BMJ Paediatrics Open

BMJ Paediatrics Open is committed to open peer review. As part of this commitment we make the peer review history of every article we publish publicly available.

When an article is published we post the peer reviewers' comments and the authors' responses online. We also post the versions of the paper that were used during peer review. These are the versions that the peer review comments apply to.

The versions of the paper that follow are the versions that were submitted during the peer review process. They are not the versions of record or the final published versions. They should not be cited or distributed as the published version of this manuscript.

BMJ Paediatrics Open is an open access journal and the full, final, typeset and author-corrected version of record of the manuscript is available on our site with no access controls, subscription charges or payper-view fees (http://bmjpaedsopen.bmj.com).

If you have any questions on BMJ Paediatrics Open's open peer review process please email info.bmjpo@bmj.com

BMJ Paediatrics Open

Bullying in children: impact on child health

Journal:	BMJ Paediatrics Open
Manuscript ID	bmjpo-2020-000939
Article Type:	Review
Date Submitted by the Author:	04-Dec-2020
Complete List of Authors:	Armitage, Richard; Division of Epidemiology and Public Health, University of Nottingham, Nottingham NG7 2RD, UK
Keywords:	Adolescent Health, Child Psychiatry, Psychology





I, the Submitting Author has the right to grant and does grant on behalf of all authors of the Work (as defined in the below author licence), an exclusive licence and/or a non-exclusive licence for contributions from authors who are: i) UK Crown employees; ii) where BMJ has agreed a CC-BY licence shall apply, and/or iii) in accordance with the terms applicable for US Federal Government officers or employees acting as part of their official duties; on a worldwide, perpetual, irrevocable, royalty-free basis to BMJ Publishing Group Ltd ("BMJ") its licensees and where the relevant Journal is co-owned by BMJ to the co-owners of the Journal, to publish the Work in this journal and any other BMJ products and to exploit all rights, as set out in our <u>licence</u>.

The Submitting Author accepts and understands that any supply made under these terms is made by BMJ to the Submitting Author unless you are acting as an employee on behalf of your employer or a postgraduate student of an affiliated institution which is paying any applicable article publishing charge ("APC") for Open Access articles. Where the Submitting Author wishes to make the Work available on an Open Access basis (and intends to pay the relevant APC), the terms of reuse of such Open Access shall be governed by a Creative Commons licence – details of these licences and which Creative Commons licence will apply to this Work are set out in our licence referred to above.

Other than as permitted in any relevant BMJ Author's Self Archiving Policies, I confirm this Work has not been accepted for publication elsewhere, is not being considered for publication elsewhere and does not duplicate material already published. I confirm all authors consent to publication of this Work and authorise the granting of this licence.

Title

Bullying in children: impact on child health

Corresponding author

Dr Richard Armitage

Division of Epidemiology & Public Health, University of Nottingham, Nottingham City

Hospital, Hucknall Road, Nottingham, NG5 1PB, UK

msxra37@nottingham.ac.uk

+44(0)7765065860

Keywords

Bullying

Cyber Bullying

Children's Health

Word count

Reference count

Abstract

Bullying in childhood is a major public health problem that increases the risk of poor health, social, and educational outcomes in childhood and adolescence. These consequences are felt by all those involved in bullying (bullies, victims, and bullyvictims), and are now recognised to propagate deep into adulthood. Cyberbullying is a relatively new type of bullying in addition to the traditional forms of direct physical, direct verbal, and indirect bullying. Children who are perceived as being 'different' in any way are at greater risk of victimisation, with physical appearance being the most frequent trigger of childhood bullying. Globally, one in three children have been bullied in the past 30 days, although there is substantial regional variation in the prevalence and type of bullying experienced. The consequences of childhood bullying can be categorised into three broad categories: educational consequences during childhood, health consequences during childhood, and all consequences during adulthood. Many dose-response relationships exist between the frequency and intensity of bullying experienced and the severity of negative health consequence reported. The majority of victims of cyberbullying are also victims of traditional bullying, meaning cyberbullying creates very few additional victims. Overall, adverse mental health outcomes due to bullying in childhood most severely impact on bully-victims. Bullying prevention is vital for the achievement of the Sustainable Development Goals, with whole-school cooperative learning interventions having the strongest evidence base for successful outcomes. Clear management and referral pathways for health professionals dealing with childhood bullying are lacking in both primary and secondary care, although specialist services are available locally and online.

Key messages

- Bullying in childhood is a global public health problem that impacts on child,
 adolescent and adult health
- Bullying exists in its traditional, sexual, and cyber forms, all of which impact on the physical, mental and social health of victims, bullies, and bully-victims
- Children perceived as 'different' in any way are at greater risk of victimisation
- Bullying is extremely prevalent: one in three children globally has been victimised in the preceding month
- Existing bullying prevention interventions are rarely evidence-based and alternative approaches are urgently needed

Introduction

Bullying in childhood has been classified by the World Health Organization (WHO) as a major public health problem,¹ and for decades has been known to increase the risk of poor health, social, and educational outcomes in childhood and adolescence.² Characterised by repeated victimisation within a power-imbalanced relationship, bullying encompasses a wide range of types, frequencies, and aggression levels, ranging from teasing and name-calling to physical, verbal, and social abuse.³ The dynamics within such relationships become consolidated with repeated and sustained episodes of bullying: bullies accrue compounding power while victims are stripped of their own and become progressively less able to defend themselves and increasingly vulnerable to psychological distress.⁴

However, only in the last decade have prospective studies been published that reveal the far-reaching effects of childhood bullying that extend into adulthood. There is now substantial evidence that being bullied as a child or adolescent has a causal relationship to the development of mental health issues beyond the early years of life, including depression, anxiety, and suicidality.⁵ As such, addressing the global public health problem of bullying in childhood has received increasing international attention and is vital for the achievement of Sustainable Development Goal 4.⁶ The impact of the COVID-19 pandemic on child health and education has focussed further attention on bullying in its digital form, so-called 'cyberbullying,' the prevalence of which is feared to be increasing.⁷

Types of bullying

Participants in childhood bullying take up one of three roles: the victim, the bully (or perpetrator), or the bully-victim (who is both a perpetrator and a victim of bullying).⁵ Victims and bullies either belong to the same peer group (peer bullying), or the same family unit (sibling bullying),⁸ although bullying frequently occurs in multiple settings simultaneously, such as at school (peer bullying) and in the home (sibling bullying), representing a ubiquitous ecology of bullying that permeates the child's life.

Three main types of bullying are observed, the typical characteristics of which are illustrated in Table 1.

Table 1. Typical characteristics of the main types of childhood bullying

Types	Typical characteristics	<u>Examples</u>	Reference
	Direct physical (overt physical aggression or assaults)	Pushing, punching and kicking	
		Teasing, taunting, or threatening	-
Traditional	Direct verbal (overt verbal	behaviour directed at the victim's	
bullying	attacks that are highly personal)	appearance, abilities, family,	9
bunying	200	culture, race or religion	
	Indirect (covert behaviour that	Passing nasty notes, offensive	-
	damages peer relationships,	graffiti, and defacing or damaging	
	self-esteem or social status)	personal property	
	Sexually bothering another	Inappropriate and unwanted	
Sexual	person (may also be referred to	touching, using sexualised	10
bullying	as 'sexual harassment')	language, and pressurising	
	as sexual harassment)	another to act promiscuously	
	Aggressive behaviour delivered	Spreading false stories about a	
Cyberbullying	through digital technology,	victim online, posting digital media	11
Systematics	specifically mobile phones, the	featuring a victim online without	
	internet, and social media	permission	

While traditional bullying has been recognised and studied for many decades, ¹² and is often accepted as an inevitable aspect of a normal childhood, ³ cyberbullying represents a relatively new phenomenon in which childhood bullying now takes place through digital modalities. The widespread uptake of electronic devices has reached almost complete saturation amongst adolescents in high-income countries, with users checking their devices hundreds of times and for hours each day. ¹³ While providing beneficial access to information and social support, this large and growing online exposure of young people renders them vulnerable to exploitation, gambling, and grooming by criminals and sexual abusers, as well as cyberbullying. ¹⁴ Due to the

increased potential for large audiences, anonymous attacks, and the permanence of posted messages, coupled with lower levels of direct feedback, reduced time and space limits, and decreased adult supervision, it is feared that cyberbullying may pose a greater threat to child and adolescent health that traditional bullying modalities.¹⁵

Factors that influence bullying

Two large-scale international surveys regularly conducted by the WHO – the Global School-based Student Health Survey (GSHS)¹⁶ and the Health Behaviour in Schoolaged Children (HBSC) study¹⁷ – provide data from 144 countries and territories in all regions of the world. These data identify specific factors that strongly influence the type, frequency, and severity of bullying experienced by children and adolescents globally. These factors, which are briefly described in Table 2, suggest that children who are perceived as being 'different' in any way are at greater risk of victimisation.

Table 2. Summary of factors that influence child and adolescent bullying 18

Influencing factor	<u>Description</u>
	Globally, girls and boys are equally likely to experience bullying.
	Boys are more likely to experience direct physical bullying; girls are more likely
	to experience direct verbal and indirect bullying.
Sex differences	Girls are more likely than boys to experience bullying based on physical
	appearance.
	Globally, there are no major differences in the extent to which girls and boys
	experience sexual bullying, but there are regional differences.

	Girls are more likely than boys to be cyberbullied via digital messages, but
	there is less discrepancy between the sexes in the prevalence of cyberbullying
	via digital pictures.
	As children grow older, they are less likely to experience bullying by peers.
Age differences	Age differences are less pronounced for bullying perpetration.
	Older children may be more exposed to cyberbullying.
Not conforming to	Children viewed as gender non-conforming are at higher risk of bullying.
gender norms	Children viewed as gender non-comorning are at higher risk of bullying.
Physical	Physical appearance is the most frequent reason for bullying.
appearance	Body dissatisfaction and being overweight are associated with bullying.
Race, nationality	Bullying based on race, nationality or colour is the second most frequent
or colour	reason for bullying reported by children.
Religion	Compared to other factors, religion is mentioned by far fewer children as a
rteligion	reason for being bullied.
	Socio-economic disadvantage is associated with increased risk of being
Socio-economic	bullied.
status	A similar relationship is seen between self-perceived social status and
	cyberbullying.
Migration status	Immigrant children are more likely to be bullied than their native-born peers.
School	A positive cabaal anvironment raduces bullying
environment	A positive school environment reduces bullying.
Peer and family	Family support and communication can be an important protective factor.
support	ramily support and communication can be an important protective factor.

Prevalence of bullying

A 2019 report from the United Nations Educational, Scientific and Cultural Organization (UNESCO), 18 examined the global prevalence of bullying in childhood and adolescence using data from the GSHS and HBSC studies along with addition

data from the Progress in International Reading Literacy Study (PIRLS)¹⁹ and Programme for International Students Assessment (PISA).²⁰ It found that almost one in three (32%) children globally has been the victim of bullying on one or more days in the preceding month, and that one in 13 (7.3%) has been bullied on six or more days over the same period.¹⁸ However, there is substantial regional variation in the prevalence of bullying across the world, ranging from 22.8% of children being victimised in Central America, through 25.0% and 31.7% in Europe and North America respectively, to 48.2% in Sub-Saharan Africa. There is also significant geographical variation in the type of bullying reported, with direct physical and sexual bullying being dominant in low- and middle-income countries, and indirect bullying being the most frequent type in high-income regions. Nevertheless, bullying is a sizeable public health problem of truly global importance.

Encouragingly, there has been a decrease in the prevalence of bullying in half (50.0%) of countries since 2002, while 31.4% have seen no significant change over this timeframe. However, 18.6% of countries have witnessed an increase in childhood bullying, primarily amongst members of one sex or the other, although in both girls and boys in North Africa, Sub-Saharan Africa, Myanmar, the Philippines, and United Arab Emirates. However, 18.6% of countries have witnessed an increase in childhood bullying, primarily amongst members of one sex or the other, although in both girls and boys in North Africa, Sub-Saharan Africa, Myanmar, the Philippines, and United

Since its appearance, cyberbullying has received substantial media attention claiming that the near-ubiquitous uptake of social media amongst adolescents has induced a tidal wave of online victimisation and triggered multiple high-profile suicides amongst adolescents after being bullied online.^{21,22} However, a recent meta-analysis suggests that cyberbullying is far less prevalent than bullying in its traditional forms, with rates

of online victimisation less than half of those offline.²³ The study also found relatively strong correlations between bullying in its traditional and cyber varieties, suggesting victims of online bullying are also likely to be bullied offline, and that that these different forms of victimisation reflect alternative methods of enacting the same perpetrator behaviour. Recent evidence from England also indicates difference between sexes, with one in 20 adolescent girls and one in 50 adolescent boys reporting cyberbully victimisation over the previous two months.²⁴

Consequences of bullying

There is a vast range of possible consequences of bullying in childhood, determined by multiple factors including the frequency, severity, and type of bullying, the role of the participant (victim, bully, or bully-victim), and the timing at which the consequences are observed (during childhood, adolescence, or adulthood). The consequences can be categorised into three broad categories: educational consequences during childhood and adolescence, health consequences during childhood and adolescence, and all consequences during adulthood. Each will now be discussed individually.

Educational consequences during childhood and adolescence

Children who are frequently bullied are more likely to feel like an outsider at school,²⁰ while indirect bullying specifically has been shown to have a negative effect on socialisation and feelings of acceptance amongst children in schools.²⁵ Accordingly, a child's sense of belonging at school increases as bullying decreases.¹⁹ In addition, being bullied can affect continued engagement in education. Compared with those who are not bullied, children who are frequently bullied are nearly twice as likely to

regularly skip school, and are more likely to want to leave school after finishing secondary education.²⁰ The effect of frequent bullying on these educational consequences is illustrated in Table 3.

Table 3. Relationship between being frequently bullied and educational consequences²⁰

	Not frequently	Frequently
<u>Consequence</u>	bullied	<u>bullied</u>
Feeling like an outsider (or left out of things at school)	14.9%	42.4%
Feeling anxious for a test even if well prepared	54.6%	63.9%
Skipped school at least 3-4 days in previous two weeks	4.1%	9.2%
Expected to end education at the secondary level	34.8%	44.5%

Children who are bullied score lower in tests than those who are not. For example, in 15 Latin American countries, the test scores of bullied children were 2.1% lower in mathematics and 2.5% lower in reading than non-bullied children.²⁵ Compared with children never or almost never bullied, average learning achievement scores were 2.7% lower in children bullied monthly, and 7.5% lower in children bullied weekly, indicating a dose-response relationship. These findings are globally consistent across both low- and high-income countries.²⁰

Health consequences during childhood and adolescence

Numerous meta-analyses,^{2,26,27,28,29} longitudinal studies,^{5,30,31} and cross-sectional studies^{32,33,34} have demonstrated strong relationships between childhood bullying and physical, mental, and social health outcomes in victims, bullies, and bully-victims. Some of these consequences are illustrated in Table 4. Reported physical health outcomes are mostly psychosomatic in nature. Most studies focused on the impacts

on victims, although adverse effects on bullies and bully-victims are also recognised. Many studies identified a dose-response relationship between the frequency and intensity of bullying experienced and the severity of negative health consequence reported.

Table 4. Summary of childhood health consequences of bullying during childhood

	<u> </u>	xperience	ed by	<u>Reference</u>
	Victim	Bully	Bully-	
			<u>victim</u>	
Physical health outcomes				
Unspecified psychosomatic	x			27
				27
symptoms				
Feeling tired	X			27
Poor appetite	х			27
Stomach ache	х			27
Sleeping difficulties	х			27
Headache	х		٧.	27
Back pain	х		0	27
Dizziness	Х			27
Mental health outcomes				
Depression	х		х	2,5
Anxiety	х		х	2,5,26
Psychotic symptoms	х			27,31
Self-harm	x			30
Suicidal ideation	х	x	Х	5,27,28,29
Suicidal behaviour	х	x	Х	27,28,29

Illicit substance misuse	х			26,27
Alcohol misuse	х	х		26,27,32
Smoking	х	х	Х	32
Panic disorder	X		X	5,27
Loneliness	Х		x	2,32
Low self-esteem	х			2
Hyperactivity			Х	26
Disturbed personality		х	х	5,26
Social health outcomes				
Isolation			Х	26
Poor school adjustment	>/	х		26
Poor social adjustment			х	26
Externalising problems		х		26
Risky sexual behaviour	x			27
Weapon carrying	х	x		33
Disconnectedness with parents	х		۷.	34

While there is significant regional variation, the association between childhood bullying and suicidal ideation and behaviour are recognised globally.³⁵ Alarmingly, childhood bully victimisation is associated with a risk of mental health problems similar to that experienced by children in public or substitute care.³⁶ Victimisation in sibling bullying is associated with substantial emotional problems in childhood including low self-esteem, depression and self-harm,⁸ and increases the risk of further victimisation through peer bullying. Overall, adverse mental health outcomes due to bullying in

childhood appear to most severely impact on bully-victims, followed by victims and bullies.^{5,37}

9 out of 10 adolescents who report victimisation by cyberbullying are also victims of bullying in its traditional forms,³⁸ meaning cyberbullying creates very few additional victims,³⁹ but is another weapon in the bully's arsenal and has not replaced traditional methods.⁴⁰ Cyberbullying victimisation appears to be an independent risk factors for mental health problems only in girls, and is not associated with suicidal ideation in either sex.⁴¹ As such, traditional bullying is still the major type of bullying associated with poor mental health outcomes in children and adolescents.²⁴

Consequences during adulthood

A recent meta-analysis⁴² and numerous other prospective longitudinal studies^{5,36,43,44} that used large, population-based, community samples analysed through quantitative methods suggest that childhood bullying can lead to three main negative outcomes in adulthood for victims, bullies, and bully-victims: psychopathology, suicidality, and criminality. Some of these consequences are illustrated in Table 5.

Table 5. Summary of adulthood consequences of bullying during childhood

	Experienced by		ed by	Reference
	Victim	Bully	Bully-	
			<u>victim</u>	
Psychopathology		I		
Depression	x	x	X	5,36,43,44
Anxiety	х	х	х	5, 36,43

Panic disorder	X	x	Х	5,43	
Disturbed personality		х		5	
Suicidality	Х	х	х	5,36,43	
Criminality				42	
Violent crime		X	x	42	
Illicit drug misuse		Х	Х	42	

A strong dose-response relationship exists between frequency of peer victimisation in childhood and adolescence and the risk of adulthood adversities.⁴² For example, frequently bullied adolescents are twice as likely to develop depression in early adulthood compared with non-victimised peers, and is seen in both males and females.⁴⁴ Startlingly, the effects of this dose-response relationship seems to persist until at least 50 years of age.³⁶

The impact of childhood bully victimisation on adulthood mental health outcomes is staggering. Approximately 29% of the adulthood depression burden could be attributed to victimisation by peers in adolescence,⁴⁴ and bully victimisation by peers is thought to have a greater impact on adult mental health than maltreatment by adults, including sexual and physical abuse.⁴⁵ Finally, these consequences reach beyond the realm of health, as childhood bullying victimisation is associated with a lack of social relationships, economic hardship, and poor perceived quality of life at age 50. ³⁶

Bullying prevention

Until not long ago, being bullied was considered a normal rite of passage through which children must simply persevere.³ However, the size and scale of its impact on child health, and later on adulthood health, is now clearly understood and renders it a significant public health problem warranting urgent attention.¹ While parental and peer support are known to be protective against victimisation, regardless of global location, cultural norms or socioeconomic status,⁴⁶ structured programmes have been deployed at scale to prevent victimisation and its associated problems.

School-based interventions have been shown to significantly reduce bullying behaviour in children and adolescents. Whole-school approaches incorporating multiple disciplines and high levels of staff engagement provide the greatest potential for successful outcomes, while curriculum-based and targeted social skills training are less effective methods that may even worsen victimisation.⁴⁷ The most widely adopted approach is the Olweus Bullying Prevention Program (OBPP), a comprehensive, school-wide programme designed to reduce bullying and achieve better peer relations among school-aged children.¹² However, despite its broad global uptake, meta-analyses of studies examining the effectiveness of the OBPP have shown mixed results across different cultures.^{48,49,50}

Cooperative learning, in which teachers increase opportunities for positive peer interaction through carefully structured, group-based learning activities in schools, is an alternative approach to bullying prevention that has recently gained traction and been shown to significantly reduced bullying and its associated emotional problems while enhancing student engagement and educational achievement.⁵¹

Due to the link between sibling and peer bullying, there have been calls for bullying prevention interventions to be developed and made available to start in the home, and for general practitioners and paediatricians to routinely enquire about sibling bullying.⁸

While countless cyberbullying prevention programmes, both off- and online, are marketed to educational institutions, only a small proportion have been rigorously evaluated.⁵² Furthermore, as cyberbullying rarely induces negative impacts on child health independently, interventions to tackle these effects must also target traditional forms of bullying to have meaningful impact.

Addressing the global public health problem of bullying in childhood and adolescence is vital for the achievement of the Sustainable Development Goals. In recognition of this, UNESCO recently launched its first International Day Against Violence and Bullying at School, an annual event which aims to build global awareness about the problem's scale, severity, and need for collaborative action.⁵³ Meaningful progress on this problem is urgently needed to increase mental wellbeing and reduce the burden of mental illness in both children and adults globally. Suggestions for immediate action are briefly described in Box 1.

Box 1. Actions needed to improve child health through the prevention of bullying

- Promote the importance of parental and peer support in the prevention of bully victimisation across families and schools
- Educate health professionals about the consequences of childhood bullying, and provide training and resources to allow identification, appropriate management and timely referral of such cases (see below)

- Develop and make widely available bullying prevention interventions that tackle sibling bullying in the home
- Create and deploy whole-school cooperative learning approaches to reduce bullying within educational institutions
- Address cyberbullying with evidence-based interventions that also tackle traditional forms of bullying
- Increase awareness of the impacts of bullying on child health amongst primary care professionals

What to do if you suspect childhood bullying

GPs recognise their responsibility to deal with disclosures of childhood bullying and its associated health consequences, but feel unable to adequately do so due to the constraints of time-pressured primary care consultations, and uncertainty around the specialist services to which such children can be appropriately referred.⁵⁴

Clear management and referral pathways for health professionals dealing with childhood bullying are lacking in both primary and secondary care. Local, national and online anti-bullying organisations, such as Ditch the Label⁵⁵ and the Anti-Bullying Alliance,⁵⁶ provide free advice for children affected by bullying, and their parents, teachers, and health professionals, along with free online certified CPD training for anyone working with children. School nurses continue to act as liaisons between primary care and education systems,⁵⁷ and should be central to the multi-disciplinary management of childhood bullying. Finally, if bullying is considered to be contributory to childhood depression, Child and Adolescent Mental Health Services, along with

primary care practitioners and educational professionals, should work collaboratively to foster effective antibullying approaches.⁵⁸

- ³ The Lancet Psychiatry. Why be happy when you could be normal? *The Lancet Psychiatry* 01 October 2015; 2(**10**): 851. DOI: 10.1016/S2215-0366(15)00420-4
- ⁴ D Olweus. Bully/victim problems among school children: some basic facts and effects of a school-based intervention program. In: D Pepler, K Rubin K. *The development and treatment of childhood aggression*. Hillsdale, NJ, Erlbaum, 1991: 411-448.
- ⁵ WE Copeland, D Wolke, A Angold, et al. Adult psychiatric outcomes of bullying and being bullied by peers in childhood and adolescence. *JAMA Psychiatry* April 2013; 70: 419–426. DOI: 10.1001/jamapsychiatry.2013.504
- ⁶ UNESCO. TCG4: Development of SDG thematic indicator 4.a.2. January 2018. http://tcg.uis.unesco.org/wp-content/uploads/sites/4/2018/08/TCG4-41-Development-of-Indicator-4.a.2.pdf [accessed 28 November 2020]

¹ World Health Organization. Social determinants of health and well-being among young people. Health Behaviour in School-aged Children (HBSC) study: international report from the 2009/2010 survey. Health Policy for Children and Adolescents, No. 6. 2012. https://www.euro.who.int/__data/assets/pdf_file/0003/163857/Social-determinants-of-health-and-well-being-among-young-people.pdf [accessed 28 November 2020]

² DS Hawker, MJ Boulton. Twenty years' research on peer victimization and psychosocial adjustment: a meta-analytic review of cross-sectional studies. *Journal of Child Psychology and Psychiatry* June 2000; 41(**4**): 441-455. DOI: 10.1111/1469-7610.00629

- ⁷ UN News. Violence and bullying affect one in three students, education experts warn. 05 November 2020. https://news.un.org/en/story/2020/11/1076932 [accessed 29 November 2020]
- ⁸ D Wolke, N Tippett, S Dantchev. Bullying in the family: sibling bullying. *The Lancet Psychiatry* 01 October 2015; 2(**10**): 917-929. DOI: 10.1016/S2215-0366(15)00262-X
- ⁹ I Rivers, PK Smith. Types of bullying behaviour and their correlates. *Aggressive Behaviour* 1994; 20(**5**): 359-368. DOI: 10.1002/1098-2337(1994)20:5<359::AID-AB2480200503>3.0.CO;2-J
- ¹⁰ LE McMaster, J Connolly, D Peplar, WM Craig. Peer to peer sexual harassment in early adolescence: A developmental perspective. *Developmental Psychopathology* 2020; 14: 91-105. DOI: 10.1017/s0954579402001050
- ¹¹ R Slonje, PH Smith. Cyberbullying: another main type of bullying? *Scandinavian Journal of Psychology* April 2008; 49(**2**): 147-54. DOI: 10.1111/j.1467-9450.2007.00611.x
- ¹² Olweus D. Bullying at school: What we know and what we can do. Oxford, UK: Blackwell; 1993.
- ¹³ S Haug, RP Castro, M Kwon, et al. Smartphone use and smartphone addiction among young people in Switzerland. *Journal of Behavioral Addiction* 01 December 2015; 4(**4**): 299-307. DOI: 10.1556/2006.4.2015.037
- ¹⁴ H Clark, AM Coll-Seck, A Banerjee, et al. A future for the world's children? A WHO–UNICEF–*Lancet*Commission. *The Lancet* 22 February 2020; 395(10224): 605-658. DOI: 10.1016/S0140-6736(19)32540-1
- ¹⁵ F Sticca, S Perren. Is Cyberbullying Worse than Traditional Bullying? Examining the Differential Roles of Medium, Publicity, and Anonymity for the Perceived Severity

of Bullying. *Journal of Youth and Adolescence* 2013; 42: 739-750. DOI: 10.1007/s10964-012-9867-3

- ¹⁶ World Health Organization. Global school-based student health survey (GSHS). https://www.who.int/ncds/surveillance/gshs/en/ [accessed 29 November 2020]
- ¹⁷ World Health Organization Regional Office for Europe. Health Behaviour in School-aged Children (HBSC). https://www.euro.who.int/en/health-topics/Life-stages/child-and-adolescent-health/health-behaviour-in-school-aged-children-hbsc [accessed 29 November 2020]
- ¹⁸ UNESCO. Behind the numbers: Ending school violence and bullying. 2019. https://unesdoc.unesco.org/ark:/48223/pf0000366483 [accessed 27 November 2020]
- ¹⁹ International Association for the Evaluation of Educational Achievement. Progress in International Reading Literacy Study. https://www.iea.nl/studies/iea/pirls [accessed 29 November 2020]
- Organisation for Economic Co-operation and Development. Programme for International Student Assessment. https://www.oecd.org/pisa/ [accessed 29 November 2020]
- ²¹ A Harrison. Cyber-bullying: Horror in the home. *BBC News Online* 17 August 2013. https://www.bbc.co.uk/news/education-23727673 [accessed 02 December 2020]
- ²² P McGraw. It's time to stop the cyberbullying epidemic. *Huffington Post* 05 June 2015. http://www.huffingtonpost.com/dr-phil/stop-cyberbullying_b_6647990.html [accessed 02 December 2020]
- ²³ KL Modecki, J Minchin, AG Harbaugh, et al. Bullying Prevalence Across Contexts: A Meta-analysis Measuring Cyber and Traditional Bullying. *Journal of Adolescent Health* 01 November 2014; 55(**5**): 602-611. DOI: 10.1016/j.jadohealth.2014.06.007

- ²⁴ AK Przbylski, L Bowes. Cyberbullying and adolescent well-being in England: a population-based cross-sectional study. *The Lancet Child & Adolescent Health* 01 September 2017; 1(1): 19-26. DOI: https://doi.org/10.1016/S2352-4642(17)30011-1
- ²⁵ UNESCO. Third Regional Comparative and Explanatory Study on Education Quality (TERCE). 28 August 2015. http://www.unesco.org/new/en/media-services/single-
- view/news/third_regional_comparative_and_explanatory_study_on_educatio/ [accessed 30 November 2020]
- ²⁶ G Gini, T Pozzoli. Association between bullying and psychosomatic problems: a meta-analysis. *Pediatrics* March 2009; 123(**3**): 1059-1065. DOI: 10.1542/peds.2008-1215
- ²⁷ SE Moore, RE Norman, S Suetani. Consequences of bullying victimization in childhood and adolescence: A systematic review and meta-analysis. *World Journal of Psychiatry* 22 March 2017; 7(1): 60-76. DOI: 10.5498%2Fwjp.v7.i1.60
- ²⁸ MK Holt, AM Vivolo-Kantor, JR Polanin, et al. Bullying and suicidal ideation and behaviors: a meta-analysis. *Pediatrics* February 2015; 135(**2**): e496-e509. DOI: 10.1542/peds.2014-1864
- ²⁹ M van Geel, P Vedder, J Tanilon. Relationship Between Peer Victimization, Cyberbullying, and Suicide in Children and Adolescents: A Meta-analysis. *JAMA Pediatrics* May 2014; 168(**5**): 435-442. DOI: 10.1001/jamapediatrics.2013.4143
- ³⁰ HL Fisher, TE Moffitt, RM Houts, et al. Bullying victimisation and risk of self harm in early adolescence: longitudinal cohort study. *BMJ* 26 April 2012; 344: e2683. DOI: 10.1136%2Fbmj.e2683

- ³¹ G Catone, S Marwaha, E Kuipers, et al. Bullying victimisation and risk of psychotic phenomena: analyses of British national survey data. *The Lancet Psychiatry* 01 July 2015; 2(**7**): 618-624. DOI: 10.1016/S2215-0366(15)00055-3
- ³² TR Nansel, M Overpeck, RS Pilla, et al. Bullying behaviors among US youth: prevalence and association with psychosocial adjustment. *JAMA* 25 April 2001; 285(**16**): 2094-2100. DOI:10.1001/jama.285.16.2094
- ³³ TR Nansel, M Overpeck, DL Haynie, et al. Relationships Between Bullying and Violence Among US Youth. *Archives of Pediatric and Adolescent Medicine* April 2003;157(4): 348-353. DOI:10.1001/archpedi.157.4.348
- ³⁴ Y Harel. A cross-national study of youth violence in Europe. *International Journal of Adolescent Medicine and Health* 01 July 1999, 11(**3**): 121-134. DOI: 10.1515/IJAMH.1999.11.3-4.121
- ³⁵ JJ Tang, Y Yu, HC Wilcox, et al. Global risks of suicidal behaviours and being bullied and their association in adolescents: School-based health survey in 83 countries. EClinicalMedicine 01 February 2020; 19: 100253. DOI: 10.1016/j.eclinm.2019.100253.
- ³⁶ R Takizawa, B Maughan, L Arseneault. Adult health outcomes of childhood bullying victimization: evidence from a five-decade longitudinal British birth cohort. *American Journal of Psychiatry* July 2014; 171(**7**): 777-84. DOI: 10.1176/appi.ajp.2014.13101401
- ³⁷ J Juvonen, S Graham, MA Schuster. Bullying among young adolescents: the strong, the weak, and the troubled. *Pediatrics* December 2003; 112(**6**): 1231-7. DOI: 10.1542/peds.112.6.1231. PMID: 14654590.
- ³⁸ RM Kowalski, SP Limber. Psychological, physical, and academic correlates of cyberbullying and traditional bullying. *Journal of Adolescent Health* July 2013;53(1 Suppl): S13-20. DOI: 10.1016/j.jadohealth.2012.09.018

- ³⁹ D Wolke, K Lee, A Guy. Cyberbullying: a storm in a teacup? *European Journal of Child & Adolescent Psychiatry* February 2017; 26: 899–908. DOI: 10.1007/s00787-017-0954-6
- ⁴⁰ D Wolke. Cyberbullying: how big a deal is it? *The Lancet Child & Adolescent Health* 01 September 2017; 1(1): 2-3. DOI: 10.1016/S2352-4642(17)30020-2
- ⁴¹ R Bannink, S Broeren, PM van de Looij-Jansen, et al. Cyber and Traditional Bullying Victimization as a Risk Factor for Mental Health Problems and Suicidal Ideation in Adolescents. *PLOS ONE* 09 April 2014. DOI: 10.1371/journal.pone.0094026
- ⁴² AB Klomek, A Sourander, H Elonheimo. Bullying by peers in childhood and effects on psychopathology, suicidality, and criminality in adulthood. *The Lancet Psychiatry* 01 October 2015; 2(**10**):930-941. DOI: 10.1016/S2215-0366(15)00223-0
- ⁴³ JF Sigurdson, AM Undheim, JL Wallander, et al. The long-term effects of being bullied or a bully in adolescence on externalizing and internalizing mental health problems in adulthood. *Child and Adolescence Psychiatry and Mental Health* 23 August 2015; 9: 42. DOI: 10.1186/s13034-015-0075-2
- ⁴⁴ L Bowes, C Joinson, D Wolke, L Glyn. Peer victimisation during adolescence and its impact on depression in early adulthood: prospective cohort study in the United Kingdom. *BMJ* June 2015; 350: h2469. DOI: 10.1136/bmj.h2469
- ⁴⁵ ST Lereya, WE Copeland, EJ Costello, et al. Adult mental health consequences of peer bullying and maltreatment in childhood: two cohorts in two countries. *The Lancet Psychiatry* 01 June 2015; 2(**6**): 524-531. DOI: 10.1016/S2215-0366(15)00165-0
- ⁴⁶ T Biswas, JG Scott, K Munir, et al. Global variation in the prevalence of bullying victimisation amongst adolescents: Role of peer and parental supports.

EClinicalMedicine 01 March 2020; 20: 100276. DOI: 10.1016/j.eclinm.2020.100276

- ⁴⁷ RC Vreeman, AE Carroll. A Systematic Review of School-Based Interventions to Prevent Bullying. *Archives of Pediatric and Adolescent Medicine* January 2007; 161(1): 78–88. DOI:10.1001/archpedi.161.1.78
- ⁴⁸ D Olweus, SP Limber. Bullying in school: Evaluation and dissemination of the Olweus Bullying Prevention Program. *American Journal of Orthopsychiatry* 2010; *80*(1): 124-134. DOI: 10.1111/j.1939-0025.2010.01015.x
- ⁴⁹ CJ Ferguson, CS Miguel, JC Kilburn, et al. The effectiveness of school-based anti-bullying programs: A meta-analytic review. *Criminal Justice Review* 2007; 32(**4**): 401-414. DOI: 10.1177/0734016807311712
- ⁵⁰ KW Merrell, BA Gueldner, SW Ross, et al. How effective are school bullying intervention programs? A meta-analysis of intervention research. *School Psychology Quarterly* 2008; 23:26-42. DOI: 10.1037/1045-3830.23.1.26
- ⁵¹ MJ Van Ryzin, CJ Roseth. Cooperative Learning in Middle School: A Means to Improve Peer Relations and Reduce Victimization, Bullying, and Related Outcomes. *Journal of Educational Psychology* 11 November 2018; 110(**8**): 1192-1201. DOI:10.1037/edu0000265
- ⁵² DV Cioppa, A O'Neil, W Craig. Learning from traditional bullying interventions: A review of research on cyberbullying and best practice. *Aggression and Violent Behavior* July 2015; 23: 61-68. DOI: 10.1016/j.avb.2015.05.009
- ⁵³ UNESCO. International day against violence and bullying at school including cyberbullying. 04 November 2020.
- ⁵⁴ L Condon, V Prasad. GP views on their role in bullying disclosure by children and young people in the community: a cross-sectional qualitative study in English primary care. *British Journal of General Practice* November 2019; 69(**688**): e752-e759. DOI: 10.3399/bjgp19X706013

- ⁵⁵ Ditch the Label. https://www.ditchthelabel.org [accessed 03 December 2020]
- ⁵⁶ Anti-Bullying Alliance. https://www.anti-bullyingalliance.org.uk/ [accessed 03 December 2020]
- ⁵⁷ Royal College of Nursing. The Best Start: The Future of Children's Health One Year on. Valuing school nurses and health visitors in England. 14 May 2018. https://www.rcn.org.uk/professional-development/publications/pdf-007000 [accessed 03 December 2020]
- ⁵⁸ National Institute for Health and Care Excellence. Depression in children and young people: identification and management. NICE guideline [NG134]. 25 June 2019. https://www.nice.org.uk/guidance/ng134/chapter/Recommendations#step-3-managing-mild-depression [accessed 03 December 2020]

BMJ Paediatrics Open

Bullying in children: impact on child health

Journal:	BMJ Paediatrics Open
Manuscript ID	bmjpo-2020-000939.R1
Article Type:	Review
Date Submitted by the Author:	24-Feb-2021
Complete List of Authors:	Armitage, Richard; Division of Epidemiology and Public Health, University of Nottingham, Nottingham NG7 2RD, UK
Keywords:	Adolescent Health, Child Psychiatry, Psychology





I, the Submitting Author has the right to grant and does grant on behalf of all authors of the Work (as defined in the below author licence), an exclusive licence and/or a non-exclusive licence for contributions from authors who are: i) UK Crown employees; ii) where BMJ has agreed a CC-BY licence shall apply, and/or iii) in accordance with the terms applicable for US Federal Government officers or employees acting as part of their official duties; on a worldwide, perpetual, irrevocable, royalty-free basis to BMJ Publishing Group Ltd ("BMJ") its licensees and where the relevant Journal is co-owned by BMJ to the co-owners of the Journal, to publish the Work in this journal and any other BMJ products and to exploit all rights, as set out in our licence.

The Submitting Author accepts and understands that any supply made under these terms is made by BMJ to the Submitting Author unless you are acting as an employee on behalf of your employer or a postgraduate student of an affiliated institution which is paying any applicable article publishing charge ("APC") for Open Access articles. Where the Submitting Author wishes to make the Work available on an Open Access basis (and intends to pay the relevant APC), the terms of reuse of such Open Access shall be governed by a Creative Commons licence – details of these licences and which Creative Commons licence will apply to this Work are set out in our licence referred to above.

Other than as permitted in any relevant BMJ Author's Self Archiving Policies, I confirm this Work has not been accepted for publication elsewhere, is not being considered for publication elsewhere and does not duplicate material already published. I confirm all authors consent to publication of this Work and authorise the granting of this licence.

Title

Bullying in children: impact on child health

Corresponding author

Dr Richard Armitage

Division of Epidemiology & Public Health, University of Nottingham, Nottingham City

Hospital, Hucknall Road, Nottingham, NG5 1PB, UK

Richard.Armitage4@nottingham.ac.uk

+44(0)7765065860

Keywords

Bullying

Cyber Bullying

Children's Health

Word count

Reference count

Abstract

Bullying in childhood is a major public health problem that increases the risk of poor health, social, and educational outcomes in childhood and adolescence. These consequences are felt by all those involved in bullying (bullies, victims, and bullyvictims), and are now recognised to propagate deep into adulthood. Cyberbullying is a relatively new type of bullying in addition to the traditional forms of direct physical, direct verbal, and indirect bullying. Children who are perceived as being 'different' in any way are at greater risk of victimisation, with physical appearance being the most frequent trigger of childhood bullying. Globally, one in three children have been bullied in the past 30 days, although there is substantial regional variation in the prevalence and type of bullying experienced. The consequences of childhood bullying can be categorised into three broad categories: educational consequences during childhood, health consequences during childhood, and all consequences during adulthood. Many dose-response relationships exist between the frequency and intensity of bullying experienced and the severity of negative health consequence reported. The majority of victims of cyberbullying are also victims of traditional bullying, meaning cyberbullying creates very few additional victims. Overall, adverse mental health outcomes due to bullying in childhood most severely impact on bully-victims. Bullying prevention is vital for the achievement of the Sustainable Development Goals, with whole-school cooperative learning interventions having the strongest evidence base for successful outcomes. Clear management and referral pathways for health professionals dealing with childhood bullying are lacking in both primary and secondary care, although specialist services are available locally and online.

Key messages

- Bullying in childhood is a global public health problem that impacts on child,
 adolescent and adult health
- Bullying exists in its traditional, sexual, and cyber forms, all of which impact on the physical, mental and social health of victims, bullies, and bully-victims
- Children perceived as 'different' in any way are at greater risk of victimisation
- Bullying is extremely prevalent: one in three children globally has been victimised in the preceding month
- Existing bullying prevention interventions are rarely evidence-based and alternative approaches are urgently needed

Introduction

Bullying in childhood has been classified by the World Health Organization (WHO) as a major public health problem,¹ and for decades has been known to increase the risk of poor health, social, and educational outcomes in childhood and adolescence.² Characterised by repeated victimisation within a power-imbalanced relationship, bullying encompasses a wide range of types, frequencies, and aggression levels, ranging from teasing and name-calling to physical, verbal, and social abuse.³ The dynamics within such relationships become consolidated with repeated and sustained episodes of bullying: bullies accrue compounding power while victims are stripped of their own and become progressively less able to defend themselves and increasingly vulnerable to psychological distress.⁴

However, only in the last decade have prospective studies been published that reveal the far-reaching effects of childhood bullying that extend into adulthood. There is now substantial evidence that being bullied as a child or adolescent has a causal relationship to the development of mental health issues beyond the early years of life, including depression, anxiety, and suicidality.⁵ As such, addressing the global public health problem of bullying in childhood has received increasing international attention and is vital for the achievement of Sustainable Development Goal 4.⁶ The impact of the COVID-19 pandemic on child health and education has focussed further attention on bullying in its digital form, so-called 'cyberbullying,' the prevalence of which is feared to be increasing.⁷

Types of bullying

Participants in childhood bullying take up one of three roles: the victim, the bully (or perpetrator), or the bully-victim (who is both a perpetrator and a victim of bullying).⁵ Victims and bullies either belong to the same peer group (peer bullying), or the same family unit (sibling bullying),⁸ although bullying frequently occurs in multiple settings simultaneously, such as at school (peer bullying) and in the home (sibling bullying), representing a ubiquitous ecology of bullying that permeates the child's life.

Three main types of bullying are observed, the typical characteristics of which are illustrated in Table 1.

Table 1. Typical characteristics of the main types of childhood bullying

Types	Typical characteristics	<u>Examples</u>	Reference
	Direct physical (overt physical aggression or assaults)	Pushing, punching and kicking	
	Direct verbal (overt verbal	Teasing, taunting, or threatening behaviour directed at the victim's	
Traditional	attacks that are highly personal)	appearance, abilities, family,	9
bullying	25	culture, race or religion	
	Indirect and emotional (covert	Passing nasty notes, offensive	
	behaviour that damages peer	graffiti, defacing or damaging	
	relationships, self-esteem or	personal property, exclusion,	
	social status)	ostracism and shaming	
Sexual bullying	Sexually bothering another person (may also be referred to as 'sexual harassment')	Inappropriate and unwanted touching, using sexualised language, and pressurising another to act promiscuously	10
Cyberbullying	Aggressive behaviour or emotional manipulation delivered through digital technology, specifically mobile phones, the internet, and social media	Spreading false stories about a victim online, posting digital media featuring a victim online without permission, excluding a victim from participation in an online space	11

While traditional bullying has been recognised and studied for many decades, ¹² and is often accepted as an inevitable aspect of a normal childhood, ³ cyberbullying represents a relatively new phenomenon in which childhood bullying now takes place through digital modalities. The widespread uptake of electronic devices has reached almost complete saturation amongst adolescents in high-income countries, with users checking their devices hundreds of times and for hours each day. ¹³ While providing

beneficial access to information and social support, this large and growing online exposure of young people renders them vulnerable to exploitation, gambling, and grooming by criminals and sexual abusers, as well as cyberbullying.¹⁴ Due to the increased potential for large audiences, anonymous attacks, and the permanence of posted messages, coupled with lower levels of direct feedback, reduced time and space limits, and decreased adult supervision, it is feared that cyberbullying may pose a greater threat to child and adolescent health than traditional bullying modalities.¹⁵

Factors that influence bullying

Two large-scale international surveys regularly conducted by the WHO – the Global School-based Student Health Survey (GSHS)¹⁶ and the Health Behaviour in Schoolaged Children (HBSC) study¹⁷ – provide data from 144 countries and territories in all regions of the world. These data identify specific factors that strongly influence the type, frequency, and severity of bullying experienced by children and adolescents globally. These factors, which are briefly described in Table 2, suggest that children who are perceived as being 'different' in any way are at greater risk of victimisation.

Table 2. Summary of factors that influence child and adolescent bullying 18

Influencing factor	<u>Description</u>
	Globally, girls and boys are equally likely to experience bullying.
Sex differences	Boys are more likely to experience direct physical bullying; girls are more likely to experience direct verbal and indirect bullying.
	Boys are more likely to be perpetrators of direct physical bullying while girls
	are more likely to be perpetrators of indirect and emotional bullying.

	Girls are more likely than boys to experience bullying based on physical				
	appearance.				
	Globally, there are no major differences in the extent to which girls and boys				
	experience sexual bullying, but there are regional differences.				
	Girls are more likely than boys to be cyberbullied via digital messages, but				
	there is less discrepancy between the sexes in the prevalence of cyberbullying				
	via digital pictures.				
	As children grow older, they are less likely to experience bullying by peers.				
Age differences	Age differences are less pronounced for bullying perpetration.				
	Older children may be more exposed to cyberbullying.				
Not conforming to	Children viewed as gender non-conforming are at higher risk of bullying.				
gender norms	garanting and an ingree near a sun, ing				
Physical	Physical appearance is the most frequent reason for bullying.				
appearance	Body dissatisfaction and being overweight are associated with bullying.				
Physical and	Physical and learning disability is associated with increased risk of being				
learning disability	bullied.				
Race, nationality	Bullying based on race, nationality or colour is the second most frequent				
or colour	reason for bullying reported by children.				
Religion	Compared to other factors, religion is mentioned by far fewer children as a				
rengion	reason for being bullied.				
	Socio-economic disadvantage is associated with increased risk of being				
Socio-economic	bullied.				
status	A similar relationship is seen between self-perceived social status and				
	cyberbullying.				
Migration status	Immigrant children are more likely to be bullied than their native-born peers.				
School	A positive school environment reduces bullying.				
environment	A positive solidor environment reduces bullying.				
Educational	Overall, educational attainment is a protective factor against being bullied.				
attainment	Overall, educational attainment is a protective factor against being bullied.				
1					

Peer and family	
	Family support and communication can be an important protective factor.
support	

Prevalence of bullying

A 2019 report from the United Nations Educational, Scientific and Cultural Organization (UNESCO), ¹⁸ examined the global prevalence of bullying in childhood and adolescence using data from the GSHS and HBSC studies along with addition data from the Progress in International Reading Literacy Study (PIRLS)¹⁹ and Programme for International Students Assessment (PISA).²⁰ It found that almost one in three (32%) children globally has been the victim of bullying on one or more days in the preceding month, and that one in 13 (7.3%) has been bullied on six or more days over the same period.¹⁸ However, there is substantial regional variation in the prevalence of bullying across the world, ranging from 22.8% of children being victimised in Central America, through 25.0% and 31.7% in Europe and North America respectively, to 48.2% in Sub-Saharan Africa. There is also significant geographical variation in the type of bullying reported, with direct physical and sexual bullying being dominant in low- and middle-income countries, and indirect bullying being the most frequent type in high-income regions. Nevertheless, bullying is a sizeable public health problem of truly global importance.

Encouragingly, there has been a decrease in the prevalence of bullying in half (50.0%) of countries since 2002, while 31.4% have seen no significant change over this timeframe.¹⁸ However, 18.6% of countries have witnessed an increase in childhood bullying, primarily amongst members of one sex or the other, although in both girls

and boys in North Africa, Sub-Saharan Africa, Myanmar, the Philippines, and United Arab Emirates. 18

Since its appearance, cyberbullying has received substantial media attention claiming that the near-ubiquitous uptake of social media amongst adolescents has induced a tidal wave of online victimisation and triggered multiple high-profile suicides amongst adolescents after being bullied online. However, a recent meta-analysis suggests that cyberbullying is far less prevalent than bullying in its traditional forms, with rates of online victimisation less than half of those offline. The study also found relatively strong correlations between bullying in its traditional and cyber varieties, suggesting victims of online bullying are also likely to be bullied offline, and that that these different forms of victimisation reflect alternative methods of enacting the same perpetrator behaviour. Recent evidence from England also indicates difference between sexes, with one in 20 adolescent girls and one in 50 adolescent boys reporting cyberbully victimisation over the previous two months. Here

Consequences of bullying

There is a vast range of possible consequences of bullying in childhood, determined by multiple factors including the frequency, severity, and type of bullying, the role of the participant (victim, bully, or bully-victim), and the timing at which the consequences are observed (during childhood, adolescence, or adulthood). The consequences can be categorised into three broad categories: educational consequences during childhood and adolescence, health consequences during childhood and adolescence, and all consequences during adulthood. Each will now be discussed individually.

Educational consequences during childhood and adolescence

Children who are frequently bullied are more likely to feel like an outsider at school,²⁰ while indirect bullying specifically has been shown to have a negative effect on socialisation and feelings of acceptance amongst children in schools.²⁵ Accordingly, a child's sense of belonging at school increases as bullying decreases.¹⁹ In addition, being bullied can affect continued engagement in education. Compared with those who are not bullied, children who are frequently bullied are nearly twice as likely to regularly skip school, and are more likely to want to leave school after finishing secondary education.²⁰ The effect of frequent bullying on these educational consequences is illustrated in Table 3.

Table 3. Relationship between being frequently bullied and educational consequences²⁰

Consequence	Not frequently	Frequently	
Consequence	<u>bullied</u>	<u>bullied</u>	
Feeling like an outsider (or left out of things at school)	14.9%	42.4%	
Feeling anxious for a test even if well prepared	54.6%	63.9%	
Skipped school at least 3-4 days in previous two weeks	4.1%	9.2%	
Expected to end education at the secondary level	34.8%	44.5%	

Children who are bullied score lower in tests than those who are not. For example, in 15 Latin American countries, the test scores of bullied children were 2.1% lower in mathematics and 2.5% lower in reading than non-bullied children.²⁵ Compared with children never or almost never bullied, average learning achievement scores were 2.7% lower in children bullied monthly, and 7.5% lower in children bullied weekly,

indicating a dose-response relationship. These findings are globally consistent across both low- and high-income countries.²⁰

Health consequences during childhood and adolescence

Numerous meta-analyses, 2,26,27,28,29 longitudinal studies, 5,30,31 and cross-sectional studies 32,33,34 have demonstrated strong relationships between childhood bullying and physical, mental, and social health outcomes in victims, bullies, and bully-victims. Some of these consequences are illustrated in Table 4. Reported physical health outcomes are mostly psychosomatic in nature. Most studies focused on the impacts on victims, although adverse effects on bullies and bully-victims are also recognised. Many studies identified a dose-response relationship between the frequency and intensity of bullying experienced and the severity of negative health consequence reported.

Table 4. Summary of childhood health consequences of bullying during childhood

	Experienced by			<u>Reference</u>
	Victim	<u>Bully</u>	Bully-	
			<u>victim</u>	
Physical health outcomes		l l		
Unspecified psychosomatic	Х			27
symptoms				
Feeling tired	х			27
Poor appetite	х			27
Stomach ache	х			27
Sleeping difficulties	х			27
Headache	х			27

	1	ı	ı			
Back pain	X			27		
Dizziness	х			27		
Mental health outcomes						
Depression	Х		х	2,5		
Anxiety	x		Х	2,5,26		
Psychotic symptoms	х			27,31		
Self-harm	x			30		
Suicidal ideation	х	х	х	5,27,28,29		
Suicidal behaviour	х	х	х	27,28,29		
Illicit substance misuse	X			26,27		
Alcohol misuse	x	х		26,27,32		
Smoking	x	х	х	32		
Panic disorder	х		Х	5,27		
Loneliness	х		X	2,32		
Low self-esteem	х			2		
Hyperactivity			X	26		
Disturbed personality		х	х	5,26		
Social health outcomes	Social health outcomes					
Isolation			X	26		
Poor school adjustment		х		26		
Poor social adjustment			х	26		
Externalising problems		X		26		
Risky sexual behaviour	x			27		
Weapon carrying	х	x		33		
Disconnectedness with parents	х			34		
		<u> </u>	<u> </u>			

While there is significant regional variation, the association between childhood bullying and suicidal ideation and behaviour are recognised globally.³⁵ Alarmingly, childhood bully victimisation is associated with a risk of mental health problems similar to that experienced by children in public or substitute care.³⁶ Victimisation in sibling bullying is associated with substantial emotional problems in childhood including low self-esteem, depression and self-harm,⁸ and increases the risk of further victimisation through peer bullying. Overall, adverse mental health outcomes due to bullying in childhood appear to most severely impact on bully-victims, followed by victims and bullies.^{5,37}

9 out of 10 adolescents who report victimisation by cyberbullying are also victims of bullying in its traditional forms,³⁸ meaning cyberbullying creates very few additional victims,³⁹ but is another weapon in the bully's arsenal and has not replaced traditional methods.⁴⁰ Cyberbullying victimisation appears to be an independent risk factors for mental health problems only in girls, and is not associated with suicidal ideation in either sex.⁴¹ As such, traditional bullying is still the major type of bullying associated with poor mental health outcomes in children and adolescents.²⁴

Consequences during adulthood

A recent meta-analysis⁴² and numerous other prospective longitudinal studies^{5,36,43,44} that used large, population-based, community samples analysed through quantitative methods suggest that childhood bullying can lead to three main negative outcomes in adulthood for victims, bullies, and bully-victims: psychopathology, suicidality, and criminality. Some of these consequences are illustrated in Table 5.

Table 5. Summary of adulthood consequences of bullying during childhood

	Experienced by			Reference
	Victim	Bully	Bully-	_
			victim	
Psychopathology				
Depression	Х	х	Х	5,36,43,44
Anxiety	х	х	х	5, 36,43
Panic disorder	х	x	x	5,43
Disturbed personality		х		5
Suicidality	x	x	x	5,36,43
Criminality				42
Violent crime	·	x	x	42
Illicit drug misuse		x	x	42

A strong dose-response relationship exists between frequency of peer victimisation in childhood and adolescence and the risk of adulthood adversities.⁴² For example, frequently bullied adolescents are twice as likely to develop depression in early adulthood compared with non-victimised peers, and is seen in both males and females.⁴⁴ Startlingly, the effects of this dose-response relationship seems to persist until at least 50 years of age.³⁶

The impact of childhood bully victimisation on adulthood mental health outcomes is staggering. Approximately 29% of the adulthood depression burden could be attributed to victimisation by peers in adolescence,⁴⁴ and bully victimisation by peers is thought to have a greater impact on adult mental health than maltreatment by adults,

including sexual and physical abuse.⁴⁵ Finally, these consequences reach beyond the realm of health, as childhood bullying victimisation is associated with a lack of social relationships, economic hardship, and poor perceived quality of life at age 50.³⁶

Bullying prevention

Until not long ago, being bullied was considered a normal rite of passage through which children must simply persevere.³ However, the size and scale of its impact on child health, and later on adulthood health, is now clearly understood and renders it a significant public health problem warranting urgent attention.¹ While parental and peer support are known to be protective against victimisation, regardless of global location, cultural norms or socioeconomic status,⁴⁶ structured programmes have been deployed at scale to prevent victimisation and its associated problems.

School-based interventions have been shown to significantly reduce bullying behaviour in children and adolescents. Whole-school approaches incorporating multiple disciplines and high levels of staff engagement provide the greatest potential for successful outcomes, while curriculum-based and targeted social skills training are less effective methods that may even worsen victimisation.⁴⁷ The most widely adopted approach is the Olweus Bullying Prevention Program (OBPP), a comprehensive, school-wide programme designed to reduce bullying and achieve better peer relations among school-aged children.¹² However, despite its broad global uptake, meta-analyses of studies examining the effectiveness of the OBPP have shown mixed results across different cultures.^{48,49,50}

Cooperative learning, in which teachers increase opportunities for positive peer interaction through carefully structured, group-based learning activities in schools, is an alternative approach to bullying prevention that has recently gained traction and been shown to significantly reduced bullying and its associated emotional problems while enhancing student engagement and educational achievement.⁵¹ Also housed within the educational environment, School-Based Health Centres became popular in the United States in the 1990s and provide medical, mental health, behavioural, dental, and vision care for children directly in schools, and have had some positive impacts on mitigating the prevalence and impact of bullying.⁵² In the UK, school nurses act as liaisons between primary care and education systems, and are often the first to identify victims of bullying turns, although their numbers in the UK fell by 30% between 2010 and 2019.⁵³

Due to the link between sibling and peer bullying, there have been calls for bullying prevention interventions to be developed and made available to start in the home, and for general practitioners and paediatricians to routinely enquire about sibling bullying.⁸

While countless cyberbullying prevention programmes, both off- and online, are marketed to educational institutions, only a small proportion have been rigorously evaluated.⁵⁴ Furthermore, as cyberbullying rarely induces negative impacts on child health independently, interventions to tackle these effects must also target traditional forms of bullying to have meaningful impact.

Addressing the global public health problem of bullying in childhood and adolescence is vital for the achievement of the Sustainable Development Goals. In recognition of

this, UNESCO recently launched its first International Day Against Violence and Bullying at School, an annual event which aims to build global awareness about the problem's scale, severity, and need for collaborative action.⁵⁵ Meaningful progress on this problem is urgently needed to increase mental wellbeing and reduce the burden of mental illness in both children and adults globally. Suggestions for immediate action are briefly described in Box 1.

Box 1. Actions needed to improve child health through the prevention of bullying

- Promote the importance of parental and peer support in the prevention of bully victimisation across families and schools
- Educate health professionals about the consequences of childhood bullying, and provide training and resources to allow identification, appropriate management and timely referral of such cases (see below)
- Develop and make widely available bullying prevention interventions that tackle sibling bullying in the home
- Create and deploy whole-school cooperative learning approaches to reduce bullying within educational institutions
- Address cyberbullying with evidence-based interventions that also tackle traditional forms of bullying
- Increase awareness of the presentation and impacts of bullying on child health amongst primary care professionals

What to do if you suspect childhood bullying

GPs should be prepared to consider bullying as a potential contributory factor in presentations of non-specific physical and mental health complaints from children. While GPs recognise their responsibility to deal with disclosures of childhood bullying

and its associated health consequences, they often feel unable to adequately do so due to the constraints of time-pressured primary care consultations, and uncertainty around the specialist services to which such children can be appropriately referred.⁵⁶

Clear management and referral pathways for health professionals dealing with childhood bullying are lacking in both primary and secondary care. Local, national and online anti-bullying organisations, such as Ditch the Label⁵⁷ and the Anti-Bullying Alliance,⁵⁸ provide free advice for children affected by bullying, and their parents, teachers, and health professionals, along with free online certified CPD training for anyone working with children. School nurses continue to act as liaisons between primary care and education systems,⁵⁹ and should be central to the multi-disciplinary management of childhood bullying. Finally, if bullying is considered to be contributory to childhood depression, Child and Adolescent Mental Health Services, along with primary care practitioners and educational professionals, should work collaboratively to foster effective antibullying approaches.⁶⁰

¹ World Health Organization. Social determinants of health and well-being among young people. Health Behaviour in School-aged Children (HBSC) study: international report from the 2009/2010 survey. Health Policy for Children and Adolescents, No. 6. 2012. https://www.euro.who.int/__data/assets/pdf_file/0003/163857/Social-determinants-of-health-and-well-being-among-young-people.pdf [accessed 28 November 2020]

² DS Hawker, MJ Boulton. Twenty years' research on peer victimization and psychosocial adjustment: a meta-analytic review of cross-sectional studies. *Journal of Child Psychology and Psychiatry* June 2000; 41(**4**): 441-455. DOI: 10.1111/1469-7610.00629

- ³ The Lancet Psychiatry. Why be happy when you could be normal? *The Lancet Psychiatry* 01 October 2015; 2(**10**): 851. DOI: 10.1016/S2215-0366(15)00420-4
- ⁴ D Olweus. Bully/victim problems among school children: some basic facts and effects of a school-based intervention program. In: D Pepler, K Rubin K. *The development and treatment of childhood aggression*. Hillsdale, NJ, Erlbaum, 1991: 411-448.
- ⁵ WE Copeland, D Wolke, A Angold, et al. Adult psychiatric outcomes of bullying and being bullied by peers in childhood and adolescence. *JAMA Psychiatry* April 2013; 70: 419–426. DOI: 10.1001/jamapsychiatry.2013.504
- ⁶ UNESCO. TCG4: Development of SDG thematic indicator 4.a.2. January 2018. http://tcg.uis.unesco.org/wp-content/uploads/sites/4/2018/08/TCG4-41-Development-of-Indicator-4.a.2.pdf [accessed 28 November 2020]
- ⁷ UN News. Violence and bullying affect one in three students, education experts warn. 05 November 2020. https://news.un.org/en/story/2020/11/1076932 [accessed 29 November 2020]
- ⁸ D Wolke, N Tippett, S Dantchev. Bullying in the family: sibling bullying. *The Lancet Psychiatry* 01 October 2015; 2(**10**): 917-929. DOI: 10.1016/S2215-0366(15)00262-X
- ⁹ I Rivers, PK Smith. Types of bullying behaviour and their correlates. *Aggressive Behaviour* 1994; 20(**5**): 359-368. DOI: 10.1002/1098-2337(1994)20:5<359::AID-AB2480200503>3.0.CO;2-J
- ¹⁰ LE McMaster, J Connolly, D Peplar, WM Craig. Peer to peer sexual harassment in early adolescence: A developmental perspective. *Developmental Psychopathology* 2020; 14: 91-105. DOI: 10.1017/s0954579402001050

- ¹¹ R Slonje, PH Smith. Cyberbullying: another main type of bullying? *Scandinavian Journal of Psychology* April 2008; 49(**2**): 147-54. DOI: 10.1111/j.1467-9450.2007.00611.x
- ¹² Olweus D. Bullying at school: What we know and what we can do. Oxford, UK: Blackwell; 1993.
- ¹³ S Haug, RP Castro, M Kwon, et al. Smartphone use and smartphone addiction among young people in Switzerland. *Journal of Behavioral Addiction* 01 December 2015; 4(**4**): 299-307. DOI: 10.1556/2006.4.2015.037
- ¹⁴ H Clark, AM Coll-Seck, A Banerjee, et al. A future for the world's children? A WHO–UNICEF–*Lancet*Commission. *The Lancet* 22 February 2020; 395(10224): 605-658. DOI: 10.1016/S0140-6736(19)32540-1
- ¹⁵ F Sticca, S Perren. Is Cyberbullying Worse than Traditional Bullying? Examining the Differential Roles of Medium, Publicity, and Anonymity for the Perceived Severity of Bullying. *Journal of Youth and Adolescence* 2013; 42: 739-750. DOI: 10.1007/s10964-012-9867-3
- ¹⁶ World Health Organization. Global school-based student health survey (GSHS). https://www.who.int/ncds/surveillance/gshs/en/ [accessed 29 November 2020]
- ¹⁷ World Health Organization Regional Office for Europe. Health Behaviour in School-aged Children (HBSC). https://www.euro.who.int/en/health-topics/Life-stages/child-and-adolescent-health/health-behaviour-in-school-aged-children-hbsc [accessed 29 November 2020]
- ¹⁸ UNESCO. Behind the numbers: Ending school violence and bullying. 2019. https://unesdoc.unesco.org/ark:/48223/pf0000366483 [accessed 27 November 2020]

- ¹⁹ International Association for the Evaluation of Educational Achievement. Progress in International Reading Literacy Study. https://www.iea.nl/studies/iea/pirls [accessed 29 November 2020]
- ²⁰ Organisation for Economic Co-operation and Development. Programme for International Student Assessment. https://www.oecd.org/pisa/ [accessed 29 November 2020]
- ²¹ A Harrison. Cyber-bullying: Horror in the home. *BBC News Online* 17 August 2013. https://www.bbc.co.uk/news/education-23727673 [accessed 02 December 2020]
- ²² P McGraw. It's time to stop the cyberbullying epidemic. *Huffington Post* 05 June 2015. http://www.huffingtonpost.com/dr-phil/stop-cyberbullying_b_6647990.html [accessed 02 December 2020]
- ²³ KL Modecki, J Minchin, AG Harbaugh, et al. Bullying Prevalence Across Contexts: A Meta-analysis Measuring Cyber and Traditional Bullying. *Journal of Adolescent Health* 01 November 2014; 55(**5**): 602-611. DOI: 10.1016/j.jadohealth.2014.06.007
- ²⁴ AK Przbylski, L Bowes. Cyberbullying and adolescent well-being in England: a population-based cross-sectional study. *The Lancet Child & Adolescent Health* 01 September 2017; 1(1): 19-26. DOI: https://doi.org/10.1016/S2352-4642(17)30011-1
- ²⁵ UNESCO. Third Regional Comparative and Explanatory Study on Education Quality (TERCE). 28 August 2015. http://www.unesco.org/new/en/media-services/single-view/news/third_regional_comparative_and_explanatory_study_on_educatio/ [accessed 30 November 2020]
- ²⁶ G Gini, T Pozzoli. Association between bullying and psychosomatic problems: a meta-analysis. *Pediatrics* March 2009; 123(**3**): 1059-1065. DOI: 10.1542/peds.2008-1215

- ²⁷ SE Moore, RE Norman, S Suetani. Consequences of bullying victimization in childhood and adolescence: A systematic review and meta-analysis. *World Journal of Psychiatry* 22 March 2017; 7(1): 60-76. DOI: 10.5498%2Fwjp.v7.i1.60
- ²⁸ MK Holt, AM Vivolo-Kantor, JR Polanin, et al. Bullying and suicidal ideation and behaviors: a meta-analysis. *Pediatrics* February 2015; 135(**2**): e496-e509. DOI: 10.1542/peds.2014-1864
- ²⁹ M van Geel, P Vedder, J Tanilon. Relationship Between Peer Victimization, Cyberbullying, and Suicide in Children and Adolescents: A Meta-analysis. *JAMA Pediatrics* May 2014; 168(**5**): 435-442. DOI: 10.1001/jamapediatrics.2013.4143
- ³⁰ HL Fisher, TE Moffitt, RM Houts, et al. Bullying victimisation and risk of self harm in early adolescence: longitudinal cohort study. *BMJ* 26 April 2012; 344: e2683. DOI: 10.1136%2Fbmj.e2683
- ³¹ G Catone, S Marwaha, E Kuipers, et al. Bullying victimisation and risk of psychotic phenomena: analyses of British national survey data. *The Lancet Psychiatry* 01 July 2015; 2(**7**): 618-624. DOI: 10.1016/S2215-0366(15)00055-3
- ³² TR Nansel, M Overpeck, RS Pilla, et al. Bullying behaviors among US youth: prevalence and association with psychosocial adjustment. *JAMA* 25 April 2001; 285(**16**): 2094-2100. DOI:10.1001/jama.285.16.2094
- ³³ TR Nansel, M Overpeck, DL Haynie, et al. Relationships Between Bullying and Violence Among US Youth. *Archives of Pediatric and Adolescent Medicine* April 2003;157(**4**): 348-353. DOI:10.1001/archpedi.157.4.348
- ³⁴ Y Harel. A cross-national study of youth violence in Europe. *International Journal of Adolescent Medicine and Health* 01 July 1999, 11(**3**): 121-134. DOI: 10.1515/IJAMH.1999.11.3-4.121

- ³⁵ JJ Tang, Y Yu, HC Wilcox, et al. Global risks of suicidal behaviours and being bullied and their association in adolescents: School-based health survey in 83 countries. EClinicalMedicine 01 February 2020; 19: 100253. DOI: 10.1016/j.eclinm.2019.100253.
- ³⁶ R Takizawa, B Maughan, L Arseneault. Adult health outcomes of childhood bullying victimization: evidence from a five-decade longitudinal British birth cohort. *American Journal of Psychiatry* July 2014; 171(**7**): 777-84. DOI: 10.1176/appi.ajp.2014.13101401
- ³⁷ J Juvonen, S Graham, MA Schuster. Bullying among young adolescents: the strong, the weak, and the troubled. *Pediatrics* December 2003; 112(**6**): 1231-7. DOI: 10.1542/peds.112.6.1231. PMID: 14654590.
- ³⁸ RM Kowalski, SP Limber. Psychological, physical, and academic correlates of cyberbullying and traditional bullying. *Journal of Adolescent Health* July 2013;53(1 Suppl): S13-20. DOI: 10.1016/j.jadohealth.2012.09.018
- ³⁹ D Wolke, K Lee, A Guy. Cyberbullying: a storm in a teacup? *European Journal of Child & Adolescent Psychiatry* February 2017; 26: 899–908. DOI: 10.1007/s00787-017-0954-6
- ⁴⁰ D Wolke. Cyberbullying: how big a deal is it? *The Lancet Child & Adolescent Health* 01 September 2017; 1(1): 2-3. DOI: 10.1016/S2352-4642(17)30020-2
- ⁴¹ R Bannink, S Broeren, PM van de Looij-Jansen, et al. Cyber and Traditional Bullying Victimization as a Risk Factor for Mental Health Problems and Suicidal Ideation in Adolescents. *PLOS ONE* 09 April 2014. DOI: 10.1371/journal.pone.0094026
- ⁴² AB Klomek, A Sourander, H Elonheimo. Bullying by peers in childhood and effects on psychopathology, suicidality, and criminality in adulthood. *The Lancet Psychiatry* 01 October 2015; 2(**10**):930-941. DOI: 10.1016/S2215-0366(15)00223-0

- ⁴³ JF Sigurdson, AM Undheim, JL Wallander, et al. The long-term effects of being bullied or a bully in adolescence on externalizing and internalizing mental health problems in adulthood. *Child and Adolescence Psychiatry and Mental Health* 23 August 2015; 9: 42. DOI: 10.1186/s13034-015-0075-2
- ⁴⁴ L Bowes, C Joinson, D Wolke, L Glyn. Peer victimisation during adolescence and its impact on depression in early adulthood: prospective cohort study in the United Kingdom. *BMJ* June 2015; 350: h2469. DOI: 10.1136/bmj.h2469
- ⁴⁵ ST Lereya, WE Copeland, EJ Costello, et al. Adult mental health consequences of peer bullying and maltreatment in childhood: two cohorts in two countries. *The Lancet Psychiatry* 01 June 2015; 2(**6**): 524-531. DOI: 10.1016/S2215-0366(15)00165-0
- ⁴⁶ T Biswas, JG Scott, K Munir, et al. Global variation in the prevalence of bullying victimisation amongst adolescents: Role of peer and parental supports. *EClinicalMedicine* 01 March 2020; 20: 100276. DOI: 10.1016/j.eclinm.2020.100276
- ⁴⁷ RC Vreeman, AE Carroll. A Systematic Review of School-Based Interventions to Prevent Bullying. *Archives of Pediatric and Adolescent Medicine* January 2007; 161(**1**): 78–88. DOI:10.1001/archpedi.161.1.78
- ⁴⁸ D Olweus, SP Limber. Bullying in school: Evaluation and dissemination of the Olweus Bullying Prevention Program. *American Journal of Orthopsychiatry* 2010; *80*(1): 124-134. DOI: 10.1111/j.1939-0025.2010.01015.x
- ⁴⁹ CJ Ferguson, CS Miguel, JC Kilburn, et al. The effectiveness of school-based anti-bullying programs: A meta-analytic review. *Criminal Justice Review* 2007; 32(**4**): 401-414. DOI: 10.1177/0734016807311712
- ⁵⁰ KW Merrell, BA Gueldner, SW Ross, et al. How effective are school bullying intervention programs? A meta-analysis of intervention research. *School Psychology Quarterly* 2008; 23:26-42. DOI: 10.1037/1045-3830.23.1.26

- MJ Van Ryzin, CJ Roseth. Cooperative Learning in Middle School: A Means to Improve Peer Relations and Reduce Victimization, Bullying, and Related Outcomes. *Journal of Educational Psychology* 11 November 2018; 110(8): 1192-1201. DOI:10.1037/edu0000265
- M Arenson, PJ Hudson, N Lee, et al. The Evidence on School-Based Health Centers: A Review. *Global Pediatric Health* 19 February 2019; 6: 2333794X19828745. DOI: 10.1177/2333794X19828745
- ⁵³ Nursing Standard. School nurse numbers in UK fall by 30% since 2010. 22 August 2019. https://rcni.com/nursing-standard/newsroom/news/school-nurse-numbers-uk-fall-30-2010-152546 [accessed 24 February 2021]
- ⁵⁴ DV Cioppa, A O'Neil, W Craig. Learning from traditional bullying interventions: A review of research on cyberbullying and best practice. *Aggression and Violent Behavior* July 2015; 23: 61-68. DOI: 10.1016/j.avb.2015.05.009
- ⁵⁵ UNESCO. International day against violence and bullying at school including cyberbullying. 04 November 2020.
- ⁵⁶ L Condon, V Prasad. GP views on their role in bullying disclosure by children and young people in the community: a cross-sectional qualitative study in English primary care. *British Journal of General Practice* November 2019; 69(**688**): e752-e759. DOI: 10.3399/bjgp19X706013
- ⁵⁷ Ditch the Label. https://www.ditchthelabel.org [accessed 03 December 2020]
- ⁵⁸ Anti-Bullying Alliance. https://www.anti-bullyingalliance.org.uk/ [accessed 03 December 2020]
- ⁵⁹ Royal College of Nursing. The Best Start: The Future of Children's Health One Year on. Valuing school nurses and health visitors in England. 14 May 2018.

https://www.rcn.org.uk/professional-development/publications/pdf-007000 [accessed 03 December 2020]

alth and Care

"on and managem,
"org.uk/guidance/ng13-,
ession [accessed 03 Decem. 60 National Institute for Health and Care Excellence. Depression in children and young people: identification and management. NICE guideline [NG134]. 25 June 2019. https://www.nice.org.uk/guidance/ng134/chapter/Recommendations#step-3managing-mild-depression [accessed 03 December 2020]