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Being a cybervictim and a cyberbully – The duality of cyberbullying: A meta-

analysis

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7 **1. Introduction**

8 The introduction of information and communication technologies (ICT) into adolescents' 9 everyday lives has allowed a new type of online violence to develop in secondary schools: 10 cyberbullying. This phenomenon encompasses intentional, aggressive conduct carried 11 out using ICT among peers (Smith et al., 2008). The ways in which such violence is 12 performed vary and range from WhatsApp messages or degrading videos on platforms 13 such as YouTube to offensive remarks on social networks (Garaigordobil, 2015). 14 Cyberbullying is a highly relevant social phenomenon given the psychological 15 consequences it may have for victims and bullies alike (Garaigordobil, 2011). It has thus 16 become an enormous challenge that educational communities, with support from their 17 administrations, are attempting to eradicate by means of innovative education projects. 18 The high prevalence of cyberbullying on social networks, along with the absence of a 19 clearly delimited spatiotemporal framework and the lack of adult supervision, poses a 20 formidable challenge given the very nature of the Internet. Measurement of the incidence 21 of this phenomenon fundamentally depends on the instrument employed to study it (Cross 22 et al., 2015; Romera et al., 2016; Selkie et al., 2016 and Zych et al., 2016). The data vary 23 enormously, with the estimates of incidence ranging from 6.5% (Ybarra & Mitchell, 24 2004) to 72% (Juvonen & Gross, 2008), as indicated by Quintana-Orts & Rey (2018). 25 Indeed, it has been observed that prevalence indices can even vary within the same 26 country (see Table 1). A meta-analysis on this phenomenon among adolescents conducted 27 by (Modecki et al., 2014) showed that 36% were victims and 35% were bullies. 28 Considerable diversity is evident depending on the underlying nation and culture. The 29 ecological model of the risks of cyberbullying and cybervictimization (Bronfenbrenner, 30 1979) states that cultural norms, societal responses, and protecting issues (i.e., the 31 macrosystem) are the first level to consider. The meta-analysis conducted by Baldry et al. 32 (2015) exposes the importance of the macrosystem, which can promote or inhibit 33 cyberbullying. However, Baldry et al. (2015) encourage further research on the 34 relationship between the macrosystem and cyberbullying. A recent meta-analysis

35 conducted by Chen et al. (2017) exposes social norms as a significant variable (Q = 82.62, 36 p < 0.001) among predictors of cyberbullying perpetration. Chen et al. (2017) also argue 37 that there are cultural differences between Asia-Pacific, Europe, and North America (Q =38 100.76, p < 0.001) in parental interaction with cyberbullies. Cultural differences can even moderate classical personality variables. The meta-analysis conducted by Lei et al. (2019) 39 40 reveals that the role of self-esteem in cyberbullying varies by region. The cultures of America (Q = -3.446, p < .001), Asia (Q = -7.223, p < .0001) and Europe (Q = -4.027, p41 42 <.0001) yielded significant results, but Australia did not (Q = 1.624, p > 0.05; Lei et al., 43 2019). Similarly, the meta-analysis by Guo (2016) found differences in the correlation 44 between externalizing problems and cybervictimization in different culture, including the 45 United States (r = .28), Europe (r = .09), and other regions (i.e., Australia, Israel and 46 Singapore; r = .23).

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48 Table 1. Cyberbullying prevalence per nation.

Authors	Nations	Sample (age)	Prevalence
Ybarra & Mitchell (2004)	USA	1501 (10-17)	4% cybervictims 12% cyberbullies 3% cyberbully victims
Peskin et al., (2017)	USA	424 (11)	15% in a cyberdating situation
Del Rio et al. (2010)	South America	20941 (10-18)	12.1% cybervictims
Fahy et al., (2016)	England	2480 (12-13)	42.2% had participated in a cyberbullying situation 20.4% cybervictims
Brewer & Kerslake, (2015)	England	90 (17.11)	16.22% cybervictims 13.54% cyberbullies
Álvarez-García et al., (2017)	Spain	30.758 (14.01)	Prevalence varied enormously depending on the action carried out, but with low or very low values that come close to 2%
Larrañaga et al., (2018)	Spain	1062 (15.20)	8.2% cyberbullies among boys5.1% cyberbullies among girls
Quintana-Orts & Rey, (2018)	Spain	1650 (14.1)	11.6% cyberbullies 16.0% cybervictims
Vale et al., (2018)	Portugal	627 (13.98)	72.2% had participated in a cyberbullying situation
Wong et al., (2014)	China	1917 (13.36)	16% of boys and 14.8% of girls had participated in cyberbullying in the last 30 days
Chen et al., (2019)	China	2120 (15.11)	12% had participated in doxxing situations
Lee & Shin, (2017)	South Korea	4000 (12-17)	6.3% cyberbullies 14.6% cybervictims 13.1% cyberbully victims

50 The age range within which cyberbullying is most frequently found is early to mid-51 adolescence, that is, between 12 and 15 years (Kowalski, Giumetti, Schroeder, & 52 Lattaner, 2014 and Tokunaga, 2010). However, as Twardowska-Staszek et al. (2018) and 53 Garaigordobil, (2015) report, cyberbullying can also be found in primary education, and 54 the incidence figures increase in secondary education. Authors such as Calvete et al., 55 (2010), Sakellariou et al., (2012), Ortega et al., (2009), Tokunaga, (2010) and Wang, 56 Iannotti and Nansel (2009) indicate that students in mid-secondary education courses 57 (aged 14-15 years) present the highest cyberbullying incidence, while the rate starts to 58 decline among students in late secondary education courses (aged 17-18 years). Some 59 authors postulate that cyberbullying decreases with age (Giménez Gualdo et al., 2015; 60 Schneider et al., 2012 and Tokunaga, 2010); while others state the exact opposite (Del 61 Rey et al., 2016; Festl et al., 2015; Hinduja & Patchin, 2013 and Tynes & Mitchell, 2014). 62 There is also evidence of cyberbullying among university students (Kowalski, Giumetti, 63 Schroeder, & Reece, 2012). DeSmet et al., (2018) assert that age is positively and 64 significantly related to cybervictimization by means of sexual images (r=0.07, p<0.05) 65 but not by means of embarrassing information or messages/posts. Conversely, other 66 authors point out that age is not a predictor of cyberbullying (Bastiaensens et al., 2016; 67 Bauman, 2010; Garaigordobil, 2015; Gofin & Avitzour, 2012; Larrañaga et al., 2018; Macháčková et al., 2013; Mark & Ratliffe, 2011; Monks et al., 2012; Ortega, R.; 68 69 Calmaestra, J & Mora-Merchán, 2008; Perren & Gutzwiller-Helfenfinger, 2012; Slonje 70 & Smith, 2008 and Walrave & Heirman, 2011). Like Cappadocia et al., (2013), we 71 conclude that the literature on this subject offers very different age-related data. Just as 72 the effect of the age variable in cyberbullying is inconsistent, so is that of sex 73 (Garaigordobil, 2011). Many authors argue that it is not a statistically significant variable 74 (Giménez Gualdo et al., 2015; Mishna et al., 2010 and Smith et al., 2008). Others argue 75 quite the opposite and disagree over the role played by sex in cyberbullying among both 76 boys and girls. Some argue that more males engage in cyberbullying situations (Alvarez-77 García, Barreiro-Collazo, and Nunez 2017; Buelga et al., 2015; Erdur-Baker, 2010; 78 Kowalski & Limber, 2013; Ortega-Barón et al., 2017; Perren et al., 2012 and Slonje & 79 Smith, 2008). 80 Others assert that females present higher levels of victimization (Giménez Gualdo et al.,

81 2015; Ortega, Calmaestra & Mora-Merchán, 2008 and Ortega et al., 2009). Some research
82 concludes that women present higher cyberbullying rates than men (Cullerton-Sen &

83 Crick, 2005; Holfeld & Grabe, 2012 and Navarro, 2016). Festl et al., (2017) argue that 84 females' behaviours have a particular indirect nature that is linked with intimidation (false 85 rumours or social exclusion), unlike males, who tend to employ direct forms of 86 aggression, such as insults. Other interesting contributions to consider are the meta-87 analysis by Barlett & Coyne, (2014) and the research of Buelga et al., (2017), who 88 contend that girls engage in cyberbullying at younger ages and employ indirect 89 techniques, whereas boys engage in more of these behavioural actions in mid- to late 90 adolescence.

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92 Another relevant matter for debate is the question of whether adolescents can play a dual 93 cyberbullying role by being both a bully and a victim at the same time and whether these 94 situations have a high incidence (Hood & Duffy, 2018 and Meter & Bauman, 2018). In 95 the literature, the prevalence rates for cyber-victims-bullies range between 3.3% (Renati 96 et al., 2012) and 24.3% (Twardowska-Staszek et al., 2018), with prevalence peaking at 97 mid-adolescence (Mishna, Khoury-Kassabri, Gadalla & Daciuk 2012). Twardowska-98 Staszek et al., (2018) indicate that 7.3% of cases occur as early as during primary 99 education. However, Hood & Duffy, (2018) demonstrate that age is not a moderator 100 variable. Although the sex data remain unclear, we generally observe that the likelihood 101 of being a cyberbully-victim increases in girls (Kowalski & Limber, 2007 and Mishna et 102 al., 2012). Nonetheless, some authors such as Yang & Salmivalli, (2013) do not coincide, 103 and (Hood & Duffy, 2018) do not identify the sex variable as having a moderator effect. 104 Apparently, the most relevant risk factor for participating in cyberbullying situations is 105 having previously been a cybervictim (Hood & Duffy, 2018; Kowalski et al., 2014; Kwan 106 & Skoric, 2013). Moreover, adolescents who present this duality report more adverse 107 events, such as suicidal ideation (Holt et al., 2015), than pure cyberbullies or cybervictims 108 (Kowalski & Limber, 2013), and they also have difficulties empathizing (Fanti & 109 Kimonis, 2013). In fact, cybervictims-bullies present lower empathy levels than those of 110 pure cyberbullies (Perren et al., 2012). Therefore, it is necessary to understand the 111 situation that students are experiencing and its degree of incidence so that the education 112 system is able to take appropriate action.

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The main objective of this research is to determine the incidence among adolescents of being both a cybervictim and a cyberbully simultaneously. We also attempt to discern whether sex, age and culture act as moderators. This subject has been partially covered in 117 the literature, which indicates that the phenomenon exists, but its nature has not been

studied in depth. Very few authors have centred their research on this duality, which occurs in both conventional bullying and cyberbullying.

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- 121 Thus, the research questions we pose are as follows:
- 122 1. Can someone be a cybervictim and a cyberbully at the same time?
- 123 2. Do the moderator variables of sex, age, and culture have the effects on the cybervictim-
- 124 bully phenomenon?
- 125 3. Does the cybervictim-bully phenomenon appear in all cultures?
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128 **2. Methods**

129 The research register protocol was used in accordance with the Cochrane Manual of

130 Systematic Reviews, as indicated in Higgins and Green (2011), the work by Botella and

131 Gambara (2002) and PRISMA (2015). A series of inclusion criteria was agreed upon for

132 performing the search of the literature:

- Sample age. The study population included adolescents with a mean age between
 11.5 and 18 years.
 Methodological style of the articles. The study included only experimental and
- Methodological style of the articles. The study included only experimental and
 quantitative studies.
- Publication date. The articles were published from 2014 to 2019.
- Methodological rigour. Studies of acknowledged prestige and published in QI
 Index journals (Scimago Journal & Country Rank) were collected.
- Language. Priority was given to research works published in English, although
 those written in French and Spanish were also accepted.
- The adopted exclusion criteria were as follows:
 Adolescents with special education needs (SEN) as their main trait. Nonetheless, a decision was made to accept those research works carried out with students with SEN in which measures were standardized according to the normal curve.
 Research works that did not include clear and accurate quantitative data and those
- 147 Research works that did not include clear and accurate qualitative data and those
 147 that the CMA software detected to have statistical errors.

148 The search strategy followed the parameters of Botella y Gambara (2002). The search for 149 research works employed three databases: PsycINFO, Scopus and Science Direct. We 150 have decided to choose these databases because they allow us to search for high impact 151 international papers in the English language. They are also benchmarks in both 152 psychology and educational science. The searches were carried out in March and April 153 2019. The successive search strategies indicated that the Boolean action that best covered 154 the terminology required to answer the research question was "cyberbullying AND 155 (cybervictimization OR cybervictim OR bullying victimization OR victims) AND (cyber-156 aggression OR cyber-bullying OR cyberbully OR cyberbullying perpetration OR bullying 157 perpetration OR perpetrators) AND adolescence". These searches returned a large 158 number of studies. By briefly tracking them, it was found that most did not study the 159 correlation between being a cyberbully and a cybervictim using statistics. Most terms 160 appeared in either the introductions or theoretical reviews of the studies. To limit the 161 results, the following measures were taken. In Scopus, these terms had to appear: "article 162 title, abstract, keywords" within the "article" research type. In PsycINFO, these terms had 163 to appear: "adolescent population" and "academic publications". In Science Direct, these 164 same terms had to appear in "abstracts or key words", and the results had to be "research 165 articles". The 2014-2019 time period was set in all three search engines. The bibliography 166 of the articles that appeared was reviewed, and the research works that met the inclusion 167 criteria were included. However, five studies were removed from the sample during data 168 processing for presenting extreme data values, although the studies were considered for 169 the discussion. The meta-analysis included 22 studies with k=27 samples in Europe, Asia, 170 Oceania and America.

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- 172

173 Figure 1.

- 174 Flow chart of the search process and the selection of studies
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177 Note: An additional article was added from the bibliographic search.

179 Studies were selected for this research by following the Cochrane Manual of Systematic 180 Reviews, as indicated in Higgins and Green (2011); the manual outlines the criteria for 181 selecting study samples. The selected studies were coded manually, as most did not 182 explicitly refer to the considered variables. A decision was first made to code all terms 183 into categories, as there was considerable diversity in the employed terminology. The 184 cyberbully category included the terms cyber-aggression, cyber-bullying, cyberbully, 185 cyberbullying perpetration, bullying perpetration, perpetrators and cyberdating. The cybervictim category included the terms cybervictimization, cybervictim, bullying 186 187 victimization and victims. These two categories constituted the variables studied in the 188 articles. Then, all the articles returned by the databases were carefully read. The selection 189 was made according to the aforementioned inclusion/exclusion criteria. The CMA 190 statistical software was used to conduct this meta-analysis; the software helped convert 191 Fisher's Z-values to allow for the testing of publication bias (Egger et al., 1997), calculate 192 statistics about heterogeneity and meta-regressions to compare models, and obtain figures 193 such as the forest plot, funnel plot and Fisher's z meta-regression graphs. The employed 194 data were mainly from Pearson's correlation tables, which represented 76.66% of all 195 cases, followed by odds ratio data and chi-squared (Xi²) data from 13.33% and 10% of 196 the included studies, respectively.

197 Although an inclusion criterion was added about methodological rigour, the following 198 procedures to guarantee rigorous data were considered necessary. First, the possibility of 199 publication bias was determined. Consequently, checks were carried out automatically by 200 the CMA software to ensure that the data did not produce errors. Extreme data values 201 were removed, and Egger's regression testing was performed, while statistics related to 202 heterogeneity were studied. Data diversity meant having to convert all values into 203 Fisher's values, which allowed extreme values to be identified. It is necessary to point 204 out that the initial sample size decreased because some studies included extreme values, 205 i.e., Fisher's Z > 1 (Brewer & Kerslake, 2015; Sari & Camadan, 2016) or showed Fisher's 206 Z < 0.2 (Chen et al., b 2019; Fahy et al., c 2016; and Twardowska-Staszek et al., 2018). It 207 is worth noting that although conversion to Fisher's Z-values is an accepted meta-analysis 208 methodology (Martin-Andrés & Luna del Castillo, 2004), it is not risk-free. This is 209 because the transformation of a normal curve into a Fisher curve distorts values (x>0.5) 210 that move further away from mean values. As this transformation may account for the 211 reliability of such data, they were removed despite the methodological and statistical 212 rigour with which they were obtained. Following Cochrane, as indicated in Higgins, JPT. 213 & Green (2011), the sample's heterogeneity was studied. As the Q statistic of 214 DerSimonian & Laird, (2015) (Q=964.17, df=26, p<0.000) evidenced wide variability, 215 the homogeneity hypothesis was rejected. Therefore, it was necessary to take the statistics 216 of I^2 =97.305%, which indicated the percentage of variability due to heterogeneity and not 217 to randomness. In this case, heterogeneity was very high (Higgins et al., 2003). Therefore, 218 the random model, or the random effects model, was used (Martin-Andrés & Luna del 219 Castillo, 2004). In line with Botella and Sánchez (2015) and with Botella & Gambara 220 (2002), Egger's testing was used to verify the non-existence of publication bias. No 221 significance was found in either tail (*p-value 1-tailed*=0.40; *p-value 2-tailed*=0.81), which 222 indicated that no bias existed (Egger et al., 1997) (see Table 3), and the standard error 223 was not high (3.28). As a result, the model came close to being a linear regression, which 224 reasserted that no publication bias existed (Martin-Andrés, A. & Luna del Castillo, 2004). 225 The effect size was calculated with the data expressed as Pearson's correlations, odds 226 ratios and Xi^2 . They were input into the CMA statistical software, which gave an effect 227 size of r=0.428. Consistent with Cohen (1988) a positive and significant moderate 228 correlation (p < 0.001) was found between both the studied variables.

Model	Effect	Effect size and 95% Test of null (2- interval Tailed)						terogeneity		Tau-squared		
Model	Point estimate	Lower limit	Upper limit	Z-value	P- value	Q-value	Df (Q)	P-value	I-squared	Tau squared	Standard Error	Variance
Fixed	0.437	0.428	0.428	83.425	0.000	964.17	26	0.000	97.305	0.031	0.011	0.000
Random	0.428	0.371	0.483	13.076	0.00							
232												
233	Table	3.										
234	Egger	's regres	sion tes	t								
	Interc	ept		-0.7899	96							
	Stand	ard error	(2	3.2883	2							
	95% I 95% I	ower limi	t (2-tailed t (2-tailed	l) -7.562: l) 5.9824	39 7							
	t-valu	e	t (2 tuned	0.2402	3							
	Df			25.000	00							
	P-valu	ue (1-taile	d)	0.4060	5							
235	P-valu	ie (2-taile	d)	0.8121	1							
255		_										
236	3. Res	sults										
237	<u>3.1 De</u>	emograp	hic desc	<u>ription</u>								
238	The se	earch of	the rec	ent (2014	I-2019) lit	terature o	on ind	lividuals 1	being both	a cyberbi	ully	
239	and a	cybervic	tim retu	rned inter	resting res	sults. A to	otal sa	mple with	n 47,836 ind	lividuals	was	
240	obtain	ed from	27 sam	ples (K=2	27) collect	ted in 22	studie	es. The stu	udy sample	sizes ran	ged	
241	from	175 to 4	,000. Tł	ne social a	anthropole	ogy litera	ture 1	nakes cle	ar that it is	necessary	y to	
242	consid	ler huma	an cultu	ral divers	sity (Mola	ano L., 20	007).	Therefore	e, the indiv	iduals in	the	
243	sampl	e were	categori	zed in th	e followi	ng cultur	al gro	oups: Asi	an, with 30).27% of	the	
244	sampl	e (S Kor	ea and (China); N	orth Ame	rican, wit	- h 7.5	- 2% (USA); South Ar	nerican, v	vith	
245	4.03%	(Color	nbia); (Central E	European,	with 27	.11%	(Belgiur	n, England	l); Europ	ean	

252 Some of the researches that make up the sample are longitudinal, cross-sectional or

Mediterranean, with 23.19% (Spain, Portugal and Cyprus); and Oceanian, with 0.36%

(Australia and New Zealand). Regarding sex, it is noteworthy that one study provided no

data about this variable. Of the whole sample, 41.03% were male and 41.11% were

female. In regard to age, four of the studies did not indicate a mean age but rather an age

range. In this case, an arithmetic mean was taken to calculate the collective mean age,

which was 13.68 years.

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comparative studies of different cultures and nations. To address this diversity, the number of participating samples in each study (Nu) was chosen to be set apart from the population of each sample (Np). This occurs in the following studies: Romera et al., (2017), Charalampous et al., (2018), Pabian & Vandebosch (2016), Fahy et al., (2016) and Chu et al., (2018). On the other hand, it is necessary to expose how Romera et al., (2017) compares Spanish and Colombian sample. Being different cultures we have chosen to separate them, and consequently they appear twice.

- 260
- 261 Table 4.
- 262 Sociodemographic data

Authors	N p	N u	Age	N ma	N fe	Country	Culture	Distribution of		
	_					-		Multiple public high schools		
Hill et al. (2017)	1042	1	15,09	459	583	USA	North American	in diverse metropolitan		
Cho et al. (2019)	2560	1	13,11	1277	1283	USA	North American	regions Health behaviour in school- aged children (HBSC) in the United States		
Romera et al. (2017)	1931	1	10-19	906	1025	Colombia	South American	Public/private and rural/urban schools from the south of Colombia		
Quintana-Orts & Rey (2018)	1650	1	14.10	825	840	Spain	Mediterranean	Six public secondary schools in the city of Málaga (Spain)		
Álvarez-García et	3059	1	14.01	1575	1484	Spain	Mediterranean	Asturias region (Spain)		
Larrañaga et al. (2018)	1062	1	15.20	488	574	Spain	Mediterranean	Castilla-La Mancha region (Spain)		
Romera et al. (2017)	1899	2	14.92	968	931	Spain	Mediterranean	Public/privates and rural/urban schools from the south of Spain		
Buelga et al. (2017)	1062	1	14.50	573	489	Spain	Mediterranean	Valencia region (Spain)		
Vale et al. (2018)	627	1	13.98	283	344	Portugal	Mediterranean	State and private schools under the Portuguese DGE (General Directorate of Education)		
Charalampous et al. (2018)	868	3	11.72	410	451	Cyprus	Mediterranean	Three different prefectures		
DeSmet et al. (2018)	1037	1	12-18	521	516	Belgium	Central European	Flanders region (Belgium)		
Erreygers et al. (2016)	2309	1	12.6	1223	1089	Belgium	Central European	Regional origin deleted in order to maintain the integrity of the review process		
Pabian & Vandebosch (2016)	2333	2	13.02	1013	1320	Belgium	Central European	No information		
Fahy et al. (2016)	2480	2	12-13	?	?	England	Central European	East London (England)		

You & Lim	3449	1	13.78	1725	1724	S Korea	Asian	Nationally representative
(2016) Lee & Shin (2017)	4000	1	12-17	2000	2000	S Korea	Asian	Nationally representative sample
Park et al. (2014)	1200	1	12-15	615	585	S Korea	Asian	Nationally representative sample
Chu et al. (2018)	598	3	12.68	365	233	China	Asian	Wuhan city in central China
Wong et al. (2014)	1917	1	13.36	1046	871	China	Asian	Hong Kong (China)
Chen et al. (2019)	2120	1	15.11	1123	997	China	Asian	Hong Kong (China)
Hood & Duffy (2018)	175	1	14.82	83	92	Australia/ New Zealand	Oceanian	No information

*N p (Number of participants); *N u (Number of samples); *N ma (Number of males) and *N fe (Number of females)

264 The aim of this study is to investigate the relation between the variables "cybervictim" 265 and "cyberbully" using CMA software. A decision was made to transform the sample of correlation coefficients, odds ratios and Xi² values into Fisher's Z-values (Martin-Andrés 266 267 & Luna del Castillo, 2004). Figure 2 (the forest plot graph) presents the sample size and 268 the 95% confidence interval (0.371, 0.483) for the research works that found a 269 relationship between the studied variables. The obtained effect size was moderate-high 270 (r=0.428) (Cohen, 1988) and significant (p<0.01). All the data were highly significant 271 (p<0.01), although only one study (Hill et al., 2017) fell within the confidence intervals. 272 Two groups were formed: The first comprised those countries that did not reach the 273 minimum value (mainly Central European countries, along with two Mediterranean and 274 two Asian countries). The second was formed by those that exceeded the maximum limit 275 (North American, South American, Oceanic countries and the other Mediterranean and 276 Asian countries). The data on Central European cultures was noteworthy in its uniformity 277 and disconnection from the rest of the data. The variability evidenced in the Q and I^2 278 statistics and the very wide confidence interval meant that the research works that we 279 considered included extreme data values that considerably increased the standard 280 deviation. Given this situation, the weight of each study was assumed by the random 281 model or the random effects model (Martin-Andrés & Luna del Castillo, 2004). The 282 funnel plot graph (Figure 3) underlines the previously noted variability and the diversity 283 of the studies (Sterne et al., 2011), as the Egger's test also indicated. Three clear groups 284 can be discerned: those on the left (7 with lower Z-values), those on the right (7 with 285 higher Z-values) and those inside or on the edges of the cone. In the last case, we can see 286 that some studies are in the middle of the structure but always inside it or at its edge; these 287 studies present a higher standard error (Chen et al., 2019; Lee & Shin, 2017 & Vale et al.,

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- 288 2018). In regard to the group of studies on the right, we must remember that the 289 transformation they underwent was x>0.5 when the normal curve was converted into the 290 Fisher curve, which moved these observations away from the mean values.
- 291
- 292 Figure 2.
- 293 Forest plot graph

Study name		Statistics	for each	study		Correlation and 95% Cl				
	Correlation	Lower limit	Upper limit	Z-Value	p-Value					
Cho et al. (2019)	0,527	0,498	0,554	29,631	0,000	1	1		<u> </u>	1
Hill et al. (2017)	0,380	0,327	0,431	12,895	0,000					
Romera et al. (2017)b	0,490	0,455	0,523	23,538	0,000					
DeSmet et al. (2018)	0,250	0,192	0,306	8,213	0,000				T	
Erreygers et al. 2016	0,210	0,171	0,249	10,237	0,000					
Fahy et al. (2016)a	0,205	0,139	0,270	5,950	0,000					
Fahv et al. (2016)b	0.237	0.165	0.306	6.355	0.000					
Pabian et al. (2016)a	0,290	0,252	0,327	14,412	0,000					
Pabian et al. (2016)b	0,240	0,201	0,278	11,815	0,000					
Álvarez et al. (2018)	0.490	0.463	0.516	29.634	0.000				-	
Buelga et al. (2017)	0.288	0.207	0.364	6.757	0.000				🗕 T 🛑	
Charalampous et al (2018)b	0,550	0,502	0,595	18,187	0,000				_	
Charalampous et al. (2018)a	0,410	0,353	0,464	12,812	0,000					
Charalampous et al. (2018)c	0,550	0,502	0,595	18,187	0,000					
Larraña et al. (2018)	0.389	0.337	0.439	13.363	0.000					
Quintana-Orts L. Rev (2018)	0.570	0.536	0.602	26.279	0.000					
Romera et al. (2017)a	0,540	0,507	0,571	26,307	0,000					
Vale et al. (2018)	0,310	0,177	0,432	4,439	0,000			-	— – – – – – – – – – – – – – – – – – – –	
Hood & Dufy (2018)	0,550	0,437	0,646	8,110	0,000				-	
Chen et al. (2019)	0.250	0.083	0.404	2.897	0.004			_		
Chu et al. (2018)a	0,480	0,416	0,539	12,757	0,000				-	
Chu et al. (2018)b	0,460	0,394	0,521	12,131	0,000				-	
Chu et al. (2018)c	0,620	0,568	0,667	17,685	0,000					
Lee et al. (2017)	0.247	0.112	0.374	3.527	0.000			- I - I		
Parket al. (2014)	0.681	0.649	0.710	28,750	0.000				_	
Wong et al. (2014)	0,570	0,539	0,599	28,329	0,000					
You et al. (2016)	0.450	0.349	0.541	7.886	0.000					
	0,428	0,371	0,483	13,076	0,000					
						-1,00	-0,50	0,00	0,50	1,00
							Favours A		Favours B	

294 Meta Analysis

295

- 296 Figure 3.
- 297 Funnel plot graph



299 <u>3.2 Moderator variables and meta-regression analysis</u>

300 Because the existence of moderator factors (male sex, female sex, age and culture) could 301 lead to wide variability in the results (Botella & Sánchez, 2015), it was necessary to test 302 for such effects. A meta-regression test was used, and models were compared. Four 303 moderator variables were established: male sex, female sex, mean age and culture (North 304 American, South American, Central European, Mediterranean, Asian and Oceanic). The 305 meta-regression (see Table 5) yielded five models: 1. simple, 2. male sex, 3. female sex, 306 4. age, and 5. culture. The first model, which included no moderator variable, did not help 307 to explain any percentage of variance, and the same applied to model 2 (male sex) and 308 model 4 (age). Although model 3 (female sex) explained 3% of the variance, these data 309 were non-significant (p>0.05). Model 5 explained 66% of the variance (R^2 =0.66), with a 310 significance of p=0.0000 (p<0.01). However, the meta-regression (see Table 6 and Figure 311 4) allowed for a better analysis of the culture variables. The significance (p < 0.05) and 312 negative signs of the Central European culture, Mediterranean culture, Asian culture, 313 North American culture and South America Culture coefficients indicated that 314 adolescents within these cultures were more likely to become cybervictims-bullies. In 315 other words, culture explained the data variability. Moreover, the heterogeneity displayed by the Q and I^2 statistics and the funnel plot graph was more easily interpretable in light 316 317 of this cultural diversity.

318

319 Table 5.

320 Model comparison: Random effects (MM), Z-distribution, Fisher's Z

Model name	TauSq	R ²	Q	df	p-value
'Model 1 SIMPLE	0.0314	0.00	0.00	0	1.0000
'Model 2 MALE	0.0318	0.00	2.90	1	0.0885
'Model 3 FEMALE	0.0305	0.03	3.04	1	0.0810
'Model 4 AGE	0.0258	0.00	0.21	1	0.6459
'Model 5 CULTURE	0.0107	0.66	33,35	5	0.0000

321

322

323

324

326 Table 6.

.

327 Meta-regression M.5

Meta-regression M.5											
Covariate	Coefficient	Standard Error	95%Lower	95% Upper	Z-value	2-sided p-value	Q	df	р		
Intercept	0.8310	0.0972	0.6404	1.0216	8.55	0.000					
Asian Culture	-0.3214	0.1053	-0.5277	-0.1151	-3.05	0.0023					
Central European Culture	-0.5870	0.1050	-0.7928	-0.3812	-5.59	0.0000					
Mediterrane an Culture	-0.3229	0.1207	-0.5243	-0.1215	-3.14	0.0017					
North American Culture	-0.3351	0.1187	-0.5678	-0.1024	-2.82	0.0048	50.53	6	0.000		
Oceanian Culture	-0.2126	0.1564	-0.5155	0.0903	-1.38	0.1690					
South America Culture	-0.2949	0.1364	-0.5622	-0.0277	-2.16	0.0306					

328

329 Figure 4.

330 Fisher's regression for culture variables

331

Regression of Fisher's Z on Culture



Culture

333 4. Discussion

The studies herein employed agreed that a significant correlation appeared between being a cybervictim and a cyberbully, with a prevalence between moderate (r=0.205) (Fahy et al., 2016) and high (r=0.8) (Brewer & Kerslake, 2015). This diversity in the results corresponds to findings from other authors such as (Meter & Bauman, 2018).

338 Regarding sex, our results coincide with the works by Kowalski & Limber (2013) and 339 (Mishna et al., 2012). Female sex explained 3% of the variance, unlike male sex, which 340 explained none of the variance. Female sex had no effect according to the statistics, which 341 is not in line with previous studies (Cullerton-Sen & Crick 2005; Holfeld & Grabe, 2012; 342 Navarro, 2016). Nevertheless, it is worth stressing, in line with Hood & Duffy (2018), that 343 sex was not a significant moderator variable. The theoretical review indicated that most 344 articles did not directly deal with sex in their analysis of the cyberbully-victim group. 345 Some authors did reported significant intergroup differences among individuals who had 346 not been exposed to bullying, cyberbullies, cybervictims and cybervictims-bullies. 347 However, they did not indicate which sex was more relevant in the study group. Buelga 348 et al. (2017) and Hill et al. (2017) reported that the female sex was overrepresented among 349 cybervictims-bullies, unlike Chen et al. (2019), Lee & Shin (2017), Twardowska-Staszek 350 et al. (2018) and Vale et al. (2018), who indicated a higher proportion of males sex. 351 Nonetheless, only Fahy et al. (2016) presented significant differences and revealed that 352 the female sex was more prone to being in this group.

353 The meta-regression revealed that mean age did not explain any percentage of the 354 variance. This finding is in line with (Buelga et al., 2017) and Hood & Duffy (2018). The 355 theoretical review corroborated that most research works did not deal with age in the 356 cybervictims-bullies group, while those that did provided contradictory views. Authors 357 such as Vale et al. (2018) and Lee & Shin (2017) concluded that there were significant 358 intergroup differences (i.e., among individuals not been exposed to bullying, cyberbullies, 359 cybervictims, and cybervictim-bullies) but disagreed in regard to age ranges. Vale et al. 360 (2018) argued that such problems emerge mainly at older ages, whereas Lee & Shin 361 (2017) asserted that most issues appear in mid-adolescence. Twardowska-Staszek et al. 362 (2018) reported a considerable increase in incidence from primary education to secondary 363 education. It is worth stressing that although the targeted age range included the whole of 364 adolescence (11.5-18.9 years) and the most common ages were 14 and 13, no mean ages 365 beyond the age of 15 appeared in the sample, which significantly reduced the age range 366 covered in this study.

367 The meta-regression indicated that culture explained 66% of the variance (p < 0.0000). 368 Indeed, Central European culture presented significantly negative values (t = -0.5870, p = 0.000), as did Mediterranean culture (t = -0.3229, p < 0.0017), North American 369 370 culture (t = -0.3351, p = 0.0048), South American culture (t = -0.2949, p < 0.0306), and 371 Asian culture (t = -0.3214, p = 0.0023). This suggests that adolescents from these nations 372 were more likely to become cyberbully-victims, unlike their counterparts in other cultural 373 groups, such as Oceanian Culture, which displayed coefficient values that did not reach 374 the level of significance (t = -0.2126, p = 0.1690). These results are consistent with 375 previous studies by Guo (2016) and Lei et al. (2019), who have argued that cultural 376 diversity in cyberbullying can be seen in cultures such as those of America, Europe, Asia, 377 and Australia. Chen et al. (2017) revealed cultural differences in social norms in Asia-378 Pacific, Europe, and North America cultures. Such differences help to explain the 379 existence of different predictors for cyberbullying. In the words of Baldry et al. (2015), it 380 is necessary to investigate the relationship between cyberbullying and the macrosystem 381 (Bronfenbrenner, 1979).

382

383 First, it is necessary to determine how Oceania differs from other cultures. According to 384 a recent meta-analysis by Jadambaa et al. (2019), the prevalence of cyberbullying 385 victimization in Australia is 7.02% and that of cyberbullying perpetration is 3.45%. This 386 research covers studies from 1990 to 2015 and offers a complete overview of this 387 phenomenon in Australia. Jadambaa et al. (2019) recorded a decrease in the prevalence 388 of traditional bullying and suggest that public awareness campaigns have been able to 389 contribute to this reduction. They argued that the implementation of anti-bullying 390 programs is an effective measure of mental health prevention. The meta-analysis by 391 Baldry et al. (2015) does, however, report a series of variables that influence 392 cyberbullying in Australia: low levels of self-esteem (Modecki et al., 2013), early 393 depressed mood (Modecki et al., 2013), being a school bully, poor family management, 394 and low parental support (Hemphill et al., 2015). Likewise, Hood and Duffy (2018) point 395 out that moral disengagement (t = 2.184, p = 0.009) favors a cybervictim-bully 396 relationship, while parental monitoring (t = -2.578, p = 0.011) decreases it. Other authors, 397 such as Baldry et al. (2015), highlight the importance of monitoring adolescent Internet 398 use. Family plays a determining role (Beringer, 2011; Cross & Barnes, 2014; Katz et al., 399 2014), and this variable has been introduced in anti-bullying intervention programs. The 400 systematic review by Cantone et al. (2015) considers the efficacy of three Australian

401 intervention models: "Friendly schools" (Cross et al., 2010), which has moderate 402 efficacy; "Creating a Peaceful School Learning Environment" (CAPSLE; Fonagy et al., 403 2009), which has high efficacy, especially for victims; and "CBT" (Berry & Hunt, 2009), 404 which has moderate efficacy for bullying. All of these interventions included those 405 affected and their families. The Cyber Friendly Schools (CFS) method developed by 406 Cross et al. (2016) reduced both cyberbullying victimization and cyberbullying 407 perpetration rates, although, in their suggestions for future lines of research, they 408 demonstrated the need to incorporate the role of families.

409

410 One of today's most innovative and successful strategies in school abuse is to intervene 411 with all students, namely, victims, bullies and spectators, mainly before a cyberabuse 412 situation arises. This method, called KiVa and developed at Turku University in Finland, 413 it aims to develop collective norms. The observer plays the role of intermediary to improve coexistence. The method was established in 2006, and its efficiency has 414 415 repeatedly been proven (Garandeau et al., 2014; Kärnä et al., 2013 & Saarento et al., 416 2015). It is being applied in many countries, such as the UK, one of the affected nations 417 that is obtaining very positive results after the incorporation of the KiVa method in 418 schools (Hutchings & Clarkson, 2015).

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- 420

421 The systematic review of studies provided other interesting data about this group in 422 victim-bully duality terms and about their individual differences and parents' child-423 rearing styles. A priori, it is necessary to consider which of these two impacts starts first. 424 The longitudinal research studies in our sample showed the awful situation faced by these 425 adolescents. First, those who reported being cybervictims in the first survey waves were 426 more likely to later become cyberbullies themselves. Quintana-Orts & Rey (2018) 427 demonstrated that the most important factor for becoming a cyberbully was having 428 previously been a cybervictim. The structural equations model of Pabian & Vandebosch, 429 (2016) indicated that being a cybervictim in the first wave showed a relation with being 430 a cyberbully in the second wave (r=0.08, p<.05). Chu et al. (2018) demonstrated that from 431 the first wave to the third wave, this correlation between the two variables increased. Twardowska-Staszek et al. (2018) found a significant association (Xi^2) between 432 433 conventional bullying and cyberbullying. Indeed, 11.6% of cyberbully-victims also 434 reported experiencing conventional bullying. Suffering a cyberbullying situation and

435 inflicting such a situation on another person are not free of psychological consequences. 436 Fahy et al. (2016) indicated that this group was twice as likely to suffer depression, 1.52 437 times more likely to have anxiety and 1.65 times more likely not to talk about the status 438 of their own well-being; they also showed low social competence (Romera et al., 2017). 439 Moreover, when less able to forgive, people are more likely (b=0.05, p<0.001) to become 440 a cybervictim-bully (Quintana-Orts & Rey, 2018). These adolescents also displayed 441 aggressive behaviour when they had to face objectives they disliked (Chen et al., 2019). 442 The binary logistic regression by Vale et al. (2018) presented a series of behaviours that 443 explained 71.1% of cyberbully-victim cases. These behaviours included publishing texts, 444 images, videos, etc., on social networks or personal blogs, watching pornography and/or 445 erotic websites and meeting up with people they had met over the Internet. That 446 behaviours should be supervised by adults to avoid risky behaviours. Family was another 447 determining variable. Vale et al. (2018) showed that 52.7% of the families of adolescent 448 cyberbully-victims displayed a laissez-faire parenting style (i.e., the families do not give 449 rules to their children or correct them), followed by 44.4% that adopted a "permissive" 450 style. Intergroup differences appeared among non-participants, cybervictims, 451 cyberbullies and cybervictims-bullies. Most non-participating adolescents had families 452 that displayed democratic parenting styles (40.3%). Buelga et al. (2017) underlined this 453 perspective by showing how cybervictims-bully minors indicated more family conflicts, 454 less cohesion, poor expression capacity and offensive communication with their parents 455 (with a very significantly high value compared to those of their counterparts). Therefore, 456 these authors concluded that the affected adolescents had dysfunctional families. The 457 importance of the family was measured by Hood & Duffy (2018), who indicated that 458 parental control is a moderator variable that lowers the likelihood of becoming a 459 cyberbully-victim. Garcia-Guilabert (2017) argued that families act as guardians; that is, 460 they ensure that new technologies are properly used, an aspect also studied by Kowalski 461 et al., (2014). These authors also indicated that Internet use increased the likelihood of 462 becoming a cyberbully-victim. These results coincide with the longitudinal study by 463 Gámez-Guadix et al., (2013), who found a positive and significant correlation between 464 cybervictimization and excessive Internet use.

465

466 **5. Conclusion**

The overall findings show that the longitudinal studies have revealed that these studentsexperience dramatic situations in which they are first cybervictims who later become

469 cyberbullies. These subjects appear to show emotional problems, coupled with reduced 470 social and forgiveness competences and aggressive conduct when they must face 471 objectives they dislike, and are more prone to suffer from psychological disorders 472 (depression and anxiety). This situation may be due to their families lacking stability 473 (poor family expression and cohesion, serious communication problems). This goes hand 474 in hand with a laissez-faire-type child-rearing style, in which clear limits or the 475 behavioural patterns needed to regulate conduct are not established for adolescents. A 476 lack of family rules may explain why these adolescents engage in dangerous acts similar 477 to corruption of minors on the Internet. All of this could make them potential victims of 478 sexual predators. In addition to these findings, we included meta-regression results that 479 drew attention to the Central European, Mediterranean culture, North American, South 480 America and Asian culture. The cultural diversity that we have identified shows the need 481 to explore the importance of the macrosystem in the duality between being cyber-victim 482 and cyber-bully. Cultural differences in terms of cultural norms, social responses, and 483 protection issues are elements of the macrosystem that can promote or inhibit 484 cyberbullying. A clear example of the importance of the macrosystem are the intervention 485 measures carried out in Australia. For decades, this nation has implemented interventions 486 in educational centers, with students, teachers, and family.

487

488 Individuals affected by this phenomenon often inhabit an absent family in which parents 489 act as friends rather than as parents, and the immense space of the Internet, unlimited by 490 spatiotemporal barriers. All this appears to imply that those who are already cybervictims 491 will move towards cyberbullying themselves and will suffer all the psychological 492 consequences that this duality implies. Thus, one conclusion to be drawn regards the 493 urgent need to introduce programmes such as KiVa into our education systems to prevent 494 and treat cyberbullying so that in the next few years, the moderator effect found by this 495 meta-analysis neither increases nor becomes significant.

This study is not without its limitations, as the sample does not include an African population. It would also have been interesting to observe a better representation of Indo-European, Eastern European and Asian countries, because Asia was represented only by two countries, China and South Korea, while South East Asian and Middle Eastern countries were ignored. It is also necessary to further investigate the relation between parenting styles and cybervictimization-bullying in adolescents and the individualdifferences in those who present this duality.

503

504 **6. Acknowledgements**

- 505 **XXXXXX**
- 506
- 507 7. References
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