**Supplementary 1 (S1)**

**PRISMA Checklist**

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| **Section/topic** | **#** | **Checklist item** | **Reported on page #** |
| **TITLE** | | |  |
| Title | 1 | Identify the report as a systematic review, meta-analysis, or both. | Title |
| **ABSTRACT** | | |  |
| Structured summary | 2 | Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number. | Abstract |
| **INTRODUCTION** | | |  |
| Rationale | 3 | Describe the rationale for the review in the context of what is already known. | Introduction paragraphs 1-7 |
| Objectives | 4 | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS). | Introduction paragraph 8 |
| **METHODS** | | |  |
| Protocol and registration | 5 | Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number. | Methods paragraph 1 |
| Eligibility criteria | 6 | Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale. | Methods paragraph 2 Inclusion criteria |
| Information sources | 7 | Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched. | Methods paragraph 3 |
| Search | 8 | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated. | Methods paragraph 3 |
| Study selection | 9 | State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis). | Methods paragraph 4 |
| Data collection process | 10 | Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators. | Methods paragraph 4 |
| Data items | 11 | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made. | Methods paragraph 4  Suppl. Material S2 |
| Risk of bias in individual studies | 12 | Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis. | Methods paragraph 4  Suppl. Material S2 |
| Summary measures | 13 | State the principal summary measures (e.g., risk ratio, difference in means). | Methods paragraph 5 Statistical analysis |
| Synthesis of results | 14 | Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I2) for each meta-analysis. | Methods paragraph 5 Statistical analysis |
| Risk of bias across studies | 15 | Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies). | Methods paragraph 5 Statistical analysis |
| Additional analyses | 16 | Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified. | Methods paragraph 5 Statistical analysis |

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| **RESULTS** | | |  |
| Study selection | 17 | Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram. | Results paragraph 1 |
| Study characteristics | 18 | For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations. | Results paragraph 1 (S3) |
| Risk of bias within studies | 19 | Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12). | 9 (S3), Discussion paragraphs 1-9 |
| Results of individual studies | 20 | For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot. | Results Tables (S4-S9) |
| Synthesis of results | 21 | Present results of each meta-analysis done, including confidence intervals and measures of consistency. | Results Tables (S4-S9) |
| Risk of bias across studies | 22 | Present results of any assessment of risk of bias across studies (see Item 15). | Results Tables (S4-S9) |
| (S4-S9)Additional analysis | 23 | Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]). | Results Tables (S4-S9) |
| **DISCUSSION** | | |  |
| Summary of evidence | 24 | Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers). | Discussion paragraphs 1-12 |
| Limitations | 25 | Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias). | Discussion  Paragraph 13 (Limitations) |
| Conclusions | 26 | Provide a general interpretation of the results in the context of other evidence, and implications for future research. | Conclusion |
| **FUNDING** | | |  |
| Funding | 27 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review. | Title Page |

**Supplementary 2 (S2)**

**Review protocol**

**Primary database:** Four electronic databases (PubMed, EMBASE, ERIC and PsycINFO)

**Search terms:**

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| **Database** | **Search group** | **Search terms** |
| **Embase** | Bullying Victims | (bullied OR 'bullying'/exp OR bullying OR teas\* OR harass\* OR victimization OR victimisation OR intimidat\*) AND (child\* OR adolescen\*) AND (outcome OR harm OR consequences OR 'risk'/exp OR risk) |
| **PubMed** | Bullying Victims | (bullied OR bullying OR teas\* OR harass\* OR victimization OR victimisation OR intimidat\*) AND (child\* OR adolescen\*) AND (outcome OR harm OR consequences OR risk) |
| **ERIC** | Bullying Victims | ((Keywords:bullied OR Keywords:bullying OR Keywords:teas\* OR Keywords:harass\* OR Keywords:victimization OR Keywords:victimisation OR Keywords:intimidat\*) AND (Keywords:child\* OR Keywords:adolescen\*) AND (Keywords:outcome OR Keywords:harm OR Keywords:consequences OR Keywords:risk)), and Publication Type:"Journal Articles" |
| **PsycINFO** | Bullying Victims | (Bullying OR bullied OR teas\* OR harass\* OR victimization OR victimisation OR intimidat\*) AND (child\* OR adolescen\*) AND (outcome OR harm OR consequences OR risk) |

**Additional searching:**

Reference list review (any article pulled for possible inclusion)

**Inclusion/exclusion criteria**

**Inclusion criteria:**

Studies were included if they were published in a peer-reviewed journal, reported an association between exposure to bullying victimization and any adverse outcome health or non-health-related and were population based.

1. *Question of interest*: Are individuals who have experienced bullying victimization at an increased risk of developing adverse outcomes compared with those who are not exposed?

*Population*: General population, children adolescents or adults.

*Intervention/exposure*: Victims of bullying - exposure to negative actions repeatedly and over time from one or more people and involves a power imbalance between the perpetrator/s and the victim

*Exposure Measurement* –

Age range for exposure – bullying victimization occurred between 0-18 years but studies also included if age not reported

Bullying victimization could be self-reported, teacher reporter, parent reported, or clinician reported on either a validated scale or a questionnaire designed specifically for that study.

*Comparison*: Individuals not exposed to bullying

*Outcome*: Any health or non-health related adverse outcome including mental health, substance use, educational, physical health, criminal, behavioural or the use of health services or medication.

*Outcome Measurement* – diagnosed by a health professional or an objective measure, standardised/non-standardised screening instrument or self-reported outcomes also accepted.

2. *Study designs of interest*: Prospective and Retrospective Cohort, Cross-sectional

No limits on year of publication or language.

Articles in LOTE deemed relevant based on its abstract are translated.

**Exclusion criteria:**

Articles initially excluded if they are duplicates or if the title clearly demonstrates that the exposure and outcome of interest are not the focus of the article. Articles are then excluded based on the following:

* The article does not explore an association between bullying and any outcome.
* No effect size and uncertainty information reported or cannot be computed from information given.
* Bullying is considered as a risk factor/mediator between two other exposure and outcome variables.
* There is no control group or comparison group (just looked at the characteristics of the exposed group).
* The study was not population based
* The study is a review article, a letter to the editor or a published abstract from a conference.

**Data abstraction form**

**Identification of study:**

1. Record the first authors’ last name, initials
2. Record the journal name
3. Record the year of publication
4. Record the volume number
5. Record the page numbers

# Characteristics of study:

1. Study period
2. Study design
3. Sample size and % female
4. Retrospective/prospective analysis
5. Type of bullying
6. Assessment of exposure
7. Outcomes
8. Assessment of outcome

**Other data:**

14. Effect size and 95% confidence interval.

**Quality Assessment:**

**Definition**

* Was bullying defined to the study population (did not have to be Olweus’ definition)
  + 1- Yes,
  + 0- No

**Study Design**

* Type of study design
  + 2- prospective cohort,
  + 1- retrospective cohort,
  + 0- cross sectional

**Assessment of outcome**

* How was the outcome measured?
  + 1- clinician or objective measure,
  + 0- self reported

**Ascertainment of exposure to bullying**

* How was the exposure to bullying measured?
  + 1- validated measurement,
  + 0- non-validated measurement

**Appropriate methods to control confounding**

* Confounders controlled for-
  + 2- age, gender, family disadvantage, mental health at baseline,
  + 1- age, gender, family disadvantage,
  + 0- age, gender or nothing

**Adequacy of follow-up of cohorts (where relevant) or response rate**

* + 100- 80%,
  + 0- <80%

The total quality score for each study is then the sum of the scores for individual assessment items. This is converted to a proportional quality score for use in Meta-XL (the total quality score divided by the maximum score possible).

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| **Quality Criteria** | **Quality Score** |
| Definition of bullying provided for the participants | Yes = 1  No = 0 |
| Study design | Prospective Cohort= 2  Retrospective Cohort =1  Cross-Sectional = 0 |
| Ascertainment of outcome | Clinician reported or objective measure = 1  Self-reported = 0 |
| Ascertainment of exposure to bullying | Validated measure = 1  Non-validated measure = 0 |
| Appropriate methods to control confounding | Controlled for age, sex =0  Controlled for age, sex and SES = 1  Controlled for age, sex, SES and prior psychological problems = 2 |
| Adequacy of follow-up of cohorts (where relevant) or response rate | Completeness good (≥80%), with description of those lost to follow-up = 1  Completeness poor (<80%) or no statement= 0 |

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| **Supplementary 3 (S3)**  **Summary of study characteristics included in the meta-analysis** | | | | | | | | | | |
| **First Author** | **Year** | **Country** | **Sample (*N*)** | **Female**  **(%)** | **Assessment of Bullying Victimization** | **Outcome** | **Assessment**  **of Outcome** | **Study Type** | | **Sample** |
| Abada et al. | 2008 | Canada | 1,287 | 51 | \* | Overall Health Status, Mental Health Status | Self-Reported -Center for Epidemiologic Studies Depression scale (CES-D), Self-Assessment of the child’s general health | PC | | P |
| Ahmad et al. | 2014 | Malaysia | 25,174 | 50 | \* | Suicidal ideation | Self-Reported | CS | | P |
| Alikasifoglu et al. | 2007 | Turkey | 3,519 | 50 | Self-Reported WHO - HBSC | Drinking | Self-Reported WHO - HBSC | CS | | P |
| Altangerel et al. | 2014 | Mongolia | 5,148 | 57 | \* | Suicidal ideation, plan and attempt | Self-Reported | CS | | P |
| Annerback et al. | 2014 | Sweden | 5,248 | NR | \* | General health, physical health problems, mental health problems | Self-Reported | CS | | P |
| Arseneault et al. | 2008 | UK | 2,134 | 51 | Interviews with Mothers - Life History Calendar | Internalising Problems | Mother Reported - CBCL, Teacher Reported | PC | | T |
| Arseneault et al. | 2006 | UK | 2,187 | 51 | Interviews with Mothers - Life History Calendar | Internalising and Externalising problems, Happiness at school | Child Behaviour Checklist for Mothers; Teachers Report Form for Teachers | PC | | T |
| Arseneault et al. | 2011 | UK | 2,143 | 52 | Interviews with Mothers - Life History Calendar & private interview with children | Psychotic symptoms | Private Interview with Mental Health Trainees and Professionals - Dunedin Study age 11 interview protocol | PC | | T |
| Arslan et al. | 2012 | Turkey | 1,315 | 53 | Self-Reported - Determination of Peer Victims and Bullies Scale (DPVBS) | Psychosomatic symptoms | Self-Reported WHO - HBSC | CS | | P |
| Bannink et al. | 2014 | Netherlands | 3,181 | 49 | \* | Mental health, suicidal ideation | Strengths and Difficulties Questionnaire, Self-Reported | PC | | P |
| Bhatta et al. | 2014 | US | 1,082 | 49 | Youth Risk Behaviour Survey | Suicidal ideation, suicide planning | Youth risk behaviour survey | CS | | P |
| Bonanno & Hymel | 2010 | Canada | 399 | 57 | \* | Suicidal Ideation | Suicide Ideation Questionnaire - JR | CS | | P |
| Bond et al. | 2001 | Australia | 2,559 | 53 | \* | Mental Health Status - Depression or Anxiety | Computer Version of the revised clinical interview schedule - psychiatric interview | PC | | P |
| Brent et al. | 2011 | UK | 2,143 | 52 | Mother and Self-Reported | Psychotic symptoms | Interview | PC | | T |
| Brixval et al. | 2012 | Denmark | 4,781 | 51 | Self-Reported WHO - HBSC | BMI | Self-Reported WHO - HBSC | CS | | P |
| Brown et al. | 2008 | Kenya, Namibia, Morocco, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe | 26,510 | NR | Self-Reported - Global school based health Survey (GSHS) | Persistent Loneliness, Risky Sexual Behaviour, Smoking, Alcohol and Drug Use | Self-Reported - Global school based health survey (GSHS) | CS | | P |
| Busch et al. | 2014 | Netherlands | 2,690 | NR | OBVQ | Psychosocial problems | Strengths and difficulties questionnaire - Self-Reported | CS | | P |
| Callaghan et al. | 2015 | Ireland | 318 | 41 | \* | Psychosocial problems, poor health, low life satisfaction | Strengths and difficulties questionnaire - Self-Reported, Cantril Ladder of Life | CS | | P |
| Carbone-Lopez et al. | 2010 | US | 1,222 | 53 | \* | Self Esteem, Delinquency, Drug Use, Self Esteem | The Self Esteem Scale, Delinquency Involvement Summation Index | PC | | P |
| Cenat et al. | 2014 | Canada | 8,194 | 56 | \* | Psychological distress, self esteem | K-10, self-description questionnaire | CS | | P |
| Cheng et al. | 2010 | China | 9,015 | 51 | Self-Reported - Global school based health survey (GSHS) | Loneliness, Worried, Sad, Suicide ideation and attempt, Missed School | Self-Reported - Global school based health survey (GSHS) | CS | | P |
| Coggan et al. | 2003 | New Zealand | 3,265 | 56 | \* | Attempted Self Harm, Suicide | Self-Reported | CS | | P |
| Copeland et al. | 2013 | US | 1,273 | 49 | Child and Primary Caregiver Reported - Child and Adolescent Psychiatric Assessment | Depression, Anxiety, Alcohol, Marijuana | Self-Reported Interviews - Young Adult Psychiatric Assessment (YAPA) | PC | | P |
| Crookston et al. | 2014 | Peru | 675 | NR | Care giver report | Smoking, alcohol use, sexual relation | Self-Reported | PC | | P |
| Cruzeiro et al. | 2008 | Brazil | 767 | 51 | \* | Behavioural Disorder | Mini International Neuropsychiatric Interview (MINI) | CS | | P |
| Dao et al. | 2006 | US | 186 | 54 | The Adolescent Index for School Safety (AISS) | Nonspecific psychological distress | K-10 scale | CS | | P |
| Due et al. | 1999 | Denmark | 5,205 | NR | Self-Reported WHO - HBSC | Psychosomatic symptoms, Academic achievement, smoking and alcohol use | Self-Reported WHO - HBSC | CS | | P |
| Due et al. | 2007 | Denmark | 5,205 | NR | \* | Medication Use | Self-Reported | CS | | P |
| Due et al. | 2005 | Global - 28 countries | 123,227 | 51 | Self-Reported WHO - HBSC | Psychosomatic Symptoms | Self-Reported WHO - HBSC | CS | | P |
| Due et al. | 2009 | Denmark | 614 | 60 | \* | Worried, Nervous & Anxious, Sad, Depressed & Unhappy, Suicidal Ideation | Self-Reported - Beck's Major Depression Inventory (MDI) | CS | | P |
| Dunlavy et al. | 2015 | Tanzania | 2,154 | 52 | \* | Suicidal ideation, suicidal planning | Self-Reported | CS | | P |
| Elgar et al. | 2014 | US | 18,834 | 51 | Bullying and victimization subscales of University of Illinois aggression scales | Binge drinking, drunkenness, fighting, vandalism, prescription drug misuse, over the counter drug misuse, anxiety, depression, self-harm, suicidal thoughts, suicide attempt | Self-Reported | CS | | P |
| Esbensen & Carson | 2009 | US | 1,117 | 54 | \* | Self Esteem, Powerlessness, School Commitment | Self-Reported - The Self Esteem Scale | PC | | P |
| Farrington et al. | 2011 | US | 503 | 0 | \* | Depression | Boy Self-Reported - Recent Mood & Feelings Questionnaire, CBCL. | PC | | P |
| Fekkes et al. | 2006 | Netherlands | 1,118 | 50 | OBVQ | Depression, Anxiety, Psychosomatic Symptoms | Short Depression Inventory for Children, Short Indicative Questionnaire for Psychosocial problems among Adolescents (KIVPA) | PC | | P |
| Fekkes et al. | 2004 | Netherlands | 2,766 | 50 | \* | Psychosomatic Symptoms, depression | Self-Reported, Short Form Depression Questionnaire for Children (KDVK) | CS | | P |
| Fisher et al. | 2012 | UK | 2,141 | 51 | Mother and Self-Reported | Self-Harm | Mother Reported during Interview | PC | | T |
| Fleming & Jacobsen | 2009 | Chile | 8,131 | 51 | Self-Reported - Global school based health survey (GSHS) | Sadness/Hopelessness, Suicide, Smoking, Alcohol, Drug Use, Risky sexual behaviour | Global school based health survey (GSHS) | CS | | P |
| Forero et al. | 1999 | Australia | 3,918 | 54 | \* | Psychosomatic symptoms, unhappy, lonely, smoking | Adapted from WHO HBSC | CS | | P |
| Franic et al. | 2011 | Croatia | 803 | 50 | Self-reported - Questions from WHO - HBSC | Suicide Ideation | Self-Reported | CS | | P |
| Giletta et al. | 2010 | US | 2,051 | 49 | Both Self-Reported (derived from Olweus Bully/Victim Questionnaire) and Peer Reported | BMI | Measured height and weight | CS | | P |
| Giletta et al. | 2012 | Italy, Netherlands, US | 1,862 | 49 | OBVQ | Non-Suicidal Self Injury | Self-Reported | CS | | P |
| Gini | 2008 | Italy | 565 | 53 | Self-Reported scale based on Bullying Behaviour scale and peer victimization scale | Psychosomatic Symptoms | Self-Reported | CS | | P |
| Glew et al. | 2005 | US | 3,530 | NR | \* | Academic Achievement | The Washington Assessment of Student Learning & Iowa Test of Basic Skills | CS | | P |
| Goebert et al. | 2011 | US | 677 | 60 | \* | Binge Drinking, Marijuana, Anxiety, Depression, Attempted Suicide | Self-Reported | CS | | P |
| Gower et al. | 2013 | US | 128,681 | 50 | \* | Self-harm | Adapted youth risk behaviour survey | CS | | P |
| Guarneri-White et al. | 2015 | US | 108 | 63 | Children self-experiences questionnaire and direct and indirect aggression scale | General depression, anxious depression, withdrawn depression, PTSD symptoms, frequency of complaints, severity of complaints | Depression inventory and centre for epidemiological studies depression scale for children, youth self-report/child behaviour checklist, health outcome survey | CS | | P |
| Haavet et al. | 2005 | Norway | 7,329 | 50 | Self-reported on Oslo Health Study | Health Services Sought | Self-Reported | CS | | P |
| Haavisto et al. | 2004 | Finland | 1,987 | 0 | \* | Depression | Becks Depression Inventory | PC | | P |
| Hammig & Jozkowski | 2013 | US | 14,801 | 49 | Self-Reported- Youth Self Report (YSR) | Academic Performance | Self-Reported- Youth Self Report (YSR) | CS | | P |
| Hawton et al. | 2002 | UK | 6,020 | 47 | \* | Deliberate Self Harm | Self-Reported | CS | | P |
| Hay & Meldrum | 2010 | US | 370 | 50 | \* | Self-Harm, Suicide Ideation and Attempt | Self-Reported | CS | | P |
| Hazemba et al. | 2008 | China | 2,348 | 50 | Self-Reported - Global School Based Health Survey (GSHS) | Loneliness, Worried, Sad, Cigarettes, Alcohol, Missed school | Self-Reported - Global school based health survey (GSHS) | CS | | P |
| Heikkilä et al. | 2013 | Finland | 2,070 | 56 | Self-Reported - WHO Youth Behaviour Study | Suicide Ideation | Self-Reported - 1 item Beck Depression Inventory | PC | | P |
| Hemphill et al. | 2011 | Australia | 791 | 52 | \* | Suspension from school, Carrying a weapon, Theft, Violent Behaviour, Depression, Drug and Alcohol use | Self-Reported, Short Mood and Feelings Questionnaire (SMFQ) | PC | | P |
| Hemphill et al. | 2014 | Australia | 791 | 54 | \* | Nonviolent and violent antisocial behaviour, self-harm, depressive symptoms | Self-reported, Kessler psychology distress scale | PC | | P |
| Herba et al. | 2008 | Netherlands | 1,078 | 55 | Peer Nomination Inventory (PNI) | Suicide Ideation | Youth Self Report (YSR) | CS | | P |
| Herring et al. | 2013 | Botswana | 1,829 | NR | \* | Physical fight, depression, cigarette smoking, drug use, truancy, alcohol drinking | Self-Reported | CS | | P |
| Hidaka et al. | 2008 | Japan | 2,095 | 51 | \* | Suicide Attempt | Self-Reported | CS | | P |
| Hinduja & Patchin | 2010 | US | 1,963 | 50 | \* | Suicide Attempt | Self-Reported | CS | | P |
| Hirschtritt et al. | 2015 | US | 42,594 | 55 | \* | Suicide Ideation | Self-Reported | CS | | P |
| Houbre et al. | 2006 | France | 291 | NR | Inventory of Youth Behavioural problems | Psychosomatic symptoms | Psychosomatic symptom scale | CS | | P |
| Hussin et al | 2014 | Malaysia | 25,507 | 50 | \* | Physical fight | Self-Reported | CS | | P |
| Janssen et al. | 2004 | Canada | 5,749 | 53 | Self-reported WHO - HBSC | BMI | Self-Reported (Height and Weight) | CS | | P |
| Jantzer et al. | 2012 | Germany | 303 | 50 | OBVQ | Emotional Problems, suicide ideation, self-harm | Strengths and Difficulties Questionnaire | CS | | P |
| Jung et al. | 2014 | Korea | 4,531 | 49 | \* | Problematic internet use, anxious/depressed, somatic complaints, withdrawn/depressed, social problems, thought problems, attention problems, rule-breaking behaviours, aggressive behaviours | Internet addiction proneness scale for youth, Korean youth self-report | CS | | P |
| Kaltiala-Heino et al. | 2010 | Finland | 2,070 | 56 | 2 items derived from WHO youth health survey | Depression | Beck Depression Inventory | PC | | P |
| Kaltiala-Heino et al. | 1999 | Finland | 16,410 | 49 | Self-Reported - WHO Youth Behaviour Study | Depression, Suicide Ideation | Self-Reported - Beck Depression Inventory (BDI) | CS | | P |
| Kaltiala-Heino et al. | 2000 | Finland | 17,634 | 50 | Self-Reported - WHO Youth Behaviour Study | Depressive symptoms, Anxiety, psychosomatic symptoms, Alcohol and Substance use, eating disorders | Self-Reported - Beck Depression Inventory (BDI) | CS | | P |
| Kaur et al. | 2014 | Malaysia | 25,507 | 50 | \* | Depression | Depression, anxiety and stress (DASS21) questionnaire | CS | | P |
| Kelleher et al. | 2008 | Ireland | 211 | NR | Schedule for Affective Disorders and Schizophrenia for School-Aged Children Present and Lifetime versions (K-SADS) | Psychotic symptoms | the Schedule for Affective Disorders and Schizophrenia for School-Aged Children Present and Lifetime versions (K-SADS) | CS | | P |
| Kelleher et al. | 2013 | Ireland | 1,112 | 45 | \* | Psychotic experiences | Adolescent psychotic symptom screener | PC | | P |
| Kestila et al. | 2009 | Finland | 1,158 | 45 | \* | BMI | Self-Reported (Height and Weight) | CS | | P |
| Kim et al. | 2006 | Korea | 1,666 | NR | Korean Peer Nomination Inventory (K-PNI) | Social Problems, Aggression, Externalising Problems | Korean Youth Self Report (K-YSR) | PC | | P |
| Kim et al. | 2009 | Korea | 1,666 | 45 | Korean Peer Nomination Inventory (K-PNI) | Suicidal behaviours and ideation | Korean Youth Self Report (K-YSR) | PC | | P |
| Kim et al. | 2005 | Korea | 1,718 | 45 | Korean Peer Nomination Inventory | Suicidal/self-injurious behaviour | Self-Reported - Korean Youth Self Report | CS | | P |
| Kindrick et al. | 2013 | US | 1,375 | NR | Youth risk behaviour survey | Felt sad/hopeless, suicidal ideation, suicide plan, suicide attempt, treated for suicide | Self -Reported | CS | | P |
| Klomek et al. | 2008 | Finland | 2,092 | 0 | Self-Reported, Teacher Reported, Parent Reported | Suicidal Ideation, Depression | Self-Reported - Becks Depression Inventory (BDI) | PC | | P |
| Klomek et al. | 2009 | US | 5,302 | 45 | Self-Reported, Teacher Reported, Parent Reported | Suicide Attempts or Completed Attempts | Statistics Finland's Cause of Death Registry; Copies of Death certificates; The Finnish Hospital Discharge Register | PC | | P |
| Klomek et al. | 2007 | US | 2,341 | 42 | Self-Reported - WHO Youth Behaviour Study | Depression, Suicide Ideation & Attempt | Self-Reported - Beck Depression Inventory (BDI) | CS | | P |
| Klomek et al. | 2008 | US | 2,341 | 42 | Self-Reported - Derived from WHO study on youth health | Depression, Suicide Ideation & Attempt | Self-Reported - Beck Depression Inventory (BDI) | CS | | P |
| Kumpulainen & Rasanen | 2000 | Finland | 1,268 | 49 | Self-Reported, Teacher Reported, Parent Reported | Deviant | Mother Rutter A2 Scale, Beck Depression Inventory (BDI) | PC | | P |
| Kumpulainen et al. | 1999 | Finland | 1,268 | 49 | Self-Reported, Teacher Reported, Parent Reported | Psychological Disturbance | Mother Rutter A2 Scale | CS | | P |
| Landstedt & Gadin | 2011 | Sweden | 1,663 | NR | \* | Deliberate Self Harm | Self-Reported | CS | | P |
| Lataster et al. | 2006 | Netherlands | 1,290 | 51 | \* | non clinical psychotic experiences | derived from Diagnostic Interview Schedule for Children for DSMIII | CS | | P |
| Lehti et al. | 2011 | Finland | 2,507 | 100 | Self-Reported, Teacher Reported, Parent Reported | Teenage Mother <20yrs old | ICD10 diagnostic codes indicating the delivery | PC | | P |
| Lehti et al. | 2012 | Finland | 2,721 | 0 | Parent Reported, Teacher Reported, Self-Reported | Becoming a young father | Finnish Population information System | PC | | P |
| Lemstra et al. | 2012 | Canada | 4,197 | 49 | Self-Reported - Safe School Study | Depressed Mood | Center for Epidemiologic Studies Depression scale (CES-D) | CS | | P |
| Lereya et al. | 2013 | UK | 4,810 | NR | Bullying and friendship interview schedule | Self-harm | Self-Reported | PC | | P |
| Lund et al. | 2009 | Denmark | 6,094 | 0 | \* | Depression | Self-Reported - Beck's Major Depression Inventory (MDI), Asked about Doctor Diagnosis | CS | | P |
| Malta et al. | 2014 | Brazil | 109,104 | 52 | Self-Reported (National adolescent school based health survey) | Serious injury in the last 12 months | Self-Reported (National adolescent school based health survey) | CS | | P |
| Malta et al. . | 2014 | Brazil | 109,104 | 52 | Self-Reported (National adolescent school based health survey) | Feeling lonely, insomnia, friends, family aggression, family supervision, missing classes | Self-Reported (National adolescent school based health survey) | CS | | P |
| Mamun et al. | 2012 | Australia | 1,694 | 50 | Self-Reported - Mater-University of Queensland Study of Pregnancy (MUSP) | BMI | Measured height and weight - Mater-University of Queensland Study of Pregnancy (MUSP) | PC | | P |
| Mark et al. | 2013 | Estonia, Lithuania, Luxembourg | 4,954 | 49 | Olweus definition of bullying – self-reported | Suicidal ideation | Self-Reported | CS | | P |
| Mazur & Woynarowska | 2004 | Poland | 6,383 | NR | Self-Reported WHO – HBSC | Psychosomatic Symptoms | Self-Reported WHO - HBSC | CS | | P |
| McMahon et al. | 2010 | Ireland | 3,881 | 52 | \* | Deliberate Self Harm | CASE study questionnaire | CS | | P |
| McMahon et al. | 2010 | Ireland | 3,750 | 50 | \* | Anxiety, Depression, Self-esteem, Deliberate self-harm, impulsivity, Alcohol use and smoking | Self-Concept Scale, Plutchik impulsivity scale, Hospital Anxiety and Depression Scale (HADS), Self-Reported, | CS | | P |
| Meltzer et al. | 2011 | England | 7,461 | NR | Stressful life events questionnaire | Suicide Attempt | Questions asked in Interview | CS | | P |
| Messias et al. | 2014 | US | 15,425 | NR | \* | Sadness, suicidal ideation, suicide plan, suicide attempt, suicide attempt requiring treatment | Self-Reported | CS | | P |
| Mikolajczyk & Richter | 2008 | Germany | 5,650 | 51 | Self-reported WHO - HBSC | BMI | Self-Reported (Height and Weight) | CS | | P |
| Mitchell et al. | 2007 | US | 1,501 | 47 | \* | Depression, Delinquent, Substance Use | Questionnaire following DSM-IV criteria for depression | CS | | P |
| Moore et al. | 2014 | Australia | 1,590 | 49 | \* | Depression, internalising behaviour, externalising behaviour, harmful alcohol use, harmful cannabis use, cigarette smoking | Beck depression inventory for youth, youth self-report, self-reported questionnaire | PC | | P |
| Morris et al. | 2006 | Canada | 3,314 | 52 | \* | Smoking | Self-Reported | CS | | P |
| Nansel et al. | 2004 | Belgium, Hungary, Israel, Portugal, Ireland, US | 21,947 | 52 | Self-Reported WHO - HBSC | Carrying a Weapon | Self-Reported WHO - HBSC | CS | | P |
| Nansel et al. | 2001 | US | 15,686 | NR | Self-Reported WHO - HBSC | Alcohol Use, smoking, fighting, academic achievement | Self-Reported | CS | | P |
| Niemela et al. | 2011 | Finland | 2,087 | 0 | \* | Frequent Drunkenness, Heavy Smoking, Illicit Drug Use | Self-Reported | PC | | P |
| Obrdalj et al. | 2013 | Bosnia and Herzegovina | 1,055 | 49 | Questionnaire on school violence | Post-traumatic stress, depression, anxiety | Trauma symptoms check list for children | CS | | P |
| Owusu et al. | 2011 | Ghana | 7,137 | NR | Self-Reported - Global school based health survey (GSHS) | Lonely, worried, sad and suicidal ideation | Self-Reported | CS | | P |
| Park et al. | 2013 | US | 16,188 | 48 | \* | Non-diet soft drink consumption | Self-Reported | CS | | P |
| Patton et al. | 2008 | US and Australia | 2,824 | 100 | \* | Depression | Short Mood and Feelings Questionnaire | PC | | P |
| Randall et al. | 2014 | Republic of Benin | 2,690 | 33 | \* | Suicidal ideation, suicide plan, suicide attempt | Self-Reported | CS | | P |
| Ranta et al. | 2009 | Finland | 3,156 | 49 | Self-Reported - WHO Youth Behaviour Study | Depression, Social Phobia | Becks Depression Inventory (BDI) and Social Phobia Inventory (SPIN) | CS | | P |
| Ranta et al. | 2013 | Finland | 2,070 | 56 | Self-Reported - WHO Youth Behaviour Study | Social Phobia | Self-Reported - Social Phobia Inventory (SPIN) | PC | | P |
| Richter et al. | 2007 | Germany | 5,650 | NR | Self-Reported WHO - HBSC | Self-assessed health, psychosomatic complaints, smoking and alcohol use | Self-Reported WHO - HBSC | CS | | P |
| Roeger et al. | 2010 | Australia | 3,034 | 51 | \* | Suicide Ideation | Q10- Primary Care Evaluation of Mental Disorders (PRIME-MD) | CS | | P |
| Rønning et al. | 2009 | Finland | 2,540 | 0 | Self-Reported, Teacher Reported, Parent Reported | Psychiatric Disorder | Finnish National military register - all psychiatric diagnosis at health examination | PC | | P |
| Rothon et al. | 2011 | England | 2,093 | 51 | \* | Depressive symptoms, Academic Achievement | Short Mood and Feelings Questionnaire (SMFQ), National Academic Test | PC | | P |
| Rusby et al. | 2005 | US | 201 | 45 | Self-Reported- Youth Self Report (YSR) | Alcohol Use | Self-Reported on quarterly questionnaire | PC | | P |
| Salmon et al. | 1998 | England | 904 | NR | OBVQ | Anxiety, self-esteem, lying, depression | the revised Children’s manifest anxiety incorporating a lie scale | CS | | P |
| Sampasa-Kanyinga et al. | 2014 | Canada | 3,509 | 55 | \* | Breakfast | Self-Reported | CS | | P |
| Sampasa-Kanyinga et al. | 2014 | Canada | 2,999 | 55 | Eastern Ontario Youth Risk Behaviour Survey | Depression, Suicidal Ideation | Eastern Ontario youth risk behaviour survey | CS | | P |
| Santalahti et al. | 2008 | Finland | 1,947 | 52 | \* | Depression | Children’s Depression Inventory | CS | | P |
| Schnohr & Niclasen | 2006 | Greenland | 891 | NR | Self-Reported WHO - HBSC | Smoking and Alcohol Use, Psychosomatic symptoms | Self-Reported WHO - HBSC | CS | | P |
| Schreier et al. | 2009 | England | 4,512 | 48 | Child Interview - The bullying and friendship interview schedule, Mother & Teacher reported - Strengths and Difficulties Questionnaire | Specific Psychiatric symptoms | Psychosis-like Symptoms Interview (PLIKsi) | PC | | P |
| Schwartz et al. | 2014 | US | 286 | NR | \* | Depression, Anxiety | Computerised diagnostic interview schedule | PC | | P |
| Shojaei et al. | 2009 | France | 1,274 | 50 | Extra pictures added to Dominic Interactive (DI) | Major Depressive Disorder, Separation Anxiety Disorder, Generalised anxiety disorder, Behavioural disorders, health care sought | Dominic Interactive (DI) | CS | | P |
| Sigurdson et al. | 2014 | Norway | 1,266 | 57 | \* | Social functioning, general health, tobacco use | Self-Reported | PC | | P |
| Siziya et al. | 2012 | Zambia | 1,559 | 52 | Self-Reported - Global school based health survey (GSHS) | Loneliness, Worried, Alcohol use, Missed class, Suicide ideation | Self-Reported - Global school based health survey (GSHS) | CS | | P |
| Skapinakis et al. | 2011 | Greece | 2,431 (screened) | 55 | OBVQ | Suicide Ideation | Revised Clinical Interview Schedule | CS | | P |
| Sourander et al. | 2009 | Finland | 5,038 | 49 | Self-Reported, Teacher reported, Parent Reported | Any Psychiatric Hospital or Psychopharmacologic Treatment | Parent/Teacher at Baseline; National register based life time information about psychiatric hospital treatment and psychopharmacologic medication prescriptions | PC | | P |
| Sourander et al. | 2010 | Finland | 2,215 | 50 | \* | Psychosomatic Symptoms, Behavioural Problems, Alcohol use , Smoking | Self-Reported | CS | | P |
| Sourander et al. | 2011 | Finland | 5,351 | 49 | \* | Criminal behaviours | National Police Register | PC | | P |
| Sourander et al. | 2007 | Finland | 2,251 | 0 | \* | Criminal Behaviour | National Police Register | PC | | P |
| Sourander et al. | 2007 | Finland | 2,540 | 0 | Self-Reported, Teacher reported, Parent Reported | Psychiatric Disorders and Substance Use | Parent/Teacher at baseline; Military Call up register ICD-10 | PC | | P |
| Srabstein et al. | 2006 | US | 15,305 | 53 | Self-Reported WHO - HBSC | Psychosomatic Symptoms | Self-Reported WHO - HBSC | CS | | P |
| Stadler et al. | 2010 | Germany | 986 | 52 | Self-Reported - Peer Victimization Scale | Mental Health Problems | Self-Reported - Strengths and Difficulties Questionnaire | CS | | P |
| Stapinski et al. | 2014 | UK | 2,363 | NR | Bullying and friendship interview schedule | Anxiety | Computerised CIS-R | PC | | P |
| Stickley et al. | 2013 | Russia | 2,892 | 58 | Adapted Multi-dimensional Peer Victimization Scale | Headache, stomach ache, aches or pains | Self-Reported | CS | | P |
| Striegel-Moore et al. | 2002 | US | 413 | 100 | Oxford Assessment | Binge Eating Disorder | Structured Clinical Interview for DSM- IV | CS | | P |
| Strøm et al. | 2013 | Norway | 7,343 | 51 | \* | Academic Achievement | Self-Reported school grades | CS | | P |
| Strøm et al. | 2013 | Norway | 11,874 | 51 | \* | Work participation with completion of high school | Register linkage | PC | | P |
| Strøm et al. | 2014 | Norway | 13,633 | 50 | \* | Social welfare benefits | Database linkage | PC | | P |
| Takizawa et al. | 2014 | UK | 7,771 | NR | Parental interview | Psychological distress, depression, anxiety, suicidality, socioeconomic status, unemployment, net pay, social relationship, quality of life | Malaise inventory, revised clinical interview schedule, self-report questionnaire, CASP quality of life scale | PC | | P |
| Tee et al. | 2014 | Malaysia | 25,493 | 50 | \* | Cigarette smoking | Self-Reported | CS | | P |
| Tharp-Taylor et al. | 2009 | US | 926 | 55 | Self-Report - California Healthy Kids Survey | Drug and Alcohol Use | Monitoring the Future; Customary Drinking and Drug Use Record - last 30 days | PC | | P |
| Tippett & Wolke | 2015 | UK | 4,237 | 51 | \* | Sibling aggression | Self-Reported | CS | | P |
| Turner et al. | 2014 | US | 3,164 | 48 | Enhanced juvenile victimization questionnaire | Emotional problems, school problems | Self-Reported | CS | | P |
| van der Wal et al. | 2003 | Netherlands | 4,721 | NR | Self-Reported - Amsterdam Children’s Bullying questionnaire | Depression, Suicide Ideation, Delinquent Behaviour | Short Depression Inventory for Children | CS | | P |
| van Oort et al. | 2011 | Netherlands | 1,606 | 53 | Self-Reported - Youth Self Report (YSR) | Anxiety | Revised Child Anxiety and Depression Scale (RCADS) | PC | | P |
| Vieno et al. | 2011 | Italy | 2,667 | 50 | OBVQ | Smoking and Alcohol Use | Self-Reported | CS | | P |
| Vieno et al. | 2014 | Italy | 24,099 | 49 | OBVQ | Psychological symptoms, somatic symptoms | Health Behaviour in School-aged Children Survey Symptom checklist | CS | | P |
| von Schoon & Montgomery | 1997 | Germany | 9,005 | 51 | Parent Reported - Rutter Questionnaire | Depression | Rutter Scale | PC | | P |
| Wang et al. | 2011 | Korea | 577 | 51 |  | Suicide Ideation | Self-Reported | CS | P | |
| Wichstrom et al. | 2013 | Norway | 797 | NR | OBVQ | Anxiety disorder | Preschool age psychiatric assessment | PC | | P |
| Williams et al. | 1996 | England | 2,953 | NR | Nurse Interview | Psychosomatic Symptoms | Nurse Interview | CS | | P |
| Winsper et al. | 2012 | UK | 6,043 | 51 | Parent Reported, Teacher Reported, Self-Reported (modified version of Bullying and Friendship Interview Schedule) | Suicide Ideation, Suicidal/Self injurious behaviour | Face to Face Interview- Avon Longitudinal Study of Parents and Children (ALSPAC) | PC | | P |
| Wolke et al. | 2012 | UK | 6,065 | 54 | Parent Reported, Teacher Reported (Strengths and Difficulties Questionnaire), Child Interview (modified version of Bullying and Friendship Interview Schedule) | Borderline Personality Disorder | Childhood Interview for DSM-IV Borderline Personality Disorder: UK Version (CI-BPD-UK) - Avon Longitudinal Study of Parents and Children (ALSPAC) | PC | | P |
| Wolke et al. | 2001 | UK | 1,639 | 50 | Structured Interview | Physical and Psychosomatic Health | Parent Reported Health Questionnaire | CS | | P |
| Wolke et al. | 2013 | US | 1,273 | 49 | Child and adolescent psychiatric assessment | Health, wealth, crime and social outcomes | Youth adult psychiatric assessment, criminal record | PC | | P |
| Wolke & Lereya | 2014 | UK | 6,796 | 51 | Bullying and friendship interview schedule | Nightmare, night terror, sleepwalking, any parasomnia | Face to face semi-structured interview | PC | | P |
| Wolke et al. | 2013 | UK | 4,646 | 57 | Bullying and friendship interview schedule | Psychotic experience | Psychosis-like symptoms interview | PC | | P |
| Woods & Wolke | 2004 | UK | 1,016 | 51 | Structured Interview | Academic Performance | National Curriculum Assessment | CS | | P |
| Xing et al. | 2009 | China | 10,894 | 48 | \* | Suicide | Youth risk behaviour surveillance system YRBSS; Multidimensional students life satisfaction scale MSLSS; Children’s self-concept scale | CS | | P |
| Yen et al. | 2014 | Taiwan | 6,406 | 47 | Chinese version of the School Bullying Experience Questionnaire | Suicidality and Alcohol abuse | Mandarin Chinese version of the Centre for Epidemiological Studies - Depression Scale | CS | | P |
| Zwierzynska et al. | 2013 | UK | 3,692 | 52 | \* | Depression, major depression diagnosis, any anxiety diagnosis | Short mood and feelings questionnaire, Structured Interview Development and Well-being Questionnaire | PC | | P |

\* = self-reported; OBVQ= Olweus Bully/Victim Questionnaire; NR= Not reported

CS= Cross-sectional; P= Population based; PC= Prospective Cohort; T= Twin studies

UK= United Kingdom; US= United States

**Supplementary 4 (S4)**

**Forrest plot for quality-effect model of the association between bullying victimization and non-suicidal self-injury**



**Supplementary 5 (S5)**

**Forrest plot for quality-effect model of the association between bullying victimization and depression**

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**Supplementary 6 (S6)**

**Forrest plot for quality-effect model of the association between bullying victimization and behavioural problems**



**Supplementary 7 (S7)**

**Forrest plot for quality-effect model of the association between bullying victimization and anxiety**

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**Supplementary 8 (S8)**

**Forrest plot for quality-effect model of the association between bullying victimization and suicide ideation**

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**Supplementary 9 (S9)**

**Forrest plot for quality-effect model of the association between bullying victimization and suicide attempts**

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