact on vulnerable people who are considering suicide or self-harm.













Specific aspects associated with online media and risk of suicide contagion

 Online series and social media can be accessed at all times, which increases viewing patterns, such as 'marathon' or 'binge watching'.



 This can further intensify the over-identification with people who take their lives (real-life and fictional), and therefore increase the negative impact on vulnerable people.









Characteristics of people involved in suicide contagion and clusters

Comparing cluster suicides to singleton suicide cases

- Younger age
- More frequent loss of friends/family members through suicide (complicated grief and PTSD)
- More often drugs in toxicology (in particular benzodiazepines)
- More often history of alcohol and drug abuse
- Less frequently left a suicide note
- More often disconnected from parents

(Haw et al, 2012; Larkin & Beautrais, 2012; Malone, 2013; Arensman et al, 2016)









How to respond to emerging suicide clusters and contagion

There is a gap in evidence-based guidelines detailing appropriate response strategies to suicide clusters and the low-frequency nature of clusters makes it difficult to evaluate strategies

Current best practice guidelines for responding to emerging clusters – the core elements

- Preparedness Response team and core response plan should be available as part of a routine procedure
- Clarity on leadership/co-ordination of response team
- Multidisciplinary response team comprised of qualified representatives of all relevant agencies, incl. mental health services, suicide bereavement support services, social work, police, media
- Inter-agency protocols (if available) should be put in place in order to address referral procedures, confidentiality and information sharing
- Involvement of specialised staff of suicide prevention agencies and mental health professionals trained in dealing with severe traumatic incidents, post traumatic stress and complicated grief
- Response plan needs to address different phases:
 - Immediate aftermath: Up to 1 week
 - Reactive period: 1 week up to 1 month
 - Outreach period: weeks up to years (incl. anniversaries)



Specific challenges related to self-harm and suicide in young people

- Self-harm more frequently observed among children and adolescents at younger age (e.g. Ireland, UK, US, Australia, Japan)
- Shift in use of more highly lethal methods of self-harm at younger age, and method escalation over shorter period of time
- More emphasis on evidence based mental health promotion and programmes addressing positive coping skills at younger age
- Improved access to mental health services for children and adolescents at risk of self-harm and suicide
- More insight required into impact of harmful social media platforms and sites on self-harm and suicide











Documentary "My other Life"



https://vimeo.com/293985609

https://www.youtube.com/watch?v=EhwXUyM9V7g









Suicide Support and Information Informing and Supporting People Affected by Suicide

www.suicidesupportandinformation.ie



Suicide Support and Information

Developed by the **National Suicide Research Foundation** and funded by the Health Research Board (HRB) this website provides evidence based information on bereavement following suicide and responding to people at risk of suicide. The information is tailored for people bereaved by suicide and for health professionals, including GPs and mental health professionals, as well as the general public.

The evidence base represents up-to-date information from international systematic reviews and outcomes of a HRB funded study: *Psychosocial, psychiatric and work related factors associated with suicide in Ireland: A case-control study (SSIS-ACE).*

The **Suicide Support and Information** website is a timely resource, which meets a key objective of the Irish National Strategy for the Reduction of Suicide, **Connecting for Life**, 2015-2020: To enhance accessibility, consistency and care pathways of services for people vulnerable to suicidal behaviour.

Home

Bereaved Family Members

- Grief and Meaning Making After a Suicide Death
- Grieving Family and Friends
- Practical Advice in the Aftermath of a Suicide
- Support After a Suicide

General Practitioners

- Aetiology and Risk Factors for Suicidal Behaviour
- Responding to a Suicide Death
- Responding to People at Risk of Suicide

Edit

"People who attempt suicide don't want to die, wat they want is a different life"

(Wieg, 2003; Zwagerman, 2015)











Go Raibh Maith Agat!

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