



Discrepancies in School Staff's Awareness of Bullying: A Nordic Comparison

Ingunn Marie Eriksen¹

Senior Researcher, Norwegian Social Research, Oslo Metropolitan University

Lihong Huang

Research Professor, Norwegian Social Research, Oslo Metropolitan University

Copyright the authors

Peer-reviewed article; received 3 April 2019; accepted 20 May 2019

Abstract

Bullying is a severe problem for school students in many education systems. We know that the role of principals and teachers is vital for detecting and following up on bullying, and for implementing appropriate measures. Staff awareness of bullying in schools is commonly reported to be far lower than students' own reports, but this is rarely studied from a comparative perspective. This study assesses reported bullying from the perspectives of students, teachers and principals in schools in Denmark, Finland, Norway and Sweden. We examine the association between the school administration's awareness of bullying among their pupils, student reports of bullying, and the information and measures put in place at schools in each country. We use comparative analyses of the International Civic and Citizen-ship Education Study (ICCS 2016) data from Denmark, Finland, Norway and Sweden (students, N = 18,962; teachers, N = 6,119; school principals, N = 630). The prevalence of students' reports of bullying are similar across the four countries, but we find large discrepancies in the prevalence of bullying re-reported by students, teachers and principals. Whereas Norwegian schools are most active in employing measures to inform and raise awareness about bullying for staff, parents and students, Finnish teachers and principals were observed to be far more aware of their students' bullying than their Nordic counter-parts.

Keywords: school bullying; whole school approach; students; teachers; principals

Introduction

School bullying is associated with severe mental health problems, learning difficulties and dropping out of school; it has both short-term and long-lasting negative effects (Arseneault et al., 2010; Tan et al., 2017; Zarate-Garza et al., 2017). It may also increase

¹ Corresponding author: imer@oslomet.no

the risk of suicide among students (Mossige et al., 2016). The need to prevent bullying is vital not only for the minority that are directly involved, but also for the whole community, as even witnessing peers being bullied poses a risk to bystanders' mental health (Rivers et al., 2009). Educators' involvement in preventing bullying is crucial. They can prevent bullying by fostering a positive relationship between pupils through authoritative management (Huang et al., 2015) and through attempts to arouse the bully's empathy for the victim (Garandau et al., 2016). Educators are in a key position to intervene when bullying occurs (Flaspohler et al., 2009; Veenstra et al., 2014). In order to stop school bullying, it is therefore vital that adults are aware of the bullying in the first place. Bullied pupils telling adults in school about their experiences is the strongest predictor of teacher involvement in stopping bullying (Novick & Isaacs, 2010). Moreover, as bullying mostly happens in areas where adults are not present (Fekkes et al., 2004), informing teachers about any bullying that occurs may be the only way that adults receive knowledge of it.

However, students often do not report their experiences of bullying to adults at school (Fekkes et al., 2004; Wendelborg, 2018). Previous research has identified several factors that prevent students from reporting incidents related to bullying: these include the shame associated with being victimised by peers (Eriksen & Lyng, 2018b; Strøm et al., 2018); the lack of trust that the teacher will be able to stop (rather than aggravate) the bullying; and the fear that adults' responses will be ineffective or insensitive, and that peers will respond negatively to those who disclose that bullying is occurring by worsening or increasing the frequency with which students are bullied (Oliver & Candappa, 2007). That much bullying goes unreported is also due to the fact that knowledge about the occurrence of bullying varies between students, educators and parents (Ramsey et al., 2016; Totura et al., 2009), and that students, teachers and principals do not necessarily regard bullying in the same way, even when they are working with the same definition (Eriksen, 2018).

Gaining insights into different perspectives of bullying within the same school is vital in order to assess the level of information exchange between pupils, teachers and principals, as well as to analyse how much bullying goes undetected and unchecked. However, most studies measure bullying from only one perspective (Ramsey et al., 2016), and only a few studies have focused on differential perceptions of bullying held by students, parents and adults (Newgent et al., 2009). Moreover, although a comparative education perspective is important in order to assess international similarities and differences, international comparisons are few and difficult to make due to a lack of comparable data; bullying may have both similar and different meanings and consequences across cultures (Guillaume & Funder, 2016). In this paper, we investigate reported bullying from the perspectives of students, teachers and principals, and whether there are national differences in how much bullying goes undetected by school staff in Denmark, Finland, Norway and Sweden, using data from the 2016 International Civic and Citizenship Education Study (ICCS). We also consider how different reports of bullying may relate to the amount of information measures that the school implements.

Previous estimations of the prevalence of bullying in Nordic countries

Nordic countries share some characteristics in their social and political systems, as well as in their high levels of social and economic development as measured by the Human Development Index (HDI). There are high levels of gender equality and low levels of social inequality. Despite their similar education systems and policies, most international studies indicate that Nordic countries differ in terms of pupils' achievements. (This was not the case in the ICCS 2016 study, which showed that Nordic pupils were close to each other and among the top performers [Schulz et al., 2018]). However, reports on bullying in the Nordic countries are often contradictory. One study of parental reporting of school bullying (with data from 1984 and 1996) found that the highest rate of bullying by far was found in Finland, where 22% of parents reported bullying, whereas the rates in other Nordic countries were significantly lower (Nordhagen et al., 2005). Another large-scale study conducted in 1997–1998 compared bullying and health-related outcomes in 28 countries and showed that the lowest prevalence of frequent bullying (i.e. a few times or weekly), during the current semester, was observed in Sweden (5.1% for girls and 6.3% for boys). There were higher rates in Finland (9.2% for girls and 12.5% for boys) and Norway (10.6% for girls and 15.3% for boys), whereas Denmark had the highest prevalence (24.2% for girls and 26.0% for boys; Due et al., 2005). PISA 2015 (OECD, 2017) showed that student reports of being bullied (any type) at least a few times a month were significantly higher in Denmark (25.4%) than in Finland (16.7%), Norway (17.7%) and Sweden (17.9%; Figure III.1.3, Part 2/2, p. 47). Although Norwegian students score highest on civic knowledge among the Nordic countries (Schulz et al., 2018), the ICCS 2016 study results showed that the prevalence of student reports of verbal bullying (at least once during the previous three months) was highest in Norway (56%) and lowest in Finland (42%). Meanwhile, the prevalence of physical bullying that occurred at least once in the past three months was 12% in Denmark, 15% in Finland, 18% in Norway, and 16% in Sweden (Table 6.7, p. 157).

Although these studies show different rates of bullying in the Nordic countries, they employ different definitions and measures, thus making it difficult to compare results. It is, however, likely that there are cultural differences that play out both in terms of how each country perceives acceptable levels of bullying, and in students' reports and responses to bullying (Smith, 2016). As reporting of bullying, as well as international comparison, is fraught with inaccuracies (Guillaume & Funder, 2016), internal comparison is key to addressing possible discrepancies. There is a need for a more rigorous approach in comparing staff awareness of bullying internationally, particularly because discrepancies between accounts from students and staff may indicate that bullying is being overlooked and that students are not getting sufficient help.

Data and methods

We conducted secondary analysis on data from the ICCS 2016 study. ICCS 2016, initiated by the International Association for the Evaluation of Educational Achievement (IEA), aimed to investigate the ways in which students in lower secondary schools around the world are prepared to undertake their roles as citizens (Schulz et al., 2018). The ICCS study collected data through three separately administered questionnaire surveys from three groups of participants: students in the 8th grade (or 9th grade in Norway), teachers, and school principals (Schulz et al., 2018). The ICCS study applied a sampling strategy to ensure representativeness of the data and comparability of data across countries. For each participating country, the ICCS data have a two-level structure with individual students nested within classes/schools. Each national sample that satisfied the participation standards set by the IEA was equally weighted to ensure international comparability (Köhler et al., 2018).

Table 1: Descriptions of the data used in the analyses

	Denmark	Finland	Norway	Sweden	Total
Number of schools	185	179	148	155	669
Number of school principal participants	175	172	142	141	630
Number of teacher participants	489#	2097	2010	1542	6138
Number of student participants	6254	3173	6271	3264	18962
Average age of students	14.9	14.8	14.6	14.7	14.8
% of female students	51.3 (0.8)	47.4 (1.1)	49.5 (0.6)	49.3 (1.0)	49.4 (0.4)

Participation rates for the teacher survey were below the ICCS 2016 study standard of the minimum acceptable response rate of 80% in Denmark.

Table 1 presents the descriptions of data used in our analyses, which included 18,962 students with an average age of 14.8 years old, as well as 630 school principals and 6,138 teachers from 669 schools in four Nordic countries.

Variables of interest

We used data collected from student, teacher and school principal responses to questions about bullying. Students were asked the following question: “During the last three months, how often have you experienced the following situation at your school?”, with response alternatives of ‘never’, ‘only once’, ‘two to four times’ and ‘five times and more’. Students were then asked to provide their responses to six items: 1) “A student called you by an offensive nickname”, 2) “A student said things about you to make others laugh”, 3) “A student threatened to hurt you”, 4) “A student broke something belonging to you on purpose”, 5) “You were physically attacked by another student”, and 6) “A student posted offensive pictures or text about you on the Internet”.

For the school principals and teachers, the equivalent question was preceded by a definition: “Bullying is defined as the activity of repeated, aggressive behaviour intended to hurt someone either physically, emotionally, verbally or through internet communication”. This definition was followed by asking: “During the current school year, how often have any of the following situations happened at this school?” Principals and teachers responded ‘never’, ‘less than once a month’, ‘1–5 times a month’ and ‘more than 5 times a month’ to 6 items: 1) “A student reported aggressive or destructive behaviour by other students”, 2) “A student reported that he/she was bullied by a teacher”, 3) “A teacher reported that a student was bullied by other students”, 4) “A teacher reported that a student helped another student who was being bullied”, 5) “A teacher reported that he/she was bullied by students” and 6) “A parent reported that his/her child was bullied by other students”. Teachers were asked to respond to two additional questions: “A student informed you that he/she was bullied by another student” and “You witnessed student bullying behaviour”.

The principals were asked another question: “During the current school year, are any of the following activities against bullying (including cyberbullying) being undertaken at this school?” The principals responded ‘yes’ or ‘no’ to 8 items: 1) “Meetings aimed at informing parents about bullying at school”, 2) “Specific training to provide teachers with the knowledge, skills and confidence to make students aware of bullying”, 3) “Teacher training sessions on safe and responsible internet use to avoid cyberbullying”, 4) “Student training sessions for responsible internet use to avoid cyberbullying”, 5) “Meetings aimed at increasing parents’ awareness of cyberbullying”, 6) “Development of a system to anonymously report incidents of cyberbullying among students”, 7) “Classroom activities aimed at increasing students’ awareness of bullying”, and 8) “Anti-bullying conferences held by experts and/or by local authorities on bullying at school”.

Analysis method

We present the results of our analyses in three steps. In the first step, we report descriptive analyses of student reports of bullying across the four countries, but only on incidents that happened two or more times over the previous three months. These fall into four categories: 1) verbal bullying (or harassment, including name calling and teasing), 2) threats and intimidation (including threatening to hurt someone and breaking personal belongings), 3) physical attacks, and 4) bullying on the Internet. We also report the prevalence of bullying by the sum of the four categories and test the differences between genders. In the second step, we present the prevalence of principal reports of bullying in the current school year and compare it with teacher and student reports of bullying. In the third step, we investigate the relationships between the prevalence of bullying reported by students, teachers and principals and anti-bullying initiatives taken at schools. We present results by country and all four countries in comparison with each other, applying total weights at student level or school level whenever the analysis warrants. We applied a t-test, using

standard errors to calculate significant differences between genders and between countries.

Result 1: Student-reported bullying in the Nordic countries

Table 2 presents the trends associated with student reports of four forms of bullying or harassment that occurred two or more times over the previous three months, as well as presenting a sum of bullying victimisation across five groups of students. As the most common form of bullying at school in all countries, the prevalence of verbal bullying (or harassment) is nearly the same in Denmark (40.9%), Norway (40.8%) and Sweden (40.7%), whereas the prevalence in Finland (35.9%) is significantly lower than in the other three countries.

Less common forms of bullying at school in all countries include student reports that they were being threatened by someone, which either meant that they were experiencing verbal threats that they were going to be hurt, or that personal belongings were broken on purpose by others. The prevalence of this behaviour is higher in Norway (11%) and Sweden (10.8%) than in Denmark (8%) and Finland (7.5%). Another less common form of bullying, experiencing bullying on the Internet, has a fairly similar prevalence rate across all four countries (3.4% in Denmark, 3% in Finland, 4.3% in Norway and 3% in Sweden). Although they are the least common form of bullying in all four countries, physical attacks have a significantly higher prevalence among Norwegian students (5.8%) and Swedish students (4.7%) than among Finnish students (1.8%).

Table 2 also shows that the total prevalence of students experiencing any form of bullying is 42.8% in Denmark, 37.3% in Finland, 42.2% in Norway and 42.9% in Sweden.

Table 2: Student responses of 'twice or more times' to the question "During the last three months, how often have you experienced the following situations at your school?" (Percent)

	Denmark			Finland			Norway			Sweden		
	Total	Boy	Girl	Total	Boy	Girl	Total	Boy	Girl	Total	Boy	Girl
Verbal bullying (or harassment)*	40.9	48.6	33.5	35.9	42.9	28.3	40.8	44.6	37.1	40.7	45.1	36.3
Threats of being hurt and breaking of personal belongings on purpose*	8.0	11.4	4.8	7.5	11.3	3.3	11.0	14.2	7.8	10.8	14.2	7.2
Physical attacks*	3.5	7.8	1.6	1.8	9.6	1.6	5.8	10.5	3.7	4.7	11.1	3.2
Bullying on the Internet^*	3.4	3.1	3.7	3.0	3.5	2.5	4.3	4.2	4.5	3.0	3.8	2.2
Sum: Victimization of any form of bullying*	42.8	53.7	38.2	37.3	46.6	29.7	42.2	50.0	39.6	42.9	51.5	41.1
Sum: No victimization of bullying	57.2	48.9	65.2	62.7	55.0	70.9	56.8	52.2	61.4	57.1	52.0	62.3

*indicates that a gender difference is significant at the 0.05 level where there are disproportionately more boys than girls in the group; ^*indicates a gender difference is significant at the 0.05 level only in Sweden.

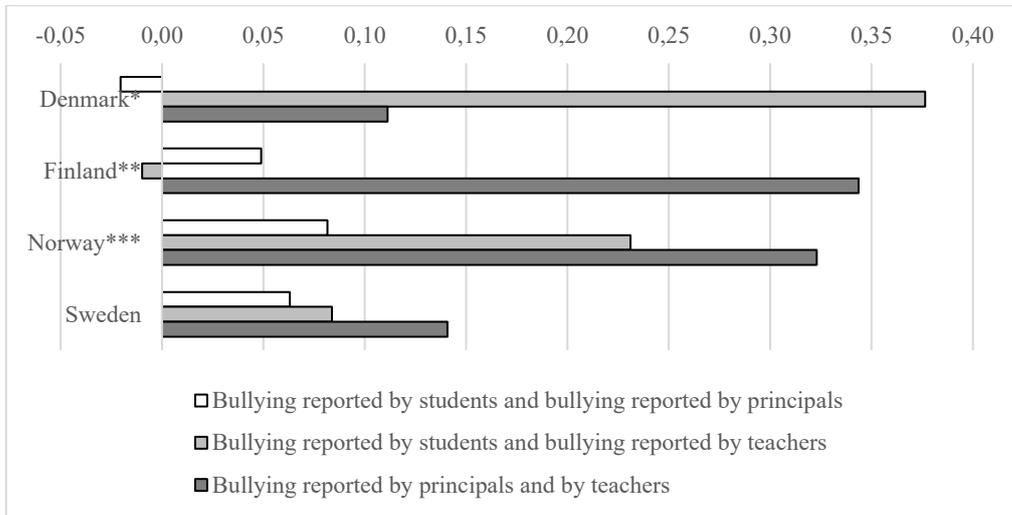
The gender difference underlying bullying experiences is significant: boys are represented disproportionately more frequently in nearly all bullying victimisation groups, except in cases of cyberbullying, where the gender difference is only significant in Sweden. Girls are significantly less likely to experience bullying at school than boys across all four countries.

Result 2: School principal and teacher reports of bullying

To what extent are principals aware of school bullying? Table 3 shows the percentages of school leaders and teachers who had received reports of bullying in the current school year. Firstly, teachers are less aware of (i.e. they reported fewer) bullying incidents than principals in all four countries; this may be partly explained by the fact that principals view the entire school from an organisational perspective, whereas teachers view the school from a class perspective. Secondly, principals and teachers in Finland are significantly more aware of (i.e. there were more reports of) bullying that has occurred at school when compared with their counterparts in all three other Nordic countries. Thirdly, for the principals in all four countries, most bullying between students was reported by either a student, a teacher or a parent. Fourthly, although teacher reports of bullying largely follow the same pattern as those of principals, teachers in Finland reported the highest rates of witnessing student bullying at school; only 12.4% of Finnish teachers responded that they had 'never' witnessed student bullying behaviour at school, whereas teachers in Norway reported the lowest rates, 66% responding that they had 'never' witnessed bullying.

There is no significant correlation between student and principal reports of bullying at the school level in all four countries, as shown in Figure 1. Although no significant correlation is found in Sweden, we find a significant correlation between the bullying reported by students and that reported by teachers in Denmark and Norway. Further, we also find a significant correlation between bullying reported by principals and that reported by teachers in Finland and Norway.

Figure 1: Correlation coefficients between student, teacher and principal reports of bullying



Note: *The correlation is significant between bullying reported by students and bullying reported by teachers. **The correlation is significant between bullying reported by principals and bullying reported by teachers. ***The correlation is significant between bullying reported by students and bullying reported by teachers, and the correlation is significant between bullying reported by principals and bullying reported by teachers.

Table 3: Principal and teacher reports of bullying in the current school year (percent)

	Reported by	Denmark				Finland				Norway				Sweden			
		Never	Less than once a month	1-5 times a month	> 5 times a month	Never	Less than once a month	1-5 times a month	> 5 times a month	Never	Less than once a month	1-5 times a month	> 5 times a month	Never	Less than once a month	1-5 times a month	> 5 times a month
A student reported aggressive or destructive behaviours by other students	Principals	16.2	65.3	14.7	3.8	7.4	64.2	27.2	1.3	8.3	71.2	19.4	1.1	12.3	60.3	26.1	1.2
	Teachers	32.4	55.4	9.8	2.3	19.3	65.5	14.3	0.8	28.9	57.1	12.7	1.3	34.3	53.9	10.6	1.2
A student reported that he/she was bullied by a teacher	Principals	63.0	34.8	0.5	1.7	55.0	42.1	2.6	0.3	40.5	54.7	3.7	1.1	43.3	48.8	7.9	0.0
	Teachers	91.2	8.8	0.0	0.0	76.6	22.0	1.4	0.0	86.3	13.1	0.5	0.2	81.7	17.9	0.3	0.1
A teacher reported that a student was bullied by other students	Principals	14.2	74.1	9.8	1.9	1.1	64.1	34.2	0.6	8.1	73.8	16.7	1.3	13.9	54.5	30.4	1.2
	Teachers	39.0	55.8	5.1	0.1	11.6	69.8	18.2	0.3	35.1	57.3	7.2	0.4	42.2	52.6	4.7	0.5
A teacher reported that a student helped another student who was being bullied	Principals	30.2	56.4	11.6	1.9	13.9	71.7	12.7	1.7	29.0	61.1	9.6	0.2	29.1	55.1	15.8	0.0
	Teachers	49.3	48.2	2.3	0.1	34.9	60.2	4.9	0.0	54.7	41.5	3.6	0.3	59.4	38.4	2.2	0.0
A teacher reported that he/she was being bullied by students	Principals	73.6	24.2	0.5	1.7	58.3	39.5	2.3		63.8	34.9	1.3		50.2	48.4	1.4	0.0
	Teachers	86.6	13.0	0.4	0.0	68.7	28.6	2.6	0.1	82.7	15.5	1.6	0.2	76.0	22.6	1.4	0.0
A parent reported that his/her son/daughter was bullied by other students	Principals	10.3	79.0	8.8	1.9	2.6	84.0	13.2	0.3	17.5	68.1	13.5	0.9	15.3	70.9	13.7	0.0
	Teachers	55.9	42.3	1.8	0.0	46.4	51.7	1.8	0.1	64.7	33.5	1.6	0.1	64.0	34.9	1.0	0.0
A student informed you that he/she was bullied by another student	Teachers	38,5	56,4	4,8	0,3	18,7	67,1	13,5	0,6	41,0	53,0	5,7	0,3	41,6	53,1	4,8	0,6
You witnessed student bullying behaviour	Teachers	47,0	48,6	4,0	0,4	12,4	66,0	20,0	1,6	62,2	34,8	2,5	0,5	41,4	48,1	9,5	1,0

Result 3: School initiatives that provide information about and prevent bullying

Table 4 shows the percentage of students whose schools have undertaken information-based initiatives to prevent bullying. These initiatives are measures for students, parents or teachers that raise awareness about bullying. The most commonly used anti-bullying initiative is 'classroom activities aimed at increasing student awareness on bullying', with the majority (> 90%) of all Nordic schools having implemented such measures. The second most commonly used initiative is 'student training sessions on safe and responsible internet use to avoid cyberbullying' at schools in Denmark (83.4%), Finland (84.8%) and Sweden (72.1%), whereas 'meetings that aim to inform parents about bullying at school' is the second most commonly used initiative in Norway (86.8%). The least frequently used initiative in all Nordic schools is the 'development of a system to anonymously report incidents of cyberbullying among students', with only 2.4% of schools in Denmark, 13% in Finland, 24.7% in Norway and 10.3% in Sweden having done this. Taking all these initiatives together, Norway scores highest on measures that increase awareness about bullying, whereas the rates are rather similar among the other three countries.

Table 5 provides a visual presentation of the results from the regression analyses that seek to detect any association between different initiatives and bullying prevalence reported by students, teachers and principals. Firstly, the most commonly used anti-bullying initiative in all Nordic schools, 'classroom activities aimed at increasing student awareness on bullying', is only associated with a higher prevalence of student reports of verbal bullying, threats and intimidation in Norwegian schools. It is only associated with a lower prevalence of teacher reports of bullying in Denmark. Another commonly used initiative, 'student training sessions to prevent and increase awareness of cyberbullying', is associated with a higher prevalence of student reports of threats and intimidation in Finland, and with a higher prevalence of physical bullying, cyberbullying and multiple forms of bullying reported by students in Denmark. Secondly, initiatives such as information meetings on bullying held with parents were associated with a higher prevalence of student reports of threats and intimidation, physical and cyberbullying, multiple forms of bullying and principal reports of bullying in Sweden. Moreover, they were associated with a higher prevalence of student reports of cyberbullying in Norway, and teacher and principal reports of bullying in Denmark. Meetings on cyberbullying held with parents were associated with more student reports of verbal and cyberbullying in Norway, and they were associated with fewer teacher reports of bullying in Denmark.

Table 4: Percentage of schools that have implemented information-based initiatives to prevent bullying during the current school year, as reported by principals

	Denmark		Finland		Norway		Sweden	
	Yes	No	Yes	No	Yes	No	Yes	No
Meetings aimed at informing parents about bullying at school	80.3	19.7	49.4	50.6	86.8	13.2	65.9	34.1
Specific training to provide teachers with the knowledge, skills and confidence required to increase student awareness of bullying	42.6	57.4	46.1	53.9	78.3	21.7	52.6	47.4
Teacher training sessions on safe and responsible internet use to avoid cyberbullying	37.3	62.7	39.0	61.0	34.2	65.8	45.0	55.0
Student training sessions for responsible internet conduct to avoid cyberbullying	83.4	16.6	84.8	15.2	69.6	30.4	72.1	27.9
Meetings aimed at increasing parents' awareness of cyberbullying	64.5	35.5	46.0	54.0	77.3	22.7	52.5	47.5
Development of a system to anonymously report incidents of cyberbullying among students	2.4	97.6	13.0	87.0	24.7	75.3	10.3	89.7
Classroom activities aimed at increasing student awareness of bullying	92.7	7.3	97.7	2.3	96.2	3.8	98.7	1.3
Anti-bullying conferences held by experts and/or local authorities on bullying at school	42.1	57.9	45.7	54.3	43.3	56.7	17.2	82.8

Table 5: School-based anti-bullying initiatives associated with student, teacher and principal reports of bullying (regression at the school level)

		Meetings to inform parents about bullying	Teacher training on awareness-raising of bullying	Teacher training sessions on cyberbullying	Student training on preventing cyberbullying	Meetings for parents' awareness of cyberbullying	Development of a system to report cyberbullying	Classroom activities to increase student awareness of bullying	Anti-bullying conferences	R ²
Verbal bullying	DK	0	0	0	0	0	0	0	+	0.09
	FI	0	0	0	0	0	0	0	0	0.05
	NO	0	0	0	0	+	0	+	0	0.15
	SE	0	0	0	0	0	0	0	0	0.08
Threats and intimidation	DK	0	0	0	0	0	0	0	+	0.07
	FI	0	0	0	+	0	0	0	0	0.09
	NO	0	+	-	0	0	+	+	0	0.22
	SE	+	0	0	0	0	0	0	0	0.13
Physical bullying	DK	0	0	-	+	0	0	0	+	0.16
	FI	0	0	0	0	0	0	0	0	0.07
	NO	0	+	-	0	+	+	0	0	0.24
	SE	+	0	0	0	0	0	0	0	0.13
Cyberbullying	DK	0	0	-	+	0	+	0	0	0.07
	FI	0	0	0	0	0	0	0	0	0.08
	NO	+	0	0	0	0	0	0	0	0.14
	SE	+	0	0	0	0	0	0	0	0.09
Sum of bullying reported by students	DK	0	0	0	+	0	0	0	+	0.13
	FI	0	0	0	0	0	0	0	0	0.07
	NO	0	+	0	0	0	+	0	0	0.22
	SE	+	0	0	0	0	0	0	0	0.08
Sum of teacher reports of bullying	DK	+	0	0	0	0	0	-	0	0.23
	FI	0	0	0	0	0	+	0	+	0.12
	NO	0	0	-	0	0	0	0	0	0.13
	SE	0	-	0	0	0	0	0	0	0.16
Sum of principal reports of bullying	DK	+	0	+	0	-	0	0	0	0.12
	FI	0	0	0	0	0	0	0	0	0.10
	NO	0	0	-	0	0	0	0	0	0.25
	SE	+	0	0	0	0	0	0	0	0.16

Note: "0" indicates an association is not significant at the 0.05 level. "+*" indicates a positive association is significant at the 0.05 level. "-*" indicates a negative association is significant at the 0.05 level.

Bullying awareness-raising measures in teacher training is associated with a higher amount of student reports of threats and intimidation, physical bullying and multiple forms of bullying in Norway, whereas it is associated with a lower number of teacher reports of bullying in Sweden. Teacher training on cyberbullying is the only initiative associated with fewer student reports of physical bullying and threatening and intimidating behaviour, as well as with a lower amount of teacher and principal reports of bullying in Norway. Conversely, it is associated with fewer student reports of physical and cyberbullying but with a higher number of principal reports of bullying in Denmark. As the least-used initiative in all the Nordic countries, the development of a system to anonymously report incidents of cyberbullying among students is associated with a higher amount of student reports of threatening and intimidating behaviour, physical bullying and multiple forms of bullying in Norway. It is associated with more student reports of cyberbullying in Denmark and a higher number of teacher reports of bullying in Finland. The anti-bullying conferences organised at schools appear to be associated with more student reports of verbal bullying, threats and intimidation, and physical bullying in Denmark, whereas they are only associated with a higher quantity of teacher reports of bullying in Finland.

Discussion and conclusion

In this paper, we have examined the differences between Nordic countries in terms of differences among students, teachers and principals when it comes to reporting bullying at school. Firstly, the prevalence of student reports of bullying at school appears to be rather similar across the four countries. Boys are disproportionately more represented as victims of bullying in all four countries. However, we find large discrepancies in the prevalence of bullying reported by students, teachers and principals. Among the four countries, students in Norway reported the highest prevalence of bullying, whereas students in Finland reported the lowest prevalence. Meanwhile, in Finland only 12.4% of teachers said that they had never witnessed student bullying, compared to 66% in Norway. Teachers and principals in Finland reported the highest prevalence of bullying at school, whereas their counterparts in Denmark reported the lowest. We found no correlation between student and principal reporting of bullying in any of the four Nordic countries, but there was a positive correlation between student and teacher reports of bullying in Denmark and Norway. Furthermore, there was a positive correlation between teacher and principal reports of bullying, but only in Finland and Norway.

This large discrepancy between student reports of bullying and the amount of bullying noticed by school staff is confirmed in other research. For example, the annual Norwegian school student survey showed that 40% of Norwegian students who had been bullied indicated that school staff were not aware that bullying was going on (Wendelborg, 2018). The discrepancy is worrying, as it means that much of the school bullying that occurs today is unnoticed or unrecognised by adults. Possible explanations for the discrepancies

may be that students refrain from telling staff (Fekkes et al., 2004), which may be related to feelings of shame or a lack of belief that adults may help (Oliver & Candappa, 2007).

Bullying may also fall under the staff radar due to a lack of awareness, even in cases where they are aware of the events that students may experience as bullying. Teachers may regard it as merely 'friendly teasing', as something students 'ought to put up with', or they may define what they see as a 'conflict', rather than bullying (Eriksen, 2018), and, therefore, not something that they are required to do anything about. The discrepancy may also be augmented by the way the questions are posed in the survey. Whereas the students are asked about specific events and encounters, without the term 'bullying' being used, questions to staff use the term 'bullying', which is a word that for many educators is understood as being more restrictive and more serious - this may perhaps make them less willing to define actions as 'bullying', even if they are aware of them (Eriksen, 2018).

However, for most of the Nordic countries, the discrepancy between staff and student accounts is so great that this perhaps is not a sufficient explanation. This is also emphasised by the exception: in Finland, principals and teachers seem to take note of far more bullying between students than teachers in the other Nordic countries, despite the fact that student reports of bullying in Finland are not much different from in the other Nordic countries. This may indicate that Finnish educators are better trained in observing student behaviour, or that they have a less strict approach as to what constitutes bullying. It may also indicate a more serious approach to fostering a positive school climate in Finland in terms of staff engagement. Several recent studies have indicated that a positive school climate characterised by fair and clear rules and supportive and caring teachers and school staff is an important protective factor against bullying (Låftman et al., 2017; Poling et al., 2019).

This study also shows that the anti-bullying initiatives that are accounted for here appear to be associated with higher reports of different types of bullying in different countries. It appears that student, teacher and principal reports of bullying, in general, are positively associated with nearly all the awareness-increasing initiatives targeting students and parents. The most commonly used anti-bullying initiative of all Nordic schools, 'classroom activities aimed at increasing student awareness on bullying', is associated with higher student reports of verbal bullying, and threats and intimidation in Norwegian schools. At the same time, schools in Norway score highest on school anti-bullying initiatives if we count all the initiatives implemented in the current school year. One explanation may be that these initiatives were reactions to bullying, where the more reports of bullying that occurred, the more discussions and meetings were held with students and parents. Another explanation may be that the initiatives led to greater awareness among students and staff and thus higher reports of existing bullying.

Teacher training on cyberbullying is the only initiative to be associated with lower reports of bullying among Nordic schools. This can imply that teacher training can prevent bullying, insofar as more teacher training is associated with fewer reports of bullying by the students. Paradoxically, teacher training on cyberbullying seems to influence all

types of bullying, not just cyberbullying. One reason for this might be that bullying is such a broad and difficult concept to grasp for both teachers and pupils; 'cyberbullying', as a new form of bullying, needs to be understood beyond the conceptual context of 'traditional forms' of bullying. In this way, a clear definition of bullying and a list detailing the things that one should do and not do online may make the messy field of peer-to-peer relations easier to navigate.

In conclusion, this article shows that although the prevalence of student reports of bullying are similar in Denmark, Finland, Norway and Sweden, we find large discrepancies in the prevalence of bullying reported by students, teachers and principals. Finnish teachers witness far more of their students' bullying than their Nordic counterparts. This is a finding that must be taken seriously as educators' awareness of bullying is crucial in order to prevent bullying.

Limitations

Although our analyses showed some interesting results on student, teacher and principal reports of bullying across schools in four Nordic countries, our conclusion is rather limited, due to several data limitations in the ICCS 2016. Firstly, a definition of bullying was not provided in the questionnaire when students were asked to report on a list of incidents that had occurred in the past three months. This may have contributed to the result that the prevalence of bullying reported by students in the ICCS study was higher than that found in other studies conducted in Nordic countries. Secondly, indirect bullying is not included in the measures of bullying, such as peer group exclusion or rumour-spreading. Thirdly, our analyses find the same inconsistency (Voulgaridou & Kokkinos, 2019) and variability in the measures employed; there was sometimes little agreement (correlation) between informants who reported on bullying (e.g. student-teacher, student-parent, teacher-parent and student-school staff). Finally, the initiatives that were developed with the aim of preventing bullying at school (as asked about in the principal questionnaire of the ICCS study) mostly centred on communication techniques and awareness-raising activities; they did not address what we normally regard as the primary measures used to prevent or stop bullying, such as authoritarian teacher styles, relational pedagogy and a holistic approach to create a better psycho-social environment within the school (Eriksen & Lyng, 2018a). Future studies of school bullying should invest in improving instruments that can better explore the perspectives of students, teachers, principals and parents, while also examining the preventive measures employed to target bullying at different levels.

Acknowledgements

We would like to thank our colleagues at NOVA and the anonymous reviewers for constructive feedback on earlier drafts of this article. Some results were presented at the EARLI SIG13 & InZentIM conference "Migration, Social Transformation, and Education for Democratic Citizenship" (2018), University of Duisburg-Essen. The author would like

to thank an anonymous reviewer, Florian Kiuppis, Heidi Biseth, Tristan Bunnell and Jenny Steinnes for valuable feedback received on an earlier draft.

References

- Arseneault, L., Bowes, L., & Shakoor, S. (2010). Bullying victimization in youths and mental health problems: 'Much ado about nothing'? *Psychological Medicine*, *40*(5), 717–729. doi:[10.1017/S0033291709991383](https://doi.org/10.1017/S0033291709991383)
- Due, P., Holstein, B.E., Lynch, J., Diderichsen, F., Gabhain, S.N., Scheidt, P., & Currie, C. (2005). Bullying and symptoms among school-aged children: International comparative cross sectional study in 28 countries. *European Journal of Public Health*, *15*(2), 128–132. doi:[10.1093/eurpub/cki105](https://doi.org/10.1093/eurpub/cki105)
- Eriksen, I.M. (2018). The power of the word: students' and school staff's use of the established bullying definition. *Educational Research*, *60*(2), 1–14. <https://doi.org/10.1080/00131881.2018.1454263>
- Eriksen, I. M., & Lyng, S. T. (2018a). *Elevens psykososiale miljø: Gode strategier, harde nøtter og blinde flekker i skolemiljøarbeidet [The students' psychosocial environment: Strategies, challenges and blind spots in schools' anti-bullying work]*. Oslo: Fagbokforlaget.
- Eriksen, I. M., & Lyng, S. T. (2018b). Relational aggression among boys: Blind spots and hidden dramas. *Gender and education*, *30*(3), 396–409. doi: <https://doi.org/10.1080/09540253.2016.1214691>
- Fekkes, M., Pijpers, F.I., & Verloove-Vanhorick, S.P. (2004). Bullying: Who does what, when and where? Involvement of children, teachers and parents in bullying behavior. *Health Education Research*, *20*(1), 81–91. doi:[10.1093/her/cyg100](https://doi.org/10.1093/her/cyg100)
- Flaspohler, P.D., Elfstrom, J.L., Vanderzee, K.L., Sink, H.E., & Birchmeier, Z. (2009). Stand by me: The effects of peer and teacher support in mitigating the impact of bullying on quality of life. *Psychology in the Schools*, *46*(7), 636–649. doi:[10.1002/pits.20404](https://doi.org/10.1002/pits.20404)
- Garandeau, C.F., Vartio, A., Poskiparta, E., & Salmivalli, C. (2016). School bullies' intention to change behavior following teacher interventions: Effects of empathy arousal, condemning of bullying, and blaming of the perpetrator. *Prevention Science*, *17*(8), 1034–1043. doi: <https://doi.org/10.1007/s11121-016-0712-x>
- Guillaume, E., & Funder, D. (2016). Theoretical and methodological issues in making cross-national and cross-cultural comparisons. In P.K. Smith, Keumjoo Kwak, & Y. Toda (Eds.), *School bullying in different cultures: Eastern and western perspectives* (pp. 211–228). Cambridge: Cambridge University Press. <https://doi.org/10.1017/CBO9781139410878.014>
- Huang, F.L., Cornell, D.G., Konold, T., Meyer, J.P., Lacey, A., Nekvasil, E.K., . . . Shukla, K.D. (2015). Multilevel factor structure and concurrent validity of the teacher version of the authoritative school climate survey. *Journal of School Health*, *85*, 843–851. doi: <https://doi.org/10.1111/josh.12340>
- Köhler, H., Weber, S., Brese, F., Schulz, W., & Carstens, R. (2018). *ICCS 2016 user guide for the international database*. Amsterdam: IEA.
- Låftman, S.B., Östberg, V., & Modin, B. (2017). School climate and exposure to bullying: A multilevel study. *School Effectiveness and School Improvement*, *28*(1), 153–164. doi:[10.1080/09243453.2016.1253591](https://doi.org/10.1080/09243453.2016.1253591)
- Mossige, S., Huang, L., Straiton, M. & Roen, K. (2016). Suicidal ideation and self-harm among youth in Norway: Associations with verbal, physical and sexual abuse. *Child & Family Social Work*, *21*, 166–175. doi: <https://doi.org/10.1111/cfs.12126>

- Newgent, R.A., Lounsbery, K.L., Keller, E.A., Baker, C.R., Cavell, T.A., & Boughfman, E.M. (2009). Differential perceptions of bullying in the schools: A comparison of student, parent, teacher, school counselor, and principal reports. *Journal of School Counseling, 7*(38), 1–33.
- Nordhagen, R., Nielsen, A., Stigum, H., & Köhler, L. (2005). Parental reported bullying among Nordic children: A population based study. *Child: Care, Health and Development, 31*(6), 693–701. doi:[10.1111/j.1365-2214.2005.00559.x](https://doi.org/10.1111/j.1365-2214.2005.00559.x)
- Novick, R.M., & Isaacs, J. (2010). Telling is compelling: The impact of student reports of bullying on teacher intervention. *Educational Psychology, 30*(3), 283–296. doi:[10.1080/01443410903573123](https://doi.org/10.1080/01443410903573123)
- OECD. (2017). *PISA 2015 results* (Volume III): Students' Well-Being. Paris: OECD Publishing.
- Oliver, C., & Candappa, M. (2007). Bullying and the politics of 'telling'. *Oxford Review of Education, 33*(1), 71–86. doi:[10.1080/03054980601094594](https://doi.org/10.1080/03054980601094594)
- Poling, D.V., Smith, S.W., Taylor, G.G., & Worth, M.M. (2019). Direct verbal aggression in school settings: A review of the literature. *Aggression and Violent Behavior, 46*, 127–139. doi:[10.1016/j.avb.2019.01.010](https://doi.org/10.1016/j.avb.2019.01.010)
- Ramsey, C.M., Spira, A.P., Parisi, J.M., & Rebok, G.W. (2016). School climate: Perceptual differences between students, parents, and school staff. *School Effectiveness and School Improvement, 27*(4), 629–641. doi:[10.1080/09243453.2016.1199436](https://doi.org/10.1080/09243453.2016.1199436)
- Rivers, I., Poteat, V.P., Noret, N., & Ashurst, N. (2009). Observing bullying at school: The mental health implications of witness status. *School Psychology Quarterly, 24*(4), 211. doi:<https://doi.org/10.1037/a0018164>
- Schulz, W., Ainley, J., Fraillon, J., Losito, B., Agrusti, G., & Friedman, T. (2018). *Becoming citizens in a changing world: IEA International Civic and Citizenship Education Study 2016 international report*. Amsterdam: Springer. doi:[10.1007/978-3-319-73963-2](https://doi.org/10.1007/978-3-319-73963-2)
- Schulz, W., Carstens, R., Losito, B., & Fraillon, J. (2018). *ICCS 2016 technical report*. Amsterdam, the Netherlands: International Association for the Evaluation of Educational Achievement (IEA).
- Smith, P.K. (2016). Research on bullying in schools in European countries. In P.K. Smith, Keumjoo Kwak, & Y. Toda (Eds.), *School bullying in different cultures: Eastern and western perspectives* (pp. 1–27). Cambridge: Cambridge University Press. doi:[10.1017/CBO9781139410878](https://doi.org/10.1017/CBO9781139410878)
- Strøm, I.F., Aakvaag, H.F., Birkeland, M.S., Felix, E., & Thoresen, S. (2018). The mediating role of shame in the relationship between childhood bullying victimization and adult psychosocial adjustment. *European Journal of Psychotraumatology, 9*(1), 1–13. doi:[10.1080/20008198.2017.1418570](https://doi.org/10.1080/20008198.2017.1418570)
- Tan, K., Heath, R.D., Das, A., & Choi, Y. (2017). Gender differences in patterns of school victimization and problem behaviors during middle school and their relation to high school graduation. *Youth & Society, 51*(3), 339–357. doi:[10.1177/0044118X17741143](https://doi.org/10.1177/0044118X17741143)
- Totura, C.M.W., Green, A.E., Karver, M.S., & Gesten, E.L. (2009). Multiple informants in the assessment of psychological, behavioral, and academic correlates of bullying and victimization in middle school. *Journal of Adolescence, 32*(2), 193–211. doi:[10.1016/j.adolescence.2008.04.005](https://doi.org/10.1016/j.adolescence.2008.04.005)
- Veenstra, R., Lindenberg, S., Huitsing, G., Sainio, M., & Salmivalli, C. (2014). The role of teachers in bullying: The relation between antibullying attitudes, efficacy, and efforts to reduce bullying. *Journal of Educational Psychology, 106*(4), 1135. doi:[10.1037/a0036110](https://doi.org/10.1037/a0036110)
- Voulgaridou, I., & Kokkinos, C.M. (2019). Measuring relational aggression in children and adolescents: A systematic review of the available instruments. *Aggression and Violent Behavior, 46*, 82–97. doi:[10.1016/j.avb.2019.02.002](https://doi.org/10.1016/j.avb.2019.02.002)
- Wendelborg, C. (2018). *Mobbing og arbeidsro i skolen: Analyse av Elevundersøkelsen skoleåret 2017/18* [Bullying and working climate in Norwegian schools 2017/2018]. Trondheim: NTNU.

Zarate-Garza, P.P., Biggs, B.K., Croarkin, P., Marath, B., Leffler, J., Cuellar-Barboza, A., & Tye, S. (2017). How well do we understand the long-term health implications of childhood bullying? *Harvard Review of Psychiatry*, 25(2), 89–95. Doi: <https://doi.org/10.1097/HRP.000000000000137>