

Public Seminar Series

'Protecting Children against Bullying and Cyberbullying'

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Cyberbullying

Consequences

Risk and protective factors

Interventions against bullying and cyberbullying

New horizons in bullying research

School bullying and cyberbullying

bullying



- -Among peers
 - Repeated
- Intentional
- Long-term
- Defined roles
- Power imbalance

- Bullying using electronic devices
 - Intentional
 - Repeated (under debate)
- Perpetrated by known and unknown people
 - In school and outside of schools (24/7)
 - Power imbalance (under debate)



cyberbullying

Is cyberbullying a form of bullying?

There is a strong relationship between bullying and cyberbullying (rs > .40)

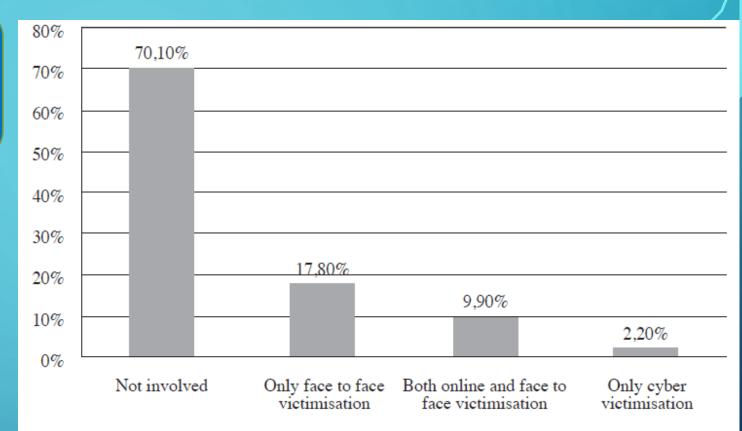


Figure 1. Percentages of students involved in different types of victimisation

Prevalence of cyberbullying and bullying roles analyzed jointly.							
	Uninvolved in cyberbullying	Cybervictim	Cyberperpetrator	Cyberbully/victim			
Uninvolved in bullying Bullying victim	27.1% 23.3%	0.8%	0.4%	1.4%			
Bullying perpetrator	4.1%	0.2%	1.6%	0.8%			
Bully/victim	12.3%	7%	2.2%	11.6%			

Prevalence of bullying and cyberbullying

Prevalence rates of bullying and cyberbullying vary greatly depending on:



Definitions

Cut-off points (frequency, timeframe)

Instruments

A systematic review of international studies showed:

- Bullying victimisation (35%) and cybervictimisation (15%)
- Bullying perpetration (36%) and cyberperpetration (16%)

Modecki et al. (2014)

A systematic review of Spanish studies focused on prevalence rates of cyberbullying found:

- median prevalence of victimization of 24.4% (range 4.6% to 78.31%)
 - median prevalence of perpetration 15.5% (range 2% to 56.5%)
 - Bully/victims (between 1.2% and 46%)

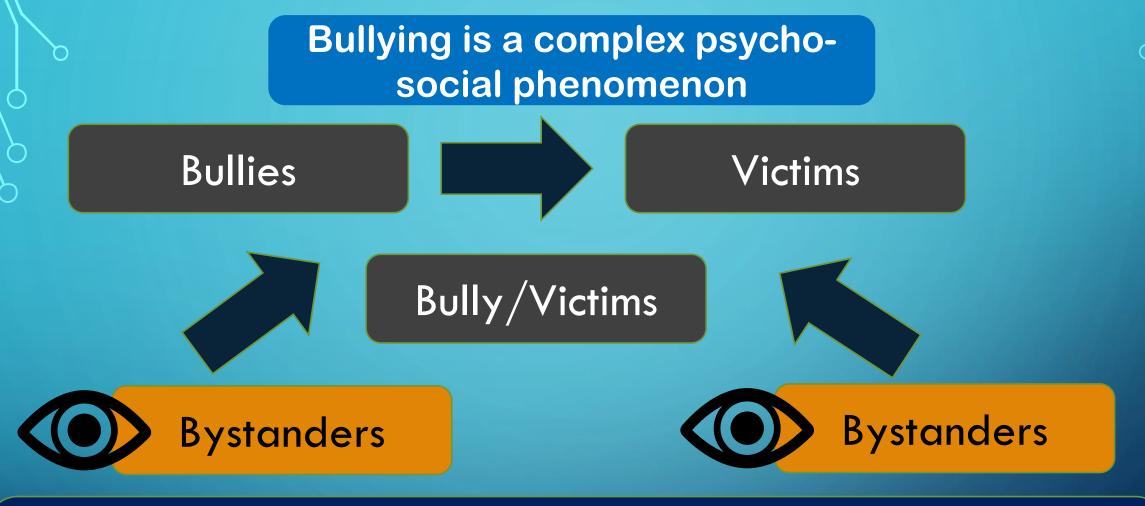


uninvolved

40.6% Bully/victims are the least stable group, the most aggressive and with low percentages of transitions to uninvolved







Bullying is a group phenomenon (Salmivalli et al., 2010), not only an individual behaviour. Bullies might achieve high social status in a peer group. Bystanders frequently reinforce the bully. Bystanders might sometimes help the victim.

Bullying is a complex psycho-social phenomenon

Security in schools and in the communities is related to less bullying (Bradshaw et al., 2013; Holt et al., 2014)

Involving families in school anti-bullying programmes was an effective component of these interventions (Farrington & Ttofi, 2009)

Positive peer influence was found to be related to less antisocial behaviour (Cook et al., 2010)

Individual factors such as empathy, social and emotional competencies and moral-disengagement were found to be related to bullying (Zych et al., 2017)

Bullying and cyberbullying are frequently analyzed from an ecological and systemic perspective (e.g., Baldry et al., 2015; Ortega et al., 2010) inspired on Bronfenbrenner's ecological theory (1994)

Bullying and cyberbullying have some very serious consequences



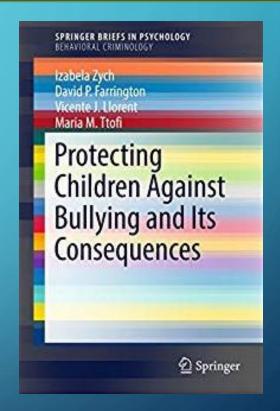
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Aggression and Violent Behavior



Systematic review of theoretical studies on bullying and cyberbullying: Facts, knowledge, prevention, and intervention

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Involvement in any bullying role has some very serious short and long term consequences. Nevertheless, more research on the topic is needed because most of the studies are cross-sectional and consequences are defined on a theoretical basis (tested as correlates)

Izabela Zych
David P. Farrington
Vicente J. Llorent
Maria M. Ttofi

Protecting
Children Against
Bullying and Its
Consequences

Bullying perpetration

Bully-victim status

Bullying victimization

Consequences

Offending later in life⁴

Suicidal behavior³

Suicidal ideation³

Weapon carrying⁶

Depression⁵

General self-esteem⁵

Social-esteem⁵

Loneliness⁵

Generalized and social anxiety

¹(Cook, et al., 2010)²(Gini, Pozzoli, & Hymel, 2014); ³(Holt et al., 2015); ⁴(Ttofi, Farrington, Losel, & Loeber, 2011); ⁵(Hawker & Boulton, 2000); ⁶(van Geel, Vedder, & Tanilon, 2014)

Cyberbullying

	Lauren effect				
Smaller effect	Larger effect				
Cyber-perpetration					
Kowalski and et al. (2014):	Kowalski and et al. (2014):				
- Anxiety (+),	 Drug and alcohol use (+) 				
- Depression (+),					
- Life satisfaction (-),					
- Self-esteem (-),					
Cubar victimization					
Cyber-victimization Veryalely and et al. (2014)	Vermelalsi and et al. (2014).				
Kowalski and et al. (2014):	Kowalski and et al. (2014):				
- Depression (+),	- Stress (+),				
- Self-esteem (-),	- Suicidal ideation (+)				
- Anxiety (+),					
 Loneliness (+), 					
 Life satisfaction (-), 					
 Conduct problems (+), 					
 Somatic symptoms (+), 					
 Emotional problems (+), 					
- Drug and alcohol use (+)					
Note: (+) = positive effect, (-) = negative effect					

Some studies focused on long-term consequences find that bullying victimisation is related to depression later in life (Ttofi, Farrington, Lösel, & Loeber, 2011), perpetration is related to offending later in life (Ttofi, Farrington, Losel, & Loeber, 2011), and perpetration is related to drug use later in life (Ttofi, Farrington, Losel, Crago, & Theodorakis, 2016) described in several meta-analyses.

There are many studies on the nature and dynamics of bullying. Many studies have focused on related variables conceptualised as risk factors.

However, fewer studies have focused on the possible predictors of bullying or cyberbullying (e.g., Farrington & Baldry, 2010). It is still necessary to advance knowledge regarding the way in which children and adolescents can be protected against bullying and cyberbullying.

Risk/protective factors

Externalizing behavior¹

Other-related cognition¹

Peer influence¹

Moral disengagement²

Self-related cognition¹

Academic performance¹

School-climate¹

Internalizing problems¹

Social competence¹

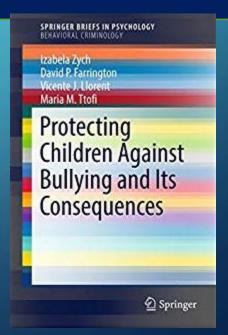
Peer status¹

Bullying perpetration

Bully-victim status

Bullying victimization

Several risk and protective factors against bullying have been identified. Again, more research on the topic is needed because most of the studies are cross-sectional and consequences are defined on a theoretical basis (tested as correlates)



¹(Cook, et al., 2010)²(Gini, Pozzoli, & Hymel, 2014); ³(Holt et al., 2015); ⁴(Ttofi, Farrington, Losel, & Loeber, 2011); ⁵(Hawker & Boulton, 2000); ⁶(van Geel, Vedder, & Tanilon, 2014)

Cyberbullying

Smaller effect	Larger effect	Very strong effect
Cyber-perpetration Kowalski et al. (2014): - Frequency of Internet use (+), - Anger (+), - Risky online behavior (+), - Narcissism (+), - Empathy (-), - School climate (-) - School safety (-)	Gini, Pozzoli, and Hymel (2014), Kowalski et al. (2014): - moral disengagement (+) Kowalski et al. (2014): - Normative beliefs about aggression (+)	Kowalski et al. (2014): - Cybervictimization (+)
Cyber-victimization Kowalski et al. (2014): - Frequency of Internet use (+), - Moral disengagement (+), - Risky online behavior (+) - Hyperactivity (+) - School safety (-) - school climate (-) Note: (+) = positive effect, (-) = n	egative effect	



Aggression and Violent Behavior

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Protective factors against bullying and cyberbullying: A systematic review of meta-analyses

Izabela Zych^{a,*}, David P. Farrington^b, Maria M. Ttofi^b

This systematic review included 18 meta-analyses focused on factors that could potentially protect children from being involved in different bullying and cyberbullying roles.

37 effect sizes for protective factors against bullying victimization

28 against cybervictimization

21 against bullying perpetration

24 against cyberperpetration

16 against being a bully/victim

1 for defenders

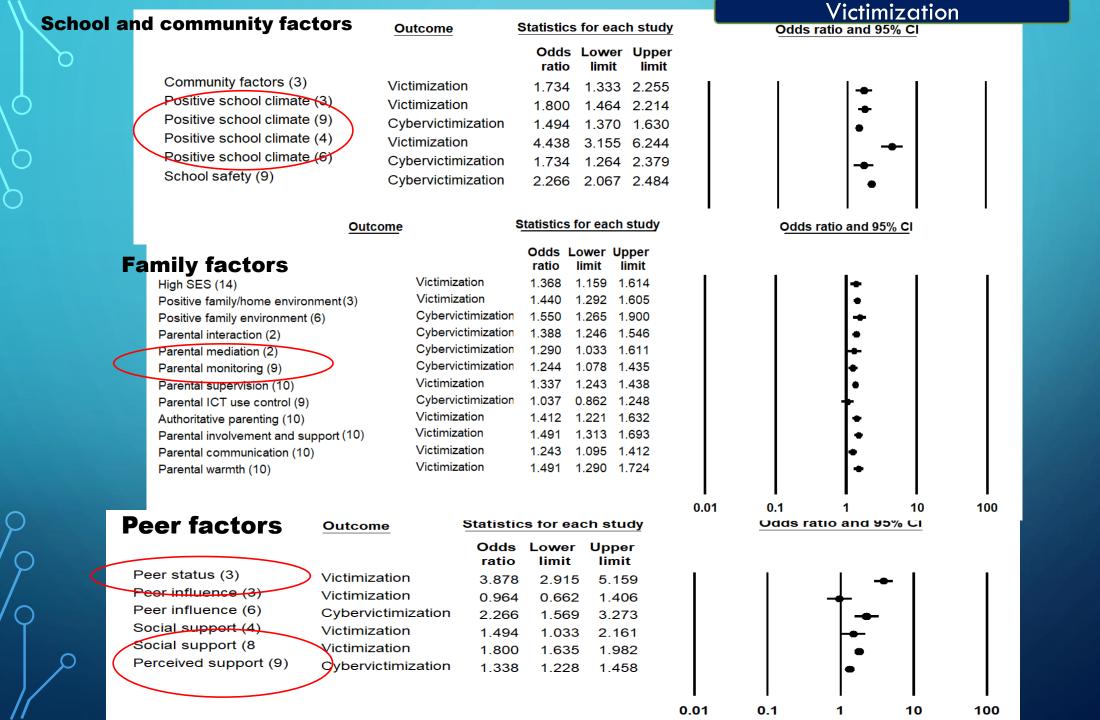
1 against being a cyberbully/victim

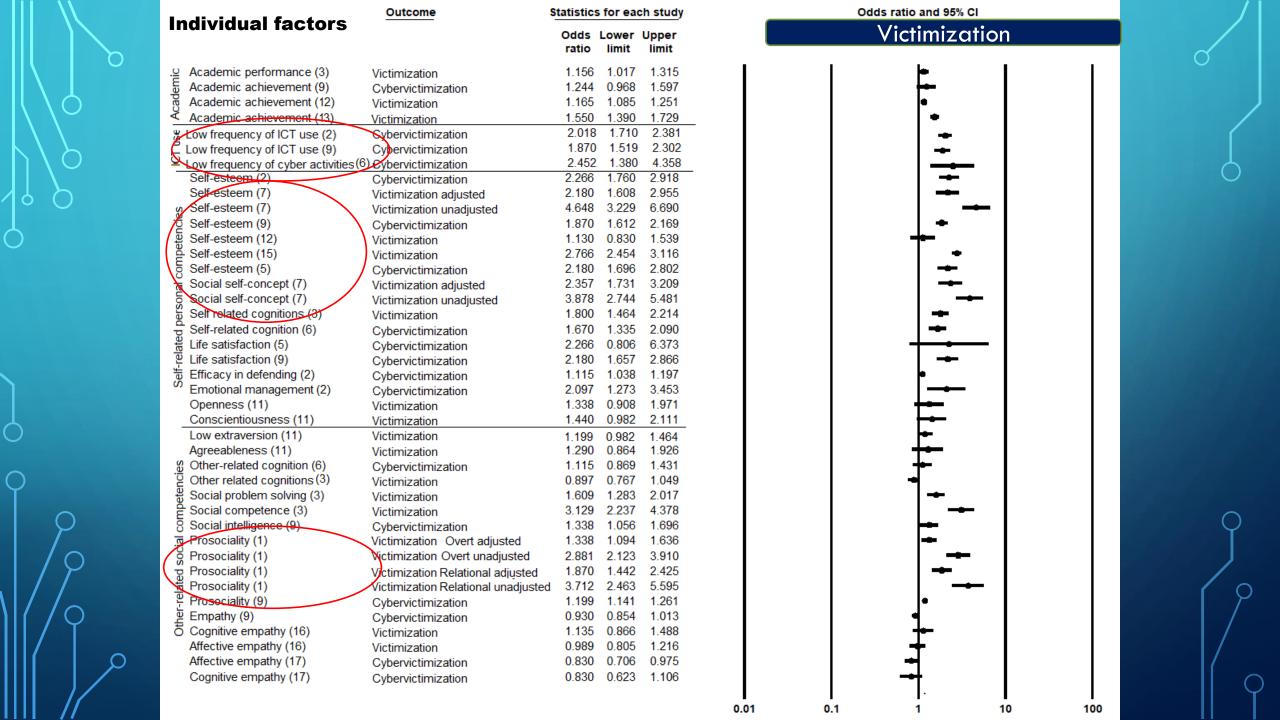
^a Universidad de Córdoba, Spain

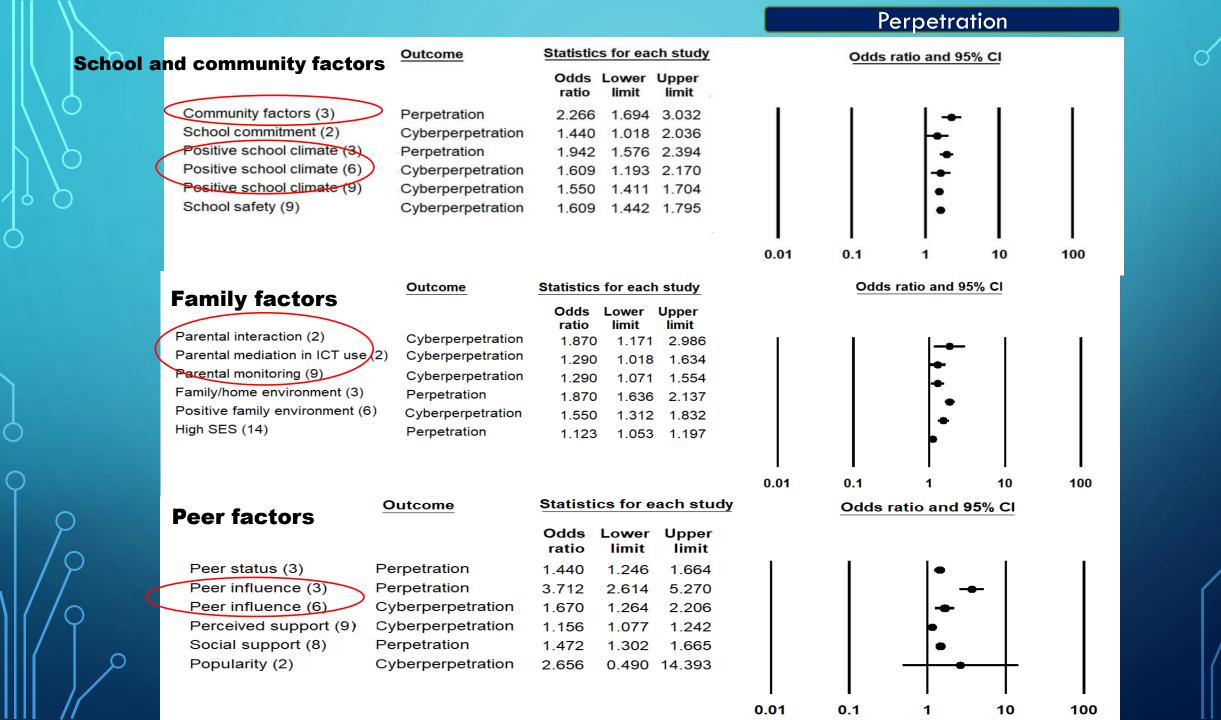
^b University of Cambridge, United Kingdom

Median effect sizes for community and school, family, peer and individual protective factors in different bullying roles

	Victimization			Perpetration			Bully/ victims
	Face to face	Cyber	Overall	Face to	Cyber	Overall	
Community and school	OR = 1.80	OR = 1.73	OR = 1.77	OR =	OR =	OR =	OR = 3.41
Family	OR = 1.41	OR = 1.29	OR = 1.38	OR =	OR =	OR = 1.42	OR = 1.82
Peer	OR = 1.65	OR = 1.80	OR = 1.65	OR =	OR =	OR = 1.57	OR = 4.98
Individual							OR = 2.10
Academic	OR = 1.16	OR = 1.24	OR = 1.20	OR = 2.18	OR =	OR = 1.78	
Low ICT use	-	OR = 2.02	-	-	OR =	-	
Self-oriented personal competencies	OR = 2.18	OR = 2.13	OR = 2.18	OR =	OR =	OR = 1.44	
Other-oriented social competencies	OR = 1.34	OR = 1.02	OR = 1.20	OR =	OR =	OR = 1.66	

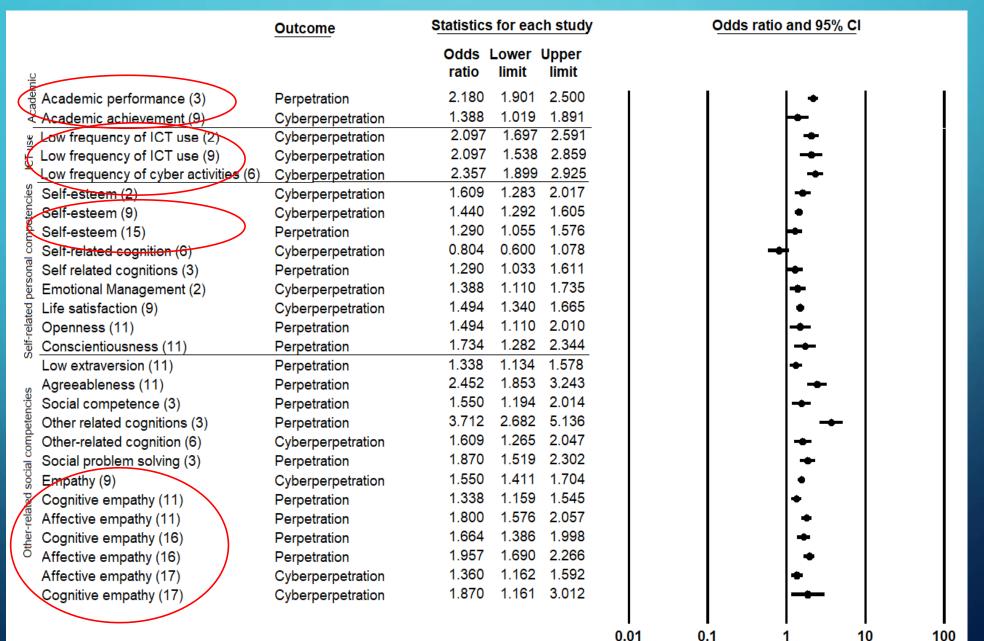






Perpetration

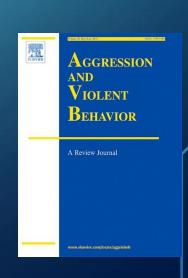
Individual factors



A developmental approach to cyberbullying: Prevalence and protective factors (Robin Kowalski, Susan Limber, Annie McCord)

This narrative review focused on prevalence and protective factors against cyberbullying (perpetration and victimisation) at different ages.

The review uses an ecological approach. The authors concluded that cyberbullying is present in all the age groups and that several risk and protective factors seem to be age-specific.

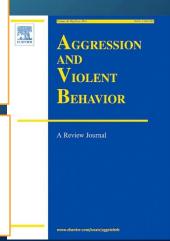


Consistency of gender differences in bullying in different crosscultural surveys (**Peter K. Smith, Leticia López-Castro, Susanne Robinson, Anke Görzig**)

Authors reviewed the biggest cross-national surveys (e.g., EU Kids Online) focusing on gender differences in bullying.

Boys are more involved in bullying perpetration in all the age groups, with a curvilinear relation: bigger differences with respect to females in childhood, smaller differences in early adolescence and bigger differences in late adolescence. Findings regarding victimization were inconsistent, in general with more male victims, but with differences across countries and age groups.

They concluded that research on protective factors and interventions should take into account these gender differences.



Parents and bullying behavior: a systematic review (Annalaura Nocentini, Giada Fiorentini, Ludovica Di Paola, Ersilia Menesini)

A systematic review of family factors in relation to bullying

Contextual

e.g. domestic violence

Relational

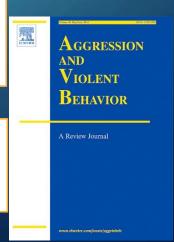
e.g. child abuse

Individual

e.g. parental attitude towards bullying

After systematic searches and applying inclusion and exclusion criteria, 155 studies were included.

Contextual and relational factors are related to bullying. The role of individual factors is less clear.



Standing up to bullying: A social ecological review of peer defending in offline and online contexts (Laura J. Lambe, Victoria Della Cioppa, Irene K. Hong, Wendy M. Craig)

Using an ecological approach, this study focused on individual, peer, family and school correlates of defending

This was a systematic review that included 25 studies after the systematic searches and applying the inclusion/exclusion criteria

VIOLENT BEHAVIOR

They concluded that defenders are:

Girls

Low on moral-disengagement

High on empathy

Popular

Good relationships with parents, teachers and schools

A literature review of protective factors associated with homophobic bullying and its consequences among children and adolescents (**Dorothy Espelage et al.**)

This systematic review on protective factors against homophobic bullying included 25 studies after systematic searches and applying inclusion/exclusion criteria.

Some of the protective factors were:

Individual

Social and emotional competencies

Family

Parental support and involvement

Peer

Norms and values in the peer grupo regarding sexual orientation

School

Positive school climate



Are children involved in cyberbullying low on empathy? A systematic review and meta-analysis of research on empathy versus different cyberbullying roles (Izabela Zych, Anna C. Baldry, David P. Farrington, Vicente J. Llorent)

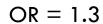
A systematic review and a meta-analysis on empathy in different cyberbullying roles that included 25 studies after conducting systematic searches and applying the inclusion/exclusion criteria

Perpetrators are low on affective and cognitive empathy

$$OR = 1.36$$

$$OR = 1.87$$

Perpetrators are low on empathy after controlling for covariates



Victimisation was not related to overall empathy

$$OR = .94$$

Victims could be high on affective empathy

$$OR = .83$$



Moral domain as a risk and protective factor against bullying. An integrating perspective review on the complexity of morality (Eva Romera, J. A. Casas, Olga Gómez, Rosario Ortega-Ruiz)

A narrative review focused on morality and bullying, including concepts such as moral knowledge, moral sensitivity, reasoning, emotion, motivation and identity, and group norms

The authors concluded that morality is a complex phenomenon and an interplay among all its elements should be analysed to understand its relation to bullying

All these elements of morality can protect children against bullying

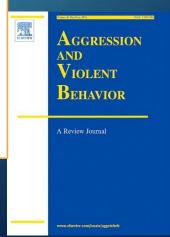


Cyberhate: A review and content analysis of intervention strategies (Catherine Blaya)

This narrative review focuses on a specific type of aggressive behaviour called cyberhate. There is a certain overlap between cyberhate and cyberbullying.

The author suggests three intervention areas such as improving laws, technology and education

Interventions against cyberhate are still needed. By now, they mostly focused on empowering the victims and there are no specific interventions aimed at decreasing perpetration

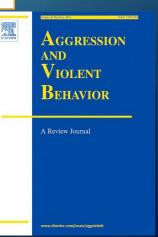


School-based anti-bullying interventions for adolescents in low- and middle income countries: A systematic review (Bhagya Sivaraman, Lucy Bowes)

This was a systematic review of anti-bullying interventions in low and middle income countries that included three studies after conducting systematic searches and applying inclusion/exclusion criteria

Results of these studies were inconclusive. There were doubts retarding the programme implementations.

Anti-bullying programmes in low and middle income countries are urgently needed



Interventions against bullying and cyberbullying

Research shows that interventions against bullying and cyberbullying can be effective. These programmes are being conducted around the world.

Evaluating the effectiveness of school-bullying prevention programs: An updated meta-analytical review (Hannah Gaffney, Maria Ttofi, David Farrington)

100 primary studies with 103 independent effect sizes; most of them were experimental or quasi-experimental studies. An overall effect size showed that these programmes were effective in reducing bullying perpetration by around 19% to 20%. They were also effective in reducing bullying victimisation by around 15% to 16%.

Are cyberbullying intervention and prevention programs effective? A systematic and meta-analytical review (Hannah Gaffney, David Farrington, Dorothy Espelage, Maria Ttofi)

24 primary studies with 26 independent evaluations. These programmes were also effective in reducing cyberbullying perpetration (around 10%-15% decrease) and cyberbullying victimisation (around 14% decrease).

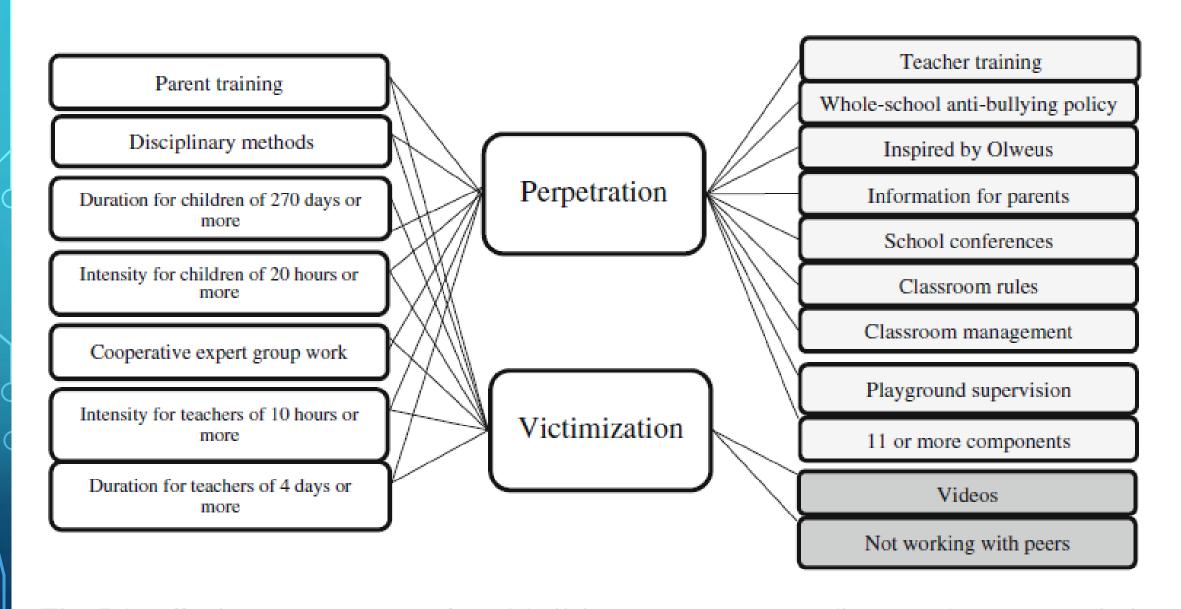


Fig. 5.1 Effective components of anti-bullying programs according to the meta-analysis conducted by Farrington and Ttofi (2009)

Conclusions

Meta-analyses found several protective factors against bullying and cyberbullying.

Most of the studies are cross-sectional. Thus, risk and protective factors cannot be clearly distinguished from consequences.

Studies focus on direct protective factors that are the other end of the scale of a risk factor. Linear relationships are assumed. More research is needed to discover buffering protective factors and non-linear relationships between bullying, cyberbullying and protective factors.

Anti-bullying and anti-cyberbullying programmes can be effective, but it is important to choose the right programme.

Implications

Tailored interventions to improve anti-bullying programmes and possibly interrupt the continuity of antisocial behaviours in youth could be designed based on these findings.

It seems possible to protect young people from bullying and its consequences, but more research in this field is urgently needed.

New horizons in research about bullying and cyberbullying

Longitudinal studies on predictors and consequences of bullying and cyberbullying

Research on protective factors

Projects in the understudied geographic areas

Tailored interventions

Randomised Controlled Trials

Connecting with projects on other antisocial behaviours

