Multimedia Appendix 5: Summary of Outcome Measures Used in Studies Included in Review

Author	Data collection method
Year	Outcome measures used
Questions used for outcome measures	
Alavi [37]	Retrospective review of patient medical records
2015	CV, TV, SB, SI
CV – Question(s) to determine cybervictimisation status not specified	
TV – Question(s) to determine traditional victimisation (split into verbal and physical victimisation) status not specified	
SB, SI – Question(s) to determine suicidal ideation status not specified	
CP, TP, SH, SA, MH – None	
Other measures – History of sexual, physical, and emotional abuse was measured	
Arat [46]	Self-report questionnaire
2015	CV, TV, SB, SI, MH

CV – One question from the YRBS asking "During the past 12 months, have you ever been electronically bullied?"

TV – One question from the YRBS asking "During the past 12 months, have you ever been bullied on school property?"

SB, SI - One question from the YRBS asking "During the past 12 months, did you ever seriously consider attempting suicide?"

MH – One question from the YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

CP, TP, SH, SA - None

Other measures – Several other protective and risk factors were considered such as dietary patterns, TV consumption, and physical activity

Bannink [34]	Self-report questionnaire
2014	CV, TV, SB, SI, MH

CV – One question from the RYM asking whether individuals had been bullied in the past four weeks via the Internet or their phone; answers were dichotomised into "Never being victimised" and "Being victimised once or twice

TV – One question from the Rotterdam Youth Monitor (RYM) asking whether individuals had been bullied in the past four weeks at school; answers were dichotomised into "Never being victimised" and "Being victimised once or twice

SB, SI - One question from the RYM asking "In the past 12 months have you ever seriously considered ending your life?"

Other measures – Incorporated as potential confounders were age, gender, ethnicity, and level of education

MH - SDQ, 25 items, Dutch self-report version

TP, CP, SH, SA – None

Other measures - None

Bauman [18]	Self-report questionnaire
2013	CV, CP, TV, TP, SH, SB, SA

CV – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you been electronically bullied, such as through e-mail, chat rooms, instant messaging, web sites or text messaging?"

CP – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you electronically bullied someone else, such as through e-mail, chat rooms instant messaging, web sites or text messaging?"

TV – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you been harassed or bullied on school property?"

TP – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you harassed or bullied someone else on school property?"

SH - One question from the Arizona YRBS on suicide attempt

SB, SA – One question from the Arizona YRBS

Other measures – Gender, grade level and ethnicity were also analysed to assess whether there was an association with depression or suicidality

MH – One question from the Arizona YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

SI – None

Other measures - None

Bonanno [57]	Self-report questionnaire
2013	CV, CP, TV, TP, SB, SI, MH

CV, CP, TV, TP – Assessed via a 10-item self-report adapted from measures originally developed by Olweus (1993) in which involvement in traditional bullying is split into the three subcategories: physical, verbal, and social

SB, SI – SIQ-JR, 15 items

MH – Depressive symptomatology examined using CES-D scale, 20 items

SH. SA – None

Other measures - None

Cassidy [19] Self-report questionnaire 2009 CV. CP. SB. SI

CV – Eighteen different questions relating to different examples of cybervictimisation

CP – Participants were asked if they have "harassed or bullied another student online either through chat rooms, emails, text messaging or any other online discussions".

SB, SI – Identified from responses to open-ended questions

TV, TP, SH, SA, MH - None

Cénat [39] Self-report questionnaire
2015 CV, TV, SB, SI

CV – One question from the QYRRS asking "How many times has someone bullied you (rumors, intimidation, threatening, etc.) using the Internet (Facebook, MySpace, MSN, email, texto, etc.)?"

TV – One question from the QYRRS asking "How many times has someone bullied you at school or elsewhere except via the Internet?"

SB, SI-One question from the QYRRS asking "Have you ever seriously thought of committing suicide?"

CP, TP, SH, SA, MH - None

Other measures - Psychological distress, self-esteem, and homophobic bullying were also measured

DeSmet [47] Self-report questionnaire 2014 CV, TV, SB, SI

CV – Participants were asked on the HBSC if they had been a victim in cyberbullying ("via Internet, e.g. chat or e-mail, or via mobile phone, e.g. text messages") with answer options on a 5-point Likert scale

TV – Participants were asked on the HBSC if they been a victim in traditional bullying ("bullied at school") with answer options on a 5-point Likert scale

 $S\dot{B}$, SI – One question from the HBSC asking "Have you ever thought about ending your life?" with answer options on a 5-point Likert scale

CP, TP, SH, SA, MH - None

Other measures – Obesity, family affluence, quality of life, self-esteem, and barriers and facilitators to a healthy diet were also measured

Duong [48] Self-report questionnaire 2014 CV, TV, SH, SB, SA

CV – One question from the YRBS asking "During the past 12 months, have you ever been electronically bullied, such as through email, chat rooms, instant messaging, Web sites, or text messaging?"

TV – One question from the YRBS asking "During the past 12 months, have you ever been bullied on school property?"

SH, SA – One question from the YRBS asking "During the past 12 months, how many times did you actually attempt suicide?" with answer options "0 times", "1 time", "2 or 3 times", "4 or 5 times", or "6 or more times"

SB. SI. MH – None

Other measures – Aggressive behaviour, sexual orientation, and connection with a school teacher were also measured

Elgar [49] Self-report questionnaire 2014 CV, TV, TP, SH, SB, SA, SI

CV – One question from the DCYA asking "In the past 12 months, how often have you been bullied, threatened, or harassed through the Internet or text messaging?" with answer choices "Never, rarely, sometimes, or often"

TV – Four-item victimization subscale of The Bullying and Victimisation subscales of the University of Illinois Aggression Scales

TP – Six-item bullying subscale of The Bullying and Victimisation subscales of the University of Illinois Aggression Scales

SH, SA – One question from the DCYA asking youth if they had intentionally hurt themselves, such as cutting or burning, in the past 12 months; and one question from DCYA regarding suicide attempt

SB, SA, SI – Two questions from DCYA regarding suicidal thoughts and suicide attempts

MH - Two questions from the DCYA asking youth whether they have had feelings of anxiety or depression

CP – None

Other measures - Family dinners, externalising problems, and substance use problems

Fu [33]	Researcher-completed questionnaire
2014	CV, TV
CV - One question from the EUKOS with respondent confirming that they have had "the experience of online bullying" but answered	

"no" when asked if the experience had occurred "in person, face-to-face" and "by mobile phone calls, texts, or image/video texts"

TV - Assessed as part of EUKOS but no measure given for exclusive traditional bullying victimisation

TP, CP, SH, SB, SA, SI, MH - None

Other measures - Unnatural child deaths, exposure to self-harm/suicide information, and Internet addiction

Goebert [20] Self-report questionnaire 2011 CV, SH, SB, SA, MH

CV – Participants were asked by which method they had experienced cybervictimisation: (1) text; (2) e-mail; (3) web; (4) cybercontrol of victim's phone by victim's partner; (5) cybercontrol of victim's personal website by victim's partner

SH, SA - Participants were asked "how many suicide attempts they had made in the past 12 months"

MH - Depression was measured using two questions from the CES-D

TV, CP, TP, SB, SI - None

Other measures – Substance abuse and type was also measured (1) binge drinking; (2) marijuana

Hay [16] Self-report questionnaire 2010a CV, TV, SH, SB, SI

CV – Three-item scale asking how often respondents had been the victim of different kinds of cyberbullying during the past 12 months, with answers categorised as "never", "rarely", "sometimes", or "often"

TV – Six-item scale asking how often respondents had been the victim of different kinds of traditional bullying during the past 12 months, with answers categorised as "never", "rarely, "sometimes", or "often"

SH – One question asking how often "you purposely hurt yourself without wanting to die" such as "cutting or burning" with answers categorised as "never", "rarely, "sometimes", or "often"

SB, SI – One question asking how often "you think about killing yourself" with answers categorised as "never", "rarely, "sometimes", or "often"

CP, TP, SA, MH - None

Other measures - None

Hay [41] Self-report questionnaire 2010b CV, TV, SH, SB, SI

CV — Three-item scale asking how often respondents had been the victim of different kinds of cyberbullying during the past 12 months, with answers categorised as "never", "rarely", "sometimes", or "often"

TV – Six-item scale asking how often respondents had been the victim of different kinds of traditional bullying during the past 12 months, with answers categorised as "never", "rarely, "sometimes", or "often"

SH – One question asking how often "you purposely hurt yourself without wanting to die" such as "cutting or burning" with answers categorised as "never", "rarely, "sometimes", or "often"

SB, SI – One question asking how often "you think about killing yourself" with answers categorised as "never", "rarely, "sometimes", or "often"

CP, TP, SA, MH – None

 $Other\ measures-Externalising\ delinquency\ was\ also\ measured$

Hébert [40]	Self-report questionnaire
2016	CV, TV, SB, SI

CV – One question from the QYRRS asking "How many times did someone harass you (with rumors, intimidation, threats, etc.) electronically (Facebook, MySpace, MSN, emails, texts, etc.)"

TV – One question from the QYRRS asking "How many times did someone harass you (with rumours, intimidation, threats, etc.) at school or elsewhere (excluding electronically)?"

SB, SI – One question asking "In the past 12 months, have you ever seriously thought of committing suicide?"

CP, TP, SH, SA, MH – None

Other measures - Psychological distress, maternal support, and lifetime child sexual abuse were also measured

Hinduja [11]	Self-report questionnaire
2010	CV, CP, TV, TP, SH, SB, SA, SB, SI

CV-Nine-item scale asking students about their experiences of various forms of cybervictimisation in the last 30 days, with answers categorised in terms of frequency

CP-Five-item scale asking students about their experiences of various forms of cyberbullying perpetration in the last 30 days, with answers categorised in terms of frequency

TV – Ten-item scale asking students about their experiences of various forms of traditional victimisation in the last 30 days, with answers categorised in terms of frequency

TP – Ten-item scale asking students about their experiences of various forms of traditional perpetration in the last 30 days, with answers categorised in terms of frequency

SH, SB, SA – One of four items adapted from the NASHS asking students if they have ever attempted suicide with answers dichotomised to "yes" or "no"

SB, SI - Four-item scale adapted from the NASHS

MH – None

Other measures - None

Kindrick [44] Self-report questionnaire

2013 CV, TV, SH, SB, SA, SARMT, SI, SP MH

CV - Three questions from the Arkansas YRBS

TV – Three questions from the Arkansas YRBS

SH - One question from Arkansas YRBS

SB, SA, SARMT, SI, SP – Four questions from the Arkansas YRBS

MH – One question from the Arkansas YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

TP. CP - None

Other measures - None

Kodish [50]	Self-report questionnaire
2016	CV, TV, SB, SH, SA, MH

CV – One question from the BHS asking "How often are you cyber bullied – chat rooms, Facebook, instant messaging, text messages on your cell phone?"

TV – Two questions from the BHS assessing physical and verbal victimisation

SB - Four items measuring suicide risk

SH, SA - One question asking whether the participant had ever attempted suicide

MH - Depression was measured using a 5-item scale

CP, TP - None

Other measures - None

2013 CV, TV, SB

CV – Three questions devised by a "local coalition"

TV - Three questions from the YRBS

SB- Four questions from the YRBS including questions of both SA and SI, but presented as the single outcome "suicidal behaviour"

TP, CP, SH, SA, SI, MH - None

Other measures – Physical bullying, substance use, violent behaviour, and sexual behaviour

Messias [42]	Self-report questionnaire
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2014 CV, TV, SH, SB, SA, SARMT, SI, SP

CV – One question from the YRBS asking "During the past 12 months, have you ever been electronically bullied? (Include being bullied through e-mail, chat rooms, instant messaging, Web sites, or texting)"

TV – One question from the YRBS asking "During the past 12 months, have you ever been bullied on school property?"

SH - One question from the YRBS

SB, SA, SARMT, SI, SP - Four questions from the YRBS

MH – One question from the YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

TP, CP - None

Other measures - None

Mitchell [52]	Researcher-completed questionnaire
2014	CIT OD OL MIL

2014 CV, SB, SI, MH

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m CV}$ – Questions from YISS-3 in which youth were asked whether they had been victims of various kinds of harassment or abuse, including online harassment

SB, SI – One question from the TSCC asking "In the last month, how often have you been wanting to kill yourself?"

MH – Depression subscale of the TSCC, 9 items

TV, TP, CP, SH, SA - None

Other measures – Forms of victimisation other than online harassment, problem behaviour/conflict, and various demographic characteristics (age, gender, etc.)

Price [21]	Self-report questionnaire
2010	CV, CP, SH, SB, SI

CV – Participants were asked if they had been cybervictimised, with this defined as being "teased, harassed, ignored or bullied in some other way via an electronic device (e.g. mobile phone or computer)"

CP – Question used to determine cyberbullying perpetration status unspecified

SH – Identified from responses to open-ended questions

SB, SI – Identified from responses to open-ended questions

TV, TP, SA, MH - None

Reed [43] Self-report questionnaire 2015 CV, TV, SH, SB, SA, SI, SP

CV – One question from the YRBS asking "During the past 12 months, have you ever been electronically bullied? (Include being bullied through e-mail, chat rooms, instant messaging, Web sites, or texting)"

TV – One question from the YRBS asking "During the past 12 months, have you ever been bullied on school property?"

SH, SA - One question from the YRBS asking "During the past 12 months, how many times did you actually attempt suicide?"

SB, SA, SI, SP - Three questions from the YRBS

MH – One question from the YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

TP, CP - None

Other measures - None

Roberts [38]	Retrospective review of patient medical records
2016	CV, TV, SB, SI

CV – Question(s) to determine cybervictimisation status not specified

TV – Question(s) to determine traditional victimisation (split into verbal and physical victimisation) status not specified

SB, SI – Question(s) to determine suicidal ideation status not specified

CP, TP, SH, SA, MH - None

Other measures - Substance abuse and history of sexual, physical, and emotional abuse were also measured

Roh [53]	Self-report questionnaire
2015	CV, TV, SB, SI, SH, SA

CV – Participants were asked if they had been the victim of cyberbullying during the past 12 months

TV – Participants were asked if they had been the victim of physical or verbal bullying during the past 12 months

SB, SI – One question asking "I have said that I wanted to die during the past 3 months"

SH, SA – One question asking "I have attempted suicide during the past 3 months"

CP, TP, MH – None

Other measures - Ostracism, harassment, extortion, and sexual bullying were also measured

Romero [36]	Self-report questionnaire
2013	CV, CP, TV, TP, SH, SB, SA, SI, SP, MH

CV – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you been electronically bullied, such as through email, chat rooms, instant messaging, web sites, or text messaging?"

CP – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you electronically bullied someone else, such as through email, chat rooms, instant messaging, web sites, or text messaging?"

TV — One question from the Arizona YRBS asking "During the past 12 months, how frequently have you been harassed or bullied on school property?"

TP – One question from the Arizona YRBS asking "During the past 12 months, how frequently have you harassed or bullied someone else on school property?"

 $SH\,-\,One$ question from the Arizona YRBS

SB, SA, SI, SP – Three questions from the Arizona YRBS

MH – One question from the Arizona YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?" Other measures – None

Sampasa- Kanyinga [54]	Self-report questionnaire
2014	CV, TV, SB, SI, SH, SA, SP, MH

CV – One question from the Eastern Ontario YRBS asking "During the past 12 months, have you ever experienced cyberbullying, that is, being bullied by email, text messaging, instant messaging, social networking or another website?"

TV – One question from the Eastern Ontario YRBS asking "During the past 12 months, have you ever been bullied or threatened by someone while on school property?"

SB, SI – One question from the Eastern Ontario YRBS asking "During the past 12 months, did you ever seriously consider attempting suicide?"

SH, SA – One question from the Eastern Ontario YRBS asking "If you attempted suicide during the past 12 months, did any attempt result in injury, poisoning, or overdose that had to be treated by a doctor or nurse?". Responses were analysed as having attempted suicide or not having attempted suicide, regardless of medical treatment

SP – One question from the Eastern Ontario YRBS asking "During the past 12 months, did you make a plan about how you would attempt suicide?"

MH – One question from the Eastern Ontario YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for 2 weeks or more in a row that you stopped doing some usual activities?"

CP, TP – None

Other measures – Computer use, sedentary activities, and substance abuse were also measured

Schenk [22] Self-report questionnaire

2012 CV, CP, SH, SB, SA, SI, SP, MH

CV – Various questions regarding cybervictimisation from a 47-item questionnaire called the Internet Experiences Questionnaire (IEQ) developed by the researchers for the purpose of the study, comprising questions on both cybervictimisation and cyberbullying perpetration. The IEQ was not validated

CP – Although measures were taken on cyberbullying perpetration using the IEQ, these were analysed in a separate paper (Schenk et al. [35])

SH - One question from the SBQ-R

SB, SA, SI, SP - Four questions from the SBQ-R

MH – SCL-90-R which assess nine symptoms of psychopathology: somatisation, obsessive compulsiveness, interpersonal sensitivity, depression, anxiety, hostility, phobic anxiety, paranoid ideation, and psychoticism

TV, TP, - None

Other measures - None

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	Schenk [35]	Self-report questionnaire
L	2013	CV, CP, SH, SB, SA, SI, SP, MH

CV - Although measures were taken on cybervictimisation using the IEQ, these were analysed in a separate paper (Schenk et al. [22])

CP - Various questions regarding cyberbullying perpetration from the IEQ

SH - One question from the SBQ-R

SB, SA, SI, SP - Four questions from the SBQ-R

MH - SCL-90-R

TV. TP - None

Other measures - None

Schneider [17]	Self-report questionnaire
2012	CV, TV, SH, SB, SA, SARMT, SI, MH

CV – One question from the Massachusetts YRBS asking "How many times has someone used the Internet, a phone, or other electronic communications to bully, tease, or threaten you?"

TV – One question from the Massachusetts YRBS asking "During the past 12 months, how many times have you been bullied on school property?"

SH, SA – One question from the MetroWest Adolescent Health Survey, based on the Massachusetts YRBS: "How many times did you hurt or injure yourself on purpose? (For example, by cutting, burning, or bruising yourself on purpose); and two question from the Massachusetts YRBS on suicide attempt and suicide attempt requiring medical treatment

SB, SA, SARMT, SI – Four questions from the Massachusetts YRBS

MH – One question from the Massachusetts YRBS asking "During the past 12 months, did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activities?"

TP, CP – None

Other measures - Various demographic characteristics

Sinclair [55]	Self-report questionnaire
2012	CV, TV, SH, SA, SB, SI, MH

CV - Various questions from the DCYA

TV - Various questions from the DCYA

SH, SA – One question from the DCYA asking youth if they had intentionally hurt themselves, such as cutting or burning, in the past 12 months; and one question on suicide attempt in the past 12 months

SB, SA, SI - Items assessing suicidal ideation in the past 30 days and suicide attempt in the past 12 months

 $MH-Various\ questions\ from\ the\ DCYA\ covering\ mental\ health\ problems\ such\ as\ depression\ and\ panic\ symptoms$

TP, CP – None

 $Other\ measures-Demographic\ characteristics\ (additional\ questions\ to\ assess\ sexual\ orientation),\ substance\ use,\ and\ school-related\ problems$

Turner [56]	Self-report questionnaire
2013	CV, TV, SB, SI, MH

CV, TV-A needs assessment was conducted by Iredell-Statesville School System, while in consultation with the research team, which used two items to assess three different types of bullying: physical, verbal, and cyber-

SB, SI - Two questions as part of needs assessment

MH – Depression measured by a shortened version of the CES-D, 5 items

TP, CP, SH, SA - None

Other measures – Demographic characteristics, grades, neighbourhood disorder, parental investment, school involvement, alcohol frequency, marijuana frequency, and other drug frequency

Yen [45]	Self-report questionnaire
2014	CV, CP, TV, TP, SB, SI, MH

- CV Three questions from the CEQ
- CP Three questions from the CEQ
- TV Four questions regarding passive and active traditional victimisation from the C-SBEQ
- TP Four questions regarding passive and active traditional perpetration from the C-SBEQ
- SB, SI K-SADS-E, 5 items
- MH Depression was assessed using the Mandarin version of the CES-D, 20 items. Anxiety was also measured using the MASC-T, 39 items
- SH, SA None

Other measures - Demographic characteristics, ADHD factors, psychiatric comorbidity, family factors, and peer factors

Abbreviations: CV = Cybervictimisation; CP = Cyberbullying perpetration; TV = Traditional victimisation; TP = Traditional perpetration; SH = Self-harm; SB = Suicidal behaviours; SA = Suicide attempt; SARMT = Suicide attempt requiring medical treatment; SI = Suicidal ideation; SP = Suicide plan; MH = Mental health problems; BHS = Behavioural Health Screen; C-SBEQ = School Bullying Experience Questionnaire (Chinese version); CES-D = Centre for Epidemiologic Studies Depression Scale; CEQ = Cyberbullying Experiences Questionnaire; DCYA = Dane County Youth Assessment; EUKOS = EU Kids Online Survey; HBSC = Health Behaviour in School-aged Children; K-SADS-E = Kiddie-Schedule for Affective Disorders and Schizophrenia (Epidemiological version); MASC-T = Multidimensional Anxiety Scale for Children (Taiwannese version); NASHS = National Adolescent Student Health Survey; QYRRS = Quebec Youths' Romantic Relationships Survey; RYM = Rotterdam Youth Monitor; SBQ-R = Suicide Behaviours Questionnaire-Revised; SCL-90 = Symptom Checklist-90-Revised; SDQ = Strengths and Difficulties Questionnaire; SIQ-JR = Suicidal Ideation Questionnaire Junior; TSCC = Trauma Symptom Checklist for Children; YISS-3 = Third Youth Internet Safety Survey; YRBS = Youth Risk Behaviour Survey

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