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THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE







Types of Cyber-bullying Involvement and Mental Health Problems

Findings from *EU Kids Online*, 2014 Dr Anke Görzig



Bullying:

An act of aggression which is <u>intentional</u>, <u>repetitive</u> and directed towards an individual of <u>lower power</u> (cf. Olweus, 1993)

Cyber-bullying:

An act of aggression which is <u>intentional</u>, <u>repetitive</u> and directed towards an individual of <u>lower power</u> using *electronic forms of contact, specifically mobile phones or the internet* (Smith et al., 2006).

Bullying & adolescents mental health



- Traditional and cyber-bullying among adolescents are considered a **major public health concern** (Hertz et al., 2013).
- Involvement in bullying as a young person increases the **risk of suicide or suicide-related behaviours** (i.e., suicidal ideation, **suicide attempt, self-harming**) (Arseneault et al., 2006; Bauman, Toomey, & Walker, 2013; Brunstein-Klomek, Sourander, & Gould, 2010; Price & Dalgleish, 2010).
- Bullying is associated with short and **long-term mental health difficulties** (depression, anxiety, conduct disorder) (Maughan, & Arseneault, 2014)
- Studies on traditional bullying have shown that it is important to differentiate between **different types of bullying involvement (bullies, victims and bully/victims)**

Types of bullying involvement



Suicide-related behaviours

(reviews, 30+ studies; Brunstein-Klomek et al., 2010; Kim & Leventhal, 2008)

- Bullies and victims are at risk
- Bully/victims are the most at-risk group

Psychological problems

- Victims: internalising (emotional problems), peer problems (Hawker & Boulton, 2000)
- Bullies: externalising (conduct problems) (Ttofi et al., 2011)
- Bully/victims: internalising + externalising, peer problems (Cook et al., 2010)
- **Psychological problems mediate between bullying and suicide-related behaviours?** (cf. Hertz et al., 2013)
 - Depression: traditional bullies but not cyber-bullies (Bauman et al., 2013)
 - Delinquency/depression: bullies but not victims or bully/victims (Espelage & Holt, 2013)
 - Traditional bullying was a risk factor for suicide-related behaviours independent of depression (Kaminski & Fang, 2009)

Cyber-bullying and suicide-related behaviours: Fact or moral panic?



Self-harm sites and cyberbullying: the threat to children from web's dark side (The Guardian, 10.3.2014)

Suicide Among Children Is A Bigger Problem Than Ever Before, And Cyberbullying May Be The Cause (Inquisitr, 31.10.2014)

More children 'self-harming because of cyber-bullying' (Metro, 27.5.2014)

Media reports and effects

- Public concern has been amplified by the mass media, most risks are encountered by a small minority (Vandebosch et al., 2013)
- Media reports have contributed to a dramatic bias in views on cyberbullying (e.g., prevalence rates, cause for suicide etc.; Magid, 2011)

Types of *cyber***-bullying involvement**

www.eukidsonline.net

Suicide-related behaviours

- Cyber-victims: suicide ideation/attempts, self-harm
- Cyber-bullies: suicide ideation/attempts (Bauman et al., 2013; Hinduja & Patchin, 2010; Schneider et al., 2012)
- Cyber-bully/victims: most at-risk group (1 study; 18-24 yr olds) (Schenk & Fremouw, 2012; Schenk, Fremouw, & Keelan, 2013)

Psychological problems

- Cyber-victims: internalising / emotional problems
- Cyber-bullies: externalising / conduct problems
- Cyber-bully/victims: internalising & externalising problems (Gradinger et al., 2009; Ybarra & Mitchell, 2004)

Similar patterns, less evidence

Psychological problems mediate between bullying and suicide-related behaviours?

The current study



Research evidence comparing all cyber-bullying types within one sample is scarce

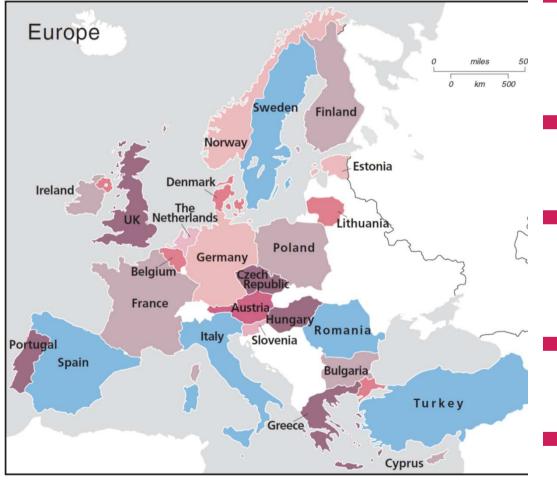
Confirm similar patterns for bullying and cyber-bullying on

- Relation of bullying types and suicide-related behaviours
 - Victims & bullies > not involved
 - Bully/victims >> not involved
- Relation of <u>bullying types</u> psychological problems
 - Victims: internalising / emotional problems, peer problems
 - Bullies: externalising / conduct problems
 - Bully/victims: internalising & externalising problems

Explore whether any links of cyber-bullying types with viewing of suicide-related web-content is mediated by psychological problems

Surveying 'Europe'





Random stratified sample: ~ 1000 9-16 year old internet users per country; total of 25142 internet-users, 25 countries

- Fieldwork in spring/summer 2010; child + parent interviews at home, face to face
- Questions validated by cognitive/pilot testing; self-completion for sensitive questions; care with research ethics
- Informed by national stakeholders and an international advisory panel
- Survey covered access, use, activities, risks (sexual images, sexual messages, bullying, meeting strangers), parental mediation, coping, vulnerability

Cyber-bullying



Saying or doing hurtful or nasty things to someone. This can often be quite a few times on different days over a period of time, for example. This can include:

- teasing someone in a way this person does not like
- hitting, kicking or pushing someone around
- leaving someone out of things

When people are hurtful or nasty to someone in this way, it can happen:

- face to face (in person)
- by mobile phones (texts, calls, video clips)
- on the internet (e-mail, instant messaging, social networking, chatrooms)

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cyber-bullying

Viewing of suicide-related web-content*





*(11+ yrs., N = 19,406)

Psychological Problems*



Strengths and difficulties questionnaire (SDQ; Goodman, 1998)

- Emotional difficulties, e.g. "I am often unhappy, sad or tearful."
- Peer problems, e.g. "Other people my age generally like me." (reversed)
- Conduct problems, e.g. "I get very angry and often lose my temper."
 - 5 items each, 3-point scale: (1 = Not true, 2 = A bit true, 3 = Very true)

Borderline clinical cut-off points (Goodman et al., 2000)

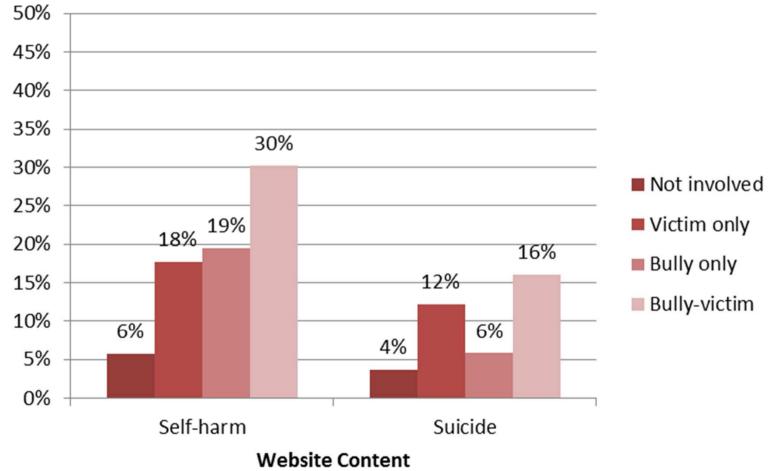
- Used widely for screening in CAMHS (Child & Adolescent Mental Health Services)
 - Emotional difficulties: sum > 6
 - Peer problems: sum > 4
 - Conduct problems: sum > 4

*(11+ yrs., N = 19,406)





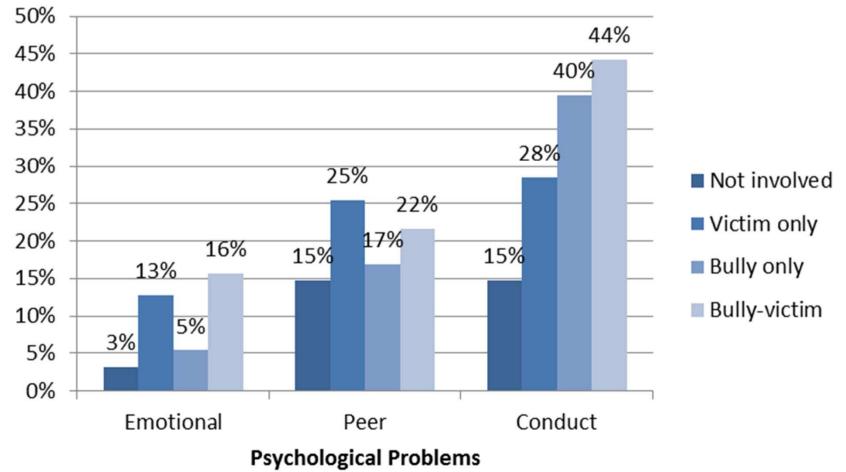
Percentages for Viewing of Suicide-Related Web-Content within Cyber-bullying Involvement Types.







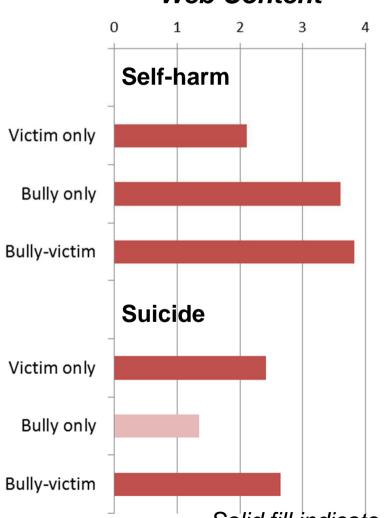
Percentages for Psychological Problems within Cyber-bullying Involvement Types.



Multi-Nominal Regressions: Viewing of Web-Content and Psychological Problems on Cyber-bullying Involvement Type



Regression – Step 1 (viewing of web content only) Odds Ratios (reference group: not involved; controls: age, gender)



Web Content

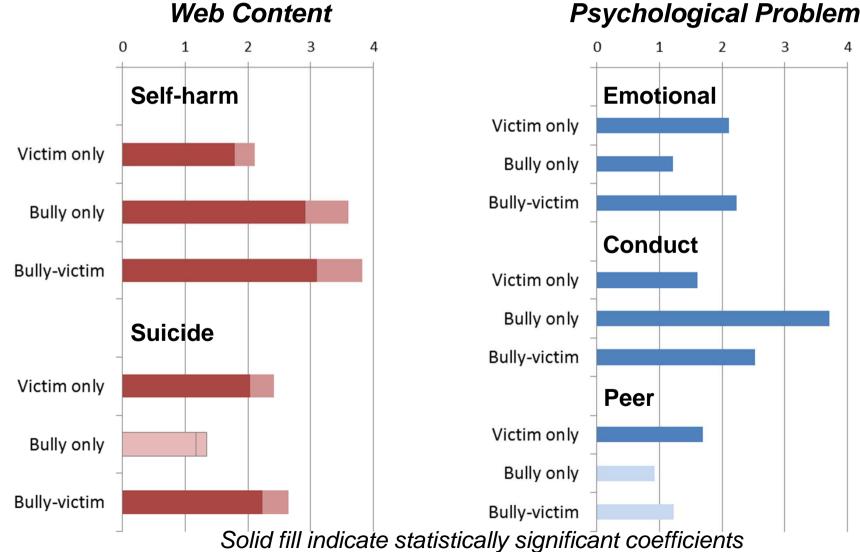
Solid fill indicate statistically significant coefficients

Multi-Nominal Regressions: Viewing of Web-Content and Psychological Problems on Cyber-bullying Involvement Type



Regression – Step 2 (+ psych problems)

Odds Ratios (reference group: not involved; controls: age, gender)



Psychological Problems

Discussion: Bullying & cyber-bullying Similar patterns?

Suicide-related web content

- Cyber-bully/victims most vulnerable
- Generally all involved groups more at risk than not involved
- <u>Exception</u>: suicide cyber-bullies no higher prevalence than not involved

Psychological problems

- Cyber-victims: emotional problems, peer problems
- Cyber-bullies: conduct problems
- Bully/victims: emotional problems, conduct problems
- <u>Exception</u>: conduct problems cyber-victims higher prevalence than not involved

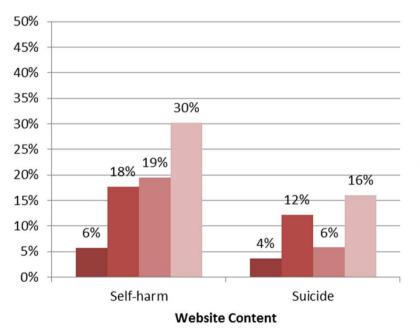
Psychological problems mediate between bullying and suicide-related behaviours?

- No change in coefficients when controlling for psychological problems
- Possible bi-directional nature of bullying and psychological problems (Kowalski & Limber, 2013)

Limitations



Cross-sectional study: no implications about causality



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Not involved
Victim only
Bully only
Bully-victim

Intentions of viewing suicide-related web-content

Implications



- Mental health problems for different cyber-bullying involvement types on the whole resemble those for bullying involvement types
- Same kind of youth involved in online and offline risks (Görzig & Livingstone, 2014)
- Integrative prevention and intervention strategies (Finkelhor, 2014; Livingstone & Smith, 2014)
- Focus on adolescents' specific problems and developmental needs (Jones et al., 2013)
 - Adolescents involved in (cyber-)bullying need support
 - Targeted towards involvement type
 - Prevent the causes and/or consequences of mental health problems



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THANK YOU!

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