**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 = healthy2 = clinical3 = mixed (i.e., healthy and clinical) | sample\_type\_es |
| If mixed, which clinical comparison group? | 1 = depression2 = anxiety3 = aggression4 = 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 = rumination2 = avoidance3 = suppression4 = acceptance5 = problem solving6 = 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 Rumination2 = Children’s Response Styles Questionnaire (CRSQ): Subscale Problem-Solving3 = Difficulties in Emotion Regulation Scale (DERS) Subscale Nonacceptance4 = Cognitive Emotion Regulation Questionnaire kids (CERQ-k) Subscale positive Reappraisal5 = Cognitive Emotion Regulation Questionnaire kids (CERQ-k) Subscale Rumination6 = 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 rumination8 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale acceptance9 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale reappraisal/revaluation10 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale perseveration/rumination11 = Responses to Stress Scale (RSS) Subscale rumination12 = Ruminative Response Scale-Short Form (RRS-SF)13 = Children’s Response Styles Questionnaire (CRSQ-ext) extended rumination subscale: subscale brooding14 = Children’s Response Styles Questionnaire (CRSQ-ext) extended rumination subscale: subscale reflection15 = Social Problem-Solving Inventory Revised (SPSI-R) Subscale Rational Problem Solving16 = Social Problem-Solving Inventory Revised (SPSI-R) Subscale Avoidant Style17 = Avoidance and Fusion Questionnaire for Youth (AFQ-Y) 18 = Response Styles Questionnaire (RSQ) Subscale rumination: subscale reflection19 = Response Styles Questionnaire (RSQ) Subscale rumination: subscale brooding20 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ) Subscale Brooding21 = Emotion Regulation Inventory (ERI) subscale suppression22 = Children’s Response Styles Scale (CRSS) subscale rumination23 = Coping Across Situations Questionnaire (CASQ) subscale active coping24 = Coping Across Situations Questionnaire (CASQ) subscale withdrawal/avoidance/avoidant coping25 = Emotion Regulation Questionnaire (ERQ) Subscale Cognitive reappraisal26 = Emotion Regulation Questionnaire (ERQ) Subscale Suppression27 = 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 rumination29 = Responses to Stress Questionnaire (RSQ) Subscale Rumination30 = Affect Regulation Checklist (ARC) Subscale affect suppression31 = Ruminative Response Scale-Short Version (RRS-SF) Subscale Brooding32 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ) Subscale Reflection33 = Ways of Coping Questionnaire (WCQ) subscale Problem solving34 = Ways of Coping Questionnaire (WCQ) subscale Avoidance35 = Ruminative Response Scale (RRS) of the Response Style Questionnaire (RSQ) 36 = Coping Strategies Inventory (CSI) Subscale Problem-Solving37 = Coping Strategies Inventory (CSI) Subscale Cognitive Restructuring38 = Coping Strategies Inventory (CSI) Subscale Problem Avoidance39 = White Bear Suppression Inventory (WBSI) 40 = Cognitive Avoidance Questionnaire (CAQ)41 = Emotion Regulation Questionnaire for Children and Adolescents (ERQ-CA) Subscale Cognitive Reappraisal42 = Emotion Regulation Questionnaire for Children and Adolescents (ERQ-CA) Subscale Suppression43 = Social Problem-Solving Inventory-Revised Short-Form (SPSI-RSF) Subscale Avoidance44 = 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 rumination46 = Cognitive Emotion Regulation Questionnaire (CERQ) Subscale Positive Reappraisal47 = Adolescent Coping Scale (ACS) Ignore the Problem Factor (Avoidant Coping)48 = Coping Inventory for Stressful Situations (CISS) Subscale avoidance-oriented coping49 = Responses to Depression Questionnaire (RDQ)50 = Anger Rumination Scale (ARS)51 = Children’s Coping Strategies Scale (CCSS) Subscale Problem Solving52 = Ruminative Thoughts Style Questionnaire (RTSQ)53 = Emotion Expression Scale for Children (EESC) Subscale Expressive Reluctance54 = Difficulties in Emotion Regulation Scale Short Form (DERS-SF) subscale nonacceptance55 = COPE Inventory shortened version – subscale active coping56 = White Bear Suppression Inventory (WBSI) Suppression Subscale57 = The Coping Styles Questionnaire (CSQ) subscale rational coping58 = The Coping Styles Questionnaire (CSQ) subscale avoidant coping59 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Problem Solving60 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Rumination61 = Emotion Regulation Scale for Elementary and Middle School Students (ERS-MS) Subscale Reappraisal62 = Children’s Response Styles Scale (CRSS) subscale brooding63 = Social Problem-Solving Inventory-Revised Short-Form (SPSI-RSF)64 = Children’s Response Styles Scale (CRSS) subscale reflection65 = Avoidance and Fusion Questionnaire for Youth 8 item short-form (AFQ-Y8) 66 = Adolescent Coping Strategy Index (ACSI) Subscale Problem Avoidance67 = Adolescent Coping Strategy Index (ACSI) Subscale Active Problem Solving68 = 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 Reappraisal71 = Youth Emotion Regulation and Dysregulation Scale (YERD) Subscale Cognitive Avoidance72 = Youth Emotion Regulation and Dysregulation Scale (YERD) Subscale Rumination73 = Rumination on Sadness Scale (RSS)74 = Impact of Event Scale (IES) Derived Subscale Rumination75 = The Regulation of Emotion Systems Survey (RESS) Subscale Suppression76 = The Regulation of Emotion Systems Survey (RESS) Subscale Reappraisal77 = The Regulation of Emotion Systems Survey (RESS) Subscale Rumination78 = Adolescent Multidimensional Social Competence Questionnaire (AMSC-Q) Subscale Cognitive Reappraisal79 = Self-Report Coping Measure (SRCM) subscale avoidant coping80 = UCLA PTSD-Reaction Index (UCLA PTSD-RI) Subscale Avoidance81 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) Subscale Passive Avoidance82 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) Subscale Rumination83 = Emotional Expressivity Scale (EES)84 = Adolescent Coping Scale (ACS) subscale problem-focused coping85 = German Coping Questionnaire for Children and Adolescents (GCQ-CA) subscale problem-focused coping86 = Adolescent Coping Scale (ACS) subscale problem solving87 = Adolescent Coping Scale (ACS) subscale focus on the positive88 = Fragebogen zur Erhebung der Emotionsregulation bei Kindern und Jugendlichen (FEEL-KJ; Questionnaire on Emotion Regulation in Children and Youth) Subscale withdrawal89 = Children’s Sadness Management Style (Sadness inhibition) | er\_measure\_name |
| ER measure valid? | 0 = no1 = yes, based on article or personal literature review | er\_measure\_val |
| Specific symptom for effect size in this row | 1 = depression2 = anxiety3 = aggression4 = 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 Scale11 = Brief Symptom Inventory (BSI) Subscale Depression 12 = Youth Self-Report (YSR) global aggressive behavior score13 = State-Trait Anxiety Inventory for Youth (STAI-Y) Trait Scale14 = Adolescent Drug Abuse Diagnosis (ADAD) subscale alcohol15 = Adolescent Drug Abuse Diagnosis (ADAD) subscale drug16 = Depression, Anxiety and Stress Scale (DASS) Subscale Anxiety17 = Depression, Anxiety and Stress Scale (DASS) Subscale Depression18 = 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 Disorder23 = Brief Child and Family Phone Interview (BCFPI) Subscale Conduct Disorder24 = Brief Child and Family Phone Interview (BCFPI) Subscale Anxiety25 = Brief Child and Family Phone Interview (BCFPI) Subscale Depression26 = Beck Youth Inventories of Emotional and Social Impairment Second edition (BYI II) subscale depression27 = Beck Youth Inventories of Emotional and Social Impairment Second edition (BYI II) subscale disruptive behavior28 = 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 abuse33 = Multicage CAD-4 subscale substance abuse34 = 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 aggression40 = Smartphone Addiction Scale-Short version (SAS-SV)41 = State-Trait Anxiety Inventory (STAI) Trait Scale42 = Revised Child Anxiety and Depression Scale (RCADS) Subscale Depression43 = 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 Depression47 = Symptom Checklist (SCL-90) Subscale Anxiety48 = Social Phobia Inventory (SPIN)49 = Test for Youth Health modified (MYTH-M) subscale impatience-aggression50 = 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 aggression56 = Schedule for Affective Disorders and Schizophrenia for school-aged children (K-SADS-PL) subscale Depression57 = Schedule for Affective Disorders and Schizophrenia for school-aged children (K-SADS-PL) subscale anxiety58 = 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 aggression61 = Social and Health Assessment (SAHA) subscale social aggression62 = 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 aggression67 = Peer Conflict Scale (PCS) Subscale Proactive-Relational aggression68 = Cyberbullying/Victimization Experiences Questionnaire (CBVEQ) subscale Cyberbullying69 = Relational Aggression Scale (RAS) subscale proactive Relational aggression70 = Relational Aggression Scale (RAS) subscale reactive Relational aggression71 = Buss-Perry Aggression Questionnaire – Short-Form (BPAQ-SF) Subscale physical aggression72 = Buss-Perry Aggression Questionnaire – Short-Form (BPAQ-SF) Subscale verbal aggression73 = Mobile Phone Addiction Index (MPAI)74 = Revised Child Anxiety and Depression Scale-Short Version (RCADS-SV) Subscale Depression75 = 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 Problems78 = Birleson Depression Self-Rating Scale for Children (DSRS-C)79 = Child Behavior Checklist (CBCL) Subscale Exernalizing symptoms80 = 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 Depression83 = Depression, Anxiety and Stress Scale 21-item (DASS-21) Subscale Anxiety84 = Phobiefragebogen für Kinder und Jugendliche (PHOKI) 85 = Multidimensional Anxiety Scale for Children (MASC) Subscale Physical Anxiety86 = Multidimensional Anxiety Scale for Children (MASC) Subscale Social Anxiety87 = Multidimensional Anxiety Scale for Children (MASC) Subscale Separation Anxiety88 = Mood and Anxiety Symptom Questionnaire (MASQ) Subscale Anxious Arousal89 = Youth Risk Behavior Survey (YRBS) Substance Use items90 = 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 Aggression93 = Problem Behavior Frequency Scales (PBFS) Subscale Relational Aggression94 = Shorter Promis Questionnaire (SPQ) Internet Addiction subscale95 = Patient Health Questionnaire-9 (PHQ-9)96 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Depression97 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Anxiety98 = Patient Health Questionnaire-Adolescent (PHQ-A) Subscale Alcohol Use99 = Patient Health Questionnaire-Adolescent (PHQ-A) Drug Use100 = Hospital Anxiety and Depression Scale (HADS) subscale Anxiety101 = Hospital Anxiety and Depression Scale (HADS) subscale Anxiety102 = Internet Addiction Test (IAT) Subscale Salience103 = Internet Addiction Test (IAT) Subscale Excessive Use104 = Internet Addiction Test (IAT) Subscale Neglect Work105 = Internet Addiction Test (IAT) Subscale Anticipation106 = Internet Addiction Test (IAT) Subscale Lack of Control107 = Internet Addiction Test (IAT) Subscale Neglect Social Life108 = Beck Depression Inventory for Youth (BDI-Y) Subscale suicide ideation109 = Children’s Depression Inventory-2 (CDI-2)110 = Integrated Measurement Framework of Aggression (IMFA) Subscale Overt Aggression111 = Integrated Measurement Framework of Aggression (IMFA) Subscale Relational Aggression112 = Ontario Child Health Study Scales (OCHS) Subscale Depression113 = 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 Aggression116 = 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 Anxiety119 = Self-Report of Aggression and Social Behavior Measure (SRASBM) subscale proactive aggressive behavior120 = Self-Report of Aggression and Social Behavior Measure (SRASBM) subscale reactive aggressive behavior121 = E-Bullying Scale (EBS)122 = Problematic Mobile Phone Usage Scale (PMPUS)123 = Brief Symptom Inventory (BSI) Subscale Anxiety124 = Cyberbullying Scale (CS)125 = Low-level Aggression Measure (LLAM) subscale aggressive behavior126 = School Violence Inventory (SVI) subscale physical aggression127 = School Violence Inventory (SVI) subscale relational aggression128 = 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 Hostility133 = Aggression scale (A Scale)134 = Reynolds Adolescent Adjustment Screening Inventory (RAASI) subscale anger control problems135 = Revised Peer Experiences Questionnaire (PEQ-R) Subscale Physical Aggression136 = Revised Peer Experiences Questionnaire (PEQ-R) Subscale Relational Aggression137 = Smartphone Addiction Inventory (SPAI)138 = Gaming Disorder Scale for Adolescence (GADIS-A)139 = Child Symptom Inventory (CSI) Subscale Oppositional Defiant Disorder140 = Child Symptom Inventory (CSI) Subscale Conduct Disorder141 = 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 = no1 = yes, based on article or personal literature review | symptom\_measure\_val |
| Data form | 1 = bivariate correlation2 = 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 = internalizing2 = 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 | CDIMASC |
| Alloy et al., 2012 | 8662 | Healthy(12.89) | CRSQ | CDIMASC |
| Amendola et al., 2019 | 280 | Healthy(13.31) | DERS | IATTMDbrief |
| 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-10IAT |
|  |  |  |  |  |
| 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) | BCFPIBYI-II | RADS-2 |
| Biglan et al., 2015 | 3965 | Healthy(11.50) | AFQ-Y | CES-D |
| Black & Pössel, 2015 | 462 | Healthy(16.01) | RRSRSQ | 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 | CDIYSR |
| 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 | ADADSTAI-Y |
| Cerruti et al., 2017 | 240 | Healthy(11.80) | ERQ | CDIIAT |
| Chamizo-Nieto et al., 2020 | 835 | Healthy(15.60) | CERQ | DASS |
| Chan et al., 2015 | 785 | Clinical(15.03) | CERQ-k | BDI-IISCARED |
| Chen et al., 2019 | 1955 | Healthy(14.85) | ERQ | CES-D |
| Chervonsky & Hunt, 2019 (male sample) | 84 | Healthy(11.97) | ERQ | CES-DCSCAS |
| Chervonsky & Hunt, 2019 (female sample) | 148 | Healthy(11.97) | ERQ | CES-DCSCAS |
| Chun, 2016 | 351 | Healthy(13.50) | DERS | BSIK-Scale |
| Cohen et al., 2014 | 678 | Healthy(11.58) | CRSQ | CDIMASC |
| 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 | CDISAS-A Revised |
| Epkins, 2016 | 124 | Healthy(10.75) | AFQ-Y | BAI-YBDI-YSAS-A Revised |
| Epkins et al., 2013 | 125 | Healthy(10.46) | CRSQ | BAI-YBDI-Y |
| Erdur-Baker, 2009 | 250 | Healthy(15.37) | RRS | CDI |
| Estévez et al., 2017 | 472 | Healthy(15.60) | DERS | CAD-4QERIQERGSOGS-RA |
| Estévez et al., 2019 | 472 | Healthy(15.60) | CSI | QERIQERGSOGS-RA |
| Evans et al., 2020 | 238 | Healthy(8.90) | CRSQ | PROMISRPQSMFQ-C |
| Extremera et al., 2019 | 845 | Healthy(15.64) | CERQ | SAS-SV |
| Fernández-Berrocal et al., 2006 | 250 | Healthy(14.70) | WBSI | BDISTAI |
| 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 | QERGQERIQERM |
| 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 | BSIEBSPMPUS |
| Gullone & Taffe, 2012 | 827 | Healthy(13.93) | ERQ-CA | CDI |
| Gumpel, 2016 | 1116 | Healthy(14.00) | UCLA PTSD-RI | BDI-PCSVI |
| Gupta et al., 2004 | 157 | Mixed(14.58) | CISS | GAQ |
| Gutenbrunner et al., 2018 | 322 | Healthy(12.82) | CRSQ | CDI-2:SRRCMAS-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 | CDIMASC |
| 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-DSAHA |
| Jiang et al., 2020 | 713 | Healthy(13.36) | DERS-SF | CES-DCS |
| Jose & Weir, 2013 | 926 | Healthy(13.14) | RSQ | BAICDI |
| 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 | BSMASIGST-10SDHS |
| 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 | CBVEQPCS |
| 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-ASQAPMPU |
| 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) | DERSSPSI-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) | ERQDERS | BAIBDI-II |
| Lydon-Staley et al., 2019 | 151 | Healthy(14.60) | DERS-SF | RCADS-SV |
| Ma & Fang, 2019 | 1067 | Healthy(14.84) | ERQDERS | DASS |
| Malhi et al., 2017 | 112 | Healthy(15.27) | DERS | CDISTAI |
| Marks et al., 2010 | 317 | Healthy(16.10) | RTSQ | DASS |
| Masters et al., 2019 | 391 | Healthy(12.00) | DERS | SAS-ASMFQ-C |
| Mathews et al., 2014 | 90 | Healthy(13.40) | COPEDERS | SAS-ASCARED |
| McClain et al., 2020 (male sample) | 212 | Healthy(9.16) | ERQ-CA | YSRRCMAS-2 SF |
| McClain et al., 2020 (female sample) | 270 | Healthy(9.16) | ERQ-CA | YSRRCMAS-2 SF |
| Melero et al., 2020 | 336 | Healthy(9.65) | CERQ-k | CDISDQ |
| Mestre et al., 2019 | 318 | Healthy(11.25) | AFQ-YWBSI | 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 | CDISCARED |
| Muris et al., 2009 | 231 | Healthy(15.27) | CRSSRSS | RCADS |
| Namatame et al., 2020 | 389 | Healthy(10.30) | ERQ-CA | DSRSSCAS |
| Namatame et al., 2020 | 389 | Healthy(15.10) | ERQ-CA | CES-DSTAI |
| Neumann et al., 2010 | 197 | Healthy(14.34) | DERS | RADS-2SCAREDYSR |
| Nolen-Hoeksema et al., 2007 | 496 | Healthy (15.00) | RRS | CBCLK-SADS-PL |
| Orgilés et al., 2018 | 582 | Healthy(9.49) | CERQ-k | CDISTAI-C |
| Orue et al., 2014 | 1170 | Healthy(13.44) | CRSS | CES-DSAS-A |
| Özdemir et al., 2013 | 413 | Healthy(15.74) | SPSI-RSF | BPAQ-SFBSI |
| Padilla Paredes & Calvete, 2014 | 1316 | Healthy(13.42) | CRSS | CES-D |
| Papachristou et al., 2018 | 718 | Healthy(15.52) | AFQ-Y8 | SCAREDSCARED-R |
| Papadakis et al., 2006 | 223 | Healthy(14.50) | RSQ | CDI |
| Peled & Moretti, 2007 | 140 | Clinical (15.18) | ARSRSS | IMFAOCHS |
| Pepping et al., 2016 | 113 | Healthy(14.90) | ERQ-CA | DASS-21 |
| Poon et al., 2016 | 134 | Healthy(12.61) | DERS | CDICSIRCMAS |
| 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 | SCASSMFQ-C |
| Roelofs et al., 2009 | 770 | Healthy(12.90) | CRSS | CDISTAI-C |
| Rood et al., 2010 | 785 | Healthy(12.40) | CRSSSRRS-C | CDISTAI-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 | CDIMASC |
| Schneider et al., 2021 | 528 | Healthy(13.33) | DERS | CDI |
| Schweizer et al., 2020 | 382 | Healthy(12.57) | CRSQ | CDIMASQ |
| 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 | MFQSCAS |
| Somers et al., 2020 | 160 | Healthy(12.68) | CRSQ | CDI |
| Stewart et al., 2019 | 149 | Healthy(13.85) | RSQ | CES-DCMASC-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 | AUDITBDI-II |
| Willem et al., 2014 | 309 | Healthy(16.82) | RRS | AUDIT |
| Xavier et al., 2018 (female sample) | 407 | Healthy(14.55) | AFQ-YRRS-SF | DASS-21 |
| Xavier et al., 2018 (male sample) | 369 | Healthy(14.55) | AFQ-YRRS-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 withInternalizing Symptoms | HealthyClinicalMixed | 0.94 | 163518 | .43.35.41 | .40.21.31 | .45.47.51 |
| Maladaptive Strategies with all Symptoms | HealthyClinicalMixed | 0.39 | 195621 | .39.35.41 | .36.24.32 | .41.45.49 |
| Adaptive Strategies with all Symptoms | HealthyClinicalMixed | 3.24 | 137621 | -.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 withInternalizing Symptoms | < 1212-1516-18 | 7.00\* | 277115 | **.40**.49.49 | .34.46.45 | .47.53.53 |
| Rumination with Depression | < 1212-1516-18 | 6.61\* | 215012 | **.40**.51.49 | .32.46.42 | .47.55.55 |
| Rumination with all Symptoms | < 1212-1516-18 | 6.19\* | 307722 | **.39**.47.41 | .33.44.33 | .45.51.48 |
| Avoidance with all Symptoms | < 1212-1516-18 | 23.77\*\*\* | 15196 | .42.41**.25** | .31.32.14 | .51.49.36 |
| Problem-Solving with all Symptoms | < 1212-1516-18 | 2.02 | 13225 | -.19-.14-.21 | -.25-.20-.27 | -.12-.07-.14 |
| Maladaptive Strategies with Externalizing Symptoms | < 1212-1516-18 | 0.14 | 71910 | .22.19.21 | .11.14.09 | .32.25.33 |
| Maladaptive Strategies with Depression | < 1212-1516-18 | 4.54 | 337714 | .37.45.46 | .30.41.39 | .43.49.53 |
| Maladaptive Strategies with Anxiety | < 1212-1516-18 | 1.06 | 21375 | .40.41.44 | .32.36.41 | .47.46.48 |
| Maladaptive Strategies with all Symptoms | < 1212-1516-18 | 1.85 | 6113328 | .36.40.38 | .32.37.31 | .41.44.45 |
| Adaptive Strategies with Internalizing Symptoms | < 1212-1516-18 | 11.88\*\* | 42758 | **-.14**-.27-.19 | -.19-.31-.28 | -.10-.22-.10 |
| Adaptive Strategies with Depression | < 1212-1516-18 | 6.29\* | 28456 | **-.17**-.27-.21 | -.21-.33-.32 | -.13-.22-.09 |
| Adaptive Strategies with all Symptoms | < 1212-1516-18 | 7.98\* | 4610810 | **-.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.