Cyber dating violence: A Review of Its Research Methodology

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Título: Ciberviolencia en las relaciones de pareja: una revisión sobre su metodología de investigación.

Resumen: En los últimos años ha aumentado el interés por el estudio de la ciberviolencia en la pareja, sin embargo es necesario examinar la metodología de investigación que sustenta las evidencias obtenidas hasta el momento. Este artículo presenta una revisión sistemática de la literatura científica que analiza 30 instrumentos de medida de ciberviolencia en la pareja de adolescentes y jóvenes adultos utilizados a lo largo de estos años. Los principales resultados muestran una elevada pluralidad metodológica, conceptual y terminológica, observándose un reducido número de instrumentos con suficientes garantías psicométricas. Predominan los trabajos de procedencia estadounidense y, entre los instrumentos aplicados en muestras españolas, destaca una infrarrepresentación de indicadores de ciberviolencia de tipo sexual, lo que limita la comprensión de esta problemática. Esta investigación aporta información sobre el estado actual en el estudio de la ciberviolencia en la pareja y pone de relieve deficiencias metodológicas en la construcción del conocimiento en este campo de estudio. Este trabajo permite una mejor comprensión de la disparidad de resultados señalada por investigaciones previas, especialmente referidas a prevalencia, frecuencia y diferencias de género en este tipo de comportamientos violentos, además de sentar las bases para abordar el fenómeno desde el rigor científico.

Palabras clave: Ciberviolencia de pareja; revisión; metodología; investigación; adolescentes; jóvenes.

Abstract: In recent years there has been increased interest in the study of cyber dating violence, however it is necessary to examine the research methodology that supports the evidence obtained so far. This article presents a systematic review of the scientific literature that analyzes 30 instruments for the measurement of cyber dating violence in adolescents and young adults used throughout these years. The main results show a high methodological, conceptual and terminological plurality, and a reduced number of instruments with sufficient psychometric guarantees is observed. The majority of the work is originated in the United States and, among the instruments applied in Spanish samples, there is an underrepresentation of indicators of sexually based cyber dating violence, which limits the understanding of this problem. This research provides information on the current state in the study of cyber dating violence and highlights methodological deficiencies in the construction of knowledge in this field of study. This work enables a better understanding of the disparity of results pointed out by previous research, especially referring to prevalence, frequency and gender differences in this type of violent behavior, as well as laying the foundations to tackle the phenomenon with scientific rigor.

Keywords: Cyber dating violence; review; methodology; research; adolescents; youth.

Introduction

New technologies have occupied a privileged space in people's lives (Castells & Cardoso, 2005), including relationships, although they can also be used to exert violence. In this sense, the empirical tradition on abuse and technological aggressions has developed around four main lines of research: (a) cyber violence in adolescence (Aboujaoude, Savage, Starcevic & Salame, 2015; Rodríguez-Domínguez, Martínez-Pecino & Durán, 2015), (b) sexually-motivated cyber violence perpetrated by adults towards minors (Górriz, 2016), (c) gender-based cyber violence (e.g., Donoso, Rubio & Vilà, 2017; 2018), also including cyber violence towards women by their romantic partners (e.g., Torres, Robles & De Marco, 2013); and (d) cyber violence produced within underage and/or adult relationships, whether exercised by men or women in same-sex or different-sex relationships (e.g., Borrajo, Gámez-Guadix & Calvete, 2015a; Dank, Lachman, Zweig & Yahner, 2013; Gámez-Guadix; Borrajo & Calvete, 2018; Martinez-Pecino & Durán, 2016; Zweig, Lachman, Yahner & Dank, 2014).

As far as this last line of research is concerned, certain methodological shortcomings are identified.

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Firstly, the diversity of contexts in which violent cyber behaviors are reproduced is compounded by the use of different terms to describe this problem (Gámez-Guadix et al., 2018).

Secondly, it is difficult to establish a definitive classification of the different manifestations of this type of violence, as new behaviors emerge as technologies and our use of them evolve (Rodríguez-Domínguez, 2015; Torres et al., 2013). An example of this would be the recent emergence of new sexual practices related to cyber violence, such as sexting (Ibarra, 2014; Quesada et al, 2018; Rodríguez-Domínguez, Moreno & Durán, 2017) where the contents exchanged, at first, with consent (McLaughlin, 2010; Pérez et al., 2011; Wolak & Finkelhor, 2011), are subsequently used criminally to extort or harm the victim (Rodríguez-Domínguez et al., 2017).

Finally, another problem in cyber dating violence research was pointed out by Borrajo et al. (2015b), who maintain that the instruments used to study this construct do not show adequate psychometric properties, either because they underrepresent the construct by focusing on measuring specific types of cyber dating violence, or because they do not provide evidence of validity. The analysis of the evidences of validity and reliability would be a fundamental requirement in scientific research on human behavior (Prieto & Delgado, 2010). Thus, in the measurement of psychological variables it would be essential for studies to report on the reliability or stability of the measure and also on the factorial structure of

the instruments as an approximation to the validity of the construct, in addition to generating additional evidence of empirical validity referring both to the construct and to the content or criterion (Fernández, 2008).

This disparity of study perspectives, together with the lack of evidence of validity and reliability of the instruments used, hinders a proper understanding of cyber dating violence (hereinafter CDV). As a public health problem (David-Ferdon & Feldman, 2007) with social and psychological repercussions (Donoso-Vázquez, 2018; Jabaloyas, 2015), it becomes necessary to solve both problems.

The objective of this review work is to analyze the methodology used to date in the evaluation of the CDV, identifying the dimensions of the phenomenon, as well as the main measurement instruments and the evidence of validity and reliability obtained through their use.

Method

Search

The search for scientific articles was conducted in April 2018 in the databases Psycinfo, Scielo, Pubmed and Web of

Science. The following keywords were used in English: "cyber stalking", "cyber harassment", "online violence", "cyber dating violence", "cyber dating abuse", "cyber victimization", "cyber aggression", "electronic dating violence", "sextortion" and "revenge porn", and in Spanish: "ciberviolencia", "ciberacoso", "violencia online", "violencia internet", "cibervictimización", "ciberagresión", "sextorsión" and "pornografía de venganza". The search was not limited to a temporary period, nor was the country of origin of the study limited.

Refining and systematization of information

The selection of articles was made according to the following inclusion criteria: (a) the research must provide findings in relation to CDV regardless of the methodology used; (b) the participants may be minors and/or adults (early and intermediate adulthood); (c) the work must include the CDV instrument used or provide information to access it; (d) the work must be published in English or Spanish. Theoretical articles were excluded. Figure 1 shows the diagram of search and selection of the sources analyzed, finally obtaining a total of 59 scientific articles on CDV.

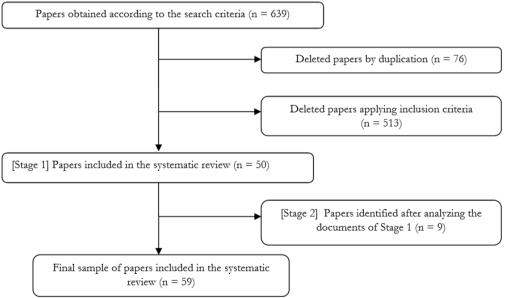


Figure 1. Search diagram and selection of the analyzed sources (own elaboration)

Results

Psychometric properties of measuring instruments

From the sample of 59 valued items, thirty CDV measuring instruments were identified. Table 1 presents the main characteristics of these instruments and the corresponding research. Only the first published study that uses the instrument or the one that provides the analysis of its psychometric properties is included.

The range of years in which this research has been published is from 2007 to 2018. All instruments examined were self-reports, with 50% using an online format as opposed to the traditional paper format. The items were predominantly scalar response (n = 23; 76.6%), in a range of 4 to 7 options depending on the frequency or timing of the CDV indicators. Twenty different terms were identified to designate the construct to be measured for each instrument, most of them Anglo-Saxon terminology. In 13.3% (n = 4) of the cases no reference was made to the psychometric properties of the in-

strument. On the other hand, in 50% (n = 15) of the cases data were provided on evidence of reliability, in 33.3% (n =10) on reliability and validity, and only in one case (3.3%) on validity exclusively.

As for reliability evaluations, the study of internal consistency using Cronbach's alpha prevailed, with coefficients higher than .70 in most cases, except in three papers (Sánchez, Muñoz-Fernández, Lucio & Ortega-Ruíz, 2017; Smith-Darden, Kernsmith, Victor & Lathrop, 2017; Temple et al., 2016). In terms of evidence of validity, the internal

structure was studied to a greater extent by means of exploratory and/or confirmatory analysis.

In three cases, sexual CDV dimensions were specifically addressed (Dick et al., 2014; Smith-Darden et al., 2017; Zweig, Dank, Yahner & Lachman, 2013), and a specific instrument within this typology was found (Drouin et al., 2015). According to the five Spanish instruments, only the one published by Borrajo and collaborators (2015b) contained a single item of sexual CDV (sending and/or uploading photos and/or videos with intimate or sexual content of a partner) without permission.

1 a	ble 1. CDV instruments and main features.	Т	Carla / France (Annual	Danish a marketin manageria
_	Instruments / Source	Type*	Scale / Factor [ítems]	Psychometric properties
1	Tech abuse in teen relationships Picard (2007)	Online; Dichotomous response (Y/N)		Not indicated
2	Cyber aggression between intimate partners Melander (2010)	Paper; Dichotomous response (Y/N)	PER. [11] & VIC. [11]	Not indicated
3	Electronic Victimization	Online; Scalar response (5	VIC. [22]	Reliability
	Bennet, Guran, Ramos & Margolin	points: "Never" - "More than	(a) Hostility [7]	(a) $\alpha = .74$
	(2011)	10 times")	(b) Humiliation [5]	(b) $\alpha = .74$
			(c) Exclusion [3]	(c) $\alpha = .77$
			(d) Intrusion [7]	(d) $\alpha = .73$
4	Controlling Partners Inventory	Online; Scalar response (5	PER. [18] & VIC. [18]	Validity: EFA
	Burke, Wallen, Vail-Smith & Knox	points: "Never" - "4 or more	(a) Photos, camera & SpyWare [8]	Reliability: $\alpha = .90$;
	(2011)	times")	(b) Excessive communication [4]	G.C. $= .85$;
	,	,	(c) Threatening [3]	S-B.C. = .75
			(d) Checking behaviors [3]	
5	Facebook harassment	Online; Scalar response	PER. [13]	Validity: EFA
	Lyndon, Bonds-Raacke & Cratty	(4 points: "Never" - "All the	(a) Covert Provocation [5]	Reliability: (a) $\alpha = .81$
	(2011)	time")	(b) Public Harassment [5]	(b) $\alpha = .79$
	(2011)	time)	(c) Venting [3]	(c) $\alpha = .88$
6	Hurtful cyber-teasing	Paper; Scalar response	VIC. [6]	Reliability: $\alpha = .77$
U	Madlock & Westerman (2011)	(5 points: "No way" - "A lot").	V1C. [0]	Renability. $\alpha = .77$
7	Interpersonal Electronic Surveillance Scale	Online; Scalar response	PER. [12]	Validity: EFA y CFA
/	for Social Networking Sites	(7 points)	FER. [12]	Reliability: $\alpha = .97$
	Tokunaga (2011)	(7 points)		Renability. $\alpha = .97$
8	Cyber aggression perpetration	Online; Dichotomous response	PER. [5]	Reliability:
0	Schnurr, Mahatmya & Basche (2013)		PER. [5]	Men $\alpha = .76$;
	Schiurr, Manaumya & Basche (2013)	(Y/N)		Women $\alpha = .70$;
9	Colon latina along	D C1	DED [17] 9 VIC [17]	
9	Cyber dating abuse	Paper; Scalar response	PER. [16] & VIC. [16]	Reliability:
	Zweig et al. (2013)	(4 points: "Never"" - "Very of-		PER. (a) $\alpha = .88$;
		ten'')	(b) No sexual Cyber abuse [12]	(b) $\alpha = .92$
				VIC. (a) $\alpha = .81$;
4.0		D 0 1	DED 1941 0 1110 1941	(b) $\alpha = .89$
10	Electronic Use Pursuit Behavioral Index	Paper; Scalar response	PER. [21] & VIC. [21]	Reliability:
	(EUPBI)	(5 points: "Never" - "Very of-		PER. $\alpha = .78$
	Strawhun, Adams & Huss (2013)	ten") and an open response item		VIC. $\alpha = .90$
11	Digital Dating Abuse (Current Population		VIC. [16]	Not indicated
	Survey)	dicated	, 10. [10]	1 tot meneated
	Tompson, Benz & Agiesta (2013)	cheated		
12	Cyber dating abuse	Online; Scalar response (5	VIC. [7]	Reliability: $\alpha = .72$
12	Dick et al. (2014)	points: "Never" – "Every day		renability. w .72
	Dick et al. (2014)	or almost every day").	(a) Sexual [5] (b) No sexual [4]	
13	Cyber Psychological Abuse Scale	Online; Scalar response	PER. [9] & VIC. [9]	Validity: CFA; EFA; conver-
13	Leisring & Giumetti (2014)	(7 points: "Never" – "More	(a) Minor [6]	gent, divergent and concurrent
	Leisting & Giumetti (2014)		()	Reliability:
		than 20 times")	(b) Severe [3]	PER. $\alpha = .82$; VIC. $\alpha = .81$
1.4	Culon dating abuse	Danam Onan massansa (fus	VIC 101	PER. $\alpha = .82$; VIC. $\alpha = .81$ Not indicated
14	Cyber dating abuse	Paper; Open response (frequen-	- VIC. [9]	not marcated
	Borrajo et al. (2015a)	cy of behavior)		

	Instruments / Source	Type*	Scale / Factor [ítems]	Psychometric properties
15	Cyber dating abuse questionnaire	Online; Scalar response (6	PER. [20] & VIC. [20]	Validity: CFA y EFA; Conver-
	Borrajo et al. (2015b)	points: "Never" - "More than	(a) Control [9]	gent.
		20 times").	(b) Direct aggression [11]	Reliability:
			, 66 1	PER. (a) $\alpha = .81$; (b) $\alpha = .73$
				VIC. (a) $\alpha = .87$; (b) $\alpha = .84$
16	Electronic Teen Dating Violence perpetra-	Paper; Scalar response (4	PER. [8]	Validity: Structural Equation
	tion	points: "Never" – "10 or more		Model, invariance by gender
	Cutbush (2015)	times")		(metric / scalar)
17		Online; No response format in-	VIC. [32]	Reliability: (a) $\alpha = .95$;
	Drouin, Ross & Tobin (2015)	dicated	(a) Resource manipulation	(b) $\alpha = .97$; (c) $\alpha = .98$;
			(b) Ommitment manipulation	Total $\alpha = .98$
			(c) Defection threat	
18	Self-reported Partner-Directed Cyber Ag-	Paper; Scalar response (5 points	: PER. [5]	Validity: CFA
	gression	"Never" - "All the time")	(a) Cyber relational aggression [3]	Reliability: (a) $\alpha = .91, .91$
	Wright (2015)		(b) Privacy invasion [2]	(b) $\alpha = .83, .82$
19	Bullying of boyfriends or girlfriends through	Paper; Scalar response (4 points	: PER. [16]	Reliability:
	the mobile phone and the Internet	"Never" – "Very often")	(a) Mobile phone	(a) $\alpha = .78$
	Martínez-Pecino & Durán (2016)		(b) Internet	(b) $\alpha = .76$
20	Partner Cyber Abuse Questionnaire	Online; Scalar response (6	VIC. [9]	Validity: EFA, convergent.
	Wolford-Clevenger et al. (2016)	points: "Never"-"5 or more		Reliability: $\alpha = .73$
		times")		
21	Digital dating abuse (DDD)	Paper; Dichotomous response	PER. [19] & VIC. [19]	Reliability:
	Reed, Tolman y Ward (2016)	(Y/N) and scalar response (5		PER. $\alpha = .73$
		points: "0 times" - "More than		VIC. $\alpha = .76$
		5 times")		
22	Cyber dating abuse perpetration/ victimiza-	Paper; Dichotomous response	PER. [12] & VIC. [12]	Reliability:
	tion	(Y/N)		PER. $\alpha = .65, .67$
	Temple et al. (2016)			VIC. $\alpha = .74, .79$
23		Paper; Scalar response (6 points		Reliability:
	Smith-Darden et al. (2017)	"Never" – "10 or times")	(a) Cyberstalking	(a) $\alpha = .47$; (b) $\alpha = .60$;
			(b) Harassment	(c) $\alpha = .77$; Total $\alpha = .75$
٠,	E 1 1 17:1 + 1 D	D 0 1 (4 :	(c) Coercive sexting	77 11 11 OF A
24	Escala de Violencia de Partner en las Redes			Validity: CFA
	Sociales en Adolescentes (E-Vpa)**	"Never" – "Always")	(a) e-control [6]	Reliability: (a) $\alpha = .86$
25	Muñiz (2017)	O-1: S1 (F	(b) e-violence [4]	(b) $\alpha = .80$
25	The Intimate Partner Cyberstalking Scale	Online; Scalar response (5 points, Likert: "Strongly disa-	PER. [21]	Reliability: $\alpha = .92$
	Smoker & March (2017)	gree" – "Strongly agree")		
26	Electronic aggression perpetration	Online; Scalar response (5	PER. [4]	Reliability: $\alpha = .83$
20	Ramos, Miller, Moss & Margolin		1 LK. [+]	Kenabinty. u = .03
	(2017)	10 times")		
2.7		Paper; Scalar response (5 points	: PER. [11]	Validity: EFA y CFA of the
	Sánchez et al. (2017); three subscales		(a) Online jealousy [4]	original Cyberdating Q_A in-
	of the <i>Cyberdating</i> Q_A instrument		(b) Online intrusion [4]	strument
	(Sánchez, Muñoz-Fernández & Orte-		(c) Online control [3]	Reliability: (a) $\alpha = .84$; .88; (b)
	ga-Ruíz, 2015)		.,	$\alpha = .81; .76;$
				(c) $\alpha = .68; .79$
28	Electronic Teen Dating Violence	Paper; Scalar response (4 points	: PER. [8] & VIC. [8]	Reliability:
	Cutbush , Williams, Miller, Gibbs &			PER. $\alpha = .81, .86, .88, .89$ VIC.
	Clinton-Sherrod (2018)	,		$\alpha = .85, .87, .86, .86$
29	Cyber aggression victimization	Online; Scalar response (7	VIC. [18]	Reliability: $\alpha = .91$
	Marganski & Melander (2018)	points: "Never" - "20 or more		
		times")		
30		Paper; Scalar response (5 points	: PER. [8] & VIC. [8]	Validity: Convergent & discri-
	Smith et al. (2018)	"Never" – "Always")		minant (no data provided)
				Reliability:
				PER. $H = .86$; VIC. $H = .89$

 $(Y/N) = Yes/No; PER. = Perpetration; VIC. = Victimization; EFA = Exploratory Factor Analysis; CFA = Confirmatory Factor Analysis; <math>\alpha = Cronbach's$ alpha; G.C. = Guttman's Coefficient; S-B.C. = Spearman–Brown's Coefficient. H = H's Coefficient *All are self-reports. *All are self-reports ** E-Vpa instrument is available through the Lisis Group website (2019).

Research characteristics and main findings

As Table 2 shows, the instruments come mainly from the United States (n = 22; 73.3%) and to a lesser extent from Spain (n = 5; 16.6%) and from other countries such as the Czech Republic, Australia and Canada (n = 3; 9.9%). The phenomenon was especially studied in university populations (n = 16; 53.3%) and non-probability samples were taken (n = 21; 70%); 43.3% of the studies (n = 17) specified the existence of temporal restrictions in the measure of the CDV, most commonly assessing these behaviors in the last year elapsed (n = 11; 36.6%) and also in the current relationship (n = 22; 73.3%).

Reported prevalence rates of CDV perpetration in minors ranged from 8.8% (Muñiz, 2017; Muñiz & Monreal, 2017) to 38% (Smith-Darden et al., 2017), and in victimization from 22.3% (Temple et al., 2016) to 41% (Dick et al., 2014). In adults, perpetration figures ranged from 16.3% (Ramos et al., 2017) to 71% (Melander, 2010), and victimization from 20% (Drouin et al., 2015; Strawhun et al., 2013) to 75% (Melander, 2010), 76.5% in women and 77.1% in men (Bennett et al., 2011), considering only global indices, although values above these limits were observed in specific items. As for the frequency of CDV, the mean scores found were generally at the lower end of the scale, in adults (Bennett et al., 2011; Reed et al., 2016), and in minors (Sánchez et al., 2017; Temple et al., 2016), although there were results as

disparate as those obtained in the two papers by Borrajo and his team, on the one hand, reporting an average victimization of 23 times in the last six months (Borrajo et al., 2015a), and on the other hand, a much lower average in the last year of the relationship, according to the type of CDV (Borrajo et al., 2015b).

Discrepancies were also observed regarding the participation of men and women in CDVs. In adults, some studies did not detect gender differences in the frequency of perpetration (Ramos et al., 2017; Reed et al., 2016; Tokunaga, 2011), in the frequency of victimization (Drouin et al., 2015; Wolford-Clevenger et al., 2016), or in the chronicity of CDVs (Bennett et al., 2011; Borrajo et al., 2015a; Strawhun et al., 2013; Wolford-Clevenger et al., 2016). This was similar in studies with minors (e.g., Muñiz, 2017; Muñiz & Monreal, 2017; Sánchez et al., 2017; Reed et al., 2016; Smith et al., 2018). Conversely, other studies reported a higher degree of perpetration in older men, in prevalence (Martínez-Pecino & Durán, 2016) and frequency (Leisring & Giumetti, 2014), while others indicated that women exercised these aggressions more often (Burke et al., 2011; Smoker & March, 2017; Strawhun et al., 2013) and men suffered them more often (Cutbush et al., 2018; Reed et al., 2016). These discrepancies were also observed according to the type of CDV assessed (Burke et al., 2011; Dick et al., 2014; Leisring & Giumetti; 2014; Melander, 2010; Zweig et al., 2013).

Table 2. Features of studies on CDV and main results.

	Paper	Sample	CDV	Main results
1.	Picard (2007)	13-18 years old	During the	e Prevalence
		United States	relationship	Perpetration: 5% - 24%
				■ Victimization: 5% - 36%
2.	Melander	M = 21 years old	Last year	Prevalence
	(2010)	Undergraduates		■ Perpetration: 71%
		N.P. Sampling		Women: checking the partner's phone
		United States		 Men: (a) creating online group to publish negative information; (b) publishing private information, photos or videos without permission
				■ Victimization: 75%
				Men: (a) accessing to private accounts; (b) creating online group to publish negative information; (c) publishing information, photos or videos
3.	Bennett et al.	18-22 years old, Under-	Last year	Prevalence
	(2011)	graduates		■ Victimization (partner): 76.5% women vs. 77.1% men
		N.P. Sampling		Frequency
		United States		■ Victimization: low scores (M = .1445). Non-sig. gender differences
4.	Burke et al.	18-23 years old, Under-	Current or	: Prevalence
	(2011)	graduates	previous re	1
		N.P. Sampling	lationship	(0 , 0) , , ,
		United States		Men: (a) controlling via GPS; (b) controlling via hidden camera
				■ Victimization: 1% - 65% Women; 3% - 50% Men
				Women: 3 behaviors (e.g., checking call history)
				Men: 3 behaviors (e.g., publishing inappropriate images)
				Frequency
				Perpetration: higher mean score for women
_		40.00		• Victimization: higher mean score for women
5.	, ,	18-32 years old	Former	Prevalence
	(2011)	Undergraduates N.P. Sampling United States	partner	 Perpetration: 67% covert Provocation; 18% public harassment and ventilation

	Paper	Sample	CDV	Main results
6.	Madlock &	18-33 years old	Partner	Prevalence
	Westerman	Undergraduates	Last 6	■ Victimization: 53.8% (moderate or higher grade)
	(2011)	N.P. Sampling United States	months	
7.	Tokunaga	18-56 years old	Partner	Frequency
	(2011)	Undergraduates y General	[■ Perpetration: non-sig. gender differences
		population		 Negative relationship with age
		N.P. Sampling		
		United States		
8.	Schnurr et al.	M = 20.17 (>18)		Perpetration:
	(2013)	Undergraduates	partner	• High levels of domination by women and CDV (women towards men) reduce
		N.P. Sampling		the perpetration of physical violence by men
		United States		 Positive relationship between physical and psychological violence by girl- friends and CDV by their boyfriends
				Positive relationship between psychological violence by boyfriends and CDV
				by their girlfriends
9	Zweig et al.	7th-10th grade schoolchil-	Current or	
٠.	(2013)	dren	previous re-	
	(====)	United States	lationship	cised sexual CDV
			Last year	■ Victimization: 26 %; More girls victims of general and sexual CDV
10.	Strawhun et	M = 19.18 years old	Partner and	
	al. (2013)	Undergraduates	others con-	Perpetration: 26.5%
		N.P. Sampling	text	■ Victimization: 20.5%
		United States		Frequency
				■ Perpetration: women commit CDV more frequently
				■ Victimization: non-sig. gender differences
11.	Tompson et	14-24 years old, General		
	al. (2013)	population	others con-	• Victimization: 56% (2011); 49% (2013); 15% frequent CDV (5 or more times)
		P. Sampling	text	
12	Dick et al.	United States 14-19 years old; School-	Dortner	Prevalence
14.	(2014)	children	Last three	■ Victimization: 41% (general); non-sig. gender differences (sexual); more victim
	(2011)	United States	months	girls (not sexual)
13.	Leisring &	M = 19.03 years old	During dis-	
	Giumetti	Undergraduates	cussion	■ Perpetration: 93.7% (minor); 13.3% (severe)
	(2014)	N.P. Sampling	Current	■ Victimization: 93% (minor); 12.6% (severe)
		United States	partner	Frequency
				 Perpetration and Victimization (minor): non-sig. gender differences
				 Perpetration and Victimization (severe): men with higher scores
14.	Borrajo et al.	18-30 years old		Prevalence
	(2015a)	Undergraduates	Last 6	• Victimization: 50%; non-sig. gender differences (general), more men (dissemi-
		N.P. Sampling	months	nation of personal information or compromised images)
		Spain		Frequency and chronicity Victimization: 23 times on mean. Non-sig. gender differences
15	Borrajo et al.	18-30 years old	Partner	Prevalence
13.	(2015b)	Undergraduates	Last year	■ Perpetration: 10.6% (direct aggression); 82% (control)
	(20100)	N.P. Sampling	zast year	Victimization: 14% (direct aggression); 75% (control)
		Spain		Frequency and chronicity
		•		Perpetration: 5.16 times (direct aggression); 6.97 times (control)
				■ Victimization: 4.83 times (direct aggression);7.01 times (control)
16.	Cutbush	7 th grade	Partner	Prevalence
	(2015)	Schoolchildren United	Last 6	■ Perpetration: 17.1% (1st measure); 14.1% (2nd measure)
		States	months	
17.	Drouin et al.	M = 20.6 years old	_	Prevalence
	(2015)	Undergraduates	former	Victimization: 20%; non-sig. gender differences
		N.P. Sampling United States	Last year of	Frequency Women have suffered more from manipulation of commitment
		Office States	Last year Of	women have suffered more from manipulation of communicity

	Paper	Sample	CDV	Main results
18.	Wright (2015)	M = 17.53 years old	Partner	■ Perpetration: Anxious partner attachment is positively related to CDV and it
		Schoolchildren N.P. Sam-		mediates the relationship between insecure parental attachment (mothers) and
		pling		CDV
		Czech Republic		
19.	Martínez-	18-28 years old Under-	Partner	Prevalence
	Pecino &	graduates	Last year	 Perpetration: 48.4% mobile; 37.5% Internet
	Durán (2016)	N.P. Sampling		Higher prevalence in men towards their girlfriends (mobile and Internet)
		Spain		
20.	Wolford-	M = 18.80 years old		Prevalence
	Clevenger et	Undergraduates	Last year	 Victimization: 1.1% - 30.7% (according to item). Non-sig. gender differences
	al. (2016)	N.P. Sampling		Frequency
		United States		 Victimization: Non-sig. gender differences
21.	Reed et al.	17-22 years old Under-	Partner	Prevalence
	(2016)	graduates	One's	 Perpetration: 69.5% (One's whole life); 62.6% (Last year).
		N.P. Sampling	whole life	Non-sig. gender differences (General); Men: threatening to distribute shameful
		United States	and last	information and pressing for sexual images to be taken
			year	 Victimization: 74.1% (One's whole life); 68.8% (Last year)
				Frequency
				 Perpetration: Low scores. Non-sig. gender differences (General)
				 Victimization: scores. Non-sig. gender differences (General);
				Men: more severe victimization
22.	Temple et al.	M = 18.09 years old	Current or	Prevalence
	(2016)	Schoolchildren N.P. Sam-	most recen	t ■ Perpetration: 17.8% (1st measure); 17.5% (2nd measure)
		pling United States	partner	■ Victimization: 24% (1st measure); 22.3% (2nd measure)
				Frequency
				 Perpetration: CDV low frequency (mean score less than 1)
				 Victimization: CDV low frequency (mean score less than 1)
23.	Smith-	6th- 9th grade	Partner	Prevalence
	Darden et al.	Schoolchildren	Last year	■ Perpetration: 38%; Higher risk in 9th grade, black students, negative experienc-
	(2017)	P. Sampling United States		es in childhood; Lower risk with participatory parents
24.	Muñiz (2017)	15-18 years old	Partner and	d Prevalence
		Schoolchildren	former	 Perpetration: 8.8%. Non-sig. gender differences
		P. Sampling Spain	partner	Positive relationship of CDV with family conflict and loneliness
25.	Smoker y	M = 26 years old	Partner	Frequency
	March (2017)	General population		 Perpetration: Increased probability of exercising CDV in women and in partic-
		N.P. Sampling Australia		ipants with higher levels of machiavellianism, narcissism, psychopathy and sad-
		1 0		ism
26.	Ramos et al.	18-27 years old Under-	Partner	Prevalence
	(2017)	graduates	Last year	■ Perpetration: 16.3%
		N.P. Sampling	•	Frequency
		United States		 Perpetration: Non-sig. gender differences; Positive relationship with aggression
				in the family, perspective-taking and empathy mitigate this bond
27.	Sánchez et al.	15-21 years old School-	Partner	Prevalence
	(2017)	children		■ Perpetration: >90% control; 70% - 80% jealousy and intrusion (Spain and
	,	N.P. Sampling		Mexico)
		Spain and Mexico		Spain: Non-sig. gender differences; Mexico: more boys in Intrusion
				Frequency
				Perpetration: CDV occasionally (mean scores around 1)
				Non-sig. gender differences
28.	Cutbush et al.	7th – 8th grade	Partner	Prevalence
	(2018)	Schoolchildren United	Last 6	Perpetration: 13.9% - 32.3%; Non-sig. gender differences
	(2010)	States	months	■ Victimization: 24.8% - 50.6%; more victim boys (1st measure). Similar rates in
		States	months	the remaining measures
20	Marganski &	18-25 years old Under-	Partner and	
<i>_</i> /.	Melander	graduates	former	■ Victimization: 73% (according to behavior: 4.1% - 47.4%)
	(2018)	N.P. Sampling		
	(2010)	United States	partner Last year	CDV is related with psychological, physical and sexual partner violence; CDV increases the risk of offline partner violence

Paper	Sample	CDV	Main results
30. Smith et al.	14-18 years old School-	Partner	Prevalence
(2018)	children	Last year	■ Perpetration: 33%
	Canada		 Non-sig. gender differences; negative relationship with low self-esteem Victimization: 35.6% Non-sig. gender differences; Some subtypes are associated with higher Some subtypes are associated with higher levels of psychological distress (especially in girls)
			■ Most (82.5%) who have perpetrated CDV have been victims of CDV

M = Mean; P. Sampling / N.P. = Probabilistic / Non probabilistic sampling; Prevalence = percentage of participants who have exercised / suffered at least some type of CDV; Frequency = regularity of the CDV (mean scores according to number of times, temporality, etc.); Non-sig. = non-significant.

Discussion

The objective of this review study was to analyze the methodology used throughout these years in the evaluation of CDV. In the 59 scientific works analyzed, thirty instruments of CDV measurement were detected.

Of the results obtained, the scarce number of instruments that provide evidence of their psychometric properties stands out, as Borrajo et al., argue (2015b). Some of the published works report on the reliability of the instruments, but there are currently no specific studies on evidence of validity to support their statistical conclusions. These studies would be necessary to ensure that the conclusions obtained are scientifically justified (Prieto & Delgado, 2010). On the other hand, the evidence of validity displayed is mostly from the internal structure, preferably through exploratory factor analyses. In addition to other techniques, such as confirmatory factor analyses, which could reveal specific aspects of measurement models, there are also other sources of evidence of validity (AERA, APA & NCME, 2014) for which scarce information is available.

The instruments of CDV have been used mainly in United States research, which could limit the understanding of this phenomenon in the Spanish population. In addition, it highlights the variety of terms used to refer to the construct, as other works have also pointed out (Gámez-Guadix et al., 2018). The data indicate that there are few international or national studies that include electronic sexual assault or the fraudulent use of this type of content. As previously pointed out (e.g., IEIG, 2017; Rodríguez-Domínguez et al., 2017), other violent practices carried out through technologies would be underestimated, which also has a negative impact on the understanding of this phenomenon.

This systematic review also provides relevant information on the approach to CDV in research. The methodological differences identified (attention to the prevalence or chronicity of the phenomenon, temporality of the aggressions studied, type of relationship analyzed, etc.) make it difficult to compare the studies with each other and are possibly responsible for the plurality of evidence found in this area. It is essential to clarify questions of this type in the studies in order to better interpret the results obtained and better understand the phenomenon.

The findings reviewed do not allow us to conclude with confidence the existence of gender differences in this phenomenon. In addition to the plurality of the methodological approach, another reason could lie in the motives and the type of CDV exercised, as happens in offline violence. In this type of violence, some hypotheses suggest that young women use violence as a form of relief and in a reactive manner, as a response to unacceptable acts by their partners. Young men, on the other hand, use violence as a way of dominating and controlling women (Foshee, Bauman, Linder, Rice & Wilcher, 2007). Similarly, young women express verbal aggressions towards their partners to a greater extent, while young men emphasize physical and sexual aggressions (Harned, 2001; Muñoz-Rivas, Graña, O'Leary & González, 2007). Something similar seems to happen in CDV. An example of this would be the study by Zweig et al., (2013) in which more boys who are sexually abusive and more girls who are victims of general and sexual CDV are identified. Also the recent findings of Smith et al., (2018), which, although similar in terms of prevalence between boys and girls, observed higher levels of psychological distress in female victims, which could be a better indicator of the severity of the abuse, rather than the number of times it occurs.

Among the limitations of this study are those referring to the process of searching for scientific studies and the inclusion criteria that have been considered. Future studies could analyze possible differences according to the degree of commitment in the relationship or the moment in which CDV is exercised.

In conclusion, the evaluation of CDV shows a great methodological diversity, as well as a scarce attention to manifestations of sexual CDV. Although some studies have estimates of the reliability of the measure, a considerable number of them have not been approached from the perspective of validity, which would limit the construction of scientific knowledge in this field. The information obtained in this systematic review is fundamental to understand the possible reasons for the divergence of results about the CDV, since it shows how the methodological approach conditions the interpretation of the evidence found, issues that have to be addressed from the scientific rigor and adequately detailed in the research.

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