

Mental Health Theme

• Aim: to predicting who is most at risk of mental illness and develop novel approaches to prevention and treatment.

- **Psychosis** Zammit, Rai, Munafo, Penton-Voak, Lewis
- Self-harm / suicide Gunnell, Moran, Munafo, Penton-Voak
- **Depression** Wiles, Kessler, Moran, Munafo, Penton-Voak
- **Substance abuse** Hickman, Munafo, Lewis
- **Domestic violence** Feder, Zammit





Self-harm / suicide sub-theme

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Objectives

- Identifying modifiable factors influencing transition from thoughts to acts (*Biomarkers*)
- Identifying epigenetic markers of transition from thoughts to acts (*Biomarkers*)
- Experimental manipulation of depiction of suicide methods to examine likelihood of adopting high-lethality suicide methods (*Experimental Medicine*)



Transitions from suicidal thoughts to suicide attempts







Background

• Most people who think about suicide will not act on their thoughts



- The factors that predict progression remain unclear
 - Many of the factors that predict suicidal thoughts are poor at predicting attempts amongst those thinking about suicide
- Most research has been cross-sectional
- Few studies in adolescents



Study aim

Investigate factors that predict the transition between suicidal thoughts and attempts in a population-based cohort study (ALSPAC)





UK Birth Cohort (South West England) ~14,000 children / parents

• Estimate date of delivery April 1st 1991 - Dec 31st 1992











ALSPAC measures

• Self-harm assessed at 16, 18, 21 and 24 (currently being collected)



- Biological data
- Psychosocial data





• Rich covariate data







Risk factors

Examined a wide range of risk factors for suicidal behaviour

1. Demographic variables Child gender

2. Sociological/behavioural variables

IQ, executive function, impulsivity, sensation seeking, big-5 personality dimension, self-harm in friends and family, mother suicide attempt, life events, childhood sexual abuse, parent cruelty, bullying/victimisation, and body dissatisfaction

3. Psychiatric/ mental health variables

Depressive disorder, anxiety disorder, behavioural disorder, hopelessness, and substance use (heavy drinking; cannabis use; regular smoking, illicit drug use)



Suicidal thoughts and attempts in ALSPAC

4772 adolescents with data on suicidal thoughts and attempts at age 16 years



3 groups:

- No suicidal thoughts or attempts
- Suicidal thoughts only
- Suicide attempts





Longitudinal results



Strongest associations found for:

- Exposure to self-harm in family member (OR=2.46)
- Substance use (cannabis OR=2.99; illicit drug use OR=3.45)
- Non-suicidal self-harm (not in past year OR=4.28; 1-5 times OR=2.25; 6+ times OR=5.20)



Summary and implications

- Most risk factors poor at predicting attempts amongst those with suicidal thoughts
- Factors identified may increase the capability for suicide
 - Non-suicidal self-harm
 - Exposure to self-harm in others
 - Substance use (illicit drug use)
- Could be incorporated into risk assessments for those experiencing suicidal thoughts



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Suicide and the media

• Most people who think about suicide will not act on their thoughts





Suicide and the media

 Experimental manipulation of depiction of suicide methods to examine likelihood of adopting high-lethality suicide methods (Experimental Medicine)



Impact of media portrayal of suicide

Six-part German TV series, including railway suicide of 19 year old hero of programme (shown at start of each episode)

- Railway suicides by teenage males increased 175% during the series (compared with previous five and subsequent two years)
- Smaller increase following second showing of series (in keeping with viewing figures)
- Suicide by other lethal methods did not change

(Schmidtke and Häfner, 1988)

Population Health Sciences





BRISTOL Protective effects of news reporting: the "Papageno effect"

Role of media reports in completed and prevented suicide: Werther *v*. Papageno effects

Thomas Niederkrotenthaler, Martin Voracek, Arno Herberth, Benedikt Till, Markus Strauss, Elmar Etzersdorfer, Brigitte Eisenwort and Gernot Sonneck

Background

Media reporting of suicide has repeatedly been shown to trigger suicidal behaviour. Few studies have investigated the associations between specific media content and suicide rates. Even less is known about the possible preventive effects of suicide-related media content.

The British Journal of Psychiatry (2010)

197, 234-243. doi: 10.1192/bjp.bp.109.074633

Aims

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To test the hypotheses that certain media content is associated with an increase in suicide, suggesting a so-called Werther effect, and that other content is associated with a decrease in suicide, conceptualised as a Papageno effect. Further, to identify dasses of media articles with similar reporting profiles and to test for associations between these classes and suicide.

Method

Content analysis and latent class analysis (LCA) of 497 subcide-related print media reports published in Austria between 1 January and 30 June 2005. Ecological study to identify associations between media item content and shortterm changes in suidde rates.

Results

Repetitive reporting of the same suicide and the reporting of suicide myths were positively associated with suicide rates. Coverage of Individual suicida ideation not accompanied by suicida behaviour was negatively associated with suicide rates. The LCA yielded for uclasses of media reports, of which the mastery of risis dass (articles on individuals who adopted coping strategies other than suicidal behaviour in adverse circumstances) was negatively associated with suicide, whereas the expert ophinion dass and the epidemiological facts dass were positively associated with suicide.

Conclusions

The impact of suicide reporting may not be restricted to harmful effects; rather, coverage of positive coping in adverse circumstances, as covered in media items about suicidal ideation, may have protective effects.

Declaration of interest None.

Reports describing recovery from suicide thoughts / "mastery of crisis" associated with falls in suicide

e.g. "Before [Tom Jones] had his first hit, he thought about suicide.... And wanted to jump in front of a underground train in London...In 1965, before he made it to the charts... he thought for a second "if I just take a step to the right, then it will all be over.."





Thankyou

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