**Supplementary Material**

**Search string implemented across MEDLINE and PsycINFO**

The literature search was conducted using the following terms across all fields (i.e., title, abstract, keywords): ((TI (emotion regulat\* OR ruminat\* OR avoid\* OR suppress\* OR acceptance OR “problem solving” OR reapprais\*)) OR (AB (emotion regulat\* OR ruminat\* OR avoid\* OR suppress\* OR acceptance OR “problem solving” OR reapprais\*)) OR (KW (emotion regulat\* OR ruminat\* OR avoid\* OR suppress\* OR acceptance OR “problem solving” OR reapprais\*))) AND ((TI (depress\* OR anxi\* OR aggress\* OR “conduct disorder” OR addict\* OR “substance use disorder” OR “gaming disorder” OR “gambling disorder”)) OR (AB (depress\* OR anxi\* OR aggress\* OR “conduct disorder” OR addict\* OR “substance use disorder” OR “gaming disorder” OR “gambling disorder”)) OR (KW (depress\* OR anxi\* OR aggress\* OR “conduct disorder” OR addict\* OR “substance use disorder” OR “gaming disorder” OR “gambling disorder”))) AND ((TI (child\* OR adolescen\* OR youth)) OR (AB (child\* OR adolescen\* OR youth)) OR (KW (child\* OR adolescen\* OR youth))).

**Coding Form**

|  |  |  |
| --- | --- | --- |
| **Variable Description** | **Levels** | **Database Variable Name** |
| Article identifier | Continuous, starting at “1001”  (If multiple effect sizes within a single article, then this number will be the same for multiple rows) | A\_ID |
| Study Identifier |  | S\_ID |
| Unique effect size identifier | Continuous, starting at “1001” (will never be the same) | U\_ID |
| First author(s) last name |  | authors |
| Publication year |  | year |
| Article title | First four words | title |
| Country of study | Use English name of the country | country |
| Sample type for effect size in this row | 1 = healthy 2 = clinical 3 = mixed (i.e., healthy and clinical) | sample\_type\_es |
| If mixed, which clinical comparison group? | 1 = depression  2 = anxiety  3 = aggression 4 = addiction | clinical\_comp\_group |
| Mean Age group | 1 = children (mean < 12 years)  2 = young adolescents (mean >= 12 years, and < 16 years) 3 = old adolescents (mean >= 16 and < 18 years) | mean\_age\_group |
| Mean Age | round to two decimals, e.g. “12.00” or “15.40” | mean\_age |
| Age min | No decimals needed | age\_min |
| Age max | No decimals needed | age\_max |
| Age Standard deviation | Round to two decimals | age\_sd |
| Female percentage | Without “%”, e.g. “34.23” | female\_perc |
| Specific ER strategy for this effect size | 1 = rumination 2 = avoidance 3 = suppression 4 = acceptance 5 = problem solving  6 = cognitive reappraisal | er\_specific |
| ER measure name | If multiple measures for this (averaged) effect size used, separate with “\_”, e.g. “1\_2\_5”  1 = Children’s Response Styles Questionnaire (CRSQ): Subscale Rumination  2 = Children’s Response Styles Questionnaire (CRSQ): Subscale Problem-Solving  3 = Difficulties in Emotion Regulation Scale (DERS) Subscale Nonacceptance  4 = Cognitive Emotion Regulation Questionnaire kids (CERQ-k) Subscale positive Reappraisal  5 = Cognitive Emotion Regulation Questionnaire kids (CERQ-k) Subscale Rumination  6 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale problem-oriented action  (7 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale cognitive problem solving)\* \*only at first coded as problem-solving. Consensus agreement to drop due to overlap with reflection subscale of rumination  8 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale acceptance  9 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale reappraisal/revaluation  10 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale perseveration/rumination  11 = Responses to Stress Scale (RSS) Subscale rumination  12 = Ruminative Response Scale-Short Form (RRS-SF)  13 = Children’s Response Styles Questionnaire (CRSQ-ext) extended rumination subscale: subscale brooding  14 = Children’s Response Styles Questionnaire (CRSQ-ext) extended rumination subscale: subscale reflection  15 = Social Problem-Solving Inventory Revised (SPSI-R) Subscale Rational Problem Solving  16 = Social Problem-Solving Inventory Revised (SPSI-R) Subscale Avoidant Style  17 = Avoidance and Fusion Questionnaire for Youth (AFQ-Y)  18 = Response Styles Questionnaire (RSQ) Subscale rumination: subscale reflection  19 = Response Styles Questionnaire (RSQ) Subscale rumination: subscale brooding  20 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ) Subscale Brooding  21 = Emotion Regulation Inventory (ERI) subscale suppression  22 = Children’s Response Styles Scale (CRSS) subscale rumination  23 = Coping Across Situations Questionnaire (CASQ) subscale active coping  24 = Coping Across Situations Questionnaire (CASQ) subscale withdrawal/avoidance/avoidant coping  25 = Emotion Regulation Questionnaire (ERQ) Subscale Cognitive reappraisal  26 = Emotion Regulation Questionnaire (ERQ) Subscale Suppression  27 = Social Problem-Solving Inventory-Revised Short-Form (SPSI-RSF) Subscale Rational Problem Solving  (28 = Cognitive Emotion Regulation Questionnaire (CERQ-k) Subscale refocus on planning)\* \*only at first coded as problem-solving. Consensus agreement to drop due to overlap with reflection subscale of rumination  29 = Responses to Stress Questionnaire (RSQ) Subscale Rumination  30 = Affect Regulation Checklist (ARC) Subscale affect suppression  31 = Ruminative Response Scale-Short Version (RRS-SF) Subscale Brooding  32 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ) Subscale Reflection  33 = Ways of Coping Questionnaire (WCQ) subscale Problem solving  34 = Ways of Coping Questionnaire (WCQ) subscale Avoidance  35 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ)  36 = Coping Strategies Inventory (CSI) Subscale Problem-Solving  37 = Coping Strategies Inventory (CSI) Subscale Cognitive Restructuring  38 = Coping Strategies Inventory (CSI) Subscale Problem Avoidance  39 = White Bear Suppression Inventory (WBSI)  40 = Cognitive Avoidance Questionnaire (CAQ)  41 = Emotion Regulation Questionnaire for Children and Adolescents (ERQ-CA) Subscale Cognitive Reappraisal  42 = Emotion Regulation Questionnaire for Children and Adolescents (ERQ-CA) Subscale Suppression  43 = Social Problem-Solving Inventory-Revised Short-Form (SPSI-RSF) Subscale Avoidance  44 = Cognitive Emotion Regulation Questionnaire (CERQ) Subscale Rumination  (45 = Cognitive Emotion Regulation Questionnaire (CERQ) Subscale Planning)\* \*only at first coded as problem-solving. Consensus agreement to drop due to overlap with reflection subscale of rumination  46 = Cognitive Emotion Regulation Questionnaire (CERQ) Subscale Positive Reappraisal  47 = Adolescent Coping Scale (ACS) Ignore the Problem Factor (Avoidant Coping)  48 = Coping Inventory for Stressful Situations (CISS) Subscale avoidance-oriented coping  49 = Responses to Depression Questionnaire (RDQ)  50 = Anger Rumination Scale (ARS)  51 = Children’s Coping Strategies Scale (CCSS) Subscale Problem Solving  52 = Ruminative Thoughts Style Questionnaire (RTSQ)  53 = Emotion Expression Scale for Children (EESC) Subscale Expressive Reluctance  54 = Difficulties in Emotion Regulation Scale Short Form (DERS-SF) subscale nonacceptance  55 = COPE Inventory shortened version – subscale active coping  56 = White Bear Suppression Inventory (WBSI) Suppression Subscale  57 = The Coping Styles Questionnaire (CSQ) subscale rational coping  58 = The Coping Styles Questionnaire (CSQ) subscale avoidant coping  59 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Problem Solving  60 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Rumination  61 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Reappraisal  62 = Children’s Response Styles Scale (CRSS) subscale brooding  63 = Social Problem-Solving Inventory-Revised Short-Form (SPSI-RSF)  64 = Children’s Response Styles Scale (CRSS) subscale reflection  65 = Avoidance and Fusion Questionnaire for Youth 8 item short-form (AFQ-Y8)  66 = Adolescent Coping Strategy Index (ACSI) Subscale Problem Avoidance  67 = Adolescent Coping Strategy Index (ACSI) Subscale Active Problem Solving  68 = Stress-reactive Rumination Scale for Children (SRRS-C)  69 = Social Problem-Solving Inventory-Revised (SPSI-R)  70 = Youth Emotion Regulation and Dysregulation Scale (YERD) Subscale Cognitive Reappraisal  71 = Youth Emotion Regulation and Dysregulation Scale (YERD) Subscale Cognitive Avoidance  72 = Youth Emotion Regulation and Dysregulation Scale (YERD) Subscale Rumination  73 = Rumination on Sadness Scale (RSS)  74 = Impact of Event Scale (IES) Derived Subscale Rumination  75 = The Regulation of Emotion Systems Survey (RESS) Subscale Suppression  76 = The Regulation of Emotion Systems Survey (RESS) Subscale Reappraisal  77 = The Regulation of Emotion Systems Survey (RESS) Subscale Rumination  78 = Adolescent Multidimensional Social Competence Questionnaire (AMSC-Q) Subscale Cognitive Reappraisal  79 = Self-Report Coping Measure (SRCM) subscale avoidant coping  80 = UCLA PTSD-Reaction Index (UCLA PTSD-RI) Subscale Avoidance  81 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) Subscale Passive Avoidance  82 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) Subscale Rumination  83 = Emotional Expressivity Scale (EES)  84 = Adolescent Coping Scale (ACS) subscale problem-focused coping  85 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) subscale problem-focused coping  86 = Adolescent Coping Scale (ACS) subscale problem solving  87 = Adolescent Coping Scale (ACS) subscale focus on the positive  88 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale withdrawal  89 = Children’s Sadness Management Style (Sadness inhibition) | er\_measure\_name |
| ER measure valid? | 0 = no 1 = yes, based on article or personal literature review | er\_measure\_val |
| Specific symptom for effect size in this row | 1 = depression  2 = anxiety  3 = aggression  4 = addiction | symptom\_specific |
| Symptom measure name | If multiple measures for this (averaged) effect size used, separate with “\_”, e.g. “1\_2\_5”  1 = Children’s Depression Inventory (CDI)  2 = Multidimensional Anxiety Scale for Children (MASC)  3 = Internet Addiction Test (IAT)  4 = Depression Profile for Children and Adolescents (DDPCA; self-reporting dimensions)  5 = Social Anxiety Scale for Children – Revised (SASC-R)  6 = Center for Epidemiologic Studies Depression Scale-Revised 10-Item Version for Adolescents (CESDR-10)  7 = Children’s Depression Rating Scale Revised (CDRS-R)  8 = Center for Epidemiologic Studies Depression (CES-D)  9 = Self-Report Questionnaire – Depression (SBB-DES)  10 = State-Trait Anxiety Inventory for Children (STAI-C) Trait Scale  11 = Brief Symptom Inventory (BSI) Subscale Depression  12 = Youth Self-Report (YSR) global aggressive behavior score  13 = State-Trait Anxiety Inventory for Youth (STAI-Y) Trait Scale  14 = Adolescent Drug Abuse Diagnosis (ADAD) subscale alcohol  15 = Adolescent Drug Abuse Diagnosis (ADAD) subscale drug  16 = Depression, Anxiety and Stress Scale (DASS) Subscale Anxiety  17 = Depression, Anxiety and Stress Scale (DASS) Subscale Depression  18 = Anxiety Screen for Child Anxiety-Related Emotional Disorders (SCARED)  19 = Beck Depression Inventory II (BDI-II)  20 = Center for Epidemiological Studies Depression Scale for Children (CES-DC)  21 = Spence Children’s Anxiety Scale (SCAS)  22 = Brief Child and Family Phone Interview (BCFPI) Subscale Oppositional Defiant Disorder  23 = Brief Child and Family Phone Interview (BCFPI) Subscale Conduct Disorder  24 = Brief Child and Family Phone Interview (BCFPI) Subscale Anxiety  25 = Brief Child and Family Phone Interview (BCFPI) Subscale Depression  26 = Beck Youth Inventories of Emotional and Social Impairment Second edition (BYI II) subscale depression  27 = Beck Youth Inventories of Emotional and Social Impairment Second edition (BYI II) subscale disruptive behavior  28 = Beck Depression Inventory (BDI)  29 = Social Anxiety Scale for Children Revised Short Form (SAS-A Revised)  30 = Beck Depression Inventory for Youth (BDI-Y)  31 = Beck Anxiety Inventory for Youth (BAI-Y)  32 = Multicage CAD-4 subscale alcohol abuse  33 = Multicage CAD-4 subscale substance abuse  34 = Questionnaire of Experiences Related to the Internet (QERI)  35 = Questionnaire of Experiences Related to Video Games (QERG)  36 = South Oaks Gambling Screen for Adolescents (SOGS-RA)  37 = Pediatric Anxiety Short Form (PROMIS)  38 = Short Mood and Feelings Questionnaire (SMFQ-C)  39 = Reactive-proactive aggression questionnaire (RPQ) Subscale Reactive aggression  40 = Smartphone Addiction Scale-Short version (SAS-SV)  41 = State-Trait Anxiety Inventory (STAI) Trait Scale  42 = Revised Child Anxiety and Depression Scale (RCADS) Subscale Depression  43 = Multidimensional Anxiety Scale 10 item-version (MASC-10)  44 = Mood and Feelings Questionnaire (MFQ)  45 = Questionnaire of Experiences Related to Mobile Phones (QERM)  46 = Symptom Checklist (SCL-90) Subscale Depression  47 = Symptom Checklist (SCL-90) Subscale Anxiety  48 = Social Phobia Inventory (SPIN)  49 = Test for Youth Health modified (MYTH-M) subscale impatience-aggression  50 = The Social Anxiety Scale for Adolescents (SAS-A)  51 = Gambling Activities Questionnaire (GAQ)  52 = Children’s Depression Inventory-2 Short version (CDI-2:SR[S])  53 = Revised Children’s Manifest Anxiety Scale-2 (RCMAS-2)  54 = Social Phobia and Anxiety Inventory-10-Child report (SPAI-10-C)  55 = The Peer Experiences Questionnaire revised version (PREQ) subscale aggression  56 = Schedule for Affective Disorders and Schizophrenia for school-aged children (K-SADS-PL) subscale Depression  57 = Schedule for Affective Disorders and Schizophrenia for school-aged children (K-SADS-PL) subscale anxiety  58 = Anxiety Disorders Interview Schedule for DSM-IV (ADIS-IV)  59 = Alcohol Use Disorders Identification Test (AUDIT)  60 = Social and Health Assessment (SAHA) subscale physical/verbal aggression  61 = Social and Health Assessment (SAHA) subscale social aggression  62 = Beck Anxiety Inventory (BAI)  63 = Fear Survey Schedule for Children revised (FSSCR)  64 = Bergen Social Media Addiction Scale (BSMAS)  65 = Social Phobia and Anxiety Inventory for Children (SPAI-C)  66 = Peer Conflict Scale (PCS) Subscale Reactive-relational aggression  67 = Peer Conflict Scale (PCS) Subscale Proactive-Relational aggression  68 = Cyberbullying/Victimization Experiences Questionnaire (CBVEQ) subscale Cyberbullying  69 = Relational Aggression Scale (RAS) subscale proactive Relational aggression  70 = Relational Aggression Scale (RAS) subscale reactive Relational aggression  71 = Buss-Perry Aggression Questionnaire – Short-Form (BPAQ-SF) Subscale physical aggression  72 = Buss-Perry Aggression Questionnaire – Short-Form (BPAQ-SF) Subscale verbal aggression  73 = Mobile Phone Addiction Index (MPAI)  74 = Revised Child Anxiety and Depression Scale-Short Version (RCADS-SV) Subscale Depression  75 = Child Behavior Checklist Youth Self Report (YSR)  76 = Revised Children’s Manifest Anxiety Scale Second Edition Short Form (RCMAS-2 SF)  77 = Strengths and Difficulties Questionnaire (SDQ) Subscale Conduct Problems  78 = Birleson Depression Self-Rating Scale for Children (DSRS-C)  79 = Child Behavior Checklist (CBCL) Subscale Exernalizing symptoms  80 = Buss-Perry Aggression Questionnaire – Short-Form (BPAQ-SF)  81 = Anxiety Screen for Child Anxiety-Related Emotional Disorders Revised (SCARED-R)  82 = Depression, Anxiety and Stress Scale 21-item (DASS-21) Subscale Depression  83 = Depression, Anxiety and Stress Scale 21-item (DASS-21) Subscale Anxiety  84 = Phobiefragebogen für Kinder und Jugendliche (PHOKI)  85 = Multidimensional Anxiety Scale for Children (MASC) Subscale Physical Anxiety  86 = Multidimensional Anxiety Scale for Children (MASC) Subscale Social Anxiety  87 = Multidimensional Anxiety Scale for Children (MASC) Subscale Separation Anxiety  88 = Mood and Anxiety Symptom Questionnaire (MASQ) Subscale Anxious Arousal  89 = Youth Risk Behavior Survey (YRBS) Substance Use items  90 = Screen for Child Anxiety Related Emotional Disorders (SCARED-71)  91 = Multidimensional Anxiety Scale for Children 2nd Edition (MASC-II)  92 = Problem Behavior Frequency Scales (PBFS) Subscale Physical Aggression  93 = Problem Behavior Frequency Scales (PBFS) Subscale Relational Aggression  94 = Shorter Promis Questionnaire (SPQ) Internet Addiction subscale  95 = Patient Health Questionnaire-9 (PHQ-9)  96 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Depression  97 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Anxiety  98 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Alcohol Use  99 = Patient Health Questionnaire-Adolescent (PHQ-A) Drug Use  100 = Hospital Anxiety and Depression Scale (HADS) subscale Anxiety  101 = Hospital Anxiety and Depression Scale (HADS) subscale Anxiety  102 = Internet Addiction Test (IAT) Subscale Salience  103 = Internet Addiction Test (IAT) Subscale Excessive Use  104 = Internet Addiction Test (IAT) Subscale Neglect Work  105 = Internet Addiction Test (IAT) Subscale Anticipation  106 = Internet Addiction Test (IAT) Subscale Lack of Control  107 = Internet Addiction Test (IAT) Subscale Neglect Social Life  108 = Beck Depression Inventory for Youth (BDI-Y) Subscale suicide ideation  109 = Children’s Depression Inventory-2 (CDI-2)  110 = Integrated Measurement Framework of Aggression (IMFA) Subscale Overt Aggression  111 = Integrated Measurement Framework of Aggression (IMFA) Subscale Relational Aggression  112 = Ontario Child Health Study Scales (OCHS) Subscale Depression  113 = Self-Rating Questionnaire for Adolescents’ Problematic Mobile Phone Use (SQAPMPU)  114 = Addictive Patterns of Use Scale (APU)  115 = European Bullying Intervention Project Questionnaire (EBIPQ) Subscale Aggression  116 = Depression inventory for children and adolescents (DIKJ)  117 = Reynolds Adolescent Depression Scale – Second Edition (RADS-2)  118 = Revised Child Anxiety and Depression Scale (RCADS) Subscale Anxiety  119 = Self-Report of Aggression and Social Behavior Measure (SRASBM) subscale proactive aggressive behavior  120 = Self-Report of Aggression and Social Behavior Measure (SRASBM) subscale reactive aggressive behavior  121 = E-Bullying Scale (EBS)  122 = Problematic Mobile Phone Usage Scale (PMPUS)  123 = Brief Symptom Inventory (BSI) Subscale Anxiety  124 = Cyberbullying Scale (CS)  125 = Low-level Aggression Measure (LLAM) subscale aggressive behavior  126 = School Violence Inventory (SVI) subscale physical aggression  127 = School Violence Inventory (SVI) subscale relational aggression  128 = Beck Depression Inventory for Primary Care (BDI-PC)  129 = Depression Self-Rating Scale (DSRS)  130 = Internet Game Addiction Self-test Scale (IGASS)  131 = Korean Internet Addiction Proneness Scale (K-Scale)  132 = Brief Symptom Inventory (BSI) Subscale Hostility  133 = Aggression scale (A Scale)  134 = Reynolds Adolescent Adjustment Screening Inventory (RAASI) subscale anger control problems  135 = Revised Peer Experiences Questionnaire (PEQ-R) Subscale Physical Aggression  136 = Revised Peer Experiences Questionnaire (PEQ-R) Subscale Relational Aggression  137 = Smartphone Addiction Inventory (SPAI)  138 = Gaming Disorder Scale for Adolescence (GADIS-A)  139 = Child Symptom Inventory (CSI) Subscale Oppositional Defiant Disorder  140 = Child Symptom Inventory (CSI) Subscale Conduct Disorder  141 = Revised Children’s Manifest Anxiety Scale (RCMAS)  142 = Test of Mobile Phone Dependence short version (TMDbrief)  143 = Ten-Item Internet Gaming Disorder Test (IGST-10)  144 = Short Depression-Happiness Scale (SDHS) | symptom\_measure\_name |
| symptom measure valid? | 0 = no 1 = yes, based on article or personal literature review | symptom\_measure\_val |
| Data form | 1 = bivariate correlation  2 = group means/SDs | data\_form |
| Effect size | Rounded two decimals;  Convert Standardized Mean Difference to r | effect\_size |
| N for this effect size |  | n\_effect\_size |
| Externalizing or internalizing symptom? | 1 = internalizing  2 = externalizing | int\_ext |

**Characteristics of the Studies Included in the Meta-Analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Authors | n | Sample type  (mean age) | ER measures | Symptom measures |
| Abela et al., 2002 (third grade sample) | 130 | Healthy (8.75) | CRSQ | CDI |
| Abela et al., 2002 (seventh grade sample) | 184 | Healthy  (12.83) | CRSQ | CDI |
|  |  |  |  |  |
| Abela et al., 2004 (third grade sample) | 70 | Healthy (8.25) | CRSQ | CDI |
| Abela et al., 2004 (seventh grade sample) | 190 | Healthy (12.33) | CRSQ | CDI |
| Abela et al., 2009 | 367 | Healthy (14.13) | CRSQ | CDI |
|  |  |  |  |  |
| Adrian et al., 2019 | 287 | Healthy (16.56) | CRSQ | CDI  MASC |
| Alloy et al., 2012 | 8662 | Healthy (12.89) | CRSQ | CDI MASC |
| Amendola et al., 2019 | 280 | Healthy (13.31) | DERS | IAT TMDbrief |
| Andrés et al., 2016 | 315 | Healthy (11.08) | CERQ-k | DDPCA |
| Asbrand et al., 2016 | 51 | Mixed (11.00) | FEEL-KJ | SASC-R |
| Auerbach et al., 2012 | 151 | Healthy (15.14) | RSS | MASC |
| Bağatarhan & Siyez, 2020 | 600 | Healthy (16.41) | RRS-SF | CESDR-10 IAT |
|  |  |  |  |  |
| Bastin et al., 2014 | 371 | Healthy (11.73) | CRSQ-ext | CDI |
| Bastin et al., 2018 | 465 | Healthy (13.00) | CRSQ-ext | CDI |
| Becker-Weidman et al., 2010 | 439 | Clinical (14.60) | SPSI-R | CDRS-R |
| Betts et al., 2009 | 88 | Mixed (13.92) | BCFPI BYI-II | RADS-2 |
| Biglan et al., 2015 | 3965 | Healthy (11.50) | AFQ-Y | CES-D |
| Black & Pössel, 2015 | 462 | Healthy (16.01) | RRS RSQ | CES-D |
| Black & Pössel, 2013 | 100 | Healthy (13.58) | RSQ | SBB-DES |
| Borelli et al., 2014 | 103 | Healthy (9.83) | CRSQ | CDI |
| Boxer et al., 2008 (study 1) | 35 | Healthy (10.70) | SRCM | LLAM |
| Boxer et al., 2008 (study 2) | 70 | Healthy (11.30) | SRCM | LLAM |
| Braet et al., 2014 | 128 | Healthy (11.57) | FEEL-KJ | CDI |
| Brenning & Braet, 2013 | 310 | Healthy (14.26) | ERI | CDI YSR |
| Brenning et al., 2012 (study 1) | 339 | Healthy (12.60) | ERI | CDI |
| Brenning et al., 2012 (study 2) | 746 | Healthy (12.00) | ERI | CDI |
| Broderick & Korteland, 2004 | 79 | Healthy (10.10) | CRSQ | CDI |
| Calvete et al., 2015 | 1000 | Healthy (13.42) | CRSS | CES-D |
| Carlo et al., 2012 | 1557 | Healthy (13.12) | ACS | A scale |
| Cascone et al., 2011 | 110 | Mixed  (16.27) | CASQ | ADAD STAI-Y |
| Cerruti et al., 2017 | 240 | Healthy (11.80) | ERQ | CDI IAT |
| Chamizo-Nieto et al., 2020 | 835 | Healthy (15.60) | CERQ | DASS |
| Chan et al., 2015 | 785 | Clinical (15.03) | CERQ-k | BDI-II SCARED |
| Chen et al., 2019 | 1955 | Healthy (14.85) | ERQ | CES-D |
| Chervonsky & Hunt, 2019 (male sample) | 84 | Healthy (11.97) | ERQ | CES-DC SCAS |
| Chervonsky & Hunt, 2019 (female sample) | 148 | Healthy (11.97) | ERQ | CES-DC SCAS |
| Chun, 2016 | 351 | Healthy (13.50) | DERS | BSI K-Scale |
| Cohen et al., 2014 | 678 | Healthy (11.58) | CRSQ | CDI MASC |
| Cohen et al., 2019 | 473 | Healthy (13.20) | CRSQ | CDI |
| Connell et al., 2013 | 59 | Healthy (13.71) | ERQ | CDI |
| Cox et al., 2012 | 111 | Healthy (16.40) | RSQ | CDI |
| Craig & Moretti, 2019 | 418 | Mixed (15.04) | ARC | BCFPI |
| Crockett et al., 2020 (female sample) | 804 | Mixed (15.20) | ERQ | PHQ-9 |
| Crockett et al., 2020 (male sample) | 885 | Mixed (15.30) | ERQ | PHQ-9 |
| De France & Hollenstein, 2019 | 99 | Healthy (13.40) | RESS | BAI  BDI |
| De Witte et al., 2017 | 70 | Mixed (12.80) | FEEL-KJ | STAI-C |
| Domoff et al., 2020 | 111 | Healthy (14.57) | DERS | APU |
| Downey et al., 2010 | 140 | Healthy (12.02) | ACS | YSR |
| Dumont & Provost, 1999 | 297 | Healthy (15.67) | WCQ | BDI |
| Duprey et al., 2021 | 175 | Clinical (14.00) | ERQ-CA | BDI-Y |
| Eastabrook et al., 2014 | 123 | Clinical (14.51) | ERQ | CDI SAS-A Revised |
| Epkins, 2016 | 124 | Healthy (10.75) | AFQ-Y | BAI-Y BDI-Y SAS-A Revised |
| Epkins et al., 2013 | 125 | Healthy (10.46) | CRSQ | BAI-Y BDI-Y |
| Erdur-Baker, 2009 | 250 | Healthy (15.37) | RRS | CDI |
| Estévez et al., 2017 | 472 | Healthy (15.60) | DERS | CAD-4 QERI QERG  SOGS-RA |
| Estévez et al., 2019 | 472 | Healthy (15.60) | CSI | QERI QERG SOGS-RA |
| Evans et al., 2020 | 238 | Healthy (8.90) | CRSQ | PROMIS RPQ SMFQ-C |
| Extremera et al., 2019 | 845 | Healthy (15.64) | CERQ | SAS-SV |
| Fernández-Berrocal et al., 2006 | 250 | Healthy (14.70) | WBSI | BDI STAI |
| Ferraz de Camargo & Rice, 2020 | 349 | Healthy (14.25) | CERQ-k | RCADS |
| Fialko et al., 2012 | 515 | Healthy (12.97) | CAQ | MASC-10 |
| Fisk et al., 2019 | 58 | Mixed (14.74) | RSQ | MFQ |
| Flett et al., 2011 | 81 | Healthy (12.80) | CRSQ | CES-D |
| Ford et al., 2014 | 205 | Healthy (12.09) | ERQ | CDI |
| Ford et al., 2018 | 136 | Healthy (15.50) | ERQ-CA | CES-D |
| Frye & Goodman, 2000 | 82 | Healthy (13.23) | SPSI-R | BDI |
| García-Gómez et al., 2019 | 327 | Healthy (11.24) | AFQ-Y | STAI-C |
| García-Oliva & Piqueras, 2016 | 317 | Healthy (14.64) | AFQ-Y | QERG  QERI QERM |
| Garnefski & Kraaij, 2006 (early adolescence) | 597 | Healthy (13.92) | CERQ | SCL-90 |
| Garnefski & Kraaij, 2006 (late adolescence) | 597 | Healthy (16.92) | CERQ | SCL-90 |
| Garnefski & Kraaij, 2018 | 582 | Healthy (14.24) | CERQ | SCL-90 |
| Garnefski et al., 2007 | 717 | Healthy (10.25) | CERQ-k | CDI |
| Gepty et al., 2019 | 309 | Healthy (12.90) | CRSQ | CDI |
| Gill et al., 2018 | 414 | Healthy (14.77) | CAQ | SPIN |
| Gomez, 1998 | 468 | Healthy (16.06) | ACS | MYTH-M |
| Gómez-Ortiz et al., 2016 | 2060 | Healthy (14.34) | ERQ | SAS-A |
| Gómez-Ortiz et al., 2019 (Spanish sample) | 1952 | Healthy (14.34) | AMSC-Q | EBIPQ |
| Gómez-Ortiz et al., 2019 (Colombian sample) | 2060 | Healthy (14.25) | AMSC-Q | EBIPQ |
| Gonçalves et al., 2019 | 246 | Healthy (12.61) | DERS | CDI |
| Grabe et al., 2007 | 299 | Healthy (11.24) | RSQ | MASC |
| Gül et al., 2019 | 150 | Clinical (15.40) | DERS | BSI EBS PMPUS |
| Gullone & Taffe, 2012 | 827 | Healthy (13.93) | ERQ-CA | CDI |
| Gumpel, 2016 | 1116 | Healthy (14.00) | UCLA PTSD-RI | BDI-PC SVI |
| Gupta et al., 2004 | 157 | Mixed (14.58) | CISS | GAQ |
| Gutenbrunner et al., 2018 | 322 | Healthy (12.82) | CRSQ | CDI-2:SR RCMAS-2 |
| Hambour et al., 2018 | 336 | Healthy (13.90) | DERS | SAS-A |
| Hampel & Petermann, 2006 (female sample) | 155 | Healthy (11.89) | GCQ-CA | RAASI |
| Hampel & Petermann, 2006 (male sample) | 155 | Healthy (11.89) | GCQ-CA | RAASI |
| Hankin, 2008 | 350 | Healthy (14.50) | CRSQ | CDI |
| Hart & Thompson, 1996 (female sample) | 38 | Healthy (14.50) | RDQ | BDI |
| Hart & Thompson, 1996 (male sample) | 35 | Healthy  (14.50) | RDQ | BDI |
| Hasking, 2006 | 347 | Healthy (14.18) | ACS | AUDIT |
| Hasking et al., 2011 | 548 | Healthy  (14.00) | COPE | BSI |
| Hearn et al., 2017 | 127 | Healthy  (11.29) | WBSI | SPAI-10-C |
| Hearn et al., 2017 | 40 | Mixed (9.88) | WBSI | SCAS |
| Heleniak et al., 2018 | 287 | Healthy (16.50) | CRSQ | CDI MASC |
| Herts et al., 2012 | 1065 | Healthy (12.50) | CRSQ | PREQ |
| Hilt et al., 2008 | 94 | Healthy (12.70) | CRSQ | CDI |
| Hilt et al., 2010 | 1065 | Healthy (12.50) | CRSQ | CDI |
| Hilt et al., 2017b | 122 | Healthy (12.39) | RSQ | K-SADS-PL |
| Hughes et al., 2010 | 42 | Mixed (13.40) | ERQ | ADIS-IV |
| Inguglia et al., 2020 | 541 | Healthy (17.09) | CISS | AUDIT |
| Isaksson et al., 2020 | 2810 | Healthy (14.90) | ARS | CES-D SAHA |
| Jiang et al., 2020 | 713 | Healthy (13.36) | DERS-SF | CES-D CS |
| Jose & Weir, 2013 | 926 | Healthy (13.14) | RSQ | BAI CDI |
| Jose et al., 1998 | 270 | Healthy (11.99) | CCSS | CDI |
| Jose et al., 2012 | 575 | Healthy (13.99) | RRS | SAS-A |
| Karaer & Akdemir, 2019 | 80 | Mixed (15.40) | DERS | IAT |
| Keil et al., 2017 | 77 | Mixed (11.80) | FEEL-KJ | FSSCR |
| Kircaburun et al., 2019 | 470 | Healthy (16.29) | RTSQ | BSMAS IGST-10 SDHS |
| Klemanski et al., 2017 | 790 | Mixed (12.52) | EESC | SPAI-C |
| Klemanski et al., 2017 | 1065 | Healthy (12.52) | CRSQ | SPAI-C |
| Koch et al., 2020 | 188 | Healthy (11.70) | CRSQ | CES-DC |
| Kokkinos & Voulgaridou, 2017 | 347 | Healthy (13.10) | ERQ | CBVEQ PCS |
| Kokkinos et al., 2019 | 518 | Healthy (13.66) | ERQ | RAS |
| Kokkinos et al., 2013 | 300 | Healthy (11.07) | GCQ-CA | CBVEQ |
| Kong et al., 2020 | 1141 | Healthy (16.02) | IES | SAS-A SQAPMPU |
| Koo et al., 2017 | 236 | Mixed (13.61) | DERS | - |
| Krause et al., 2018 (male sample) | 214 | Healthy (11.98) | RRS | CDI |
| Krause et al., 2018 (female sample) | 194 | Healthy (11.98) | RRS | CDI |
| Kuyken et al., 2006 | 223 | Mixed (15.29) | RRS | BDI-II |
| Kuzucu, 2016 | 413 | Healthy (15.28) | DERS SPSI-RSF | BPAQ-SF |
| Larsen et al., 2012 (male sample) | 741 | Healthy (13.80) | ERQ | CES-D |
| Larsen et al., 2012 (female sample) | 724 | Healthy (13.80) | ERQ | CES-D |
| Li et al., 2015 | 330 | Healthy (17.14) | CERQ | BDI-II |
| Lian et al., 2021 | 754 | Healthy (12.92) | RRS | MPAI |
| Liu et al., 2017 | 1381 | Healthy (9.80) | ERQ-CA | CDI |
| Liu et al., 2017 | 1196 | Healthy (16.75) | RRS | MPAI |
| Lo Coco et al., 2020a | 242 | Healthy (14.16) | DERS-SF | SAS-SV |
| Lo Coco et al., 2020b | 647 | Healthy (14.15) | DERS | SPAI |
| Lo et al., 2021 | 125 | Healthy (12.21) | CRSQ | CES-DC |
| López et al., 2020 | 110 | Clinical (15.71) | SPSI-R | CDI-2 |
| Lougheed & Hollenstein, 2012 | 177 | Healthy (13.60) | ERQ DERS | BAI BDI-II |
| Lydon-Staley et al., 2019 | 151 | Healthy (14.60) | DERS-SF | RCADS-SV |
| Ma & Fang, 2019 | 1067 | Healthy (14.84) | ERQ DERS | DASS |
| Malhi et al., 2017 | 112 | Healthy (15.27) | DERS | CDI STAI |
| Marks et al., 2010 | 317 | Healthy (16.10) | RTSQ | DASS |
| Masters et al., 2019 | 391 | Healthy (12.00) | DERS | SAS-A SMFQ-C |
| Mathews et al., 2014 | 90 | Healthy (13.40) | COPE DERS | SAS-A SCARED |
| McClain et al., 2020 (male sample) | 212 | Healthy (9.16) | ERQ-CA | YSR RCMAS-2 SF |
| McClain et al., 2020 (female sample) | 270 | Healthy (9.16) | ERQ-CA | YSR RCMAS-2 SF |
| Melero et al., 2020 | 336 | Healthy (9.65) | CERQ-k | CDI SDQ |
| Mestre et al., 2019 | 318 | Healthy (11.25) | AFQ-Y WBSI | STAI-C |
| Mezulis et al., 2011 (female sample) | 158 | Healthy (13.52) | RRS-SF | CDI |
| Mezulis et al., 2011 (male sample) | 143 | Healthy (13.52) | RRS-SF | CDI |
| Mikolajczak et al., 2009 | 490 | Healthy (16.65) | CSQ | BDI-II |
| Murayama et al., 2021 (female sample) | 2575 | Healthy (11.97) | ERS-MS | DSRS-C |
| Murayama et al., 2021 (male sample) | 2726 | Healthy (11.97) | ERS-MS | DSRS-C |
| Muris et al., 2004 | 337 | Healthy (14.04) | CRSS | CDI SCARED |
| Muris et al., 2009 | 231 | Healthy (15.27) | CRSS RSS | RCADS |
| Namatame et al., 2020 | 389 | Healthy (10.30) | ERQ-CA | DSRS SCAS |
| Namatame et al., 2020 | 389 | Healthy (15.10) | ERQ-CA | CES-D STAI |
| Neumann et al., 2010 | 197 | Healthy (14.34) | DERS | RADS-2 SCARED YSR |
| Nolen-Hoeksema et al., 2007 | 496 | Healthy  (15.00) | RRS | CBCL K-SADS-PL |
| Orgilés et al., 2018 | 582 | Healthy (9.49) | CERQ-k | CDI STAI-C |
| Orue et al., 2014 | 1170 | Healthy (13.44) | CRSS | CES-D SAS-A |
| Özdemir et al., 2013 | 413 | Healthy (15.74) | SPSI-RSF | BPAQ-SF BSI |
| Padilla Paredes & Calvete, 2014 | 1316 | Healthy (13.42) | CRSS | CES-D |
| Papachristou et al., 2018 | 718 | Healthy (15.52) | AFQ-Y8 | SCARED SCARED-R |
| Papadakis et al., 2006 | 223 | Healthy (14.50) | RSQ | CDI |
| Peled & Moretti, 2007 | 140 | Clinical  (15.18) | ARS RSS | IMFA OCHS |
| Pepping et al., 2016 | 113 | Healthy (14.90) | ERQ-CA | DASS-21 |
| Poon et al., 2016 | 134 | Healthy (12.61) | DERS | CDI CSI RCMAS |
| Pössel & Pittard, 2019 | 519 | Healthy (16.09) | RSQ | CES-D |
| Reindl et al., 2016 | 238 | Healthy (13.54) | FEEL-KJ | DIKJ |
| Richardson et al., 2021 | 532 | Healthy (11.18) | ACSI | SCAS SMFQ-C |
| Roelofs et al., 2009 | 770 | Healthy (12.90) | CRSS | CDI STAI-C |
| Rood et al., 2010 | 785 | Healthy (12.40) | CRSS SRRS-C | CDI STAI-C |
| Ruijten et al., 2011 | 455 | Healthy (14.30) | RSQ | BDI-II |
| Russell et al., 2019 | 56 | Mixed (17.41) | DERS | - |
| Sackl-Pammer et al., 2019 | 66 | Mixed (13.63) | FEEL-KJ | PHOKI |
| Sarıtas-Atalar et al., 2015 | 595 | Healthy (15.19) | DERS | CDI |
| Schneider et al., 2018 | 312 | Healthy (11.68) | DERS | CDI MASC |
| Schneider et al., 2021 | 528 | Healthy (13.33) | DERS | CDI |
| Schweizer et al., 2020 | 382 | Healthy (12.57) | CRSQ | CDI MASQ |
| Seo et al., 2012 | 2199 | Healthy (13.37) | EES | IGASS |
| Simon & Verboon, 2016 | 267 | Healthy (9.18) | AFQ-Y | SCARED-71 |
| Şimşek & Çerçi, 2013 | 374 | Healthy (16.08) | DERS | BSI |
| Skripkauskaite et al., 2015 | 497 | Healthy (15.03) | DERS | SRASBM |
| Skymba et al., 2022 | 110 | Healthy (16.17) | YERD | SMFQ-C |
| Smith et al., 2018 | 99 | Healthy (14.90) | RRS | MFQ SCAS |
| Somers et al., 2020 | 160 | Healthy (12.68) | CRSQ | CDI |
| Stewart et al., 2019 | 149 | Healthy (13.85) | RSQ | CES-DC MASC-II |
| Sullivan et al., 2010 | 358 | Healthy (12.10) | EESC | PBFS |
| Taylor et al., 2009 | 31 | Mixed (12.60) | ACS | CES-D |
| Theodore-Oklota et al., 2014 | 210 | Healthy (12.45) | AFQ-Y | PEQ-R |
| Trumello et al., 2018 | 743 | Healthy (15.64) | ERQ | SPQ |
| van Beveren et al., 2018 | 1646 | Healthy (11.41) | FEEL-KJ | CDI |
| van Beveren et al., 2019 | 531 | Healthy (13.27) | FEEL-KJ | CDI |
| van Beveren et al., 2019 | 220 | Healthy (11.87) | FEEL-KJ | CDI |
| Verstraeten et al., 2011 | 138 | Healthy (10.80) | CRSQ-ext | CDI |
| Wagner et al., 2015 | 486 | Healthy (12.88) | CRSQ | CDI |
| Weinberg & Klonsky, 2009 | 428 | Healthy (15.00) | DERS | PHQ-A |
| Willem et al., 2011 | 189 | Healthy (16.67) | RRS | AUDIT BDI-II |
| Willem et al., 2014 | 309 | Healthy (16.82) | RRS | AUDIT |
| Xavier et al., 2018 (female sample) | 407 | Healthy (14.55) | AFQ-Y RRS-SF | DASS-21 |
| Xavier et al., 2018 (male sample) | 369 | Healthy (14.55) | AFQ-Y RRS-SF | DASS-21 |
| Yeung et al., 2015 | 712 | Healthy (15.19) | ERQ | HADS |
| Young et al., 2012 | 111 | Healthy (13.06) | RRS | CES-DC |
| Yu et al., 2013 (male sample) | 368 | Healthy (15.33) | DERS | IAT |
| Yu et al., 2013 (female sample) | 157 | Healthy (15.33) | DERS | IAT |
|  |  |  |  |  |

*Note.* Scales of Emotion Regulation:ACS = Adolescent Coping Scale; ACSI = Adolescent Coping Strategy Index; AFQ-Y = Avoidance and Fusion Questionnaire for Youth; AFQ-Y8 = Avoidance and Fusion Questionnaire for Youth (8 item short-form); AMSC-Q = Adolescent Multidimensional Social Competence Questionnaire; ARC = Affect Regulation Checklist; ARS = Anger Rumination Scale; BCFPI = Brief Child and Family Phone Interview; BYI-II = Beck Youth Inventories of Emotional and Social Impairment Second edition; CAQ = Cognitive Avoidance Questionnaire; CASQ = Coping Across Situations Questionnaire; CCSS = Children’s Coping Strategies Scale; CERQ = Cognitive Emotion Regulation Questionnaire; CERQ-k = Cognitive Emotion Regulation Quesionnaire for children; CISS = Coping Inventory for Stressful Situations; COPE = Cope Inventory (shortened version); CRSQ = Children’s Response Styles Questionnaire; CRSQ-ext = Children’s Response Styles Questionnaire extended; CRSS = Children’s Response Styles Scale; CSI = Coping Strategies Inventory; CSQ = The Coping Styles Questionnaire; DERS = Difficulties in Emotion Regulation Scale; DERS-SF = Difficulties in Emotion Regulation Scale Short Form; EES = Emotional Expressivity Scale; EESC = Emotion Expression Scale for Children; ERI = Emotion Regulation Inventory; ERQ = Emotion Regulation Questionnaire; ERQ-CA = Emotion Regulation Questionnaire for Children and Adolescents; ERS-MS = Emotion Regulation Scale for Elementary and Middle School Students; FEEL-KJ = Questionnaire on Emotion Regulation in Children and Youth; GCQ-CA = German Coping Questionnaire for Children and Adolescents; IES = Impact of Event Scale; RDQ = Responses to Depression Questionnaire; RESS = The Regulation of Emotion Systems Survey; RRS = Ruminative Response Scale; RRS-SF = Ruminative Response Scale short version; RSQ = Responses to Stress Questionnaire; RSS = Responses to Stress Scale ; RTSQ = Ruminative Thoughts Style Questionnaire ; SPSI-R = Social Problem-Solving Inventory Revised; SPSI-RSF = Social Problem-Solving Inventory Revised Short-Form; SRCM = Self-Report Coping Measure; SRRS-C = Stress-reactive Rumination Scale for Children; UCLA PTSD-RI = UCLA PTSD-Reaction Index; WBSI = White Bear Suppression Inventory; WCQ = Ways of Coping Questionnaire; YERD = Youth Emotion Regulation and Dysregulation Scale; Scales of Symptoms: A scale = Aggression Scale; ADAD = Adolescent Drug Abuse Diagnosis; ADIS-IV = Anxiety Disorders Interview Schedule for DSM-IV; APU = Addictive Patterns of Use Scale; AUDIT = Alcohol Use Disorders Identification Test; BAI = Beck Anxiety Inventory; BAI-Y = Beck Anxiety Inventory for Youth; BCFPI = Brief Child and Family Phone Interview; BDI = Beck Depression Inventory; BDI-II = Beck Depression Inventory II; BDI-PC = Beck Depression Inventory for Primary Care; BDI-Y = Beck Depression Inventory for Youth; BPAQ-SF = Buss-Perry Aggression Questionnaire-Short-Form; BSI = Brief Symptom Inventory; BSMAS = Bergen Social Media Addiction Scale; CAD-4 = Multicage CAD-4; CBCL = Child Behavior Checklist; CBVEQ = Cyberbullying/Victimization Experiences Questionnaire; CDI = Children’s Depression Inventory; CDI-2 = Children’s Depression Inventory-2; CDI-2:SR = Children’s Depression Inventory-2 Short version; CDRS-R = Children’s Depression Rating Scale Revised; CES-D = Center for Epidemiologic Studies Depression Scale; CES-DC = Center for Epidemiologic Studies Depression Scale for Children; CESDR-10 = Center for Epidemiologic Studies Depression Scale-Revised 10-Item Version for Adolescents; CS = Cyberbullying Scale; CSI = Child Symptom Inventory; DASS = Depression, Anxiety and Stress Scale; DASS-21 = Depression, Anxiety and Stress Scale 21-item; DDPCA = Depression Profile for Children and Adolescents; DIKJ = Depression Inventory for Children and Adolescents; DSRS = Depression Self-Rating Scale; DSRS-C = Depression Self-Rating Scale for Children; EBIPQ = European Bullying Intervention Project Questionnaire; EBS = E-Bullying Scale; FSSCR = Fear Survey Schedule for Children revised; GADIS-A = Gaming Disorder Scale for Adolescence; GAQ = Gambling Activities Questionnaire; HADS = Hospital Anxiety and Depression Scale; IAT = Internet Addiction Test; IGASS = Internet Game Addiction Self-test Scale; IGST-10 = Ten-Item Internet Gaming Disorder Test; IMFA = Integrated Measurement Framework of Aggression; K-SADS-PL = Schedule for Affective Disorders and Schizophrenia for school-aged children; K-Scale = Korean Internet Addiction Proneness Scale; LLAM = Low-level Aggression Measure; MASC = Multidimensional Anxiety Scale for Children; MASC-10 = Multidimensional Anxiety Scale 10 item-version; MASC-II = Multidimensional Anxiety Scale for Children 2nd edition ; MASQ = Mood and Anxiety Symptom Questionnaire; MFQ = Mood and Feelings Questionnaire; MPAI = Mobile Phone Addiction Index; MYTH-M = Test for Youth Health modified; OCHS = Ontario Child Health Study Scales; PBFS = Problem Behavior Frequency Scales; PCS = Peer Conflict Scale; PEQ-R = Revised Peer Experiences Questionnaire; PHOKI = Phobiefragebogen für Kinder und Jugendliche; PHQ-9 = Patient Health Questionnaire-9; PHQ-A = Patient Health Questionnaire-Adolescent; PMPUS = Problematic Mobile Phone Usage Scale; PREQ = The Peer Experiences Questionnaire revised version; PROMIS = Pediatric Anxiety Short Form; QERG = Questionnaire of Experiences Related to Video Games; QERI = Questionnaire of Experiences Related to the Internet; QERM = Questionnaire of Experiences Related to Video Games; RAASI = Reynolds Adolescent Adjustment Screening Inventory; RADS-2 = Reynolds Adolescent Depression Scale – Second Edition; RAS = Relational Aggression Scale; RCADS = Revised Child Anxiety and Depression Scale; RCADS-SV = Revised Child Anxiety and Depression Scale-Short Version; RCMAS = Revised Children’s Manifest Anxiety Scale; RCMAS-2 = Revised Children’s Manifest Anxiety Scale-2; ; RCMAS-2 SF = Revised Children’s Manifest Anxiety Scale Second Edition Short Form; RPQ = Reactive-proactive Aggression Questionnaire; RTSQ = Ruminative Thoughts Style Questionnaire; SAHA = Social and Health Assessment; SAS-A = The Social Anxiety Scale for Children; SAS-A Revised = Social Anxiety Scale for Children Revised Short Form; SASC-R = Social Anxiety Scale for Children Revised; SAS-SV = Smartphone Addiction Scale-Short version; SBB-DES = Self-Report Questionnaire-Depression; SCARED = Anxiety Screen for Child Anxiety-Related Emotional Disorders; SCARED-71 = Anxiety Screen for Child Anxiety-Related Emotional Disorders-71; SCARED-R = Anxiety Screen for Child Anxiety-Related Emotional Disorders Revised; SCAS = Spence Children’s Anxiety Scale; SCL-90 = Symptom Checklist; SDHS = Short Depression-Happiness Scale; SDQ = Strengths and Difficulties Questionnaire; SMFQ-C = Short Mood and Feelings Questionnaire; SOGS-RA = South Oaks Gambling Screen for Adolescents; SPAI = Smartphone Addiction Inventory; SPAI-10-C = Social Phobia and Anxiety Inventory-10-Child report; SPAI-C = Social Phobia and Anxiety Inventory for Children; SPIN = Social Phobia Inventory; SPQ = Shorter Promis Questionnaire; SQAPMPU = Self-Rating Questionnaire for Adolescents’ Problematic Mobile Phone Use; SRASBM = Self-Report of Aggression and Social Behavior Measure; STAI = State-Trait Anxiety Inventory; STAI-C = State-Trait Anxiety Inventory for Children; STAI-Y = State-Trait Anxiety Inventory for Youth; SVI = School Violence Inventory; TMDbrief = Test of Mobile Phone Dependence short version; YRBS = Youth Risk Behavior Survey; YSR = Youth Self-Report.

**Moderator Analyses**

*Moderator Analysis for Sample Type (Healthy vs. Clinical vs. Mixed)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Relationship |  | *Qb* | *k* | Mean ES | 95% CI | |
| Maladaptive Strategies with Internalizing Symptoms | Healthy  Clinical  Mixed | 0.94 | 163  5  18 | .43  .35  .41 | .40  .21  .31 | .45  .47  .51 |
| Maladaptive Strategies with all Symptoms | Healthy  Clinical  Mixed | 0.39 | 195  6  21 | .39  .35  .41 | .36  .24  .32 | .41  .45  .49 |
| Adaptive Strategies with all Symptoms | Healthy  Clinical  Mixed | 3.24 | 137  6  21 | -.20  -.25  -.27 | -.23  -.36  -.31 | -.17  -.13  -.22 |

*Note.* *Qb* = mixed effects total between groups factor; *k* = number of effect sizes; Mean ES = mean effect size; Reference category for each significance test was the healthy subgroup. Bold = significant difference from the healthy reference group. Relationships which did not have at least *k* = 5 studies per level were excluded from the analyses. \* *p* < .05. \*\* *p* < .01. \*\*\* *p* < .001.

*Moderator Analysis for Age Group (mean age < 12 vs. 12-15 vs. 16-18)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Relationship |  | *Qb* | *k* | Mean ES | 95% CI | |
| Rumination with Internalizing Symptoms | < 12  12-15  16-18 | 7.00\* | 27  71  15 | **.40**  .49  .49 | .34  .46  .45 | .47  .53  .53 |
| Rumination with Depression | < 12  12-15  16-18 | 6.61\* | 21  50  12 | **.40**  .51  .49 | .32  .46  .42 | .47  .55  .55 |
| Rumination with  all Symptoms | < 12  12-15  16-18 | 6.19\* | 30  77  22 | **.39**  .47  .41 | .33  .44  .33 | .45  .51  .48 |
| Avoidance with  all Symptoms | < 12  12-15  16-18 | 23.77\*\*\* | 15  19  6 | .42  .41  **.25** | .31  .32  .14 | .51  .49  .36 |
| Problem-Solving with all Symptoms | < 12  12-15  16-18 | 2.02 | 13  22  5 | -.19  -.14  -.21 | -.25  -.20  -.27 | -.12  -.07  -.14 |
| Maladaptive Strategies with Externalizing Symptoms | < 12  12-15  16-18 | 0.14 | 7  19  10 | .22  .19  .21 | .11  .14  .09 | .32  .25  .33 |
| Maladaptive Strategies with Depression | < 12  12-15  16-18 | 4.54 | 33  77  14 | .37  .45  .46 | .30  .41  .39 | .43  .49  .53 |
| Maladaptive Strategies with Anxiety | < 12  12-15  16-18 | 1.06 | 21  37  5 | .40  .41  .44 | .32  .36  .41 | .47  .46  .48 |
| Maladaptive Strategies with all Symptoms | < 12  12-15  16-18 | 1.85 | 61  133  28 | .36  .40  .38 | .32  .37  .31 | .41  .44  .45 |
| Adaptive Strategies with Internalizing Symptoms | < 12  12-15  16-18 | 11.88\*\* | 42  75  8 | **-.14**  -.27  -.19 | -.19  -.31  -.28 | -.10  -.22  -.10 |
| Adaptive Strategies with Depression | < 12  12-15  16-18 | 6.29\* | 28  45  6 | **-.17**  -.27  -.21 | -.21  -.33  -.32 | -.13  -.22  -.09 |
| Adaptive Strategies with all Symptoms | < 12  12-15  16-18 | 7.98\* | 46  108  10 | **-.14**  -.23  -.21 | -.19  -.27  -.29 | -.10  -.20  -.13 |

*Note.* *Qb* = mixed effects total between groups factor; *k* = number of effect sizes; Mean ES = mean effect size; Reference category for each significance test was the 12-15 years subgroup. Bold = significant difference from the 12-15 years reference group. Relationships which did not have at least *k* = 5 studies were excluded from the analyses. \* *p* < .05. \*\* *p* < .01. \*\*\* *p* < .001.

*Post Hoc Meta-Regression Moderator Analysis of Mean Age*

|  |  |  |  |
| --- | --- | --- | --- |
| Relationship | *b* | *SE* | *k* |
| Rumination with Internalizing Symptoms | 0.02\* | 0.01 | 113 |
| Rumination with Externalizing Symptoms | -0.01 | 0.02 | 16 |
| Rumination with Depression | 0.02 | 0.01 | 83 |
| Rumination with Anxiety | 0.00 | 0.01 | 31 |
| Avoidance with Internalizing Symptoms | -0.01 | 0.02 | 28 |
| Avoidance with Externalizing Symptoms | -0.00 | 0.02 | 12 |
| Avoidance with Depression | -0.03 | 0.03 | 15 |
| Avoidance with Anxiety | 0.02 | 0.03 | 13 |
| Suppression with Internalizing Symptoms | 0.01 | 0.01 | 45 |
| Suppression with Depression | 0.01 | 0.01 | 26 |
| Suppression with Anxiety | -0.00 | 0.02 | 19 |
| Acceptance with Internalizing Symptoms | -0.05\*\* | 0.02 | 34 |
| Acceptance with Externalizing Symptoms | 0.02 | 0.02 | 19 |
| Acceptance with Depression | -0.04\* | 0.02 | 19 |
| Acceptance with Anxiety | -0.05 | 0.03 | 15 |
| Acceptance with Addiction | 0.05\* | 0.02 | 13 |
| Problem-Solving with Internalizing Symptoms | -0.01 | 0.01 | 29 |
| Problem-Solving with Externalizing Symptoms | 0.03 | 0.03 | 11 |
| Problem-Solving with Depression | -0.01 | 0.02 | 19 |
| Problem-Solving with Anxiety | -0.00 | 0.03 | 10 |
| Cognitive Reappraisal with Internalizing Symptoms | -0.02\* | 0.01 | 62 |
| Cognitive Reappraisal with Depression | -0.01 | 0.01 | 41 |
| Cognitive Reappraisal with Anxiety | -0.04\* | 0.02 | 21 |

*Note.* Acceptance with Aggression was not tested because of the insignificant *Q* statistic. Relationships which did not have at least *k* = 10 studies were excluded from the analyses. *b* = standardized regression coefficient*; SE* = standard error; *k* = number of effect sizes*.*\* *p* < .05. \*\* *p* < .01. \*\*\* *p* < .001.