

Table 1. *Single- and multiple-item self-report measures of cyberbullying perpetration among adolescents.*

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
Beran & Li (2005)	Cyber-harassment	1 item	Used technology to harass others	7 th -9 th grade students; Canada	26%	N/A
Cassidy et al. (2009)	Cyberbullying	1 item	Harassed or bullied	Middle school students; Canada	17-25%	N/A
Cunningham & Delaney (2008)	Cyberbullying	1 item	Cyberbullied	Middle school girls; U.S.	4%	N/A
Heirman & Walrave (2012)	Cyberbullying	1 item	Cyberbullied	12-18 year olds; Belgium	12%	N/A
Kowalski et al. (2012)	Cyberbullying	1 item	Cyberbullied	11 to 19 year olds; U.S.	11%	N/A
Li (2007)	Cyberbullying	1 item	Cyberbullied through cell phone, email, chat room	7 th grade students; urban Canada	15%	N/A
Patchin & Hinduja (2006)	Cyberbullying	1 item	Harassed, teased, excluded, threatened, sexually harassed	Under age 18; Online	11%	N/A
Sourander et al. (2010)	Cyberbullying	1 item; Cyber BVQ ^a	Picked on; posted something	7 th and 9 th grade students; Finland	7%	N/A
Williams & Guerra (2007)	Internet bullying	1 item	Told lies about someone	5 th , 8 th , 11 th grade students; U.S.	5-13%	N/A
Ang & Goh (2010)	Cyberbullying	9 items	Deception, broadcasting, and targeted online action	Middle & high school students; Singapore	24% / 15%	.83
Aricak et al. (2008)	Cyberbullying	5 items	Said something online that they wouldn't in person, impersonated,	6 th -10 th grade students; Turkey	7-60%	N/A

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
			said untrue things, sent infected emails, displayed pictures without subject's consent			
Bauman (2009)	Cyberbullying	9 items	Sent embarrassing photo, sent a mean text message, forwarded an email without permission	5 th – 8 th grade students; rural U.S.; low SES; ethnically diverse	N/A	.89
Calvete et al. (2010)	Cyberbullying	16 items; Cyberbullying Questionnaire (CBQ)	Excluded from a group, broadcasted, forwarded messages/links, hacked email	12 to 17-year-olds; Spain, moderate to high SES	10-44%	.96
Casas et al. (2013)	Cyberbullying	11 items; Spanish version of European Cyberbullying Intervention Project Questionnaire (ECIPQ)	N/A	11 to 19-year-olds; Spain	N/A	.88
Cetin et al. (2011)	Cyberbullying	22 items	Cyber forgery, cyber verbal bullying, hiding identity	14 to 19 year olds (9 th -12 th grade)	N/A	.89
DeHue, Bolman, & Vollink (2008)	Cyberbullying	6 items; adapted from the Amsterdam	Bullied through instant messaging, hacking email, name-calling,	Primary and secondary students; the	13-19%	N/A

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
		Bullying Questionnaire and the BVQ ^a	gossiping, ignoring	Netherlands		
Del Rey et al. (2012)	Cyber abuse	11 items; Spanish version of European Cyberbullying Intervention Project Questionnaire (ECIPQ)	Identity theft, upload/alter embarrassing vids or images, rumors	11 to 18-year-olds; Spain	N/A	.90
Erdur-Baker (2010)	Cyberbullying	Unspecified	Example: "Insulted people in chatroom"	14 to 18 year olds; Turkey	N/A	.86
Fanti, Demetriou, & Hawa (2012)	Cyberbullying	4 items	Sent threatening email, instant message, chatroom message, text	11-14 year olds; Cyprus	N/A	.86
Hinduja & Patchin (2008)	Cyberbullying	3 items	Bullied others; made physical threats; scared others	Under age 18; Online	16-18%	N/A
Huang & Chou (2010)	Cyberbullying	3 items based on Kowalski & Limber's (2007) Electronic BVQ	Threatened or harassed Made jokes Spread rumors	Middle school students; urban and rural Taiwan	20% 18% 12%	.96
Jones et al. (2013)	Online harassment	2 items; Youth Internet Safety Survey	Made rude or nasty comments on the internet; used the internet	10-17 year olds; U.S.	15%; 29%; 41% (2000; 2005; 2010)	N/A

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
			to harass or embarrass someone			
José et al. (2011)	Cyberbullying	2 items from the Youth Connectedness Project	Sent mean texts or bullied others online	11 to 16 year olds; New Zealand	N/A	N/A
Kowalski & Limber (2007)	Electronic bullying	Unspecified; Electronic BVQ	Bullied through email, chat room, web site, text messaging, IMs	Middle school students; urban and rural U.S.	4-5%	N/A
Law et al. (2012)	Cyberbullying	2 items	Cyberbullying at school, Cyberbullying outside of school	8 th to 12 th grade students; Canada	N/A	N/A
		3 items	Posted mean things about others; Sent mean messages; Posted embarrassing pictures	11 to 18 year olds; Canada	N/A	N/A
Low & Espelage (2013)	Cyberbullying	4 items based on Ybarra et al. (2007)	Made rude comments; spread rumors; threatened; sent mean texts	5 th to 7 th grade students; Midwestern U.S.	N/A	.74-.73
Menesini et al. (2011)	Cyberbullying	10-item scale based on Smith et al. (2008)	Sent nasty texts or inappropriate pictures or videos; made prank calls; sent rude emails; insulted	7 th to 10 th grade students; Italy	N/A	N/A

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
Menesini et al. (2013)	Cyberbullying	6-item scale based on Menesini et al. (2011)	Sent nasty texts; sent inappropriate pictures or videos; insulted	14 to 18 year olds; Italy	N/A	.82
Nicol & Fleming (2010)	Mobile phone aggression	13-item scale	Gossiped; excluded; intended to hurt or offend; threatened; spread rumors; etc.	13-17 year olds; Australia	70% (at least one over the past 6 months)	.93
Perren et al. (2010)	Cyber-bullying	2 items	Bullied (via multiple technologies)	7 th -9 th grade students; Switzerland	N/A	N/A
		5 items	Sent nasty or threatening messages; posted mean comments; sent pictures	8 th -10 th grade students; Australia		
Perren & Gutzwiller-Helfenfinger (2012)	Cyber-bullying	5 items	Sent nasty e-mails or messages; mean or nasty comments or pictures	12-21 year olds; German-speaking students, online	N/A	.89
Pornari & Wood (2010)	C-aggression	3 items	Example: "Sent an insulting or threatening message"	Year 7 to 9 students; U.K.	26-37%	.82
Raskauskas & Stoltz (2007)	Electronic bullying	2 items; Internet Experiences Questionnaire	Sent mean texts; created mean websites	13-18 years old; rural and suburban U.S.	13-21%	N/A
Schoffstall &	Cyber	3 items	Were mean to someone	3 rd to 6 th grade	N/A	.70

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
Cohen (2011)	aggression		(via multiple technologies)	students; U.S.		
Slonje & Smith (2008)	Cyberbullying	4 items; Revised BVQ ^a	Bullied (via multiple technologies)	12-20 year olds; Sweden	4-12%	N/A
Smith et al. (2008)	Cyberbullying	7 items; Revised BVQ ^a	Bullied (via multiple technologies)	7 th -10 th grade students; U.S.	8-12%	N/A
Sontag et al. (2011)	Cyber aggression	2 items; Revised Peer Experiences Questionnaire	Teased; spread rumors; said mean things	6 th -8 th grade students; U.S.	14%	N/A
Sticca et al. (2013)	Cyberbullying	6 items	Sent mean messages; sent or posted mean pictures or videos; spread rumors	7 th grade students; Switzerland;	7%	.62
Topcu & Erdur-Baker (2010)	Cyber bullying	26 items	Example: Sent embarrassing, hurtful, threatening e-mails;	14-18 year olds; Turkey	N/A	.82
Wade & Beran (2011)	Cyberbullying	6 items; Checking in Online (self-report questionnaire created as part of Mishna et al. (2010))	Called names; imitated; spread rumors; threatened; sent sexual content or private pictures	Middle and high school students; urban Canada	30%	.55
Wang et al. (2009)	Cyberbullying	2 items; Revised BVQ ^a	Bullied (via multiple technologies)	6 th -10 th grade students; U.S.	7-10%	.83

Article	Construct	Measure	Behaviors Included	Sample	Base Rate	Alpha
Wang et al. (2012)					7-11%	
Werner et al., (2010)	Internet aggression	4 items	Threatened or embarrassed; excluded; played a joke; annoyed; made rude comments	Middle school students; U.S.	17%	.70-.71
Wright & Li (2013)	Cyber aggression	Self-reported (7 relational items; 7 verbal items)	Gossiped; turned peers against others; physically threatened	261 6 th -8 th grade students; U.S.	N/A	Relational: .82-.89 Verbal: .86-.87
Ybarra & Mitchell (2004a, 2004b)	Online harassment	2 items from the Youth Internet Safety Survey	Harassed or embarrassed someone; made rude or nasty comments	10-17 year olds; U.S.	15%	N/A
Ybarra & Mitchell (2007)				10-17 year olds; U.S.	29%	N/A

Note. The majority of studies described in this table are cited in the main article; the studies that were not cited in the main article are listed in the subsequent reference section.

^aEach revised Bully/Victim Questionnaire is different; that is, each group of researchers revised it in slightly different ways.

^bSocioeconomic status.

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