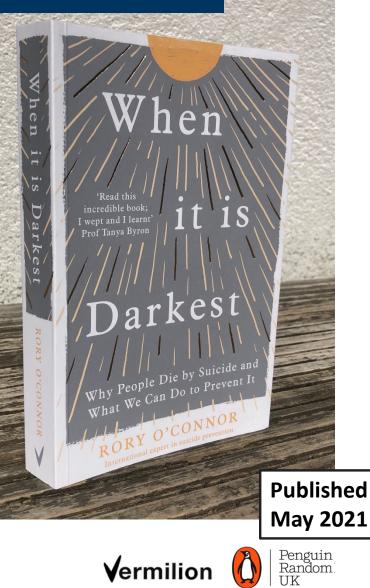
University | Institute of Health of Glasgow | & Wellbeing

### When It Is Darkest Understanding Suicide Risk

Rory O'Connor PhD CPsychol AFBPsS FAcSS President, International Association for Suicide Prevention Professor of Health Psychology Suicidal Behaviour Research Laboratory Institute of Health and Wellbeing

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Vermilion

Introduction

Part 1 Suicide: An Overview

- The How, Who and When of Suicide 1
- What Suicidal Pain Feels Like 2
- Myths and Misunderstandings 3
- Part 2 Suicide Is More About Ending the Pain Than Wanting To Die
- Making Sense of a Suicide 4
- What Suicide is Not 5
- Towards An Integrated Understanding 6 of Suicide
- The Integrated Motivational-Volitional Model of Suicidal Behaviour
- Crossing the Precipice: From Thoughts 8 of Suicide to Suicidal Behaviour

- Part 3 What Works to Keep People Who Are Suicidal Safe
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Epilogue

#### www.bookdepository.com

'Read this incredible book; I wept and I learnt Prof Tanya Byron

# Darkest

hen

Why People Die by Suicide and What We Can Do to Prevent It

International expert in suicide prevention

I have combined the personal with the professional – by telling something of people's stories, including my own, I have tried to convey a sense of what I have learned from my life and from my research into this most devastating of phenomena.

2021

This is my journey through research into suicide, including how suicide has touched me personally. In this book, I try to make sense of suicide by drawing from the experiences of people I've met and in so doing I'll share the stories of those who have been suicidal and those who have lost loved ones to suicide.



- Scale of the challenge including COVID
- $\circ\,$  Myths around suicide
- Integrated Motivational-Volitional (IMV) model of suicidal behaviour
- Crossing the precipice: from suicidal thoughts to suicide attempts
- Safety Planning
- o Conclusions



### **Suicidal Behaviour Research Laboratory**

We conduct interdisciplinary research including experimental research, clinical and non-clinical studies as well as psychosocial interventions as we strive to understand and prevent suicide

The Suicidal Behaviour Research Laboratory (SBRL) at the University of Glasgow



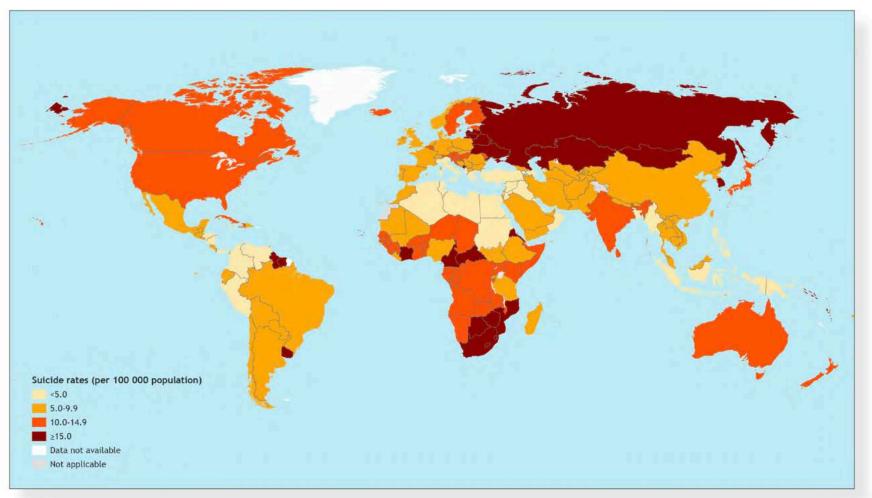
#### www.suicideresearch.info

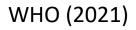


In 2019, an estimated 703 000 people died by suicide.

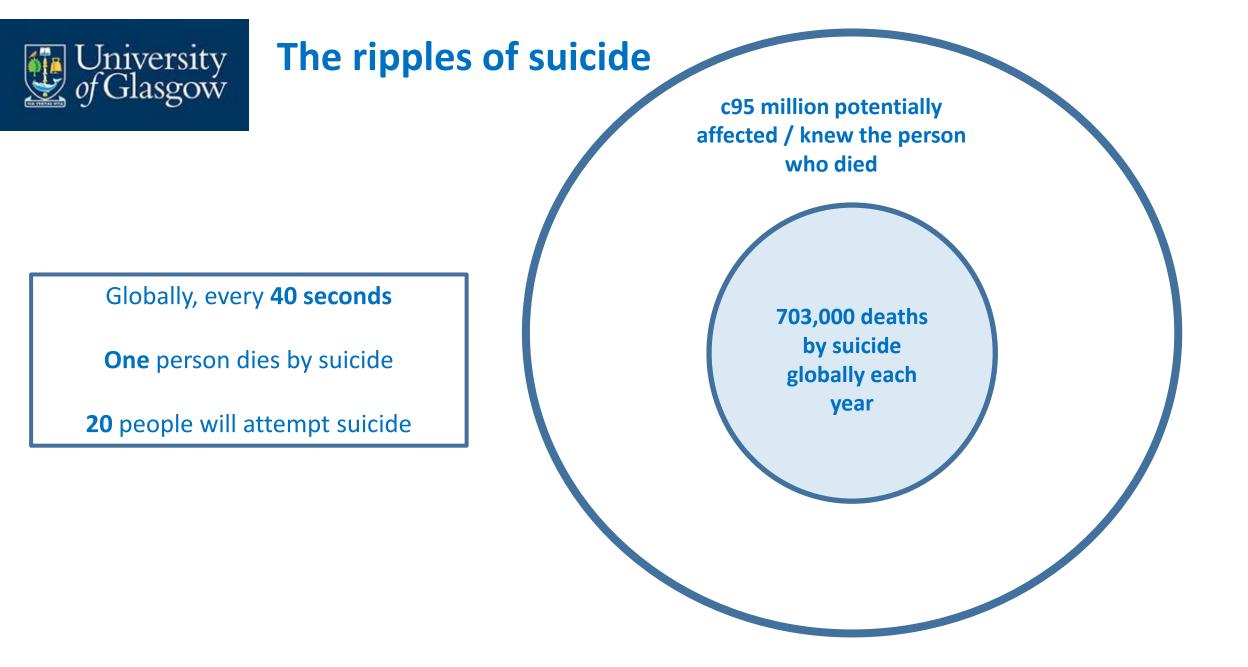
The global age-standardized suicide rate was 9.0 per 100 000 population for 2019. Rates varied between countries from fewer than two deaths by suicide per 100 000 to over 80 per 100 000 (Figure 1).

#### Figure 1. Age-standardized suicide rates (per 100 000 population), both sexes, 2019





Source: WHO Global Health Estimates 2000-2019



#### WHO (2021); Cerel et al. (2019); ONS (2020)



#### Suicide trends in the early months of the COVID-19 pandemic: an interrupted time-series analysis of preliminary data from 21 countries



Jane Pirkis, Ann John, Sangsoo Shin, Marcos DelPozo-Banos, Vikas Arya, Pablo Analuisa-Aguilar, Louis Appleby, Ella Arensman, Jason Bantjes, Anna Baran, Jose M Bertolote, Guilherme Borges, Petrana Brečić, Eric Caine, Giulio Castelpietra, Shu-Sen Chang, David Colchester, David Crompton, Marko Curkovic, Eberhard A Deisenhammer, Chengan Du, Jeremy Dwyer, Annette Erlangsen, Jeremy S Faust, Sarah Fortune, Andrew Garrett, Devin George, Rebekka Gerstner, Renske Gilissen, Madelyn Gould, Keith Hawton, Joseph Kanter, Navneet Kapur, Murad Khan, Olivia J Kirtley, Duleeka Knipe, Kairi Kolves, Stuart Leske, Kedar Marahatta, Ellenor Mittendorfer-Rutz, Nikolay Neznanov, Thomas Niederkrotenthaler, Emma Nielsen, Merete Nordentoft, Herwig Oberlerchner, Rory C O'Connor, Melissa Pearson, Michael R Phillips, Steve Platt, Paul L Plener, Georg Psota, Ping Qin, Daniel Radeloff, Christa Rados, Andreas Reif, Christine Reif-Leonhard, Vsevolod Rozanov, Christiane Schlang, Barbara Schneider, Natalia Semenova, Mark Sinyor, Ellen Townsend, Michiko Ueda, Lakshmi Vijayakumar, Roger T Webb, Manjula Weerasinghe, Gil Zalsman, David Gunnell\*, Matthew J Spittal\*

#### Summary

Interpretation This is the first study to examine suicides occurring in the context of the COVID-19 pandemic in multiple countries. In high-income and upper-middle-income countries, suicide numbers have remained largely unchanged or declined in the early months of the pandemic compared with the expected levels based on the pre-pandemic period. We need to remain vigilant and be poised to respond if the situation changes as the longer-term mental health and economic effects of the pandemic unfold.

monthly suicides before COVID-19 (from at least Jan 1, 2019, to March 31, 2020) in each country or area within a country, comparing the expected number of suicides derived from the model with the observed number of suicides in the early months of the pandemic (from April 1 to July 31, 2020, in the primary analysis).



Findings We sourced data from 21 countries (16 high-income and five upper-middle-income countries), including whole-country data in ten countries and data for various areas in 11 countries). Rate ratios (RRs) and 95% CIs based on the observed versus expected numbers of suicides showed no evidence of a significant increase in risk of suicide since the pandemic began in any country or area. There was statistical evidence of a decrease in suicide compared with the expected number in 12 countries or areas: New South Wales, Australia (RR 0.81 [95% CI 0.72-0.91]); Alberta, Canada (0.80 [0.68-0.93]); British Columbia, Canada (0.76 [0.66-0.87]); Chile (0.85 [0.78-0.94]); Leipzig, Germany (0.49 [0.32-0.74]); Japan (0.94 [0.91-0.96]); New Zealand (0.79 [0.68-0.91]); South Korea (0.94 [0.92-0.97]); California, USA (0.90 [0.85-0.95]); Illinois (Cook County), USA (0.79 [0.67-0.93]); Texas (four counties), USA (0.82 [0.68-0.98]); and Ecuador (0.74 [0.67-0.82]).

Interpretation This is the first study to examine suicides occurring in the context of the COVID-19 pandemic in multiple countries. In high-income and upper-middle-income countries, suicide numbers have remained largely unchanged or declined in the early months of the pandemic compared with the expected levels based on the pre-pandemic period. We need to remain vigilant and be poised to respond if the situation changes as the longer-term mental health and economic effects of the pandemic unfold.

V Arya MRes, J Dwyer PhD, M J Spittal PhD); Swansea University Medical School, Swansea, UK (Prof A John MD, M DelPozo-Banos PhD): Translational Health Research Institute, Western Sydney University, Campbelltowr NSW, Australia (V Arya); Ministry of Public Health, Department of Health Promotion, Quito, Ecuador (P Analuisa-Aquilar MPH); National Confidential Inquir into Suicide and Safety in Mental Health (Prof L Appleby FRCPsych) and Centre for Mental Health and Safety and National Institute for Health Research Patient Safety Translational Research Centre (Prof N Kapur FRCPsych Prof R T Webb PhD), University



### But...

There is a need to ensure that efforts that might have kept suicide rates down until now are continued, and to remain vigilant as the longer-term mental health and economic consequences of the pandemic unfold. There are some concerning signals that the pandemic might be adversely affecting suicide rates in low-income and lower-middle-income countries, although data are only available in a small minority of these countries and tend to be of suboptimal quality. Even in high-income and uppermiddle-income countries, the effect of the pandemic on suicide might vary over time and be different for different subgroups in the population.

### UK COVID-19 Mental Health and Wellbeing study (UK COVID-MH)

niversit

To investigate the immediate and medium-term impact of the COVID-19 pandemic and the required social distancing and self-isolation measures on people's mental health and wellbeing in the UK.

Using a national, non-probability sample of adults from across the UK (n=3,077) with at least 7 follow-ups over 12-15 months, we asked people questions about their mental wellbeing in the weeks and months following the COVID-19 outbreak.

**Research Team**: Rory C O'Connor, Karen Wetherall, Seonaid Cleare, Heather McClelland, Ambrose J Melson, Claire L Niedzwiedz, Ronan E O'Carroll, Daryl B O'Connor, Steve Platt, Elizabeth Scowcroft, Billy Watson, Tiago Zortea, Eamonn Ferguson, & Kathryn A Robb





BJPsych The British Journal of Psychiatry (2020) Page 1 of 8. doi: 10.1192/bjp.2020.212

#### Waves 1 to 3

Mental health and well-being during the COVID-19 pandemic: longitudinal analyses of adults in the UK COVID-19 Mental Health & Wellbeing study

Rory C. O'Connor, Karen Wetherall, Seonaid Cleare, Heather McClelland, Ambrose J. Melson, Claire L. Niedzwiedz, Ronan E. O'Carroll, Daryl B. O'Connor, Steve Platt, Elizabeth Scowcroft, Billy Watson, Tiago Zortea, Eamonn Ferguson and Kathryn A. Robb

#### Background

The effects of coronavirus disease 2019 (COVID-19) on the population's mental health and well-being are likely to be profound and long lasting.

#### Aims

To investigate the trajectory of mental health and well-being during the first 6 weeks of lockdown in adults in the UK.

#### Method

A quota survey design and a sampling frame that permitted recruitment of a national sample was employed. Findings for waves 1 (31 March to 9 April 2020), 2 (10 April to 27 April 2020) and 3 (28 April to 11 May 2020) are reported here. A range of mental health factors was assessed: pre-existing mental health problems, suicide attempts and self-harm, suicidal ideation, depression, anxiety, defeat, entrapment, mental well-being and loneliness.

#### Results

A total of 3077 adults in the UK completed the survey at wave 1. Suicidal ideation increased over time. Symptoms of anxiety, and levels of defeat and entrapment decreased across waves whereas levels of depressive symptoms did not change significantly. Positive well-being also increased. Levels of loneliness did not change significantly over waves. Subgroup analyses showed that women, young people (18–29 years), those from more socially disadvantaged backgrounds and those with pre-existing mental health problems have worse mental health outcomes during the pandemic across most factors.

#### Conclusions

The mental health and well-being of the UK adult population appears to have been affected in the initial phase of the COVID-19 pandemic. The increasing rates of suicidal thoughts across waves, especially among young adults, are concerning.

#### Keywords

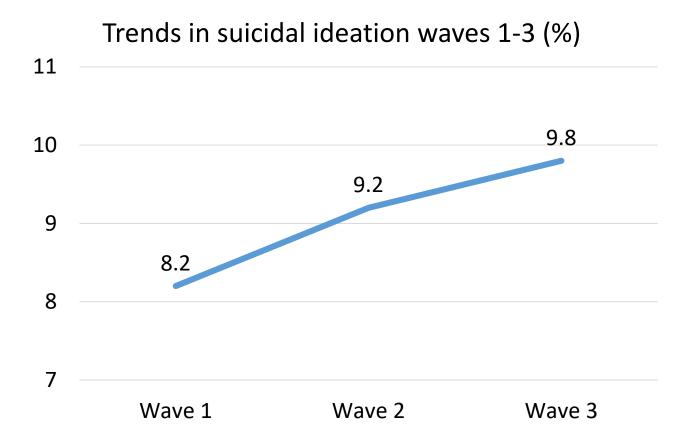
COVID-19; mental health; suicidal ideation; general population; depression.

#### Copyright and usage

© The Authors 2020. Published by Cambridge University Press on behalf of The Royal College of Psychiatrists. This is an Open Access article, distributed under the terms of the Creative Commons Attribution licence (http://creativecommons.org/ licenses/by/4.0/), which permits unrestricted re-use, distribution, and reproduction in any medium, provided the original work is properly cited.



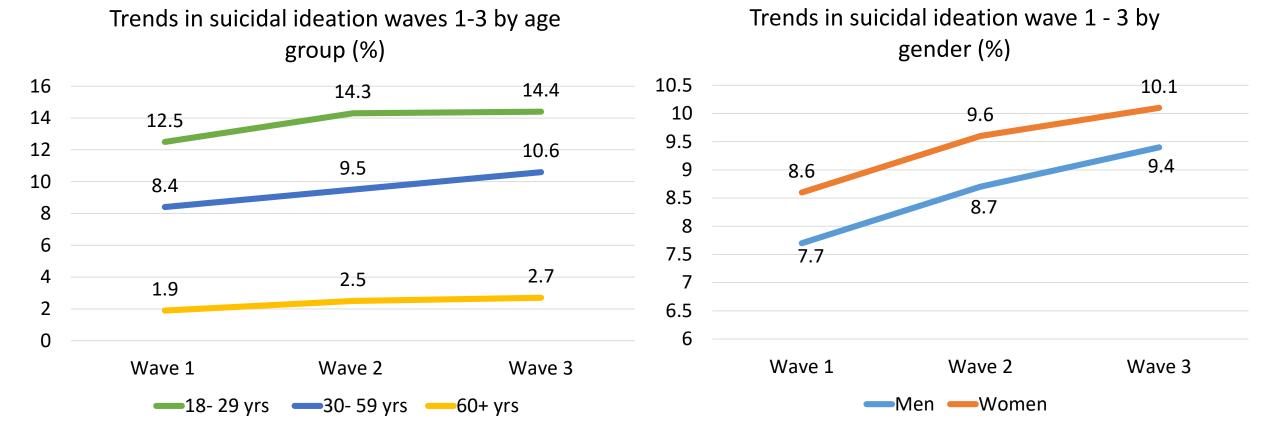
### Trends in suicidal ideation in last week



- Participants were asked: "How often have you thought about taking your life in the last week?" ('never', to 'nearly everyday')
- Suicidal ideation= at least one day/week
- Rates of suicidal ideation in the last week increased from wave 1 to wave 2 and from wave 1 to wave 3



# Trends in suicidal ideation by age and gender

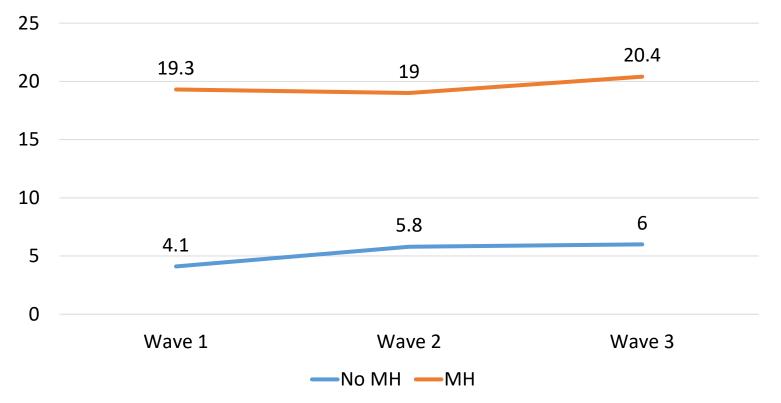


- Young people (18-29 year olds) reported the highest rates of suicidal ideation, and older adults reported the lowest levels
- Women reported slightly higher levels of suicidal ideation, but this was not significantly different



### Trends in suicidal ideation by preexisting mental health condition (MH)

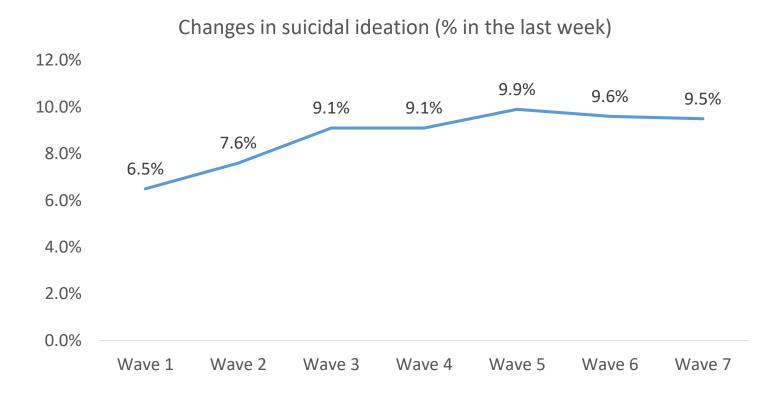
### Trends in suicidal ideation waves 1 - 3 by pre-existing mental health condition (%)



- Participants were asked if they had a pre-existing mental health condition
- Of those who did (n=852) more people reported anxiety (21.5%) or depression (18%)
- Those with a MH condition
   reported higher suicidal ideation
   over each wave



### Suicidal ideation Waves 1 to 7



Depressive symptoms and loneliness increased from wave 6 to 7. Defeat and entrapment increased from wave 5 to 6 and remained elevated at wave 7. Anxiety symptoms, mental wellbeing and suicidal ideation did not change.

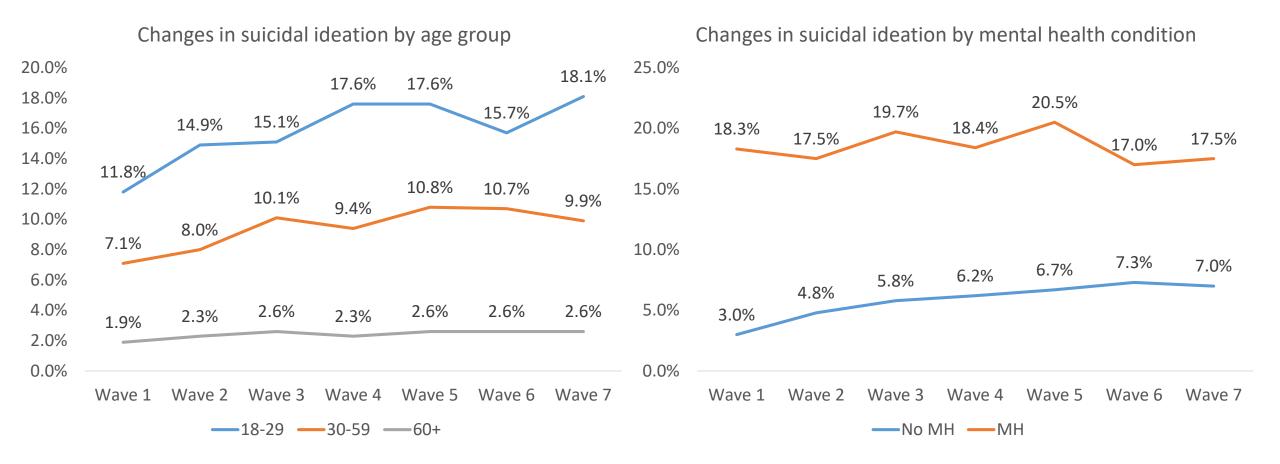
Preliminary analyses: please do not tweet/circulate - includes those who completed all waves

Wave 7 4 Feb to 2 March 2021





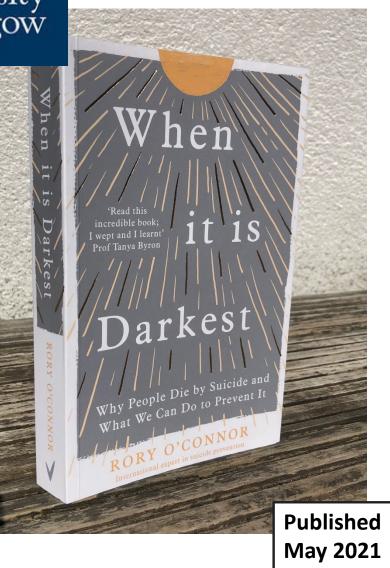
### Suicidal ideation: subgroup analysis



Wave 7 4 Feb to 2 March 2021

Preliminary analyses: please do not tweet/circulate





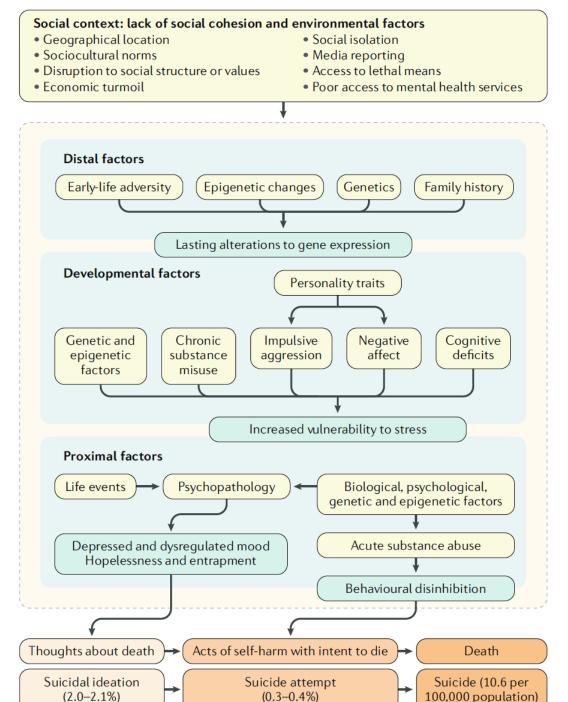
Penguin Random House

Vermilion

#### **MYTHS ABOUT SUICIDE**

- 1. Those who talk about suicide are not at risk of suicide.
- 2. All suicidal people are depressed or mentally ill.
- 3. Suicide occurs without warning.
- 4. Asking about suicide 'plants' the idea in someone's head.
- 5. Suicidal people clearly want to die.
- 6. When someone becomes suicidal they will always remain suicidal.
- 7. Suicide is inherited.
- 8. Suicidal behaviour is motivated by attention-seeking.
- 9. Suicide is caused by a single factor.
- 10. Suicide cannot be prevented.
- 11. Only people of a particular social class die by suicide.
- 12. Improvement in emotional state means lessened suicide risk.
- 13. Thinking about suicide is rare.
- 14. People who attempt suicide by a low-lethality means are not serious about killing themselves.





### Biopsychosocial model of suicide risk

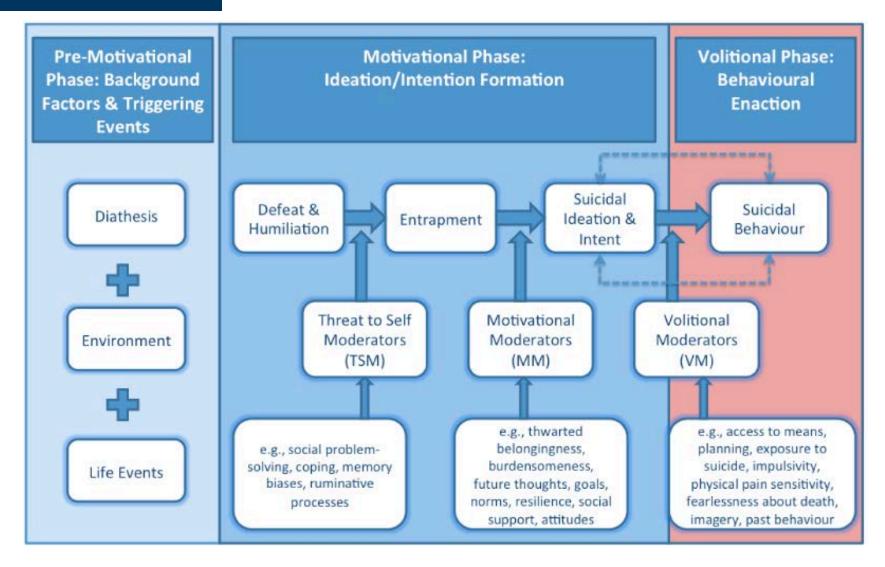
#### nature reviews disease primers

Gustavo Turecki<sup>1</sup>\*, David A. Brent<sup>2</sup>, David Gunnell<sup>3,4</sup>, Rory C. O'Connor<sup>5</sup>, Maria A. Oquendo<sup>6</sup>, Jane Pirkis<sup>7</sup> and Barbara H. Stanley<sup>8</sup>

#### 2019

#### University | Institute of Health of Glasgow | & Wellbeing

# Integrated motivational-volitional (IMV) model of suicidal behaviour



O'Connor, R.C., Kirtley, O.J. (2018). The Integrated Motivational-Volitional Model of Suicidal Behaviour *Philosophical Transactions of the Royal Society B.* 373: 20170268



### Predicting suicidal ideation in a nationally representative sample of young adults: a 12-month prospective study

Karen Wetherall<sup>1</sup>, Seonaid Cleare<sup>1</sup>, Sarah Eschle<sup>1</sup>, Eamonn Ferguson<sup>2</sup>, Daryl B. O'Connor<sup>3</sup>, Ronan E. O'Carroll<sup>4</sup> and Rory C. O'Connor<sup>1</sup>

**Table 1.** Multiple linear regression models testing the extent to which baseline variables predict suicidal ideation at 12 months (n = 2382)

Variables	β	S.E.	95% CI
Baseline suicidal ideation	0.43***	0.03	0.38-0.48
Depressive symptoms	-0.02	0.01	-0.05-0.003
Thwarted belongingness	0.002	0.01	-0.03-0.03
Perceived burdensomeness	0.07***	0.02	0.04-0.10
Defeat	0.01	0.01	-0.01-0.04
External entrapment	-0.004	0.02	-0.03-0.03
Internal entrapment	0.07**	0.02	0.02-0.12

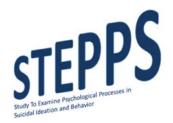
\*\* p < 0.01 \*\*\* p < 0.001.

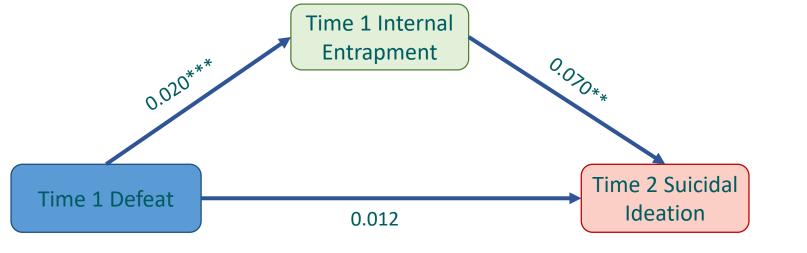
Psychological Medicine

2020



Mediation analysis of the relationship of baseline defeat and entrapment with 12 month (Time 2) suicidal ideation





\*\*p < 0.01, \*\*\*p<0.001

Indirect effect: b = 0.014 (SE = 0.007), 95% CI = 0.001 - 0.027

Controlling for baseline (T1) depressive symptoms, suicidal ideation, perceived burdensomeness (PB), thwarted belongingness TB), PB\*TB

NB. Same effect with total entrapment



### The 4-item Entrapment Scale Short-Form (E-SF)

- 1. I often have the feeling that I would just like to run away
- 2. I feel powerless to change things
- 3. I feel trapped inside myself
- 4. I feel I'm in a deep hole I can't get out of

De Beurs, Cleare, Wetherall, Byrne, Ferguson, O'Connor & O'Connor (2020). *Psychiatry Research* 



### **Loneliness and Suicide Risk**



significant

there was

evidence that

as a mediator.

**Review** article

Loneliness as a predictor of suicidal ideation and behaviour: a systematic review and meta-analysis of prospective studies

Heather McClelland<sup>a,\*</sup>, Jonathan J. Evans<sup>b</sup>, Rebecca Nowland<sup>c</sup>, Eamonn Ferguson<sup>d</sup>, Rory C. O'Connor<sup>a</sup>

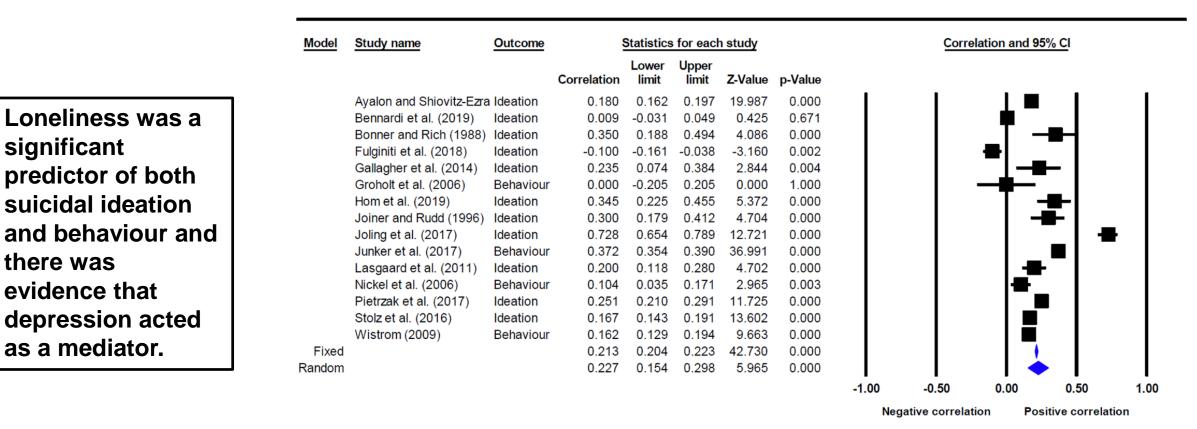


Fig. 2. Forest plot of overall effect sizes from whole participant group



Exploring the role of loneliness in relation to self-injurious thoughts and behaviour in the context of the integrated motivational-volitional model

Heather McClelland<sup>a,\*</sup>, Jonathan J. Evans<sup>b</sup>, Rory C. O'Connor<sup>a</sup>



2021



Fig. 2. Loneliness as a moderator between defeat and entrapment.

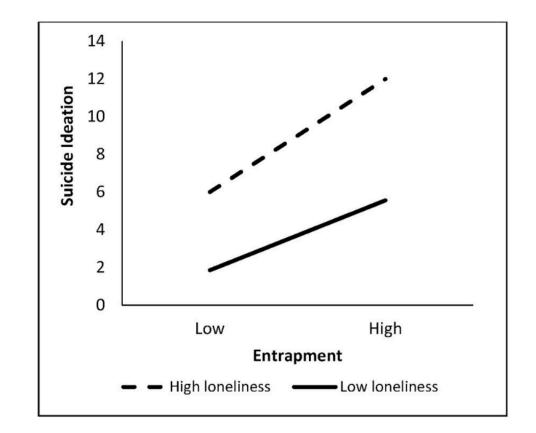


Fig. 3. Loneliness as a moderator between Entrapment and Suicidal Ideation.

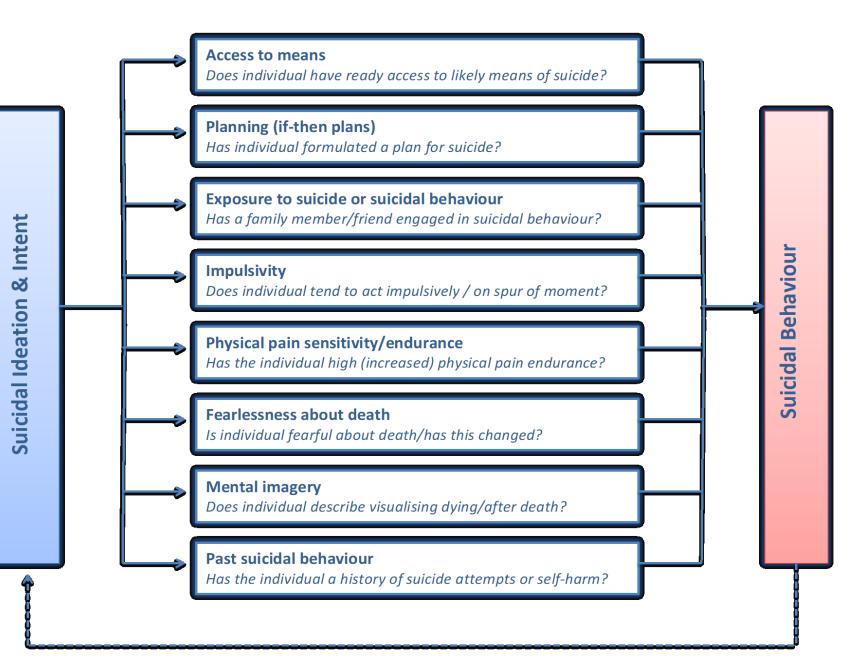


### Crossing the Precipice: From Thoughts of Suicide to Suicidal Behaviour

I never thought he'd do it. A few weeks before his death, he had told me that he had thoughts about being dead, but I was too scared to ask him directly whether he would kill himself. I haven't stopped asking myself why I didn't ask him. Not a day passes when I don't torment myself with this question. When I look back on it now, I just didn't think he was the type of person who would kill himself. I know how ridiculous that sounds, but he was just always so full of life.



From Suicidal Thoughts to Suicidal Behaviour: Volitional Factors



O'Connor, R.C., Kirtley, O.J. (2018). The Integrated Motivational-Volitional Model of Suicidal Behaviour *Philosophical Transactions of the Royal Society B.* 373: 20170268



### **Cortisol: the Stress Hormone**



Contents lists available at ScienceDirect

Psychoneuroendocrinology

journal homepage: www.elsevier.com/locate/psyneuen



Cortisol reactivity and suicidal behavior: Investigating the role of hypothalamic-pituitary-adrenal axis responses to stress in suicide



Daryl B. O'Connor (PhD)<sup>a,\*</sup>, Jessica A. Green (MSc)<sup>a</sup>, Eamonn Ferguson (PhD)<sup>b</sup>, Ronan E. O'Carroll (PhD)<sup>c</sup>, Rory C. O'Connor (PhD)<sup>d</sup>

<sup>a</sup> School of Psychology, University of Leeds, Leeds UK

<sup>b</sup> School of Psychology, University of Nottingham, Nottingham, UK

<sup>c</sup> Division of Psychology, University of Stirling, Stirling, UK

<sup>d</sup> Suicidal Behavior Research Laboratory, Institute of Health & Wellbeing, University of Glasgow, Glasgow, UK

#### ARTICLE INFO

Article history: Received 23 April 2016 Received in revised form 19 October 2016 Accepted 21 October 2016

Keywords: Cortisol reactivity Chronic stress HPA axis Self-harm Allostatic load

#### ABSTRACT

Every 40 s a person dies by suicide somewhere in the world. The causes of suicidal behavior are not fully understood. Dysregulated hypothalamic-pituitary-adrenal (HPA) axis activity, as measured by cortisol levels, is one potential risk factor. The current study aimed to investigate whether cortisol reactivity to a laboratory stress task differentiated individuals who had previously made a suicide attempt from those who had thought about suicide (suicide ideators) and control participants. One hundred and sixty participants were recruited to a previous attempt, a suicidal ideation or a control group. Participants completed background questionnaires before completing the Maastricht Acute Stress Test (MAST). Cortisol levels were assessed throughout the stress task. Measures of suicide behavior were measured at baseline, 1 month and 6 month follow-up. Participants who had made a previous suicide attempt exhibited significantly lower aggregate cortisol levels during the MAST compared to participants in the control group; suicide ideators were intermediate to both groups. This effect, however, was driven by participants who made an attempt within the past year, and to some degree by those with a family history of attempt. Participants who made a suicide attempt and had a family history of suicide exhibited the lowest levels of cortisol in response to stress. Finally, lower levels of cortisol in response to the MAST were associated with higher levels of suicidal ideation at 1-month follow-up in the suicide attempter group. These results are consistent with other findings indicating that blunted HPA axis activity is associated with some forms of suicidal behavior. The challenge for researchers is to elucidate the precise causal mechanisms linking stress, cortisol and suicide risk.

### My twin brother and I





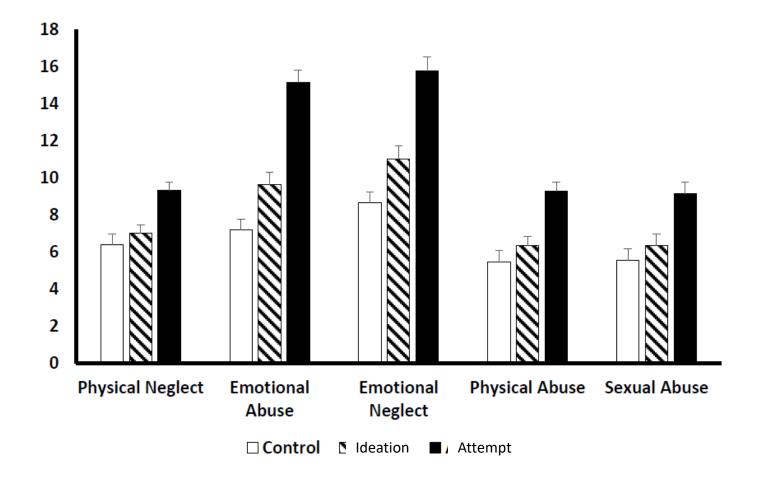
### Never too early to plan your research



# Childhood trauma, stress and cortisol in individuals vulnerable to suicide?



### Childhood trauma & suicidal history

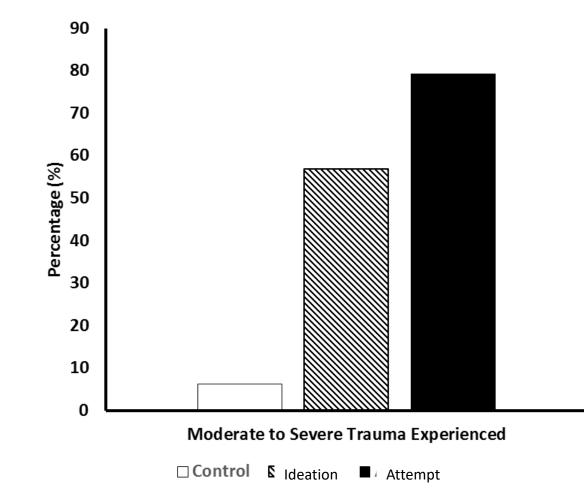


O'Connor, D., Green, J., Ferguson, E., O'Carroll, O'Connor, R. (2018) *Psychoneuroendocrinology* 

- Suicide attempt history scored sig. higher on <u>all</u> scales compared to both those in ideation and control groups
- Ideation group intermediate to the other two groups
- Ideation group different from controls on physical neglect (p<0.001), emotional abuse (p=0.038), and emotional neglect (p=0.058).

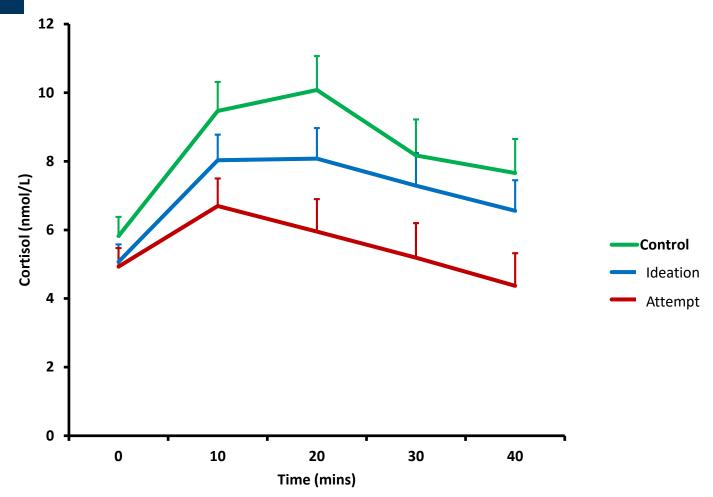


# Exposure to "moderate to severe" childhood trauma





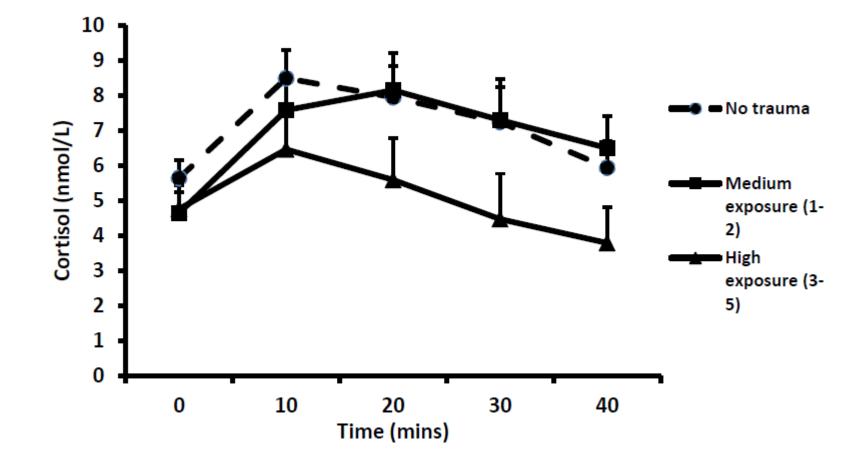
## Effects of group on cortisol during the MAST (stress task) (n=145)



Main effect of group for cortisol levels, p=0.02; AUCg, p=0.02, AUCi, p=0.04 *Note*: All analyses controlled for age, BMI, medication usage, time of day, smoking, & gender



# Effects of childhood trauma on cortisol reactivity to stress (AUCg)



O'Connor, D., Green, J., Ferguson, E., O'Carroll, O'Connor, R. (2018) Psychoneuroendocrinology



### **From Thinking To Doing**

Interventions to Interrupt the Transition from Suicidal Thoughts to Suicide Attempts





#### nature reviews disease primers

### Box 2 | Interventions for suicidal ideation and suicidal behaviour

**Psychosocial** Longer-term psychosocial interventions

- Cognitive behavioural therapy
- Dialectic behavioural therapy
- Collaborative assessment and management of suicidality
- Acceptance and commitment therapy
- Mentalization
- Interpersonal psychotherapy

**Brief interventions** 

- Caring contacts
- No suicide contacts
- Safety planning intervention
- Crisis response planning

- Attempted suicide short intervention programme
- Volitional help sheet

#### Pharmacological

Pharmacological agents with potential effect on suicidal behaviour

- Lithium
- Clozapine<sup>a</sup>
- Ketamine
- Selective serotonin reuptake inhibitors
- Buprenorphine

<sup>a</sup>Clozapine is indicated in treatment of patients with schizophrenia who present with suicidal ideation.



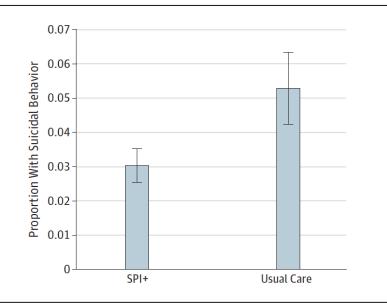
JAMA Psychiatry | Original Investigation

### Comparison of the Safety Planning Intervention With Follow-up vs Usual Care of Suicidal Patient in the Emergency Department

ed

Barbara Stanley, PhD; Gregory K. Brown, PhD; Lisa A. Brenner, PhD; Hanga C. Galfalvy, PhD; Glenn W. Currier, MD; Kerry L. Knox, PhD; Sadia R. Chaudhury, PhD; Ashley L. Bush, MMA; Kelly L. Green, PhD

Figure 1. Suicidal Behavior in 6-Month Follow-up for Safety Planning Intervention With Structured Follow-up Telephone Contact (SPI+) and Usual Care



Proportion of patients with suicidal behavior in the 6 months following emergency department discharge in SPI+ compared with usual care patients. Error bars denote the standard error of the proportion.

- Patients in the SPI+ condition were less likely to engage in suicidal behavior (n = 36 of 1186; 3.03%) than those receiving usual care (n = 24 of 454; 5.29%) during the 6-month follow-up period.
- The SPI+ was associated with 45% fewer suicidal behaviors
- Those in SPI+ condition more likely to have treatment engagement



The relative risk of suicidal behaviour among patients who received an SPTI compared with control was 0.570 (95% CI 0.408– 0.795, P = 0.001)

Results support the use of SPTIs to help preventing suicidal behaviour and the inclusion of SPTIs in clinical guidelines for suicide prevention.

# Safety planning-type interventions for suicide prevention: meta-analysis

 BJPsych
 The British Journal of Psychiatry (2021)

 219, 419–426. doi: 10.1192/bjp.2021.50

Chani Nuij, Wouter van Ballegooijen, Derek de Beurs, Dilfa Juniar, Annette Erlangsen, Gwendolyn Portzky, Rory C. O'Connor, Johannes H. Smit, Ad Kerkhof and Heleen Riper

Study name	Statistics for each study				Risk ratio and 95% CI			
	Risk ratio	Lower limit	Upper limit	P-value				
Bryan et al (2017, CRP)	0.200	0.021	1.879	0.159				
Bryan et al (2017, E-CRP)	0.388	0.067	2.257	0.292				
Chen et al (2013)	0.521	0.289	0.939	0.030				
Gysin-Maillart et al (2016)	0.313	0.122	0.799	0.015				
Miller et al (2017)	0.799	0.625	1.021	0.073				
Stanley et al (2018)	0.574	0.347	0.951	0.031				
Wang et al (2016)	0.094	0.005	1.628	1.104	₭───┼──│ │			
	0.570	0.408	0.795	0.001				
					0.01 0.1 1 10 100			
					Control Intervention			

Fig. 2 Forest plot for suicidal behaviour. CRP, standard crisis response plan; E-CRP, enhanced crisis response plan.

SPTI: Safety Planning-type interventions

Safetel S	fety Plan v1.0 03.07.17	Г	Open access		Protocol			
Safety Plan Participa Research Date of d			BMJ Open	SAFETEL randomise feasibility trial of a s	safety planning			
Warning signed (thoughts, images, mood, situation, behaviour) that	a crisis may be developing:			intervention with fo				
Step 1: 1				contact to reduce suicidal behaviour:				
3				study protocol				
Step 2: Internal coping strategies – Things I can do to take my mind off my prob another person (relaxation technique, physical activity):				Rory C O'Connor, <sup>1</sup> Jenna-Marie Lundy, <sup>1</sup> C Heather McClelland, <sup>1</sup> Suzy Syrett, <sup>1</sup> Marce Michael Smith, <sup>4</sup> Daniel J Smith, <sup>5</sup> Gregory Sharon Anne Simpson <sup>2</sup>	la Gavigan, <sup>2</sup> Alex McConnachie, <sup>3</sup>			
3.			To cite: O'Connor RC, Lundy J-M, Stevart C, et al. SAFETEL randomised controlled feasibility trial of a safety planning intervention with follow-up telephone contact to reduce suicidal behaviour: study protocol. <i>BMJ Open</i> 2019;9:e022591. doi:10.1136/ bmjopen-2018-025591 ▶ Prepublication history and additional material for this paper are available online. To view these files, please visit	ABSTRACT Introduction There are no evidence-based interventions that can be administered in hospital settings following a general hospital admission after a suicide attempt. Aim To determine whether a safety planning intervention (SPI) with follow-up telephone support (SAFETEL) is feasible and acceptable to patients admitted to UK hospitals following a suicide attempt. Methods and analysis Three-phase development and feasibility study with embedded process evaluation. Phase I comprises tailoring an SPI with telephone follow-up originally designed for veterans in the USA, for use in the UK. Phase II involves pliciting the intervention with patients	Strengths and limitations of this study           SAFETEL will test the feasibility and acceptability of a safety planning intervention (SP) with follow-up telephone support to patients admitted to UK hospitals following a suicide attempt.           We have employed a collaborative person-centred approach to support the development of the SPI by involving those with lived experience as well as academics and clinicians.           A process evaluation is embedded within the study.           We have employed a mixed-methods approach (interviews, questionnaires, focus groups, medical re-			
1Phone:			the journal online (http://dx.doi. org/10.1136/bmjopen-2018- 025591).	(n=30) who have been hospitalised following a suicide attempt. Phase III is a feasibility randomised controlled trial of 120 patients who have been hospitalised following	<ul> <li>cords and hospital admission data).</li> <li>To enhance generalisability, this study is conducted in four hospitals.</li> </ul>			
Step 5: Clinic Gr Local Sama Safety Planning is so much more than this form: importance of compassion & collaboration within 5 years." Despite the increased risk								
Breathing Space: 0800 83 85 87           Step 6:         Making the environment safe:           1.			© Author(s) (or their employer(s)) 2019. Re-use permitted under CC BY-NC. No commercial re-use. See rights and permissions. Published by BMJ. For numbered affiliations see end article. — Correspondence to Professor Rev C 0 'Connor; Rory. O'Connor@glasgow.ac.uk	primary outcome event rates, and intervention effect size (Phase III). Thematic analyses will be conducted on interview and focus group data. Ethics and dissemination The East of Scotland Research Ethics Service (EGSRES) approved this study in March 2017 (GN17MH101 Ref: 17/ES/0036). The study results will be disseminated via peer-reviewed publication and conference presentations. A participant summary paper will also be disseminated to patients, service providers and policy makers alongside the main publication. Trial registration number ISRCTN62181241.	of suicide, there is a lack of evidence-based interventions within general hospital settings for those who have attempted suicide specifi- cally. Although there are challenges in deter- mining suicidal intent and debate about definitions of self-harm, <sup>4</sup> the majority of patients admitted to hospital following self- harm are cases of attempted suicide. <sup>5</sup> There- fore, delivering effective treatment in hospital and by other means in the weeks following a			
			вмј	O'Connor RC, <i>et al. BMJ Open</i> 2019; <b>9</b> :e025591. doi:10.1136	/bmjopen-2018-025591 1			



## Safety Plan...

### ...Is

## ...Isn't

- A written, dynamic document
- A list of internal and social distractions & people to call for help
- Easy to read
- Collaborative
- To fill important gaps in care/ end of care

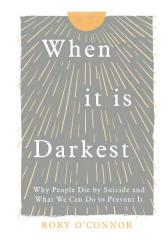
- A long-term tool for mood
- For someone at imminent risk of suicide
- For individuals with cognitive impairment (unless adapted)



## Use of Safety Plan in SAFETEL study

- During the telephone calls, at least 81% of participants discussed the content of their Safety Plan and reflected on the relevance of any people and activities they had listed on their Safety Plan.
- 79% of the intervention group participants who completed a Safety Plan said they had used it at least once since baseline
- Participants were most likely to report using their Safety Plan between their second and third follow-up calls, approximately 1-2 weeks after their recruitment to the study
- 47.4% of participants who made a Safety Plan, made changes during the follow-up call phase
- Across all calls, the most commonly changed step was Step 4 ('People in their personal lives to contact for support').

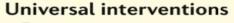




Safety Planning

Safety planning is a structured intervention co-created usually between a patient and a mental health professional.<sup>3</sup> Its aim is to identify warning signs as well as techniques to help keep someone safe. Put simply, a safety plan is an 'emergency plan' designed to help prevent people from acting on their suicidal feelings. As illustrated in Figure 3 overleaf, a safety plan comprises six steps to be completed by someone, usually after a suicide crisis.<sup>4</sup>

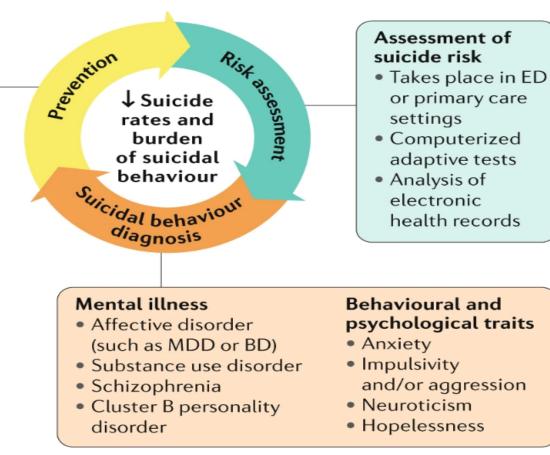
### **Approaches for preventing suicide**



- Restricting access to means
- Media strategies for better reporting
- Suicide awareness campaigns

#### Selective interventions

- Pharmacological interventions
- General practitioner education programmes
- Development of treatment guidelines
   Indicated interventions
- Psychological interventions
- Social approaches
- Crisis services and helplines



### nature reviews disease primers

2019

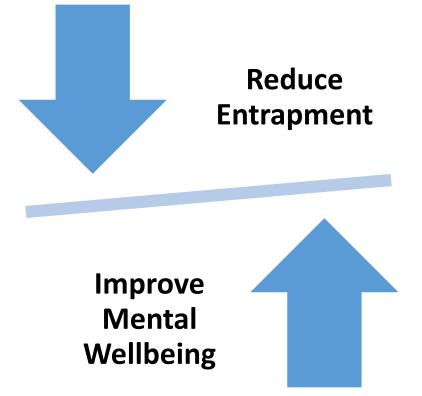
Gustavo Turecki<sup>1</sup>\*, David A. Brent<sup>2</sup>, David Gunnell<sup>3,4</sup>, Rory C. O'Connor<sup>5</sup>, Maria A. Oquendo<sup>6</sup>, Jane Pirkis<sup>7</sup> and Barbara H. Stanley<sup>8</sup>





## **Call to Action**

To promote mental health, to tackle stigma & to reduce suicide we all should target *entrapment* 





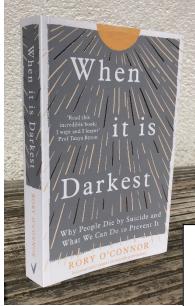
Suicide is more about ending pain than ending one's life
 Trapped by mental pain

To prevent suicide takes more than treating mental health problems
 Tackling inequality, stigma, discrimination, COVID-19
 We can support each other
 Compassion and collaboration are key

 The factors that lead to suicidal thoughts are different from those associated with suicide attempts/death

 Brief interventions such as safety planning are important in preventing suicidal behaviour in individuals who are at high risk

"I am terribly sorry for having chosen to take my own life, but I have just reached the point where I feel that I have no alternative...The feeling of being helpless and incapable is something that I am unable to cope with. I can't see any future other than a continual decline into a situation of helplessness and even worse unhappiness which is not something that I think I can bear...It is the unrelenting nature of the depression and the way that it robs me of everything..., and which despite my best efforts seems to be impossible for me to overcome that gives me no hope for the future..."



Although we can never bring back those who we have lost, we can better support those left behind and, if we work together, we can save more lives. My ultimate hope is that, as a society, if we are kinder and more compassionate, both to ourselves and to those around us, then we will go some distance in protecting all of us from the devastation of suicide.

