

# **Adolescent mental health**

# A systematic review on the effectiveness of school-based interventions

**Appendices to the report** 

July 2021

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# About this document

This document provides appendices to the EIF report *Adolescent mental health: A systematic review on the effectiveness of school-based interventions*, published in July 2021.

These appendices should not be read without referring to the main report for background and a summary of findings.

# **About EIF**

The Early Intervention Foundation (EIF) is an independent charity established in 2013 to champion and support the use of effective early intervention to improve the lives of children and young people at risk of experiencing poor outcomes.

Effective early intervention works to prevent problems occurring, or to tackle them head-on when they do, before problems get worse. It also helps to foster a whole set of personal strengths and skills that prepare a child for adult life.

EIF is a research charity, focused on promoting and enabling an evidence-based approach to early intervention. Our work focuses on the developmental issues that can arise during a child's life, from birth to the age of 18, including their physical, cognitive, behavioural and social and emotional development. As a result, our work covers a wide range of policy and service areas, including health, education, families and policing. EIF IS PROUD TO BE A MEMBER OF THE WHAT WORKS NETWORK



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The aim of this report is to support policymakers, practitioners and commissioners to make informed choices. We have reviewed data from authoritative sources but this analysis must be seen as a supplement to, rather than a substitute for, professional judgment. The What Works Network is not responsible for, and cannot guarantee the accuracy of, any analysis produced or cited herein.

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To download the full report, visit: https://www.eif.org.uk/report/adolescent-mental-health-a-systematic-review-on-the-effectiveness-of-school-based-interventions

# **Appendix A.1: Promotion**

#### Notes

- See page 120 for a detailed glossary and list of abbreviations used in these tables, and page 121 for full references for listed reviews and studies.
- Where these tables mention significant effects, this refers to the intervention group experiencing a significantly larger effect than the control group in the desirable direction.
- Significant effects can be improvements in positive outcomes (such as wellbeing or resilience) or reductions in symptoms (such as depression or anxiety). Where the intervention group experienced significantly worse outcomes than the control group, these are listed as 'adverse' effects.
- Effects (for meta-analyses: pooled effects) were deemed significant where p was less or equal than 0.05 regardless of the significance level applied by individual studies.

## **Table of systematic reviews**

Systematic rev	iews of me	ental health p	romotion and wellbe	ing intervention	IS		
Reference	eference Analysis Quality assessme rating		Inclusion criteriaExclusion1 Population/age rangecriteria2 Interventions3 Study design4 Outcomes assessed		Time Number frame of studies included in review		Results
<b>Baños et al., 2017</b> Online positive interventions to promote wellbeing and resilience in the adolescent population: a narrative review	Narrative synthesis	Moderate	<ol> <li>Adolescents</li> <li>Universal online positive psychology interventions</li> <li>RCTs</li> <li>Wellbeing, resilience</li> </ol>	<ul> <li>Review articles</li> <li>Non-English papers</li> </ul>	Up to April 2016	9	<ul> <li>No pooled effect size provided:</li> <li>Overall limited evidence</li> <li>What evidence there is shows that digital positive psychology interventions had limited effects, in particular for at-risk groups.</li> </ul>
Chiș & Rusu, 2019 School-based interventions for developing emotional abilities in adolescents: a systematic review	Narrative synthesis	Weak	<ol> <li>11–19 years</li> <li>School-based emotional intelligence interventions</li> <li>RCTs, QEDs</li> <li>Emotional abilities</li> </ol>	<ul> <li>Non-English papers</li> <li>Non- mainstream schools</li> </ul>	2000- 2018	13	No pooled effect size provided: • Emotional abilities training is related to positive educational, behavioural and developmental outcomes.

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Systematic reviews	of mental healt	h promotion and	wellbeing interventions (cont	.)			
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
<b>Cilar et al., 2020</b> Effectiveness of school-based mental wellbeing interventions among adolescents: a systematic review	Narrative synthesis	Moderate	<ol> <li>10-19 years</li> <li>School-based interventions for developing young people's mental health and wellbeing</li> <li>Any research design</li> <li>Mental wellbeing</li> </ol>	<ul> <li>Non-English/ German/ Slovenian/ Croatian papers</li> <li>Treatment for young people with clinical disorders</li> </ul>	Up to March 2019	57	No pooled effect size provided: • School-based interventions can improve wellbeing although a large proportion of interventions had no effects on one, several or all outcomes.
<b>Curran &amp; Wexler,</b> <b>2017</b> School-based positive youth development: a systematic review of the literature	Narrative synthesis	Weak	<ol> <li>11-18 years</li> <li>School-based positive youth development (PYD)</li> <li>Any research design</li> <li>Any outcome</li> </ol>	No exclusion criteria reported	'After 2000', unclear to which date, possibly 2014/15	24	<ul> <li>No pooled effect size provided:</li> <li>Effect sizes were largest in classroom based PYD interventions and effects stronger in those adolescents at risk of antisocial behaviour.</li> </ul>
Grant, 2012 A meta-analysis of school-based interventions for middle schoolers: academic, behavioural and social outcomes	Meta- analysis	Moderate	<ol> <li>10-14-year-old US residents</li> <li>School-based interventions targeting academic, behavioural or social outcomes</li> <li>RCTs, QEDs</li> <li>Academic, behavioural or social outcomes</li> </ol>	<ul> <li>After school settings</li> <li>Residential settings for specialised populations</li> </ul>	Not reported	45 (narrative synthesis) 38 (meta- analysis	<ul> <li>Weighted mean effect size across academic, behavioural, and social outcomes: d=0.178 (l²=81.93%).</li> <li>13 interventions were universal, 7 targeted selective, and 18 targeted indicated.</li> <li>Samples: Mostly African American or Black (n=13), Caucasian (n=11) or diverse (n=18); 7 studies were conducted in schools where &gt;76% of students were eligible for FSM; 15 studies involved at-risk students.</li> </ul>

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Kuosmanen, Clarke & Barry, 2019 Promoting adolescents' mental health and wellbeing: evidence synthesis	Narrative synthesis	Moderate	<ol> <li>10-19 years</li> <li>Interventions that promote wellbeing, or prevent behavioural or emotional problems, or suicide and self-harm</li> <li>RCTs, QEDs</li> <li>Wellbeing or mental health outcomes</li> </ol>	Treatment interventions	2005- Sept 2017	66	<ul> <li>No pooled effect size provided:</li> <li>Evidence of effectiveness for (i) universal school-based interventions that promote the development of social and emotional skills, (ii) universal prevention programmes for problems such as bullying and anxiety, (iii) targeted interventions to prevent depression.</li> <li>Limited evidence of effective suicide prevention, digital and community-based interventions.</li> </ul>
McKeering & Hwang, 2019 A systematic review of mindfulness- based school interventions with early adolescents	Narrative synthesis	Strong	<ol> <li>11-14 years</li> <li>School-based universal mindfulness-based interventions</li> <li>Any research design</li> <li>Any outcome</li> </ol>	<ul> <li>Non-English papers</li> <li>Non-peer reviewed literature; targeted interventions</li> </ul>	Up to October 2017	13	<ul> <li>No pooled effect size provided:</li> <li>Inconclusive evidence of effectiveness.</li> <li>Detailed qualitative discussion of factors that facilitate (teachers' ability to embody mindfulness, collaboration among teachers, support from administrators and parents, relaxing physical environment, students' willingness to learn) and hinder successful implementation (time pressure, crowded curriculum content, students' disengagement).</li> </ul>
Patafio et al., 2021 A systematic mapping review of interventions to improve adolescent mental health literacy, attitudes and behaviours	Narrative synthesis	Moderate	<ol> <li>12–18 years</li> <li>Interventions that aim to improve mental health literacy, attitudes and/or behaviours</li> <li>RCTs, QEDs</li> <li>Mental health literacy, attitudes towards mental illness or the seeking of mental health treatment, and/or mental health behaviours</li> </ol>	No exclusion criteria reported	Up to February 2020	140	No pooled effect size provided: • Intervention effectiveness varied across outcomes measured, setting, and control group usage, with mental health knowledge improving most frequently; common limitations included no long- term follow-up or control group inclusion.

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Seedaket et al., 2020 Improving mental health literacy in adolescents: systematic review of supporting intervention studies	Narrative synthesis	Moderate	<ol> <li>10-19 years</li> <li>Interventions to improve mental health literacy</li> <li>Any research design</li> <li>Mental health literacy outcomes</li> </ol>	No exclusion criteria reported	2009-Dec 2019	7	No pooled effect size provided: • Interventions most effective in improving young people's mental health knowledge; followed by attitudes or stigma; only one of 4 studies that measured help-seeking reported a positive outcome for this mental health literacy component.
Tejada-Gallardo et al., 2020 Effects of school-based multicomponent positive psychology interventions on well-being and distress in adolescents: a systematic review and meta-analysis	Meta- analysis	Moderate	<ol> <li>10-18 years</li> <li>Universal positive psychology interventions that target at least 2 components of wellbeing</li> <li>RCTs, QEDs</li> <li>Wellbeing or mental health outcomes</li> </ol>	<ul> <li>Non-English/ Spanish papers</li> <li>Clinical populations</li> <li>Single component interventions</li> </ul>	Up to July 2019	9	<ul> <li>Pooled effect size (random effects):</li> <li>Subjective wellbeing: g=0.25, across 6 studies, l²=490.09; excluding weak studies: g=0.21, l²=62.91.</li> <li>Psychological wellbeing: g=0.25, across 5 studies, l²=82.29; excluding weak studies: result was nonsignificant.</li> <li>Depression symptoms: g=0.28, across 4 studies, heterogeneity nonsignificant; excluding weak studies: g=0.34, heterogeneity nonsignificant.</li> <li>Anxiety symptoms: g=0.14, across 4 studies, heterogeneity nonsignificant; excluding weak studies: g=0.15, heterogeneity nonsignificant.</li> <li>Follow-up:</li> <li>Psychological wellbeing: g=0.44, across 3 studies; excluding weak studies: result was nonsignificant.</li> <li>Depression symptoms: g=0.31, across 3 studies; excluding weak studies: g=0.21.</li> <li>Anxiety symptoms: g=0.15, across 3 studies, heterogeneity nonsignificant; excluding weak studies: g=0.21.</li> </ul>

Systematic reviews	of mental healt	h promotion and v	wellbeing interventions (cont	.)			
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Van de Sande et al., 2019 Do universal social and emotional learning programmes for secondary school students enhance the competencies they address? A systematic review	Meta- analysis	Strong	<ul> <li>5 11–19 years</li> <li>6 Universal secondary school-based SEL interventions targeting two or more SEL outcomes</li> <li>7 RCTs, QEDs</li> <li>8 Studies report on a minimum of two of the following outcomes: self-awareness, self-management, responsible decision-making, relationship skills, social awareness</li> </ul>	<ul> <li>Non peer- reviewed literature; non- English/ Dutch/German papers; targeted interventions; primary/ tertiary educational settings</li> </ul>	2004– 2018	40	<ul> <li>Pooled effect size (random effects): I<sup>2</sup>&gt;99.6% for all outcomes:</li> <li>Self-awareness (d=0.42 across 9 studies, 7,078 participants).</li> <li>Social awareness (d=0.58, across 5 studies, 2,562 participants).</li> <li>Self-management (d=0.39, across 17 studies, 8,823 participants).</li> <li>Decision-making (d=0.34, across 6 studies, 6,316 participants).</li> <li>Relationship skills (d=0.24, across 11 studies, 11,588 participants).</li> <li>Promotional effects on psychosocial outcomes were larger than preventative effects on:</li> <li>Depression (d=0.31, across 19 studies, 19,408 participants).</li> <li>Anxiety (d=0.27, across 8 studies, 5,808 participants).</li> <li>No mean effect size provided for follow-up; most of the significant follow-up effects in the studies reviewed were found for self-management and relationship skills.</li> </ul>

# **Appendix A.2: Promotion** Table of primary studies

Allen et al.	Description									
(2020) The Connection Project	sessions are organised context, developing/enh peer relationships. Activ enhance youths' sense of	into three phases: esta nancing a sense of soci vities include values aff of social belonging, vig ' where students becor	escent peer relationships. The blishing buy-in and a safe peer al belonging and consolidating irmation, activities designed to nettes from older students, and ne the focal students and peers tudent.	Facilitator: Youth group leaders Format: Group sessions of 5–15 students	Duration and frequency: Twelve 45–60-minute sessions held once per week	Booster: No	Quality assessmen 2			
	Study Design	Results								
	RCT Country: US Total sample size: 610 high school students 14.9% attrition at FU 50.9% female Mean age: Not	Psychosocial wellbeing	Significant increase in peer- In a time-course analysis, th with a tool created for this so Significant effect on using so intervention. In a time-course p=0.05) (Social Support Sca Significant effect on comfor classmates increased significant p<0.050) at both timepoints	e intervention led to an inc tudy, where the control gro cocial support as a coping as analysis, the interventio le from the Self-report Cop rt with classmates at post ficantly in both the intervention	crease in peer-rated appro oup rated the approachabil strategy at four-month fo n led to an increase in use bing Scale). -intervention (p<0.010) ar ntion and control group (p	bachability over time ity of intervention gro Ilow-up (p<0.050), bu e of social coping beh ad four-month follow- post-intervention p<0.	(B=0.09, p=0.04) (measure up members). t no significant effect post naviour over time (B=0.54, up (p<0.001). Comfort with			
	reported <b>Control:</b> Usual care (regular health class)	Psychological wellbeing	<ul> <li>Significant effect showing improvements on depression at four-month follow-up (p&lt;0.050), but no significant effect post-intervention. In a time-course analysis, the intervention led to a decrease in depressive symptoms over time (B=-0.59, p=0.028) (<i>The Child Depression Inventory</i>).</li> <li>Significant mediation effect at four-month follow-up showing increased use of social support significantly decreased depression scores (β indirect effect =-0.01, 95%CI [-0.0003, -0.035]).</li> <li>At post-intervention, significant interaction between gender and intervention was found on depressive symptoms (β=0.09, p=0.009), although follow-up analyses revealed no significant effect for males or females.</li> </ul>							
		Academic	Significant effect on acaden time-course analysis, the int Disaffection Scale). • Significant mediation effect	tervention led to an increa	se in academic engageme	ent over time (B=0.44	, p=0.020) (Engagement vs			

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arissoli & Villani	Description									
(2019) EmotivaMente programme	<b>Target level:</b> Universal The EmotivaMente prog promote students' emot students to recognise th develop awareness abo recognise inter-individua	tional intelligence. Video neir emotional reactions ut the physiological com	games are used to help	Facilitator: Not reported Format: Students completed group (group size not reported) and individual activities	Duration and frequency: Eight 90-minute laboratory sessions scheduled during the regular school day; six weekly sessions followed by two follow-up laboratories three months later	Booster: No	Quality assessment: 3			
	Study Design	Results								
	QED Country: Italy Total sample size: 121 9.9% attrition at FU 84.3% female Mean age: 14.1 years Control: Wait-list control	Psychosocial wellbeing	No significant effect at th • No significant effect on e • No significant effect on motions of the significant effect on the significant effect effect effect effect on the significant effect e	essment and expression of iree-month follow-up. valuation and expression o egulation and use of emotio onal regulation ( <i>Emotion Re</i> hitive reappraisal (η <sup>2</sup> =0.033	emotions in relations to the f emotions in relation to cons. Equiation Questionnaire – , p=0.040) at three-month	ne self post-intervention thers. <i>Italian Version</i> ). follow-up. No results re				

Coelho et al.	Description									
(2017a) Positive Attitude	competencies. The prog and self-management, s management, and respo two of the four possible	gramme covers module social awareness, relation onsible decision-making themes are developed	. In the majority of sessions,	Facilitator: Psychologists, in the presence of the class teacher Format: Usual classrooms, group-based sessions with 16–25 students	Duration and frequency: Thirteen weekly 45-minute sessions which take place within the same school year	Booster: No	<b>Quality assessmen</b> 2 Intervention also evaluated by Coelho et al. (2017b)			
	Study Design	Results								
	QED Country: Portugal Total sample size: 628 students from six middle schools 2.1% attrition at FU 50.1% female Mean age: 13.5 years Control: No intervention	Psychosocial wellbeing	Significant effect on the soc Portuguese adaption). • Significant effect on socia found girls in the interven control group (p<0.001, d=	scores in intervention g social awareness com	roup. Sub-analyses pared to girls in the					
	50.1% female Mean age: 13.5 years Control: No		<ul> <li>(students in the lowest quintervention (p=0.006, d=0</li> <li>Significant effect on self-or</li> <li>Significant effect on social found girls in the intervention d=0.29). No significant effect on let</li> </ul>	artile for social awareness 0.62). control subscale (p<0.001, al isolation subscale (p=0.0 tion group had significantly fect of gender noted for bo	s) showed greatest improv d=0.030); increased score 036, d=0.21); decreased so y greater improvements co	es in the intervention gr cores in the intervention	most from the oup. n group. Sub-analyses			

Universal promotior	n interventions using an SE	L approach (cont.)							
Coelho et al.	Description								
(2017b) Positive Attitude	competencies. The prog and self-management, s management, and respo two of the four possible	gramme covers modules ir social awareness, relations	ship skills and conflict n the majority of sessions, cording to an initial	Facilitator: Psychologists, in the presence of the class teacher Format: Usual classrooms, group-based sessions with 16–25 students	Duration and frequency: Thirteen weekly 1-hour sessions which take place within the same school year	Booster: No	Quality assessmen 3 Intervention also evaluated by Coelho et al. (2017a)		
	Study Design	Results							
	Study Design QED Country: Portugal Total sample size: 746 students from six middle schools 40.1% attrition at FU 46.3% female Mean age: 13.4 years Control: No intervention	Psychosocial wellbeing	<ul> <li>Significant effect on self-rep (BAS-3) – Portuguese adapt</li> <li>Significant effect on social intervention and seven-mo- more from the intervention</li> <li>Significant effect on self-co- intervention and seven-mo- Significant effect on teacher Evaluation Questionnaire – T</li> <li>Significant effect on social post-intervention and seven- compared to 7th graders ( students from rural schoo)</li> <li>Significant effect on self-co- intervention and seven-mo-</li> </ul>	ion). I-awareness subscale ove onth follow-up. A significant in than urban students acro- ontrol subscale over time onth follow-up. r-reported social-emotiona <i>Teacher's version (QACSE-I</i> ) I-awareness subscale ove en-month follow-up. Signifi $\beta$ =2.48, p<0.001) and 8th Is showed a more pronour ontrol subscale over time	r time ( $\beta$ =-0.19, p=0.039) nt interaction effect ( $\beta$ =-0. loss the whole measureme ( $\beta$ =-0.30, p=0.016) result al competencies post-inte P)). r time ( $\beta$ =-1.96, p<0.001) icant interaction effect sh graders ( $\beta$ =1.66, p=0.001) iced decrease than stude	resulting in significant im 26, p=0.029) indicated ru int period. ing in significant improve rvention (Social and Emot resulting in significant im owed smaller improveme . A significant interaction nts from urban schools (f	approvements at post- ral students gained ments at post- <i>tional Competencies</i> approvements at nts for 9th graders effect indicated 3=-2.21, p<0.001).		
		Subjective wellbeing	Significant effect on self-est seven-month follow-up ( <i>Glo</i>						

Universal promotion	interventions using an SEI	_ approach (cont.)								
Flynn et al. (2018)	Description									
Dialectical Behaviour Therapy Skills Training for Emotional Problem	dialectical behaviour the skills which will aid them especially when experien with a mindfulness exerc	n with their decision-makir ncing emotionally stressfu	ne aims to teach students ng and coping strategies, Il times. Each lesson starts udents are taught new skills	Facilitator: Classroom teachers Format: Usual classrooms	<b>Duration and</b> <b>frequency:</b> 22 weekly classes during the normal school timetable	Booster: No	Quality assessment: 3			
Solving for Adolescents	Study Design	Results								
(DBT STEPS-A)	QED Country: Ireland Total sample size: 72 students from two Irish post-primary schools in Ireland	Psychosocial wellbeing	No significant effect on DBT skills ( <i>DBT Ways of Coping Checklist (DBT-WCCL</i> )). No significant effect on dysfunctional coping ( <i>DBT Ways of Coping Checklist (DBT-WCCL</i> )).							
	Attrition not reported 100% female Mean age: 15.3 years Control: No intervention	Psychological wellbeing	significant reduction in symp Significant effect on internal	ant effect on emotional symptoms post-intervention (Cohen's F <sup>2</sup> =0.65, p=0.013). Intervention group experienced ant reduction in symptoms ( <i>Second Edition of Behaviour Assessment System for Children (BASC-2)</i> ). ant effect on internalising problems post-intervention (Cohen's F <sup>2</sup> =0.83, p=0.0125). Intervention group experienced ant reduction in problems ( <i>Second Edition of Behaviour Assessment System for Children (BASC-2)</i> ).						

Kelley et al. (2021)	Description						
ducation and Resilience Training (iHEART)	<b>Target level:</b> Universal iHEART is a structured programme that aims to improve wellbeing and resilience. It is based on the 'three principles' approach to mental health programmes, focusing on how mind, thought and consciousness are related and allow mental health to flourish. The programme is delivered across ten sessions. The first six sessions are based on the topic of 'how the mind works' and teaches pupils about their own psychological systems and how these affect thought processes and feelings. The next four sessions are focused on applying this learning to real-life situations including exam stress, anxiety, managing social media, and bullying. The programme is delivered in groups using a combination of modalities including aminations, video clips, exercises, games, and practical group-based activities. Students also have access to programme materials via an online learning portal.			Facilitator: Two trained programme providers Format: Classroom-based delivered as part of core learning on health, relationships and sex education	Duration and frequency: Ten 50-minute sessions delivered once per week over 10 weeks	Booster: No	Quality assessment
	Study Design	Results					
	QED Country: England Total sample size: 205 students from six secondary schools in London	Subjective wellbeing	Significant effect on wellbeing (n <sup>2</sup> = 0.04, p = 0.002). Intervention group showed small increase post-intervention (r = 0 mean increase = 0.10 points). ( <i>The Warwick-Edinburgh Mental Wellbeing Scale (WEMWBS</i> )) Significant effect on resilience (n <sup>2</sup> = 0.04, p = 0.001). Intervention group showed small improvements post-intervention mean decrease = 0.19 points). ( <i>Purpose designed questionnaire - The Inside-Out Resilience Questionnaire (I-ORQ)</i> )				
	Attrition not reported 5.9% female Age range: 11–15 years Control: Wait-list control	Psychosocial wellbeing					

Description						
Each lesson addresses understanding boundari activities, practice skills a variety of cognitive be and mindfulness techni regulation, social comp generalised learning exp journalling, and lesson a discussions, role playing	SEL@MS aims to increase students' social-emotional competencies. Each lesson addresses a specific SEL concept, such as self-regulation, understanding boundaries, or recognising manipulative behaviours. Interactive activities, practice skills and strategies included in the programme incorporate a variety of cognitive behavioural techniques, expressive art, and metacognition and mindfulness techniques that are geared towards improving emotional regulation, social competence, self-awareness and motivation through a generalised learning experience. All instructional blocks incorporate student journalling, and lesson activities can include individual reflection, group discussions, role playing and self-assessments. Lessons also include take- home memos for parents that outline SEL instructions on how to foster these skills at home.			Duration and frequency: 25-minute lessons that can be delivered once or twice per week. In year one, 8 weeks of the programme were completed and in year two, 12 weeks were completed	Booster: No	Quality assessmen 2
Study Design	Results					
QED Country: US Total sample size: 59 students from one urban private school 8.5% attrition at FU 48% female Mean age: 12.7 years Control: No intervention	Psychosocial wellbeing	Significant effect on teacher η2=0.245) (Social Emotional · Significant effect on teacher · Significant effect on teacher · Significant effect on teacher · Significant effect on teacher No significant effect on stud Emotional Assets and Resilier	Assets and Resilience Sc er-rated self-regulation (p er-rated social-competen- er-rated empathy (p=0.00 er-rated responsibility (p< ent-rated social and emo	cales – Teacher Rated (SEA <0.001, η2=0.247). ce (p=0.019, η2=0.112). 2, η2=0.193). :0.001, η2=0.308). tional assets and resilience	RS-T)).	·

Universal promotion	interventions using an SEI	L approach (cont.)								
Muratori et al.	Description									
(2020) Coping Power Universal (CPU)	competencies. The prog throughout the program activities, and the establ Programme modules ind the implementation of fe	lishment of a behavioural of clude: the achievement of	f a story as a guide actic and experience-based contract agreed with pupils. short- and long-term goals, nal regulation, perspective-	Facilitator: Teachers; CPU trainers provided supervision during programme implementation Format: Usual classroom of 25–30 students	Duration and frequency: 24 sessions delivered between September and May; sessions take place during school day	Booster: No	Quality assessment: 1			
	Study Design	Results								
	RCT Country: Italy Total sample size: 839 7th and 8th graders from 40 school classrooms in an urban context 4.1% attrition at FU 51% female Mean age: 13.2 years Control: No intervention	Behaviour	Significant effect for teacher internalising scores (ES=0.1 (SDQ) – Italian version). Significant effect for parent- internalising scores (ES=0.2 (Strengths and Difficulties Q	7, p=0.004) and prosocial -rated emotional and beha 23, p=0.007), externalising	behaviour (ES=0.36, p=0. viour difficulties post-inte scores (ES=0.14, p=0.043	003) (Strengths and Diffice	ulties Questionnaire ovements in			

#### Universal promotion interventions using an SEL approach (cont.)

Pannebakker et al. (2019) The Dutch Skills for Life Programme (S4L)

### Description

#### Target level: Universal

Skills for Life aims to promote students' social emotional development and prevent mental health problems. The programme is delivered over two years with generic skills being taught first (raising students' awareness of their thoughts, feelings and behaviours, interpersonal problem solving, emotional regulation skills and critical thinking). Following the teaching of these skills, problem-specific skills are taught such as giving and seeking help, dealing with bullying, and setting and respecting boundaries. Skills are applied to six themes: substance abuse, gambling, conflicts, gossip, bullying and sexuality. The second-year lessons addressed three themes: 'dealing with emotional problems and suicidal tendencies', 'dealing with aggression' and 'presenting yourself'.

Facilitator: Teachers Format: Usual classroom

The programme is delivered over two consecutive school years: 17 weekly one-hour lessons in year one and 9 weekly lessons in year two

Duration and

frequency:

#### Booster: Teachers received booster training

Quality assessment: 2

2

Study Design	Results	
Cluster RCT Country: Netherlands Total sample size: 1,505 students from 26 schools 66% attrition at FU	Psychosocial wellbeing	<ul> <li>No significant effect on social interaction (<i>The frequency questions of the Scale for Interpersonal Behaviour for Adolescents</i> (<i>SIG-A</i>)).</li> <li>Significant effect on self-efficacy at 20-month follow-up (Hedges' g=0.18, p=0.030), but no significant effect post-intervention (<i>10-items Generalized Self-Efficacy Scale (GSES</i>)).</li> <li>Self-efficacy significantly increased over time for students in the lower educational group (vocational training), but not for students in the higher educational group (university preparatory level) (Hedges' g=0.20, p=0.050).</li> </ul>
47% female <b>Mean age:</b> 14.2 years	Subjective wellbeing	No significant effect on self-esteem (Rosenberg Self-Esteem Scale (RSE) – Dutch version).
Control: Wait-list control	Psychological wellbeing	<ul> <li>Significant effect on depressive symptoms at 20-month follow-up (Hedges' g=-0.26, p=0.02), but no significant effect post-intervention (<i>Beck Depression Inventory (BDI</i>)).</li> <li>Depressive symptoms significant decreased over time for students in the lower educational group (vocational training) but not for students in the higher educational group (university preparatory level) (Hedges' g=-0.41, p=0.001).</li> </ul>
	Behaviour	<ul> <li>No significant effect on self-reported problematic behaviour (<i>Strengths and Difficulties Questionnaire (SDQ) – Dutch version</i>).</li> <li>Significant effect on teacher-rated problematic behaviour at 20-month follow-up (Hedges' g=-0.35, p=0.001), but no significant effect post-intervention (Strengths and Difficulties Questionnaire (SDQ) – Dutch version).</li> <li>Teacher-ratings of problematic behaviour significantly decreased over time for students in the lower educational group (vocational training) but not for students in the higher educational group (university preparatory level) (Hedges' g=-0.41, p=0.001).</li> </ul>

Universal promotion	interventions using an SEI	L approach (cont.)							
Schoeps et al. (2018)	Description								
PREDEMA	wellbeing and to prevent on basic emotional abili- using and understanding management in differen are also discussed, such	me aims to improve studer t bullying behaviour. The pr ties, including perceiving, la g emotions. Next, it targets t contexts and situations. ( n as personal and global va venting interpersonal confl	ogramme starts by focusing abelling, expressing, emotion regulation and Complementary issues Ilues, responsibility and	Facilitator: Psychologists Format: Delivered to six classes of 25–30 students; each week students were given home practice activities	Duration and frequency: Eleven 50-minute sessions during school hours, delivered over a period of three months	Booster: No	Quality assessment: 3		
	Study Design	Results							
QED Country: S Total sam	QED Country: Spain Total sample size: 148 students	Psychosocial wellbeing	Significant effect on emotior significantly higher on percei on expressed emotions (Emo	emotions (d=0.61, p<0.001	1). No significant effect				
	from four high schools in Valencia <b>43% attrition at FU</b> 57% female	Subjective wellbeing	Significant effect on life satisfaction at six-month follow-up (d=0.22, p=0.020), but not at post-intervention (Satisfaction With Life Scale (SWLS)).						
Mean age: 12.6 years Control: Other intervention proposed by the school (o g. school		Bullying perpetration	Significant effect on cyber-bullying aggression post-intervention (d=-0.60, p<0.001) maintained to six-month follow-up (d=0.38, p=0.010) ( <i>Cyberbullying Aggression Scale (CYB-AG)</i> ).						
school (e.g. school counselling or peer mediation programmes)	counselling or peer mediation	Bullying victimisation	Significant effect on cyber-bu (Cyberbullying Victimisation S		st-intervention (d=-0.52, p	<0.001), but not at six-mo	onth follow-up		

Universal promotion	interventions using an SE	L approach (cont.)					
Sinyor et al. (2020)	Description						
Harry Potter- based CBT Curriculum	<b>Target level:</b> Universal The programme aims to enhance students' resilience and prevent symptoms of depression and anxiety. Students read the Harry Potter novels and learn CBT skills along with the main characters. It involves nine modules that follow the Harry Potter books' narratives: 1) Psychoeducation A (risk factors for emotional distress); 2) Psychoeducation B (understanding depression and its treatment); 3) Introduction to Cognitive Distortions; 4) Introduction to CBT treatment; 5) Key CBT skills (fear hierarchies, behavioural activation, managing cognitive distortions, identifying core beliefs); 6) Psychoeducation (handling setbacks); 7) Putting learned CBT skills into practice; 8) Advanced Management of Cognitive Distortions/ Core Belief Work; and 9) Relapse Prevention/Consolidation of Learning.			Facilitator: English teachers Format: Five classes taught by four teachers (one semester) and 13 classes taught by 11 teachers (one semester, one year later)	Duration and frequency: Most teachers completed the curriculum in 8-12 weeks.	Booster: No	Quality assessment: 3
	Study Design	Results					
	QED Country: Canada Total sample size: 594 students from middle schools in one small, rural, publicly funded school board area in Eastern Ontario 0% attrition at FU 51.9% female Mean age: 12.6 years Control: No intervention	Psychosocial wellbeing	No significant effect on well No significant effect on resil				

Universal promotion	interventions using an SEI	L approach (cont.)					
Veltro et al. (2020)	Description						
Psycho- educational intervention for promoting psychological well-being and emotional intelligence at school	<b>Target level:</b> Universal The programme aims to promote students' psychological wellbeing and emotional intelligence. Lessons address skills such as defining personal goals, using structured problem solving, adopting effective communication skills, using negotiation for improving interpersonal relationships, coping with stress and anger, resolving conflict, and recognising and modifying negative dysfunctional beliefs that precede, accompany and follow unpleasant emotions. The programme comprises a 'peer-to-peer student approach', supervised by trained facilitators.			Facilitator: Trained programme facilitators (psychologists and pedagogists) Format: Usual classrooms and homework, assignments performed using the notebook	Duration and frequency: One-hour sessions per week for 20 weeks	Booster: No	Quality assessment: 3
	Study Design	Results					
	QED Country: Italy Total sample size: 276 students from 12 classes across 3 schools 0% attrition 51% female Mean age: 12.7 years Control: Not reported	Psychosocial wellbeing	<ul> <li>improvements in both the improvements in both the improvements in both the improvements in the improvements of the improvements of the improvements of the improvement of the i</li></ul>	not between groups on emotional intelligence post-intervention (p<0.010). Significant tervention (p=0.001) and the control (p=0.001) groups ( <i>Index of Emotional Intelligence (IEI</i> )). not between groups on social and emotional skills post-intervention, including goal definition <i>v</i> e feelings (p<0.010), making requests (p<0.01), expressing unpleasant feelings (p<0.010), active lem solving (p<0.050). were observed in the intervention group for goal definition (p=0.027), expressing positive feelings s (p<0.001), expressing unpleasant feelings (p<0.001), active listening (p<0.001) and problem on the control group, apart from problem solving where a significant worsening of scores was <i>ning Abilities Questionnaire</i> ).			
		Mental health literacy	Significant effect within but <0.050). Pre- to post-interver (Inventory Idea Questionnaire	ntion improvements were			

Universal promotion interventions using a positive psychology approach										
Freire et al. (2018)	Description									
Challenge: To Be+ program	to supporting positive yo main topics: positive em Each session includes s	rogramme adopts a positiv buth development. The prog otions, character strengthe everal structured activities d/or interactive group work	gramme focuses on three s and optimal experiences. (oral or written), involving	Facilitator: Psychologist (Masters' students) Format: Group-based with 13 students per group	Duration and frequency: Eight-week sessions of 90 minutes each (one session per week)	Booster: No	Quality assessment: 2			
	Study Design	Results								
	QED Country: Portugal Total sample size: 104 students from one school 4.8% attrition at FU 56% female Mean age: 14.3 years Control: No	Subjective Wellbeing	<ul> <li>No significant effect on self-concept post-intervention (<i>Piers-Harris children's self-concept scale – Portuguese vers</i>.</li> <li>Gender was a significant predictor of self-concept (β=-3.142, p&lt;0.050) with girls, more than boys, having increase intervention.</li> <li>Significant effect on self-esteem post-intervention (F=4.364, p&lt;0.050) (<i>Rosenberg Self-esteem Scale – Portuguese</i>.</li> <li>Gender was a significant predictor of self-esteem (β=-2.443, p&lt;0.050) with girls, more than boys, having increase intervention.</li> <li>Significant effect on life satisfaction (F=-5.721, p&lt;0.050) (<i>Life Satisfaction Scale – Portuguese version</i>).</li> <li>Gender was a significant predictor of life satisfaction (β=-2.852, p&lt;0.010) with girls, more than boys, having increase intervention.</li> </ul>							
	intervention	Psychological Wellbeing	No significant effect on psyc • Gender was a significant pr levels post-intervention.			-	,			

as et al.	Description									
019) ppy rooms amme – Brief sion	psychological wellbeing, school aggression. HCP as guiding principles for version of the interventio 25 transcendence activit receive training in how to learning about (1) theore evidence of the benefits	Programme (HCP) aims to foster positive classroom relies on mindfulness and intervention content. This on, which contained 13 min ties (that is, character stree o deliver and facilitate the etical foundations of mindf on wellbeing, and (2) expenses and character strengths of	climate, and reduce character strengths study evaluates a brief ndfulness activities and ngth activities). Teachers activities. This includes fulness and empirical eriential practice in the	Facilitator: Teachers Format: Class-based (group size not reported)	<b>Duration and frequency:</b> Programme delivered over 18 weeks; activities were practised for approximately 5 minutes at least twice per week; estimated total intervention time was 18 week × 2 sessions × 5 minutes = 180 minutes – however, there was large variability among the duration actually delivered	Booster: No	Quality assessment 2			
	Study Design	Results								
	QED Country: Spain Total sample size: 524 students from five public high schools 50.2% female Mean age: 13.6 years Control: No intervention	Subjective wellbeing	were medium-high, mean 0.40, SE = 0.16, p = 0.011 No significant effect on s Significant effect on satis Scale). Significant effect on emo	ning improvements assoc ) (the Spanish version of t elf-esteem over time (the sfaction with life over time tional intelligence (the Sp emotional repair subscal emotional attention subs		ed by pre-existing mino If-esteem Scale). anish version of the Sa	dfulness skills			
		Psychosocial wellbeing	<ul> <li>Significant effect on psychological need (<i>the Psychological Needs Satisfaction Scale in Education</i>):</li> <li>Significant effect on relatedness subscale (β=0.31, SE=0.12, p=0.008).</li> <li>No significant effect on autonomy subscale.</li> <li>No significant effect on competence subscale.</li> <li>No significant effect on empathy (<i>the Spanish version of the Index of Empathy for Children and Adolescents</i>).</li> <li>Significant effect on classroom environment (<i>the Spanish version of the Classroom Environment Scale</i>):</li> <li>Significant effect on affiliation over time (β=0.28, SE=0.09, p=0.001).</li> <li>No significant effect on involvement subscale.</li> </ul>							
		Psychological wellbeing	<ul> <li>No significant effect on involvement subscale.</li> <li>No significant effect on depressive symptoms (the Spanish version of the reduced version of the Scale of Dep Symptomatology).</li> <li>Significant improvements observed when pre-test mindfulness levels were medium-high meaning improver with intervention were mediated by pre-existing mindfulness skills (β=-0.55, SE=0.20, p=0.007).</li> </ul>							



Universal promotion	interventions using a posi	tive psychology approach	(cont.)					
Truskauskaitė-	Description							
Try Volunteering	<b>Target level:</b> Universal The Try Volunteering programme adopts a positive youth development and positive psychology approach promoting student wellbeing. The programme seeks to develop the 'five Cs': Competence, Confidence, Connection, Character and Caring. Session topics address the five C's and include: 'I can be open to new experiences', 'I can learn about my strengths', 'I can cherish my connection with others', 'I can understand my own and other people's feelings', 'I can survive difficult situations', 'I can see life as a meaningful experience', 'I can share what I have with others', and 'I can become a volunteer'.			Facilitator: 26 programme leaders (University student volunteers) Format: Group based with 15 participants or fewer per group	Duration and frequency: Eight classroom sessions (45 minutes each) delivered once a week during the regular school hours over two months	Booster: No	Quality assessmen 3	
	Study Design	Results						
	QED Country: Lithuania Total sample size: 615 students from 26 classrooms (9th and 10th grade) from two middle schools Attrition not reported 42.8% female Mean age: 15.3 years	Psychosocial wellbeing	<ul> <li>No significant effect on competence in the full sample (Positive Youth Development Inventory (PYDI)).</li> <li>Significant sub-group effect. In classes with the most number of students, significant increase in the intervention group (97%, p&lt;0.010) and significant decrease in the control group (90%, p&lt;0.001)</li> <li>No significant effect on connection in the full sample (Positive Youth Development Inventory (PYDI)).</li> <li>Significant sub-group effect. In classes with the most number of students, significant increase in the intervention group (97%, p&lt;0.001) but no significant effect in the control group.</li> <li>No significant effect on caring in the full sample (Positive Youth Development Inventory (PYDI)).</li> <li>Significant effect on caring in the full sample (Positive Youth Development Inventory (PYDI)).</li> <li>Significant sub-group effect. In classes with the most number of students, significant increase in the intervention group (97%, p&lt;0.001) but no significant effect in the control group.</li> <li>No significant sub-group effect. In classes with the most number of students, significant increase in the intervention group (95%, p&lt;0.001) but no significant effect in the control group.</li> </ul>					
	Control: Not described	Subjective wellbeing	No significant effect on conf • Significant sub-group effect p<0.001) and significant de No significant effect on char • Significant sub-group effect significant decrease in the	et. In classes with the mos ecrease in the control grou racter in the full sample (F et. In classes with the mos	st number of students, sig up (84%, p<0.050). Positive Youth Developmen st number of students, no	nificant increase in the int		

Universal prom	otion interventions	using a mindfulne	ess approach				
Johnson et al.	Description						
(2017) .b ('dot be')	Target level: Universal The .b ('Dot be') Mindfulness in Schools curriculum is a manualised mindfulness intervention designed for 11- to 16-year-olds. Each week, students are guided through a series of short mindfulness practices. This includes breath counting (stop, feel your feet, feel your breathing, and be present); mindfulness of routine daily activities (walking; watching thought traffic); and two 9-minute guided audio files with two mindfulness exercises. This study evaluated '.b' in a two-armed intervention. In the first arm, students received the intervention according to the manual (described above). In a second intervention arm, students received the same intervention, but parents were also enrolled in the intervention. Once per week, parents received an email with a link to a 10-minute online activity which included a summary of each week's key points, a guided mindfulness exercise, and an outline of student's home practice sessions for the week. .b is included on the EIF Guidebook.			Facilitator: Researcher-led (first author) Format: Group-based intervention (size not reported)	Duration and frequency: Weekly lessons (40–60 minutes) for nine weeks	Booster: No	<b>Quality assessment:</b> 1 Intervention also evaluated by Johnson & Wade (2019) and Volanen et al. (2020)
	Study Design	Results					
	RCT Country: Australia Total sample size: 555 students across four co-educational secondary schools (one private, three public) 27% attrition at FU 45.4% female Mean age: 13.4 years Control: No intervention	Psychosocial wellbeing	No significant effect on depre Anxiety and Stress Scale-Sho No significant effect on anxie (GAD-7)). No significant effect on wellb Scale (WEMWBS)).	rt form (DASS-21)). ety at post-intervention, si	ix- or 12-month follow-up	(the 7-item Generalized Ar	nxiety Disorder Scale

nson & (2019)	Description						
ulness ng for ens	based on the Mindfulne 1990) and mindfulness- programmes designed f mental health of studen increases in wellbeing. S each week. Sessions be minutes, followed by gro Sessions also include a				Duration and frequency: Weekly 90-minute sessions for eight weeks	<b>Booster:</b> Students instructed to practise mindfulness exercises at home after the intervention; less than 8% of students reported practice at home at four-month follow-up	Quality assessme
	Study Design	Results					
	QED Country: Australia Total sample size: 146 students across two secondary schools 50.4% attrition at FU 45.9% female Mean age: Students in year 8 (M=13.5	Psychological wellbeing	<ul> <li>Significant effect on depression at four-month follow-up (p&lt;0.05, d=0.61). No significant effect at post-intervention (the Depression subscale of the Depression, Anxiety and Stress Scale-Short form (DASS-21)).</li> <li>Sub-group analyses at four months showed the intervention may be more effective for older students: year 10 students showed greater improvements in anxiety (d=0.95) than year 8 students, who showed no significant improvements.</li> <li>Significant effect on anxiety at four-month follow-up (p&lt;0.05, d=0.52). No significant effect at post-intervention (the 7-item Generalized Anxiety Disorder Scale (GAD-7)).</li> <li>Sub-group analyses at four months showed the intervention may be more effective for older students: year 10 students showed greater improvements in anxiety (d=0.81) than year 8 students, who showed no significant improvements.</li> </ul>				
	years) and year 10 (M=15.5 years) <b>Control:</b> No intervention	Psychosocial wellbeing	No significant effect on well (WEMWBS)).	lbeing at post-intervention	n or four-month follow-up	(the Warwick-Edinburgh M	ental Wellbeing Scale

Kang et al. (2018)	Description						
Meditation & Mindfulness Intervention	Contemplative Pedagog knowledge-based learni (meditation) to enhance mindfulness meditation	n intervention is based on y method (Roth, 2014) that ng (lecture) with first perso students' mindfulness and techniques used in this int h counting; (2) awareness y sweeps.	t integrates traditional on experiential learning d improve wellbeing. The tervention included: (1)	Facilitator: Teachers Format: Group-based (size not reported)	Duration and frequency: Meditation sessions four to five times per week at the beginning of each history lesson. Each session lasted between 3–12 minutes (5 minutes on average)	Booster: No	Quality assessment 3
	Study Design	Results					
	RCT Country: US Total sample size: 101 students at a private middle school 1% attrition at FU 46% female Mean age: 11.8 years Control: Active control matched for	Subjective wellbeing	Significant effect on emotio Significant effect on global a Significant effect on positive	affect disturbance subsca	ale (p=0.05, d=0.41).		r-Child version).
	intensity, duration, delivery and activity; for example, students received a lesson on African history	Psychosocial wellbeing	No significant effect on self	-compassion (the 26-item	Self-Compassion Scale).		

Universal promotion	interventions using a mind	Ifulness approach (cont.)						
Lam & Seiden	Description							
(2019) Learning to BREATHE (L2B)	<b>Target level:</b> Universal Learning to Breathe (L2B) aims to promote student's wellbeing, social and emotional skills, and learning outcomes by increasing students' emotional regulation, stress management, compassion and executive function through a mindfulness approach. Students are guided through six sessions, which each cover a different topic following the acronym BREATHE: Body, Reflections (thoughts), Emotions, Attention, Tenderness/Take it like it is, and Habits for a healthy mind, with the final E representing the overall programme goal of Empowerment/gaining an inner Edge. The programme also includes homework practice sessions (for instance mindful eating/breathing; stretching). To maximise generalisation, students receive home practice handouts at the end of each session and can download audio files for guided practice.			Facilitator: Clinical psychologist employed at the school, and a graduate-level research assistant provided logistical support to intervention delivery Format: Group-based in classes with 32–35 students each	Duration and frequency: Six 70-minute sessions, one per week	Booster: No	Quality assessment: 2 Intervention also evaluated by Felver et al. (2019) and Fung et al. (2019)	
	Study Design	Results						
	QED Country: Hong Kong Total sample size: 115 students at one public high school in the lowest academic tier	Psychosocial wellbeing	No significant effect on emo No significant effect on inter No significant effect on rumi Significant effect on executiv intervention while the contro	nalised and externalised e nation ( <i>the Chinese versic</i> νe function (p<0.001, η²=0	emotional and behavioura on of the Ruminative Resp 0.11). The intervention gro	Il problems (the Youth Sel onses Scale (RRS)).	f-Report (YSR)).	
	0% attrition at FU 35% female Mean age: 12.4 years Control: No intervention	Psychological wellbeing	No significant effect on perc	rceived stress (a single-item purpose-designed measure).				

Rodríguez-	Description									
Ledo et al. (2018) The Emotional Competency Development SEA Programme	improve student's attent through a mindfulness a mindfulness practice se instructions. These prac practice, association of mindfulness techniques		motional development sessions include guided using audio-recorded ities such as breathing	Facilitator: Teachers Format: Group-based delivered across six classes (size not specified), held at the same time in the morning	Duration and frequency: One hour per week for 18 weeks across the academic year	Booster: No	Quality assessment 3			
	Study Design	Results								
	QED Country: Spain Total sample size: 156 students from one public high school 2.6% attrition at FU 44.9% female Age Range: 11–14 years Control: Unknown	Subjective wellbeing	No significant effect on mind • Significant differences with however, it is unknown whe • Significant differences with however, it is unknown whe	nin but not between group ether increases or decreas nin but not between group	es on kinaesthetic mindful ses in mindfulness were o so on internal mindfulness	ness subscale (F <sub>156</sub> =4 bserved in the interve subscale (F <sub>156</sub> =4.979	ention and/or control group ), η²=0.033, p=0.027);			

Universal promotion interventions using a mindfulness approach (cont.)									
Saxena et al.	Description								
(2020) Hatha Yoga	<b>Target level:</b> Universal Hatha Yoga is a universal intervention delivered as part of routine health science classes designed to improve student's attention and reduce stress. Hatha yoga encompasses the practices of physical postures, breathing exercises and meditation. Its goal is to develop strength and flexibility of the body, foster a calm and clear mind, and overall good health. The yoga classes are delivered in the morning during the students' health science class, a required course for all 9th graders. Each lesson consists of time for yoga practice facilitated by an instructor, followed by guided meditation practice.			Facilitator: Yoga instructor Format: Group-based with about 50 students	Duration and frequency: 25-minute sessions of yoga and meditation twice per week for twelve weeks; each lesson consisted of 18 minutes of yoga poses and 7 minutes of meditation	Booster: No	Quality assessment: 2		
	Study Design	Results	sults						
	QED Country: US Total sample size: 174 students in 9th	Academic	Significant effect on ADHD-Inattentive behaviour over time ( $\beta$ =-1.09, SE=0.30, p<0.001). Pairwise t-tests showed a significant reduction in inattention within the intervention group (t=3.239, p=0.002; d=0.27) and a significant increase in inattention within the control group (t=-2.574, p=0.013). (the Strengths and Weaknesses of ADAH Symptoms and Normal Behaviour (SWAN)).						
	grade of high school 5.4% attrition at FU 64.4% female Mean age: 14.7 years	Behavioural	No significant effect on ADHD-Hyperactive/Impulsive behaviour (the Strengths and Weaknesses of ADAH Symptoms and Normal Behaviour (SWAN)).						
	<b>Control:</b> Curriculum as usual: students enrolled in usual health science class	Psychological wellbeing	No significant effect on perc	ceived stress (the Perceived Stress Scale (PSS)).					

Universal promotion	interventions using a mine	dfulness approach (cont.)						
Takahashi et al. (2020)	Description							
Low-dose ACT	commitment therapy (A flexibility and addressing is delivered across six s ACT. In the first two sess to clarify their own value the third through fifth se and non-aversive emotio	g emotional and behaviou essions, which each focus sions, participants learned es, and how to choose and ssions, the focus is on ac	ing students' psychological ral problems. The intervention s on a core component of I the meaning of 'values' how commit to their values. In ceptance of both aversive nal session is used to plan	Facilitator: Clinical psychologist Format: Group-based (size not reported) delivered in every- day classrooms	Duration and frequency: Six bi-weekly sessions each lasting 50 minutes for a total of 5 hours	Booster: No	Quality assessment 2	
	Study Design	Results						
	QED Country: Japan Total sample size: 299 students across four junior high schools in a single district 9.7% attrition at FU	Psychosocial wellbeing	Significant effect on continu subscales (Value of clarificat • Significant effect on contin on the SDQ total difficulties	ion and Commitment & Co uation of avoidance amo	ontinuation of Avoidance) ng students with elevated	of the Value of Young Ag but 'sub clinical' (studen	e Scale – VOYAGE).	
	53.3% female Mean age: 14.1 years Control: Wait-list control who received education sessions on mathematics and politics before post-intervention measurement	Behavioural	<ul> <li>No significant effect on em</li> <li>No significant effect on con</li> <li>No significant effect on per</li> <li>No significant effect on pro</li> </ul>	notional and behavioural difficulties ( <i>the Strengths and Difficulties Questionnaire (SDQ)</i> ). motional problems subscale. conduct problems subscale. reer relationship problems subscale. rosocial behaviour subscale. eractivity/inattention subscale over time (β=-0.69, p=0.026).				

Universal promotion	interventions using a mindfulness approa	ch (cont.)							
Volanen et al.	Description								
(2020) .b Mindfulness	<b>Target level:</b> Universal The .b ('Dot be') Mindfulness in Schools mindfulness intervention designed for 1 <sup>-</sup> are guided through a series of short min breath counting (stop, feel your feet, feel mindfulness of routine daily activities (w two 9-minute guided audio files with two .b is included on the <b>EIF Guidebook</b> .	1- to 16-year-olds. Each we dfulness practices. This ind your breathing, and be pre ralking; watching thought ti	ek, students cludes esent);	Facilitator: Trained mindfulness facilitators Format: Group- based: 1,646 students across 94 classes in 25 schools	Duration and frequency: Weekly guided group mindfulness sessions in the classroom at school (45 minutes each) with individual short practice at home: (between five and six times per week, between 3 and 15 minutes per day)	Booster: No	Quality assessment: 1 Intervention also evaluated by Johnson et al. (2017) and Johnson & Wade (2019)		
	Study Design	Results							
	Study Design         Cluster RCT         Country: Finland         Total sample size: 3,519 students         across 56 secondary schools         34.3% attrition at FU         50.2% female	Psychosocial wellbeing	<ul> <li>Significant effect on resilience. Significant improvements observed in intervention group compared to active control group (β=1.183, SE=0.570, p&lt;0.050) at post-intervention, but no significant improvements in intervent group compared to inactive control. No significant effect at six-month follow-up (<i>The Resilience Scale (RS14)</i>)</li> <li>Significant effect on resilience for students in 7th grade at six-month follow-up (β=2.894, p&gt;0.050), compare to students in 6th grade. Underpowered sub-group analyses suggest this was particularly true for girls (β=3.127, p&lt;0.050).</li> </ul>						
	Age range: 12–15 years Active Control: Relaxation Intervention (9-week programme: each session in two sections: 1) relaxation exercises (breathing exercises, visualisation, emotion	Psychosocial wellbeing	No significant effect on social-emotional functioning at post-intervention or at six-month follow-up (the Strengths and Difficulties Questionnaire (SDQ)).						
	focus, rest); 2) group discussions about different topics (stress, relaxation, upsides and downsides of smartphones, sleep, exercising, food and attitudes) <b>Inactive Control:</b> Usual school curriculum without intervention	Depression	<ul> <li>No significant effect on depressive symptoms at post-intervention or six-month follow-up (<i>the Beck Depressi Inventory (BDI</i>)).</li> <li>Underpowered sub-group analyses suggest significant effect on depressive symptoms in girls, not boys, at six-month follow up (β=-0.493, p&lt;0.050).</li> </ul>						

Universal promotion interventions using a positive youth development approach										
Allara et al.	Description									
(2019) <b>Diario della Salute</b> [My Health Diary]	programme is made up o emotional wellbeing, ago relationships and pubert and women; Exploring th multimodal and include brainstorming, role-playin team games. Each sessi recognise and manage e	y (My emotions; Beyond s le world of adults; Let's ke a combination of informat ng, worksheets, plenary dis on is designed to increase motions, improving interp	hours) that explore behaviours, interpersonal tereotypes; Becoming men ep fit). The sessions are ion giving, presentations, scussions, group work and	Facilitator: Classroom teachers Format: Normal classrooms (not specified) with interactive group sessions, individual worksheets and one homework session	<b>Duration and</b> <b>frequency:</b> Five sessions lasting 2–4 hours each	Booster: No	Quality assessment: 2			
	Study Design	Results								
	QED Country: Italy Total sample size:	Psychosocial wellbeing	Adverse effect: Significant adverse effect on wellbeing (p<0.05) (The WHO/Europe Health Behaviour in School-aged Children (HBSC) Symptom Checklist).							
	3,476 students from 62 middle schools (156 classes) <b>16.7 % attrition at FU</b> 50.1% female	Psychosocial wellbeing	No significant effect on social acceptance (three items designed by study authors).							
	Mean age: 12.1 years (SD=0.54) Control: No intervention	Aggression	No significant effect on agg	ressive behaviour (the Itali	ian version of the Physical	and Verbal Aggression S	cale).			

itsland et al. (2020)	Description						
Physical Active Learning (PAL) and Don't worry, be happy	Target level: Universal         The PAL and 'don't worry, be happy' programmes are universal programmes that both adopt a positive youth development and physical activity approach to enhancing adolescent mental health. In the PAL intervention, students undertake weekly physically active academic lessons where the curriculum of the subject (for instance maths) is taught in a physically active manner; participate in additional physical activity sessions (30 minutes per week); and have an extra physical education lesson in addition to lessons offered in the core curriculum. The 'don't worry, be happy' programme involved one additional physical education lesson and one additional physical activity lesson.         Study Design       Pasults			Facilitator: PE teachers and student- led activities Format: Both programmes were delivered to usual school classes. The 'Don't worry, be happy' programme also had students work in small 'activity groups'	Duration and frequency: PAL: 29 weekly physically active academic lessons (30 min/week), PA not connected to a curriculum (30 min/ week), and one additional physical education (PE) lesson (45–60 min/ week). Don't worry, be happy: 29 Weeks of one additional PE lesson (45–60 min/ week) and one additional PA lesson (45–60 min/ week)	Booster: No	Quality assessmen
	Study Design	Results					
	Cluster RCT Country: Norway Total sample size: 2,084 students from 29 lower secondary schools						
	Country: Norway Total sample size: 2,084 students from 29 lower secondary schools	Psychosocial wellbeing	Adverse effect: increase in peer increased amon     Adverse effect:	Sub-analyses revealed adverse problems in the non-immigran g non-immigrant girls (b=0.42,	blems significantly increased	nt status (Norwegian Yes/ -intervention. Peer problem	/No). Significant ms also significantly
	<b>Country:</b> Norway <b>Total sample size:</b> 2,084 students from 29 lower secondary	-	Adverse effect: 1     increase in peer     increased amon     Adverse effect: 2     (i.e. borderline) t      No significant effe     - Norwegian versi     Sub-group analy-     reduced their sc     No significant effe	Sub-analyses revealed adverse problems in the non-immigran g non-immigrant girls (b=0.42, Sub-analyses revealed peer-pro total SDQ scores (b=0.89, p=0.0 ect on psychological problems ion). ses show students with elevate ores by 22% post-intervention (	e effect dependent on immigrar t group (b=0.32, p=0.034) post- p=0.010). oblems significantly increased 029). and strengths in the total samp ed SDQ scores (i.e. 'at risk' of d	nt status (Norwegian Yes/ -intervention. Peer problem among students with elev ple ( <i>Strength and Difficulti</i> leveloping a mental disord	(No). Significant ms also significantly vated but sub-clinical ies Questionnaire (SDO der), significantly
	Country: Norway Total sample size: 2,084 students from 29 lower secondary schools 1.9% attrition at FU 49% female Age range: 14–15 years Control: No	wellbeing Psychological	<ul> <li>Adverse effect: 1 increase in peer increased amon</li> <li>Adverse effect: 1 (i.e. borderline) t</li> <li>No significant effe</li> <li>Norwegian versi</li> <li>Sub-group analy reduced their sc: No significant effe version).</li> <li>Sub-group analy the PAL interven</li> </ul>	Sub-analyses revealed adverse problems in the non-immigram g non-immigrant girls (b=0.42, Sub-analyses revealed peer-pro- total SDQ scores (b=0.89, p=0.0 ect on psychological problems ion). ses show students with elevate ores by 22% post-intervention ( ect on emotional problems in the ses show significant decreases	e effect dependent on immigrar t group (b=0.32, p=0.034) post- p=0.010). oblems significantly increased 029). and strengths in the total samp ed SDQ scores (i.e. 'at risk' of d (b=-2.9, p=0.045).	nt status (Norwegian Yes/ -intervention. Peer problem among students with elev ple ( <i>Strength and Difficulti</i> leveloping a mental disord <i>Difficulties Questionnaire</i> ( g students from immigrar	(No). Significant ms also significantly vated but sub-clinical fes Questionnaire (SD der), significantly SDQ) – Norwegian nt backgrounds in bot

Universal promotion	interventions using a pos	itive youth development a	pproach (cont.)					
Larsen et al.	Description							
(2019) The COMPLETE Project – single and multi-tier intervention (The Dream School Programme (DSP) and the Mental Health Support Team (MHST))	The DSP and MHST proproblems and loneliness school approach involvi activity is the dream cla to discuss their ideal cla take to achieve this. Pee secondary grades (ages involved in creating mee year. A resource group is dream classes and follo component targets stud or those at risk of dropp for example making ser of school start, and mag	and Targeted Indicated/Sel grammes aim to reduce m s. The DSP component add ing all staff and students. T iss where students work w ass environment and action er mentors, other students is 16–19), aid in dream class eting points for socialisation is trained with peer mentor ow up with peer leaders. The dents with known mental h bing out. It reorganises stur- vices accessible, enhancir pping 1st year upper-secor ilbeing for follow-up where	eental health opts a whole- The central ith their teachers ns they can from upper- sees and are on throughout the s and facilitate ne MHST ealth problems dent services, ng the quality ndary school	Facilitator: Dream class: teachers, peer leaders, resource group (representatives from school management, staff and student council) MHST: Counsellors, school nurses and follow-up services staff Format: DSP only versus combined DSP with MHST versus control; whole-school work, classroom sessions (DSP) and targeted work for specific students (MHST)	Duration and frequency: Two dream classes, one in the first week of school, one at the beginning of the second semester of the school year	Booster: No	<b>Quality</b> assessment: 1	
	Study Design	Results						
	RCT Country: Norway Total sample size: 3,003 students from 17 upper secondary schools 10.6% attrition at FU	Subjective wellbeing	No significant effect on loneliness ( <i>the Loneliness Scale – Norwegian version</i> ). • Increase in loneliness in control group (0.08), DSP group (0.7) and combined DSP & MHST group (0.01).					
		Psychological wellbeing	<ul> <li>Increase in syr group (0.06).</li> </ul>	nt effect on combined symptoms of depression and anxiety ( <i>short form of the Symptom Check List (SCL-5)</i> ). symptoms of anxiety and depression in the control group (0.08), DSP group (0.11) and combined DSP & MHST 6).				
	35% female Mean age: 16.8 years		symptoms (-0.	ect of gender. Girls in the combined DS .17, 95%Cl -0.32, -0.01, p=0.003) comp to Cirls and have both report increases	ared to control group.		ased mental health	
	Control: No intervention		Adverse effect	t: Girls and boys both report increase in	n mental health symptom	s at tollow-up.		

Universal promotion interventions using a positive youth development approach (cont.)										
Moore et al.	Description									
(2018) Martial arts intervention	activity approach to prou Each intervention session included respect, goal se activities, stretching action	noting young people's resi on included psychoeducati etting, self-concept and se ivities, technical martial ar	on (topics, for example,	Facilitator: A psychologist and a Taekwondo instructor Format: Delivered in a face-to-face group format	Duration and frequency: Ten 50-minute sessions, once per week for 10 weeks	Booster: No	Quality assessment: 2			
	Study Design	Results								
	RCT Country: Australia Total sample size: 283 students from five secondary government catholic schools in New South Wales 14.8% attrition at FU 50.5% female Mean age: 12.8 years Control: Wait-list control	Psychosocial wellbeing Behaviour	Significant effect on resilient • Significant effect on individ • Significant effect on relatio • Significant effect on contex Significant effect on self-effic • Significant effect on social self-efficacy scores pre-inte • Significant effect on emotion No significant effect on psyce	lual capacities and resournship with primary caregitation of the subscale ( $\eta p$ cacy total score ( $\eta p^2=0.08$ self-efficacy subscale ( $\eta p^2$ ervention ( $\eta p^2=0.03$ , p < 0 conal self-efficacy subscale	rces subscale ( $\eta p^2 = 0.07$ , p iver subscale ( $\eta p^2 = 0.09$ , p $p^2 = 0.09$ , p < 0.001). 8, p<0.001) ( <i>Self-efficacy</i> ( $p^2 = 0.04$ , p<0.010). NB: Inte .050). e ( $\eta p^2 = 0.06$ , p<0.001).	o<0.001). <0.001). Questionnaire for Children ervention group had signi	( <i>SEQ-C</i> )). ficantly increased social			

Universal pron	notion interventions	s using mental heal	th literacy approach					
Ahmad et al.	Description							
(2020) Let's Erase the Stigma (LETS)	Target level: Universal Let's Erase the Stigma (LETS) is a student-initiated programme designed to improve mental health literacy and reduce mental health stigma. It uses a psychoeducational and positive youth development approach. The programme involves the establishment of student-led school clubs, overseen by a member of staff, which allow students to design and engage in group-based activities and social action with the aim of enhancing humanisation and reducing the stigma of mental health. Student-led school clubs include activities such as: fundraising for mental health causes, educational videos and activities, social media activities/campaigns, and volunteer/community outreach activities, creating flyers during mental health awareness week/month, presenting information at school-wide assemblies, formulating recruitment activities to increase club membership, organising therapy animals to visit the school, and facilitating activities within the larger community (for instance participating in suicide awareness walks).			Facilitator: Student-led, but overseen by a sponsor (member of school staff) Format: Group-based school clubs; between 4–49 students in each club (mean students per club = 17.4)	Duration and frequency: Most clubs met either weekly or biweekly; three clubs met monthly, and one met every two months	Booster: No	Quality assessment 2	
	Study Design	Results						
	RCT Country: US Total sample size:	Mental health literacy	Significant effect within groups on mental health knowledge. Significant improvements were observed in both the intervention (F (2,59.6)=3.4, p=0.039) and control group (F (2, 70.5)=23.8, p<0.001) over time ( <i>the Knowledge Scale</i> ). No significant effect on attitudes towards mental health over time ( <i>the Attitudes Scale</i> ).					
	731 students across 42 high schools <b>30.6% attrition at FU</b> 75% female <b>Mean age:</b> Not Reported <b>Control:</b> Wait-list control	Mental health stigma	No significant effect on stig <i>Scale</i> ). No significant effect on the					

Universal promotion interventions using mental health literacy approach (cont.)									
Andrés-	Description								
Rodríguez et al. (2017) <b>'What's Up!'</b>	<b>Target level:</b> Universal 'What's up!' aims to enhance students' mental health literacy skills and reduce mental health stigma using a programme of educational and group-based social activities incorporated into the typical school curriculum. The units in the programme are delivered in the context of different school subjects: Language, Foreign Language, Sciences, Mathematics, Physical Education, and Culture and Ethical Values.			Facilitator: Teachers Format: Class-based: maximum 25 students per class; some exercises completed in individual and small groups	Duration and frequency: Nine modules completed one per week for nine weeks	Booster: No	Quality assessment: 1		
	Study Design	Results							
	RCT Country: Spain Total sample size: 446 students across nine high schools 13.7% attrition at FU 52% female Mean Age: 14.0 years Control: No intervention	Mental health stigma	Significant effect on stereoty effect ( <i>Catalan version of the</i> Significant effect on behavic (p=0.010), with a small effect Significant effect on Stigma small effect ( <i>the Catalan vers</i>	e Stereotype Scale). oural intentions of social a ot (the Catalan version of t Related Behaviour at post	cceptance at post-interve he Social Acceptance Sca t-intervention (p=0.010) ai	ntion (p=0.030) and at r le). nd at nine-month follow	nine-month follow-up		

Universal promotion interventions using mental health literacy approach (cont.)									
Campos et al. (2019)	Description								
Finding Space	one explores students' k health; the signs and im health; symptoms, and s inclusivity of mental hea awareness of mental he	nowledge and beliefs abo pact of mental health prob signs of five mental disorde Ith disorders. Session two alth problems and their im	nealth literacy skills. Session ut physical and mental lems; risk factors for mental ers; and stigmatisation and o aims to increase students' upact; identify help-seeking e the use of mental health	Facilitator: One psychologist (assisted by student psychologist) Format: Normal classes (20–25 students) lead by a single facilitator	Duration and frequency: Two sessions delivered at one- week intervals each lasting 90 minutes	Booster: No	Quality assessment: 1		
	Study Design	Results							
	RCT Country: Portugal Total sample size: 543 students in 22 classes from eight schools 28.7 % attrition at FU 48% female Mean age: 13 years Control: No intervention (option for intervention waiting list)	Mental health literacy	Significant effect on mental with a mental health problem Overall, authors suggest olde intervention ( <i>the Mental Heal</i> • Significant effect on knowl • Significant effect on first ai • Significant effect on self-he	n had smaller improvemen er students, female studer Ith Literacy Questionnaire) edge/stereotypes subscal d skills and help seeking s	nts than students who kno nts and students from sta ). le at six-month follow-up subscale at six-month foll	ew someone with a ment te-funded schools may b (β=5.69, p<0.001). Ιοw-up (β=0.74, p=0.017)	al health condition. enefit more from the		

DeLuca et al. (2020)	Description								
Ending the Silence (ETS)	of a single session that awareness of mental he	aims to increase students' alth stigma. The session p al health stigma, and inclue		Facilitator: Trained programme providers Format: Classroom based (group size not reported)	<b>Duration and</b> <b>frequency:</b> Single session presentation lasting 35–40 minutes	Booster: No	<b>Quality assessment</b> 2 Intervention also evaluated by Wahl e al. (2019)		
	Study Design	Results							
	RCT Country: US Total sample size: 206 students in one public high school 17% attrition at FU 56.2% female Mean age: 15.4 years Control: Active control of a presentation about careers in psychology, matched in duration and setting	Mental health stigma	Significant effect on negative week follow-up (p=0.024), b No significant effect on men <i>Thinking subscale of the Att</i> No significant effect on inter <i>Reported and Intended Beha</i> Significant effect on stigma at eight-week follow-up (p=0 No significant effect on emo or eight-week follow-up (the No significant effect on perceive four-week or eight-week follow-up Significant effect on feel week or eight-week follow-up Significant effect on disclose (p=0.003), but not at post-in	ut not at eight-week follow ntal health stigma at post- itudes Toward Serious Mer nded social distancing bel viour Scale (RIBS)). -related mental health kno 0.034), with small-medium otional responses towards revised Attribution Questi r support intentions at pos red stigma students antici ow-up (the Perceptions of ings of inadequacy and in p (the Self-Stigma of Seek ure worries about confide	v-up (the Attitudes about A intervention, four-week or ntal Illness Adolescent Ver haviours at post-intervent owledge at post-intervent offect size (d=0.24) (The s a hypothetical student w onnaire (r-AQ)). st-intervention, four-week pate from those they inter Stigmatization by Others feriority for seeking menta- ing Help scale (SSOSH)). ntiality in regard to menta	Mental Illness and Its Tri- eight-week follow-up (i sion). ion, four-week or eight- on (p=0.026), four-week Mental Health Knowled ith mental illness at po- or eight-week follow-up ract with at post-interve for Seeking Help scale ( al health treatment at p	eatment Scale (AMIS)). the 4-item Categorical week follow-up (the follow-up (p=0.010) and ge Schedule). st-intervention, four-week (the Peer Support scale) ntion (p=0.032), but not a PSOSH)). ost-intervention, four- nt-week follow-up		
		Help-seeking	No significant effect on mer Intentions to Seek Counselli		tentions at post-interventi	on, four-week or eight-	veek follow-up (the		

Universal promotion	interventions using menta	al health literacy approach	(cont.)						
Hart et al. (2018) and	Description								
Hart et al. (2019) Teen Mental Health First Aid (Teen MHFA)	prevent poor mental hea they can provide first aid problem or experience a help is received, or the c videos, role-plays, group and focuses on develop problems, talking about message of the training	alth outcomes by developin d to peers and individuals of mental health crisis, until risis resolves. Training is r discussion, small group a ing knowledge and skills in mental health and appropi- encourages students to so ning programme was also	nultimodal (presentations, nd workbook activities) n recognising mental health	Facilitator: Youth Mental Health instructors Format: Classroom-based groups of 20-25 students	Duration and frequency: Three sessions, one per week each lasting 75-minutes	Booster: No	Quality assessment: 3		
	Study Design	Results							
	Cluster-RCT Country: Australia Total sample size: 1,942 students across four public schools 42.5% attrition at FU 44.7% Female	Mental health literacy	<ul> <li>Significant effect on mental health literacy (<i>purposed designed surveys</i>).</li> <li>Significant effect on intention to use mental health first aid (p&lt;0.001).</li> <li>Significant effect on confidence in being able to provide mental health first aid (p&lt;0.001).</li> <li>Significant effect on recognising suicidality at post-intervention (p=0.020), but not at 12-month follow-up.</li> <li>Significant effect on providing adequate suicide first aid response (p&lt;0.001) post-intervention and at 12-month follow-up (p&lt;0.001).</li> <li>Significant improvement on avoidance of talking about suicide at post-intervention (p&lt;0.001) and at 12-month follow-up (p&lt;0.001).</li> </ul>						
	Mean age: 15.9 years Control: Active control: Physical First Aid course to match duration and intensity of intervention group	Mental health stigma	<ul> <li>Significant effect on mental health stigma (<i>the Social Distance Scale and the Depression Stigma Scale modified for use with vignettes</i>).</li> <li>Significant effect on social distance subscale (p&lt;0.001).</li> <li>Significant effect on weak-not-sick subscale (p&lt;0.001).</li> <li>Significant effect on dangerous subscale (p&lt;0.001).</li> <li>Significant effect on reporting suicidality subscale (p&lt;0.001).</li> </ul>						
		Psychological wellbeing	No significant effect on psyc	gnificant effect on psychological distress at 12-month follow-up (the Kessler 6-item Psychological Distress Scale).					

#### Universal promotion interventions using mental health literacy approach (cont.)

Howard et al.
(2019)
Brief Biologically-
based
Psychoeducational
Intervention

### Description

#### Target level: Universal

An online psychoeducational programme which aims to change students' beliefs about the causes of depression, to reduce mental health stigma and increase intentions for mental health help-seeking. Students receive one of two interventions: a biological-based education programme advocating that depression is predominantly biologically caused, or a psychosocial-based education programme advocating for depression as having psychosocial causes. The intervention suggests that attributing depression to biological causes will reduce depression stigma by attributing mental health symptoms to something other than self, and outside the control of the individual. The online sessions describe the causes of depression (either biological or psychosocial) and provide a vignette of a person who met the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) criteria for major depression.

Facilitator: Students complete the intervention individually online Format: Individual completion online in a classroom	<b>Duration and frequency:</b> A single session intervention lasting 40 minutes	Booster: No	Quality assessment: 1
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Study Design	Results	
RCT Country: Australia Total sample size: 351 students across	Mental health literacy	Significant effect on attributions of depression. Compared to the control group, students in the biological intervention had significant increases in believing depression had a biological cause (p<0.001, d=0.79) and students in the psychosocial intervention group showed significant increases in attributing depression as having a psychosocial cause (p<0.001, d=0.06) (adapted versions of the Biological Attribution Scale (BAS) and Psychological Blame Scale (PBS)).
two catholic schools 6.6 % attrition 47% female Median age: 16 years	Help-seeking	Significant effect on intentions for help-seeking. Compared to the control group, students in the biological intervention showed significant improvement in help-seeking intentions (p=0.014, d=0.24). No significant effect in the psychosocial intervention group ( <i>the General Help-seeking Questionnaire</i> ).
<b>Control:</b> Educational session providing neutral information on the symptoms and causes of depression	Mental health stigma	No significant effect on anticipated internalised stigma about own depressive symptoms (the 16-item Self-Stigma for Depression Scale). No significant effect on stigma attitudes towards others with depression (the 'Personal' subscale of the Depression Stigma Scale).

Link et al. (2020)	Description								
Eliminating the Stigma of Differences (ESD)	associated with mental likelihood that adolesce needed. Each session ir and homework exercise		sequently increase the al health problems when ponent, group discussion	Facilitator: Physical education teachers Format: Classes (not specified)	Duration and frequency: Three one-hour sessions delivered within one week	Booster: No	Quality assessmen 1		
	Study Design	Results	Results						
	RCT Country: US Total sample size: 751 students across 19 classes in 14 schools	Mental health literacy	No significant effect on know one inactive control group, a • Significant effect in the inte group.	across time (the Knowledg	e and Positive Attitudes n	neasure).			
	25.0% attrition at FU 56% female Mean age: 11.5 years Control: Two active control conditions: 1) Printed materials,	Mental health stigma	No significant effect on willi either of the two active or or • Significant effect in the into group.	ne inactive control group,	across time (the Children'	s Social Distance Scale	e).		
	posters and written materials provided to students; 2) Contact: two people diagnosed with mental health conditions	Help-seeking	Significant effect on mental likely to seek help (OR=3.90, dichotomously (yes or no) by or counsellor about a mental	,95%Cl 1.09, 13.87) than s asking students whether	students assigned to any	other control group (a	ctive or inactive) (measur		
	delivered 10-minute presentation about their experiences, followed by facilitated group discussion, and one inactive control (no intervention)	Psychological wellbeing	No significant effect on mer Diagnostic Interview Schedu		oss time (21 questions fro	m the National Institut	e of Mental Health		

Universal promotion inte	erventions using mental he	ealth literacy approach (co	nt.)						
Lubman et al.	Description								
(2020) MAKINGtheLINK	<b>Target level:</b> Universal MAKINGtheLINK aims to increase help-seeking behaviour for mental health issues by improving mental health literacy, identifying barriers to help-seeking behaviour with appropriate solutions, and improving awareness of mental health conditions. Activities focus on recognising mental health crises, identifying help available, and addressing myths about mental health and substance abuse.			Facilitator: Not Reported Format: Secondary school classrooms (not specified)	Duration and frequency: Five interactive sessions over two class periods	<b>Booster:</b> Yes: One booster one month post-intervention to reiterate key messages	<b>Quality</b> assessment: 1		
	Study Design	Results							
	RCT Country: Australia Total sample size: 2,447 students across 22 Government, Catholic or Independent schools 25.2 % attrition at FU 50.3% female Age group: 14–15 years Control: Wait-list control	Help-seeking	No significant effect on over <i>Questionnaire (AHSQ)</i> ). • No significant effect on he • No significant effect on he Significant effect on formal <i>Seeking Questionnaire (AHS</i> ) • Significant effect on format • Significant effect on format No significant effect on likel <i>designed item</i> ). No significant effect on psyco of the Barriers to Adolescent Significant effect on confide (OR=1.45, p=0.006), but the	Ip-seeking for depression Ip seeking for stress and Ip seeking for alcohol/ot help-seeking at 12-month Q)). al help-seeking for depress help-seeking for stress ihood of seeking profess chological barriers to see ts Seeking Help Question ence in ability to help a pe	n at 12-month follow-up. anxiety at 12-month follo her drugs at 12-month follo n follow-up (OR=1.81, p=0 ssion at 12-month follow- and anxiety at 12-month ional help at six-week, six- king support at six-week naire).	ow-up. Ilow-up. 0.005) ( <i>an adapted versio</i> up (OR=2.09, p=0.01). follow-up (OR=1.72, p<0. x-month or 12-month foll , six-month or 12-month <sup>-</sup> eeks (OR=1.71, p<0.001)	on of the Actual Help .006). ow-up (one purpose- follow-up (brief version and six months		

Universal promotion interventions using mental health literacy approach (cont.)									
Swartz et al. (2017) and	Description								
Townsend et al. (2019) Adolescent Depression Awareness Program (ADAP)	<b>Target level:</b> Universal Adolescent Depression Awareness Program (ADAP) aims to increase student's depression literacy skills. The core modules of the intervention cover the topics of identifying symptoms of depression, understanding the process of medical decision-making; seeing parallels between depression and other medical illnesses, recognising suicide as a potential consequence of depression, understanding that depression is a treatable medical illness. ADAP focuses on increasing depression literacy as the first step in encouraging youths to seek treatment.			Facilitator: School personnel (usually health education teachers) Format: Classes (not specified)	Duration and frequency: Three hourly sessions designed to be taught in two or three consecutive health classes as part of the health education curriculum	Booster: No	Quality assessment: 3		
	Study Design	Results							
	RCT Country: US Total sample size: 6,679 students	Mental health literacy	<ul> <li>Significant effect on depression literacy at six weeks post-intervention (aOR=3.10; p&lt;0.001; 95%Cl 2.0, 5.0) and at four-motion follow-up (aOR=3.30; p&lt;0.001; 95% Cl 2.2, 5.0) (the Adolescent Depression Knowledge Questionnaire).</li> <li>Girls were significantly more likely to be depression literate at six weeks post-intervention (aOR=1.50; p&lt;0.001; 95%Cl 1.3, 1.60) than boys. This effect was maintained at four-month follow-up.</li> </ul>						
	across 54 schools 46.7 % attrition at FU 51.0% female Age Range: 14-15 years	Mental health stigma	Intended Behaviour Scale (RI	ntal health stigma at six weeks post-intervention or at four-month follow-up (the Reported and RBS) modified for use in adolescents). ve high mental health stigma at six weeks post-intervention (aOR=0.50; p=0.001; 95%Cl 0.30,0. four-month follow-up.					
	Control: Wait-list control	Help-seeking	No significant effect on mental health service use at six weeks post-intervention or at four-month follow-up (the Child and Adolescent Services Assessment).						

Universal promotion interventions using mental health literacy approach (cont.)									
Wahl et al.	Description								
(2019) National Alliance on Mental Illness - Ending the Silence (NAMI – ETS)	mental health literacy. Th illness, describes warnin one should do in respons mental health conditions include: 1) mental illness there are specific observ	All-ETS offers a single session presentation that aims to increase student's atal health literacy. The presentation provides facts about youth mental ess, describes warning signs of mental health conditions, discusses what should do in response to such warning signs, encourages acceptance of atal health conditions, and urges action to reduce stigma. Key messages ude: 1) mental illness is a medical illness like any other physical illness, 2) e are specific observable signs of mental health conditions, and 3) if you ce these warning signs in yourself or a friend it is important to tell a trusted			Frequency and number of sessions: One 50-minute presentation	<b>Booster:</b> No	Quality assessment: 3 Intervention also evaluated by DeLuca et al. (2020)		
	Study Design	Results							
	QED Country: US Total sample size: 932 students across 10 schools Attrition not reported 54.5% female Mean age: 14.7 years Control: No intervention	Mental health literacy	<ul> <li>Significant effect on studer follow-up (d=0.78) (the NA)</li> </ul>	0	des towards mental health	at post-intervention (d=1	.30) and at six-week		

Universal promotion interventions using 'Other' approaches									
Stapleton et	Description								
al. (2019) Emotional Freedoms Technique (EFT)	improve students' self-es and emotional difficulties	-	ease their fear of failure	Facilitator: Trained programme providers (a clinical psychologist and a psychotherapist) Format: Not reported	Duration and frequency: Five weekly sessions of 75-minute duration during normal school hours	Booster: No	Quality assessment: 3		
	Study Design	Results							
	QED Country: Australia	Psychosocial wellbeing	No significant effect on resilience post-intervention. No comparison against effect in control group (the Conners-Davidson Resilience Scale (CD-RISC)).						
	Total sample size:204 students fromtwo high schoolcohortsAttrition not reportedMean age:14.8 yearsControl:Wait-listcontrol	Subjective wellbeing	No significant effect on self-esteem post-intervention. No comparison against effect in control group (the Rosenberg Self- Esteem Scale (RSES)).						
		Psychological wellbeing	<ul> <li>No significant effect on emotional difficulties (the Strengths and Difficulties Questionnaire for ages 11–17 (SDQ)).</li> <li>Significant effect within but not between groups on fear of failure. No comparison against effect in control group (the Performance Failure Appraisal Index-Short Form (PFAI)).</li> <li>Significant reduction within the intervention group (η2=0.09, p=0.020) up to 12-month follow-up.</li> </ul>						

Umaña-Taylor	Description									
et al. (2018a, 2018b) <b>The Identity</b> <b>Project</b>	exploration. The program to explore their own ethic self-identity forms one's identity of who they are weekly sessions with st	mme is based on the prei nic-racial identity, and un s sense of self, will provid and who they can becom udents exploring their etl p differences, family hist	nts in ethnic-racial identity nise that allowing students derstand how this part of e a clearer sense of inner le. The programme follows nnic-racial identity including ory, symbols and traditions,	Facilitator: Researcher-led Format: School classroom (size not specified)	Duration and frequency: An eight-week curriculum with one session a week, each lasting 55 minutes, delivered as part of regular school lessons	Booster: No	Quality assessmen 1			
	Study Design	Results								
	RCT Country: US Total sample size: 218 students across eight public high schools 22.1% attrition at FU 50% female Mean age: 15.0 years	Psychosocial wellbeing	Significant effect on Ethnic • Minority ethnic students ( ERI exploration scores (β= white majority students, s <i>Identity Scale, purpose des</i> Significant effect on Global and Resolution ( <i>the Erikson</i> Significant effect on self-es Resolution ( <i>the Rosenberg</i> )	Black or African American -0.40, SE=0.06, p<0.001, of howing the intervention has signed questionnaire). Identity Cohesion ( $\beta$ =1.41 <i>Psychosocial Stage Inven</i> teem ( $\beta$ =1.63; 95%CI 0.22	d=0.95), and ERI resolution ad greater improvements a I; 95%CI 0.16; 4.13) thorou <i>tory</i> ).	i scores (β=-0.17, SE among minority ethn igh increases in Ethn	=0.07, p=0.016, d=0.35) that ic students ( <i>Brief Ethnic</i> ic Racial Identity Exploratio			
	<b>Control:</b> Attention control group: Careers lessons focused on exposing students to educational and career opportunities after high school.	Academic achievement	No significant effect on academic engagement ( <i>the Engagement vs. Disaffection with Learning: Student Report Scale</i> ). Significant effect on academic achievement through increases in Ethnic Racial Identity Exploration and Resolution (β=2.64; 95%Cl 0.34; 8.11) (Students' grades in Math, English, Science, and Social Studies rated on a frequency scale).							
		Depression	Significant effect on depres Exploration and Resolution				ic and Racial Identity			
						of Multigroup Ethnic				

#### Targeted selective promotion interventions using an SEL approach Description Dowlina et al. (2019) Target level: Universal programme implemented and evaluated with selective Facilitator: **Duration and** Booster: **Ouality** sample - disadvantaged schools in Ireland. Teachers in the Social frequency: No assessment: The Personal Health Education 13 weekly The MindOut Programme adopts an SEL approach and aims to promote social MindOut (SPHE) curriculum sessions and emotional wellbeing. The programme employs interactive teaching strategies Programme (such as collaborative learning) to engage students in a number of skill-building Format: activities, such as identifying and managing emotions, coping with challenges, Usual classroom during overcoming negative thinking, communication, empathy and relationship skills. SPHE curricular lessons. There is also a whole-school element where school staff are provided with a whole-school resources menu of strategies for promoting social and emotional development. and at-home activities **Study Design** Results **Cluster RCT** Psychosocial Significant effect on emotional regulation post-intervention, but not at 12-month follow-up. Students in the high implementation group showed significant decreased in emotion suppression (p=0.035) compared to control group. No significant effect observed wellbeina Country: Ireland in the low implementation group (the Emotional Regulation Questionnaire). Total sample size: Significant effect on coping skills at post-intervention and 12-month follow-up. Students in the high implementation group showed 497 students from significantly lower levels of avoidance coping post-intervention (p=0.006) and at 12-month follow-up (p=0.033). 32 disadvantaged Significant effect on social support coping post-intervention (p=0.009). Students in the high implementation group showed schools significantly increased levels of social support coping compared to control (Coping Strategy Indicator (CSI-15)). 35.8% attrition at FU No significant effect on self-efficacy (Self-Efficacy Questionnaire (SEQC)). 51.1% female No significant effect on emotional intelligence (Trait Meta-Mood Scale (TMMS)). Mean age: 15.9 years No significant effect on asserting influence and conflict resolution (Adolescent Interpersonal Competence Questionnaire (AICQ)). Control: Usual Social No significant effect on decision making (Making Decisions in Everyday Life Scale). Personal Health NOTE: Additional sub-analyses available in full text. Education curriculum Subjective wellbeing No significant effect on self-esteem (the Rosenberg Self-esteem Scale)). No significant effect on mental wellbeing (14-item Warwick Edinburgh Mental Wellbeing Scale (WEMWBS)). NOTE: Additional sub-analyses available in full text. **Psychological** Significant effect on depression at post-intervention (p=0.030), but not at 12-month follow-up. The high implementation intervention group showed significantly lower levels of depression (p=0.025) (Depression Anxiety Stress Scale (DASS-21)). wellbeina No significant effect on anxiety at post-intervention or 12-month follow-up. At post-intervention, significant reduction on anxiety found in female participants only (p=0.044), but not at 12-month follow-up (Depression Anxiety Stress Scale (DASS-21)). Significant effect on stress at post-intervention (p=0.017), but no effect at follow-up. In the high implementation intervention group, significant reduction in stress (p=0.012) compared to control. No significant effect observed in the low implementation group postintervention or at 12-month follow-up (Depression Anxiety Stress Scale (DASS-21)). NOTE: Additional sub-analyses available in full text. Academic No significant effect on school achievement motivation (School Achievement Motivation Rating Scale (SAMRS)). No significant effect on attitudes towards school at post-intervention or 12-month follow-up. In the high implementation intervention group compared to the low implementation group students experienced significantly more positive attitudes towards school (p=0.022) (the Attitudes Towards School Scale).

Targeted selec	tive promotion inte	rventions using a n	nindfulness approach							
Duthely et al.	Description									
(2017) Gratitude Meditation	sample – schools in a lo Gratitude Meditation is o school identity and grati technique, which focuse The intervention works o positive emotions of pea and happiness. Students exercises, visualisations encouraged to focus on invoke themes and feelin	w-income area in the US. designed to promote adole tude. The intervention uses s on visualisations of gration the idea that practising take ace and gratitude, which w is are guided through breatly and concentration technic objects (such as dots, flow ngs of peace, serenity and andbook: The Jewels of Ho	s a heart-centred meditation itude and positive emotions. this meditation cultivates ill increase life satisfaction hing and relaxation ques, where they are vers, candle flame) and gratitude. The programme	Facilitator: Researcher-led (lead author) Format: Classroom-based (group size not reported)	Duration and frequency: Eleven sessions, lasting between 15 and 20 minutes	Booster: No	Quality assessment: 2			
	Study Design	Results								
	QED Country: US Total sample size: 75 students in a public middle school in a low-income area 19.1% attrition at FU 58.2% female Mean age: Not reported Control: No intervention	Subjective wellbeing	Significant effect on life sati Significant effect on gratitud				e (SLSS)).			
		Academic	Significant effect on school satisfaction (ρ=0.001, η2=0.185) (the School Satisfaction Subscale (SSS) of the Multidimensional Students' Life Satisfaction Scale (MSLSS)).							

Targeted selective p	Fargeted selective promotion interventions using a mindfulness approach (cont.)										
Felver et al.	Description										
(2019) Learning to BREATHE (L2B)	sample: adolescents at- as socioeconomically di (61%)). Learning to Breathe (L2E outcomes by increasing compassion and executi are guided through six m topic: body awareness; u awareness of thoughts, self-judgments; cultivatii life; and cultivating emot Between guided session	level: Universal programme implemented and evaluated with a selective e: adolescents at-risk of poor outcomes (72% of students were classified ioeconomically disadvantaged and the school had a low graduation rate ng to Breathe (L2B) aims to promote student's wellbeing and learning nes by increasing students' emotional regulation, stress management, ission and executive function through a mindfulness approach. Students ded through six meditation sessions, which each cover a different ody awareness; understanding and working with feelings; increasing ness of thoughts, feelings and bodily sensations; reducing harmful dgments; cultivating positive emotions and mindfulness training in daily d cultivating emotional balance and empowerment through meditation. en guided sessions, students could listen to a brief five-minute audio ing of a mindfulness session guided by the lead author.			Duration and frequency: Six sessions, each 48 minutes long, delivered over nine weeks	<b>Booster:</b> Students instructed to practise mindfulness exercises at home following the intervention; only four students reported continued practice outside of the intervention	<b>Quality assessment:</b> 2 Intervention also evaluated by Lam & Seiden (2019) and Fung et al. (2019)				
	Study Design	Results									
	Cluster-RCT Country: US Total sample size: 29 students from a	Psychosocial wellbeing	Significant effect on student resilience. Students in the control group had significantly lower scores post-intervention (p=0.013 (the Social-Emotional Assets and Resilience Scales (SEARS-SF)).								
	public high school 20.7% attrition at FU 67% female Mean age: 16.4 years	Behaviour	No significant effect on behavioural difficulties (the 28-item Behaviour Assessment System for Children).								
	<b>Control:</b> Health education programming delivered by a health teacher	Academic	No significant effect on student attendance at school (the total number of absences from school pre- and post-intervention). No significant effect on students' academic grade (grades across all of their classes summed and averaged on a 100-point scale pre- and post-intervention).								

et al. Description							
<ul> <li>cills poverty catchment at Transformative Life S social-emotional phy practice to offer a co in the programme are management, body a relationships. Each u 60-minute segments overarching unit then include guided yoga in the Action-Breathin</li> </ul>	ical wellness. The intervention hbined mindfulness and physic divided into four units which fo d emotional awareness, self-re it includes 12 lessons that can Each lesson is designed to teac e and follows a predictable inst ractice and meditation practice g Centring Activities (referred to	students' stress and promoting combines yoga and mindfulness al activity approach. Lessons cus on topics of: stress gulation and building healthy	Facilitator: Trained programme providers Format: Group-based practice delivered in the regular homeroom classroom (size not reported)	Duration and frequency: Three to four days per week during the first semester of the school year. Each session lasted approximately 30 minutes	Booster: No	Quality assessment: 2	
Study Design	Results						
RCT Country: US Total sample size: 159 students at one middle school in a high-poverty	Country: US Total sample size: 159 students at bone middle school n a high-poverty catchment area of an nner city 5% attrition at FU 16.5% female Age: Not reported	<ul> <li>No significant effect on somatisation (the somatic complaints' subscale of the Child Behaviour Checklist (CBCL)).</li> <li>No significant effect on general positive or negative affect (the Positive and Negative Affect Scale for children (PANAS-C))</li> <li>Significant effect on positive coping strategies (the response to stress questionnaire (RSQ)).</li> <li>Significant effect on primary coping subscale (p=0.020, d=0.15).</li> <li>Significant effect on emotion regulation subscale (p=0.050, d=0.12).</li> <li>Significant effect on secondary coping subscale (p=0.010, d=0.14).</li> <li>Significant effect on cognitive restructuring subscale (p=0.010, d=0.13).</li> <li>Significant effect on problem-solving subscale.</li> <li>No significant effect on emotional expression subscale.</li> <li>No significant effect on acceptance subscale.</li> </ul>					
catchment area of ar inner city 6% attrition at FU 46.5% female Age: Not reported (US Grade 6 and 9)		<ul> <li>Significant effect on secondar</li> <li>Significant effect on positive the significant effect on cognitive</li> <li>No significant effect on proble</li> <li>No significant effect on emotion</li> </ul>	egulation subscale (p=0 / coping subscale (p=0 ninking subscale (p =0.0 restructuring subscale m-solving subscale. onal expression subsca	0.050, d=0.12). 010, d=0.14). 050, d=0.13). (p=0.010, d=0.20).			
catchment area of ar inner city 6% attrition at FU 46.5% female Age: Not reported	Aggression	<ul> <li>Significant effect on secondar</li> <li>Significant effect on positive the significant effect on cognitive</li> <li>No significant effect on proble</li> <li>No significant effect on emotion</li> </ul>	egulation subscale (p=0 y coping subscale (p=0) inking subscale (p=0.0 restructuring subscale m-solving subscale. onal expression subscale ance subscale. s towards violence ( <i>the</i>	0.050, d=0.12). 010, d=0.14). 050, d=0.13). (p=0.010, d=0.20). le. Attitudes Toward Violen	,		

Targeted selec	tive promotion inte	rventions using a p	oositive psychology ap	proach							
Roberts et al.	Description										
(2019) Personal Leadership Program (PLP)	students who were ident (such as those at risk of wellbeing and uses CBT (internal dialogue) and c emotion and good relation	communication with others onships. Concepts of moti	ost from the programme amme aims to promote to challenge their self-talk s in order to foster positive	Facilitator: Trained programme providers Format: Group setting (max 18 students per group); students also have a short, weekly one-on-one mentoring session with a trainer and homework activities	Duration and frequency: The programme is delivered over a full school day once a week for nine weeks	Booster: No	Quality assessment: 3				
	Study Design	Results	sults								
	QED Country: Australia Total sample size:	Psychosocial wellbeing	No significant effect on relationship quality (Parent and Classmate subscales of the Level Two Child and Adolescent Social Support Scale (CASSS)).								
	102 students in grade 10 at five government-funded high schools in Adelaide, South Australia <b>Attrition not reported</b> 62.8% female <b>Mean age:</b> 15.1 years	Subjective wellbeing	<ul> <li>Significant effect on positive emotion post-intervention (ηp<sup>2</sup>=0.21, p&lt;0.001) (Positive and Negative Affect Schedule (PANAS)).</li> <li>Significant effect on student-rated engagement post-intervention (ηp<sup>2</sup>=0.09, p&lt;0.010) (School Engagement Questionnaire (SEQ),</li> <li>Significant effect on meaning in life (ηp<sup>2</sup>=0.17, p&lt;0.001) (the Purpose in Life subscale – 14-item version, from the Psychological Wellbeing Scale (PWBS)).</li> <li>Significant effect on goal setting post-intervention (ηp<sup>2</sup>=0.30, p&lt;0.001) (the 4-item Goal Planning Questionnaire (GPQ)).</li> <li>Significant effect on self-esteem (ηp<sup>2</sup>=0.18, p&lt;0.001) (Rosenberg Self-Esteem Scale (RSES)).</li> <li>No significant effect on accomplishment (Short Grit Scale (Grit-S)).</li> </ul>								
	Control: No intervention	Academic	Significant effect on teacher	-rated student engagemei	nt (ηp²=0.11, p<0.050) (St	udent Engagement Matri	IX (SEM)).				

al.	Description							
backgrounds (Asian American, Latinx). Learning to Breathe (L2B) aims to promote skills by increasing students' emotional re executive function through a mindfulness guided through six sessions, which each of BREATHE: body awareness (Body), unders understanding and working with feelings ( feelings and bodily sensations (Attention)) and integrating mindful awareness into da the overall programme goal of Empowerm curriculum students also receive home pra			d students from predominantly minority ethnic student's wellbeing, social and emotional ulation, stress management, compassion and pproach. In the L2B curriculum students are ver a different topic following the acronym anding and working with thoughts (Reflection), motion), integrating awareness of thoughts, reducing harmful self-judgments (Tenderness), y life (Habit), with the final E representing nt/gaining an inner Edge. As part of the	ts from predominantly minority ethnic wellbeing, social and emotional tress management, compassion and In the L2B curriculum students are erent topic following the acronym d working with thoughts (Reflection), integrating awareness of thoughts, harmful self-judgments (Tenderness), bit), with the final E representing g an inner Edge. As part of the				
	Study Design	Results						
	RCT Country: US Total sample size: 145 students across three high schools 21.4% attrition at FU 67.6% female Mean age: 14.0 years Control: Wait-list control	Psychosocial wellbeing	<ul> <li>Significant effect on internalised and externalised emotional and behavioural problems (<i>the 112-item Youth Self-Report</i>).</li> <li>Significant effect on internalising problems at post-intervention (p=0.015) and over time (p&lt;0.001, d=0.51).</li> <li>Significant effect on externalising problems over time (p&lt;0.001, d=0.56).</li> <li>Significant effect on attentional problems over time (p&lt;0.010, d=0.39).</li> <li>Students with higher internalising symptoms at baseline experienced significantly greater improvements at post-intervention and at follow-up for externalising symptoms (p&lt;.001), and attentional problems (p&lt;0.001).</li> <li>Significant effect on emotional regulation at post intervention (p=0.007) and at three-month follow-up (<i>the 10-item Emotion Regulation Questionnaire for Children and Adolescents</i>).</li> <li>Significant effect on expressive suppression subscale over time (p&lt;0.050, d=0.31).</li> <li>Significant effect on emotional approach coping (<i>the 8-item Emotional Approach Coping Scale</i>).</li> <li>Significant effect on emotional processing subscale over time (p&lt;0.001, d=0.02) and over time (p&lt;0.001, d=0.58).</li> <li>Significant effect on emotional expression subscale at post-intervention (p=0.002) and over time (p&lt;0.001, d=0.61).</li> <li>Significant effect on emotional expression subscale at post-intervention (p=0.012) and over time (p&lt;0.001, d=0.61).</li> <li>Significant effect on emotional expression subscale at post-intervention (p=0.002) and over time (p&lt;0.001, d=0.61).</li> <li>Significant effect on avoidance at three-month follow-up (p&lt;0.001) and over time (p&lt;0.001, d=0.61).</li> <li>Significant effect on avoidance at three-month follow-up (p&lt;0.001) and over time (p&lt;0.001, d=0.61).</li> <li>Significant effect on rumination at post-intervention (p&lt;0.001), and over time (p&lt;0.001, d=0.61) (<i>the 3-item short form of the Avoidance and Fusion Questionnaire for Youth</i>).</li> <li>Significant effect on rumination at post-intervention (p&lt;0.001), three-month follow-up (p&lt;0.001) and over time (</li></ul>					
			<ul> <li>Significant effect on emotional processing standard</li> <li>Significant effect on emotional expression standard</li> <li>Significant effect on avoidance at three-month intervention (the 8-item short form of the Avoid Significant effect on rumination at post-intervention)</li> </ul>	ubscale at post-interve ubscale at post-interve follow-up (p<0.001) at lance and Fusion Quest ention (p<0.001), three-	ntion (p=0.002) and ov ntion (p=0.012) and ov nd over time (p<0.001, <i>tionnaire for Youth</i> ). month follow-up (p<0.0	er time (p<0.001, d=0.5 er time (p<0.001, d=0.6 d=0.90). No significant	I). effect at post-	

### Targeted indicated promotion interventions using a positive youth development approach

Tokolahi et al. (2018) Kia Piki te Hauora: Uplifting our Health and Wellbeing

# Description

Target level: Indicated The Kia Piki te Hauora: Uplifting our Health and Wellbeing is a targeted indicated programme for students presenting with early symptoms of anxiety, depression, low self-esteem and/or poor participation in typical occupations (selected based on the school personnel's judgement of the child). The programme aims to prevent anxiety and depression and promote self-esteem. Session topics include: Introduction to occupation; Sleep and rest occupations; Active occupations; Communication in occupations; Coping; Values and identity; Integrative Summary. Delivery methods include didactic presentation, peer exchange, direct experience and personal exploration.

Groups of 7–12 eight weeks of a students school term	
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Study Design	Results	
Cluster RCT Country: New Zealand Total sample size: 142 students from	Subjective wellbeing	No significant effect on child-rated self-esteem (Rosenberg Self Esteem Scale (RSES) and Single Item Self Esteem Scale (SISES)). No significant effect on parent-reported self-esteem (Rosenberg Self Esteem Scale (RSES) and Single Item Self Esteem Scale (SISES)). No significant effect on child-rated wellbeing (Student Life Satisfaction Scale (SLSS)).
14 schools (10–12 students per school) in Auckland 11.3% attrition at FU Gender not reported Age range: 11–13 years Control: Waitlist control	Psychological wellbeing	<ul> <li>No significant effect on child-rated anxiety (<i>Multidimensional Anxiety Scale for Children – Short form (MASC-10)</i>).</li> <li>No significant effect on parent-rated anxiety (<i>Revised Child Anxiety and Depression Scale – Short version (RCADS</i>)).</li> <li>Significant effect on teacher-rated anxiety post-intervention (Estimated difference (ED)=3.2, p=0.001) (<i>School Anxiety Scale (SAS)</i>).</li> <li>Subscale analyses showed significant reduction in teacher-rated child anxiety on the general anxiety subscale (ED=1.5, p=0.017) and on the school anxiety subscale (ED=1.6, p=0.011).</li> <li>No significant effect on child-rated depression (<i>Child Depression Inventory 2nd edition: Self Report [Short form] (CDI2)</i>).</li> <li>No significant effect on parent-rated depression (<i>Revised Child Anxiety and Depression Scale – Parent report, short version (RCADS</i>)).</li> </ul>
	Academic	<ul> <li>Significant effect on child-rated participation (Estimated difference=-1.30, p=0.009) (Canadian Occupational Performance Measure (COPM)).</li> <li>Effect deemed not clinically significant based on defined thresholds. When considering crossover data, this significance disappears and was thus interpreted as having no significant impact on overall participation (Estimated difference=0.6, p=0.076).</li> <li>No significant effect on parent-rated participation (Canadian Occupational Performance Measure (COPM)).</li> </ul>

To download the full report, visit: https://www.eif.org.uk/report/adolescent-mental-health-a-systematic-review-on-the-effectiveness-of-school-based-interventions

# **Appendix B.1: Prevention**

#### Notes

- See page 120 for a detailed glossary and list of abbreviations used in these tables, and page 121 for full references for listed reviews and studies.
- Where these tables mention significant effects, this refers to the intervention group experiencing a significantly larger effect than the control group in the desirable direction.
- Significant effects can be improvements in positive outcomes (such as wellbeing or resilience) or reductions in symptoms (such as depression or anxiety). Where the intervention group experienced significantly worse outcomes than the control group, these are listed as 'adverse' effects.
- Effects (for meta-analyses: pooled effects) were deemed significant where p was less or equal than 0.05 regardless of the significance level applied by individual studies.

### **Table of systematic reviews**

Systematic rev	views of me	ental health i	nterventions aimed a	t preventing me	ental health	difficulties	
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Carnevale et al., 2013 Universal adolescent depression prevention programmes: a review	Narrative synthesis	Weak	<ol> <li>Adolescents</li> <li>Universal adolescent depression prevention programme studies that can be administered by school nurses</li> <li>RCTs, QEDs</li> <li>Depressive symptoms</li> </ol>	Out of school interventions; interventions with no pre/post measures, studies that did not report the psychometric properties of the outcome measures	2000- 2010	11	<ul> <li>No pooled effect size provided:</li> <li>Studies reviewed identified small to moderate positive outcomes as rated on the depression instruments.</li> <li>Only three of the programmes implemented demonstrated adoption and sustainability.</li> </ul>

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Feiss et al., 2019 A systematic review and meta-analysis of school-based stress, anxiety and depression prevention programmes for adolescents	Meta- analysis	Strong	<ol> <li>11–18 years, US-only studies</li> <li>Universal programmes aimed at reducing stress, depression/ depressive symptoms, anxiety or other internalising mental health problems</li> <li>RCTs, QEDs</li> <li>Stress, anxiety, depression/ depressive symptoms</li> </ol>	<ul> <li>Non-peer- reviewed literature; non-empirical studies</li> </ul>	1990– 2018	42 studies: 38 studies with depression outcomes; 20 studies with anxiety outcomes; 4 studies with stress outcomes	<ul> <li>Pooled effect sizes:</li> <li>Reduced depressive symptoms: (t(116)=-3.120, p&lt; 0.01, d(intervention)=-0.62, d(control)=-0.22 across 38 studies (6,741 participants) high heterogeneity among both intervention effects (l<sup>2</sup>=96.91%) and control effects (l<sup>2</sup>=95.07%).</li> <li>Reduced anxiety symptoms: t(54)=-3.72, p&lt;0.001, d(intervention)=-0.70, d(control)=-0.14, across 20 studies(2,166 adolescents); high heterogeneity among intervention effects (l<sup>2</sup>=89.26%) and moderate to high heterogeneity among control effects (l<sup>2</sup>=63.24%).</li> <li>Stress: No significant effects, across 4 studies (420 adolescents), high heterogeneity.</li> <li>Follow-up: No significant effects on depressive symptoms (across 17 studies) or anxiety symptoms (across six studies), no evidence in relation to stress (0 studies).</li> </ul>
Gee et al., 2020 Practitioner review: effectiveness of indicated school-based interventions for adolescent depression and anxiety – a meta- analytic review	Meta- analysis	Strong	<ol> <li>10–19-year-olds with elevated symptoms of depressive and/or anxiety symptoms</li> <li>School-based manualised psychological interventions designed to decrease depressive and/or anxiety symptoms</li> <li>RCTs</li> <li>Anxiety or depression outcomes</li> </ol>	• Studies with a sample below 10 years excluded	Up to April 2019	45	<ul> <li>Standardised mean difference:</li> <li>Reduced depressive symptoms: (SMD=0.45)</li> <li>Data from 2,895 young people, 1,535 of whom were randomised to receive one of the school-based interventions l<sup>2</sup>=81%; removal of one outlier reduced heterogeneity (l<sup>2</sup>=61%) and ES (SMD=0.34).</li> <li>Intervention type: CBT [k=22], interpersonal therapy [k=4], and other psychological interventions (no sports or dietary components) [k=5].</li> <li>IPT-based interventions had the strongest effects (k=4; SMD=-0.69), followed by 'other', k=5; SMD=-0.60, and CBT-based interventions, k=22 (SMD=-0.26).</li> <li>Reduced anxiety: (SMD=0.61)</li> <li>Data from 1,075 young people, 528 of whom were randomised to receive one of the school-based interventions.</li> <li>I<sup>2</sup>=84%; true effect size could vary from small to large.</li> <li>Most studies come from HICs in North America and Europe.</li> <li>Intervention type: CBT [k=10] and other psychological interventions (no sports or dietary components) [k=5].</li> </ul>

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
O'Dea, Calear & Perry, 2015 Is e-health the answer to gaps in adolescent mental health service provision?	Narrative synthesis	Weak	<ol> <li>1 12–18 years</li> <li>2 Online or mobile application designed to prevent or treat anxiety or depression</li> <li>3 RCTs</li> <li>4 Depression and/or anxiety symptoms</li> </ol>	No exclusion criteria reported	Jan 2014-Jan 2015	6	No pooled effect size provided: • Limited evidence.
Scott, 2015 A meta-analysis of school-based interventions for adolescent depression	Meta- analysis	Strong	<ol> <li>12–17 years</li> <li>School-based interventions for preventing depression</li> <li>RCTs, QEDs</li> <li>Depression symptoms</li> </ol>	Non-English papers	1990– 2014	57	<ul> <li>Standardised mean difference:</li> <li>Reduced depression: SMD=0.13, significant heterogeneity [Q].</li> <li>Selective and indicated prevention programmes showed significantly greater improvement than universal prevention programmes; the effect size of this difference was 0.73.</li> <li>Marginal improvements of medium-term outcomes (after 7–12 months) across 18 studies (SMD=0.06); no significant effects across five studies after more than 12 months.</li> <li>Small number of interventions (7 of 57) reported adverse effects.</li> <li>Intervention type: CBT, interpersonal therapy, yoga; 52% universal, 32% selective/indicated, 15% treatment.</li> </ul>
<b>Shelemy, Harvey</b> <b>&amp; Waite, 2020</b> Meta-analysis and systematic review of teacher-delivered mental health interventions for internalising disorders in adolescents	Meta- analysis	Strong	<ol> <li>11–18 years</li> <li>Teacher-delivered interventions</li> <li>Any research design</li> <li>Internalising disorders/DSM-5 disorder diagnoses</li> </ol>	Non-English papers, non- peer-reviewed literature	Up to Jan 2016	52	<ul> <li>Pooled effect size at post-intervention:</li> <li>Reduced depression (g=-0.12, l²=19%), across 29 studies.</li> <li>Reduced anxiety: (g=-0.13, l²=11%), across 26 studies.</li> <li>Reduced PTSD symptoms (g=-0.66, l²=0%), across four studies.</li> <li>Several studies (5 of 7) reported larger effects for at-risk populations.</li> <li>Pooled effect size at follow-up:</li> <li>Depression: No significant effect across 20 studies.</li> <li>Anxiety (g=-0.08, l²=0%), across nine studies.</li> <li>Intervention type: Universal, teacher delivered interventions (CBT SEL, mindfulness, etc.).</li> <li>No overall significant effect of selective or indicated interventions on depression or anxiety outcomes.</li> </ul>

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Ssegonja et al., 2019 Indicated preventive interventions for depression in children and adolescents: a meta-analysis and meta-regression	Meta- analysis	Moderate	<ul> <li>1 12–19 years</li> <li>2 Group-based CBT indicated preventive interventions with or without booster sessions</li> <li>3 RCTs</li> <li>4 Cases of a depressive disorder (dichotomous); depressive symptoms over time (continuous)</li> </ul>	• Non-English papers	Sept 2014-Feb 2018	38	<ul> <li>Pooled effect size at post-intervention:</li> <li>Reduced the incidence of depressive disorder: RR=0.43, across eight comparisons (seven trials) and 1,461 participants.</li> <li>Reduced symptom severity of depression: d=-0.22 across 43 comparisons (33 trials) and 7,525 participants, heterogeneity not reported.</li> <li>Pooled effect size at follow up:</li> <li>Effects on incidence were significant at six months (seven trials, involving 1,948 participants), 12 months (six trials, involving 1,246 participants) and post 12 months (six trials, involving 1,311 participants); in trials with passive comparator, effects on incidence were significant at six-month and 12-month follow-up but neither at post-intervention nor at post-12 months (across four-six trials).</li> <li>Effects on symptoms remained significant at six months (21 trials, involving 4,751 participants), 12 months (17 trials, involving 1,896 participants); in trials with passive comparator effects were significant at all times (eight to 26 trials).</li> </ul>
Van Loon et al., 2020 Can schools reduce adolescent psychological stress? A multilevel meta- analysis of the effectiveness of school-based intervention programmes	Meta- analysis	Strong	<ol> <li>10-18 years</li> <li>School-based interventions that promote psychosocial functioning (e.g., stress reduction, mental health, wellbeing, or coping skills)</li> <li>RCTs, QEDs</li> <li>Psychological stress (self-report)</li> </ol>	• Non-English papers	Up to June 2019	54	<ul> <li>Pooled effect size at post-intervention:</li> <li>Stress: d=0.543. Removal of 10 outliers: d=0.276, significant heterogeneity</li> <li>Effects on school stress (five studies) were significant but not on social stress</li> <li>The target group moderated the effect, demonstrating significant effects only in samples based on self-selection or screening, for instance on high stress or anxiety levels.</li> <li>Pooled effect size at follow-up:</li> <li>Larger effects were found at follow up than at post-intervention</li> <li>Intervention type: Mindfulness (k=19 studies), relaxation techniques (k=21), cognitive behavioural techniques (k=25); no intervention characteristics moderated the effects</li> </ul>

			nterventions aimed a				
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
<b>Calear et al., 2015</b> A systematic review of psychosocial suicide prevention interventions for youth	Narrative synthesis	Moderate	<ol> <li>12–25 years</li> <li>Psychosocial interventions, (i.e. psycho-therapy [e.g., CBT, DBT, problem- solving therapy], psycho-education or community treatment) for the treatment or prevention of suicidal behaviour</li> <li>RCTs</li> <li>Suicidal behaviour (self-harm, ideation, attempt or completion)</li> </ol>	<ul> <li>Non-English papers, non- peer-reviewed literature</li> <li>Gatekeeper interventions (if they did not have adolescent outcomes)</li> </ul>	Up to Dec 2014	28	<ul> <li>No pooled effect size provided:</li> <li>Motivational interviewing (targeted indicated support), in combination with 'support' and coping skills training, individual or group-based, one or 13 sessions: mixed evidence post-intervention and at follow-up.</li> <li>Psychoeducation: Signs of Suicide (SOS), teacher, two sessions, group-based: post-intervention and at follow-up reduced suicide attempts, but not in suicide ideation.</li> <li>Intensive psychotherapy for Depressed Adolescents with Suicidal Risk (IPT-A-IN), 12 sessions: reduced suicide ideation (one trial), no follow-up results reported.</li> </ul>
Harlow, Bohanna & Clough, 2014 A systematic review of evaluated suicide prevention programs targeting indigenous youth	Narrative synthesis	Moderate	<ol> <li>'Indigenous youth living in Australia, Canada, New Zealand, or the United States'</li> <li>Suicide prevention interventions</li> <li>Any quantitative or qualitative research design</li> <li>Suicide or self-harm</li> </ol>	<ul> <li>Publications that did not report indigenous data separately from non- indigenous data were excluded</li> </ul>	Search date: Sept 2012; starting date not specified	11	No pooled effect size provided: • Zuni Life Skills Development Model: significant reductions in suicidal thoughts and behaviours, reduced feelings of hopelessness, increased problem solving, increased suicide intervention skills.

Systematic reviews	of mental healt	h interventions ai	med at preventing suicide an	d self-harm (cont.)			
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Klimes-Dougan, Klingbeil & Meller, 2013 The impact of universal suicide-prevention programmes on the help-seeking attitudes and behaviours of youths	Narrative synthesis	Weak	<ol> <li>13–18 years</li> <li>Suicide-prevention programming, efforts to promote help- seeking</li> <li>Any research design</li> <li>Help-seeking attitudes or behaviours</li> </ol>	Non-peer- reviewed literature	Unclear	18	No pooled effect size provided: • Gatekeeper training: Yellow Ribbon; reduced not increased help-seeking; females had better outcomes; from the table it is unclear whether they experienced larger intervention effects or had better outcomes to start with.
Wei, Kutcher, & LeBlanc, 2015 Hot idea or hot air: a systematic review of evidence for two widely marketed youth suicide prevention programmes and recommendations for implementation	Narrative synthesis	Moderate	<ol> <li>Age not reported</li> <li>SOS &amp; Yellow Ribbon interventions</li> <li>Any research design</li> <li>Any outcomes</li> </ol>	Non-English papers, non- peer-reviewed literature	2014	5	<ul> <li>No pooled effect size provided:</li> <li>The Yellow Ribbon programme was ranked as 'ineffective' using OJPR (clearinghouse framework)</li> <li>Three SOS studies were ranked as 'inconclusive evidence' based on the OJPR (clearinghouse framework); one SOS study was ranked as having 'insufficient evidence' on OJPR (clearinghouse framework).</li> </ul>

# **Appendix B.2: Prevention**

## Table of primary studies

. D	Description									
T c u b	confidence and resilience uses games and challeng	e and reduce depressive sy	rvention which aims to build ymptoms. The programme how thinking can influence can reframe our thinking	Facilitator: Not reported Format: Group sessions with 13 in Intervention group, and 14 in Control group	<b>Duration and frequency:</b> Four sessions x 40 minutes each	Booster: No	Quality assessmen 3			
e S Study	Study Design	Results								
C T 0 S 1 0 N C	RCT Country: Ireland Total sample size: 27 male students from one Irish secondary school 14.8% attrition at FU 0% female Mean age: 15.7 years Control: No ntervention	Depression	No significant effect on dep	ressive symptoms ( <i>Center</i>	for Epidemiologic Studies	Depression Scale for Chi	dren (CES-DC)).			

Universal interventions using a cognitive behavioural therapy approach (cont.)										
Garcia- Escelara et al.	Description									
(2020) Spanish Version of the Unified Protocol for the Treatment of Emotional Disorders in Adolescents	to prevent anxiety and d focus on building and ke and behaviours, behavio in your thinking, awaren	lepression. Students comp eeping motivation, getting	to know your emotions al awareness, being flexible ces, situational emotion	Facilitator: Psychologists (Doctoral and Master's students in clinical psychology) Format: Group sessions (approximately 30 students) plus homework	<b>Duration and frequency:</b> Nine weekly sessions lasting 55 minutes	Booster: No	Quality assessment: 1			
(UP-A)	Study Design	Results								
	Cluster RCT Country: Spain Total sample size: 151 students from one secondary school in Madrid 20% attrition at FU	Depression	No significant effect on depression symptoms ( <i>Depression Questionnaire for Children (CDN), modified version</i> ). • For students with elevated baseline depression scores, depression scores significantly decrease (improved) post-intervention (d=0.96, p=0.013) and at three-month follow-up (d=0.88, p=0.026).							
		Anxiety	No significant effect on anxiety symptoms (Anxiety Scale for Children).							
	54.3% female <b>Mean age:</b> 15.1 years <b>Control:</b> Wait-list control	Psychosocial wellbeing	No significant effect on life satisfaction (Satisfaction with Life Scale for Children (SWLS-C)). No significant effect on quality of life ( <i>Kidscreen-10 (KIDSCREEN Group)</i> ). No significant effect on self-esteem ( <i>Escala de autoestima (Self-Esteem Scale</i> )).							
		Behaviour	No significant effect on frequency of disruptive behaviour (General Indiscipline Scale (Escala de Indisciplina General, modified version). No significant effect on peer problems (Spanish version of Strengths and Difficulties Questionnaire (SDQ) – Peer problems subscale).							
		Academic	No significant effect on self-perceived school performance (School Adjustment Brief Scale (Escala Breve de Ajuste Escolar; EBAE-10)).							
		Other: School adjustment	No significant effect on scho	ool adjustment (School Ac	ljustment Brief Scale (Esc	ala Breve de Ajuste Esco	olar; EBAE-10)).			

Garmy et al. (2019)	Description								
Depression in Swedish Adolescents (DISA)	aims to prevent depres version of the indicated uses cognitive behavior communication training	ural techniques designed to g and training in problem-so social skills and networks	rogramme is an adapted tress course. The programme o change negative thoughts,	Facilitator: School tutors (12 school social workers, 9 school nurses, 9 teachers, 2 counsellors, 3 school assistants) Format: Group sessions with an average of 12–13 students	<b>Duration and frequency:</b> Ten sessions over 10 weeks lasting 1.5 hours each	Booster: No	Quality assessment		
	Study Design	Results							
	QED Country: Sweden Total sample size: 1,129 students from 21 schools in six Swedish municipalities	Depression	Significant effect on depress Epidemiological Studies Dep		.27, p<0.001) but no signif	îcant effect at 12-month	follow-up (Centre for		
	Age range: 13–15 years Control: No intervention	Subjective wellbeing	Significant effect on self-rep <i>Qol (EQ) visual analogue sca</i>		ths (d=0.29, p<0.001) but	no significant effect at 1	2-month follow-up ( <i>Euro</i>		

Universal interventions using a cognitive behavioural therapy approach (cont.)								
Kozina (2019)	Description							
My FRIENDS	(adolescent version of F in young people. The pro- with the group, learning one's thoughts and feelin emotions, relaxation, dev unhelpful thoughts, deve with everyday stressors and the importance of p	ogramme includes topics s about emotions and the re ngs, learning how to cope veloping positive self-talk, eloping problem-solving sk and reward oneself for suc	hich aims to prevent anxiety such as becoming acquainted elationship between with worries, recognising challenging negative and iills, planning how to cope ccess, building on success,	Facilitator: Psychologist Format: Group sessions, homework, parent component	Duration and frequency: Ten weekly workshops of 45 minutes each, two booster sessions, two parent meetings	<b>Booster:</b> Yes: one and two months after programme completion	Quality assessment: 3	
	Study Design	Results						
	QED Country: Slovenia Total sample size: 78 grade 8 students from two schools Attrition: Not reported 55% female Age range: 13–14 years Control: No intervention	Anxiety	No significant effect on anxi	ety (AN-UD Anxiety Scale)				
		Psychosocial wellbeing	No significant effect on behavioural and emotional problems (Slovenian version of the Strength and Difficulties Questionnaire (SDQ) – internalising (emotional problems and peer problems) subscales).					

Universal interventions using a cognitive behavioural therapy approach (cont.)									
Ohira et al. (2019)	Description								
The Journey of the Brave	programme which aims	e programme is a cognitive to prevent anxiety-related p eloping 'anxiety hierarchies	problems by utilising	Facilitator: Teachers Format: Individual work and homework	<b>Duration and</b> <b>frequency:</b> Seven sessions of 50 minutes each	Booster: No	Quality assessment: 2		
	Study Design	Results							
	QED Country: Japan Total sample size: 472 students from three public junior high schools in a single prefecture	Anxiety	No significant effect on anxie	ety symptoms (Spence Ch	nild Anxiety Scale (SCAS))				
	<b>16.4% attrition at FU</b> 44.5% female <b>Age range:</b> 12–14 years <b>Control:</b> No intervention	Psychosocial wellbeing	No significant effect on emo						

Universal interventions using a cognitive behavioural therapy approach (cont.)									
Perry et al.	Description								
(2017) SPARX-R	a digital component. It a providing cognitive beha world that has been over with the mission of resto finding hope, being activ recognising unhelpful th it all together. Key skills scheduling and behaviou	ims to prevent depression wioural skills: the users na rrun by GNATs (gloomy, ne pring balance to the world. e, dealing with strong emo oughts, challenging unhelp taught by the programme	vigate through a fantasy gative, automatic thoughts) Topics covered include tions, overcoming problems, oful thoughts, and bringing are relaxation, activity gulation, interpersonal skills,	Facilitator: Virtual guide with teacher supervision Format: Individually completed during class period	Duration and frequency: Seven modules taking 20–30 minutes each, completed over the course of five to seven weeks	Booster: No	Quality assessment: 3		
	Study Design	Results							
	Cluster RCT Country: Australia Total sample size: 540 students from 10	Depression	<ul> <li>Significant effect on depression at post-intervention (d = 0.29, p &lt;0.001) and six-month follow-up (d=0.21, p=0.010). No significant effect maintained to 18-month follow-up (<i>The Major Depressive Inventory (MDI</i>)).</li> <li>For students who completed less than four of seven modules, there was no significant effect on depression at post-intervention or six-month follow-up. However, there was a significant effect on depression at 18-month follow-up (p=0.010).</li> </ul>						
	secondary schools 80.7% attrition at FU	Anxiety	No significant effect on anxi	ety (Spence Anxiety Scale	(SCAS)).				
	63.1% Female <b>Mean age:</b> 16.7 years	Suicidality	No significant effect on suic	idality (3 items from the Yo	outh Risk Behaviour Surve	y).			
	<b>Control:</b> Other intervention (lifeSTYLE)	Mental health literacy	No significant effect on stigr	na towards depression (D	epression Stigma Scale (I	DSS)).			
		Academic	No significant effect on acad	lemic achievement (Exam	results from Australian Te	ertiary Admissions Rank).			

Universal interventions using a cognitive behavioural therapy approach (cont.)										
Schleider et al. (2019)	Description									
Growing Minds – Single Session Interventions (GM-SSIs)	which aims to prevent d Content focuses on intro	puterised single session g epression, anxiety and beh oducing mindsets and prov	rowth mindset intervention aviour-conduct problems. vides information and self- self-regulation mindsets and	Facilitator: Computerised intervention Format: Group-based classroom setting, self-administered on computers	<b>Duration and frequency:</b> One session of 45 minutes	Booster: No	Quality assessment: 1			
	Study Design	Results								
	QED Country: US Total sample size: 222 students from	Depression	Significant effect on depression at three-months post-intervention (d=0.23, p=0.039) (Short Mood and Feelings Questionnaire (SMFQ)). Significant reduction in likelihood (odds) of reporting elevated depression symptoms (>11) at three months post-intervention (d=0.29, p=0.033) (Short Mood and Feelings Questionnaire (SMFQ)).							
	four rural high schools	Anxiety	No significant effect on anxi	ety symptoms (Avoidance	e subscale from the Social	Phobia Inventory).				
	5% attrition at FU 100% female	Behaviour	No significant effect on cond	duct problem behaviours (	(Rochester Youth Develop	ment Study).				
	Mean age: 15.2 years Control: Active control (HEART intervention)	Other: Growth mindsets of intelligence and personality	Significant increase in growt post-intervention. ( <i>Brief 3-ite</i>			th mindset of intelligen	ce (R²=0.04, p<0.001)			

#### Universal interventions using a cognitive behavioural therapy approach (cont.)

### Teesson et al. (2019) Climate Schools Combined Mental Health and Substance Use

## Target level: Universal

Description

The Climate Schools Combined Mental Health and Substance Use programme is a cognitive behavioural therapy programme which aims to prevent and reduce mental health problems, improve mental health knowledge, and improve knowledge of substance use. Students on the Combined Programme completed one year of the Climate Schools – Substance Use programme (comprising an online cartoon and teacher-delivered component focused on educating students about substance misuse and preventing the use of alcohol and cannabis) as well as one year of the Climate Schools – Mental Health programme (based on cognitive behavioural principles, also using online cartoons and a teacher-delivered component focused on educating students about mental health and preventing the development or worsening of anxiety and depression).

Facilitator: Teachers Format: Classroom- based activities	Duration and frequency: Delivered during mandatory Health Education classes; substance use programme one year: mental bealth	Booster: No	Quality assessment: 1
	programme one year; mental health programme one year; total delivery over two years		

Study Design	Results				
Cluster RCT Country: Australia	Depression	No significant effect on depressive symptoms at any timepoint (Patient Health Questionnaire-8 (PHQ-8)). No significant effect on likelihood of possible depression diagnosis (PHQ-8 score ≥10).			
Total sample size: 6,386 students from 71 secondary schools across three Australian states (New South	Anxiety	Significant effect on anxiety symptoms at 12-month follow-up (d=−0·11, p=0.010) and 30-month follow-up (d=-0.12, p=0.029). Students in the combined intervention group had significantly reduced anxiety symptoms compared to active control. No significant effect at 24-month follow-up ( <i>Generalised Anxiety Disorder Assessment 7-item version (GAD-7)</i> ). No significant effect on the likelihood of possible anxiety diagnosis ( <i>GAD-7 score ≥10</i> ).			
Wales, Western Australia and Queensland) 33% attrition at FU	Mental health literacy	Significant effect on knowledge of mental health at 24-month follow-up (d=0.17, p<0.001). No significant effect at 12-month or 30-month follow-up ( <i>13-item multiple-choice scale, purpose designed</i> ).			
54.8% female Mean age: 13.5 years Control: Active control: usual health education classes, including lessons on alcohol, drugs	Other: Knowledge of substance use	Significant effect on knowledge of alcohol at 12-month (d=0.57, 95%Cl 0.47, 0.66, p<0.001), 24-month (d=0.40, p<0.001) and 30-month follow-up (d=0.26, p<0.001). Students in the combined intervention significantly increased their knowledge over time compared to active control ( <i>16-item scale adapted from the Knowledge-of-alcohol Index</i> )). Significant effect on knowledge of cannabis at 12-month (d=0.59, p<0.001), 24-month (d=0.33, p<0.001) and 30-month follow-up (d=0.17, p=0.002). Students in the combined intervention significantly increased their knowledge over time compared to active control ( <i>16-item scale sca</i>			
and mental health. NOTE: The trial also compared the effects of the combined intervention to the mental health programme only, and the substance use programme only in sub-	Other: Alcohol use	Significant effect on the likelihood of having an alcoholic drink at 12-month (OR=0.52, p=0.042), 24-month (OR=0.36, p=0.003), and 30-month follow-up (OR=0.25, p<0.001). Students in the combined intervention were significantly less likely to consume a standard alcoholic drink within the last six months ( <i>questionnaire items derived from previous Climate Schools trials, purpose designed</i> ). Significant effect on the likelihood of heavy episodic drinking at 12-month (OR=0.26, p=0.036), 24-months (OR=0.18, p=0.012) and 30-month follow-up (OR=0.15, p=0.006). Students in the combined intervention were significantly less likely to drink five or more standard alcoholic drinks on one occasion within the last six months ( <i>questionnaire items derived from previous Climate Schools trials, purpose designed</i> ).			
analyses.	NOTE: Main effects reported compare effects of the combined intervention to active control. Additional analyses comparing the combined intervention to mental health programme and substance use programme independently are available.				

Universal interventions using a mindfulness approach										
Burckhardt et	Description									
al. (2017) Acceptance and Commitment Therapy	and mindfulness technic It is a group-based progr and enhance wellbeing b	ques and is designed for ye amme that aims to prever by utilising ACT componen		Facilitator: Researcher-led (lead author, clinical psychologist) Format: Group sessions of approximately 15 students	Duration and frequency: In total, students received 4.6 hours of the intervention in 25-minute sessions	<b>Booster:</b> No	Quality assessment: 3			
	Study Design	Results								
	QED Country: Australia	Depression	No significant effect on depression symptoms (Depression, Anxiety and Stress Scale – Short Form (DASS-21) – Depression subscale).							
	<b>Total sample size:</b> 48 students from one private school	Anxiety	No significant effect on anxiety symptoms (Depression, Anxiety and Stress Scale – Short Form (DASS-21) – Anxiety Subscale).							
	<b>41.7% attrition at FU</b> 42% female <b>Mean age:</b> 15.6 years <b>Control:</b> Usual care ('Pastoral Care')	Stress	No significant effect on stress (Depression, Anxiety and Stress Scale – Short Form (DASS-21) – Stress subscale).							
		Wellbeing	No significant effect on wellb	being (Flourishing Scale).						

Universal interventions using a psychotherapy approach									
Burckhardt et al. (2018) Dialectical Behavioural Therapy	Description								
	<b>Target level:</b> Universal The DBT programme is a universal group programme conducted in one Anglican all-girls private high school in Australia. It aims to prevent mental health problems by having students complete modules on emotion regulation, mindfulness, distress tolerance and interpersonal relationships.			Facilitator: Clinical psychologist Format: Group sessions (size not reported) and homework	<b>Duration and</b> <b>frequency:</b> Six workshops of 50 minutes each	Booster: No	Quality assessment: 3		
	Study Design	Results							
	RCT Country: Australia Total sample size: 96 students from one Anglican all-girls private high school 7.3% attrition at FU 100% female Mean age: 15.6 years Control: Usual classes learning about future careers	Depression	No significant effect on depressive symptoms (Centre for Epidemiologic Studies – Depression Scale 8-item version (CES-D8)).						
		Anxiety	No significant effect on anxiety symptoms (PROMIS-Anxiety Short Form Scale).						
		Aggression	No significant effect on anger (PROMIS-Anger Short Form Scale).						
		Psychosocial wellbeing	No significant effect on emo	otion regulation (Difficultie	s in Emotion Regulation S	cale (DERS)).			

Targeted selective interventions using a cognitive behavioural therapy approach									
Brown et al. (2019) The DISCOVER 'How to Handle Stress' Workshop Programme	Description								
	programme intervention at-risk backgrounds (eth reduce stress, depressic common personal and a	e is a targeted selective co for pupils between the ag inic minorities, socioecono on and anxiety by focusing	ognitive behavioural therapy e of 16 and 19 who are from omic deprivation). It aims to on methods for coping with anxiety and worry), dealing and exam anxiety	Facilitator: Two clinical psychologists and one assistant psychologist Format: Group sessions of up to 15 students plus homework	Duration and frequency: One-day workshop, 20/30-minute follow-up call	<b>Booster:</b> Yes: offered two further follow-up calls within 12 weeks	Quality assessment: 2		
	Study Design	Results							
	Cluster RCT Country: UK Total sample size: 155 students from 10 secondary schools in London, UK 8.4% attrition at FU 81.3% female Mean age: 17.3 years NOTE: 7% Asian or British Asian, 44.5% Black or Black British, 0.6% Chinese, 5.2% Mixed background, 10.3% Other, 9.5% other British, 0.6% prefer not to say, 21.9% White or White British Control: Wait-list control	Depression	Significant effect on depression at three months post-intervention (d=0.27, p=0.021). Significantly fewer depressive symptoms over time ( <i>Mood and Feelings Questionnaire (MFQ</i> )).						
		Anxiety	Significant effect on anxiety at three months post-intervention (d=0.25, p=0.018) ( <i>Revised Child Anxiety and Depression Scale</i> ( <i>RCADS</i> )).						
		Subjective wellbeing	Significant effect on quality of life at three months post-intervention (d=0.36, p=0.009) (the Paediatric Quality of Life Enjoyment and Satisfaction Form (PQ-LES-Q)).						
		Psychological wellbeing	Significant effect on emotional symptoms at three months post-intervention (d=-0.28, p=0.008) ( <i>Revised Child Anxiety and Depression Scale (RCADS)</i> ).						
		Psychosocial wellbeing	Significant effect on mental wellbeing at three months post-intervention (d=0.46, p=0.001) (The Warwick-Edinburgh Mental Well Being Scale (WEMWBS)).						

Terry et al. (2020) Footprints	Description								
	<b>Target level:</b> Targeted selective Footprints is a targeted selective cognitive behavioural therapy programme for students with poor academic performance and/or disruptive behaviour. It aims to promote wellbeing and prevent behavioural and emotional problems by utilising motivational interviewing (MI) and common modular cognitive- behavioural approaches, including psychoeducation, goals setting, behavioural activation, cognitive restructuring, problem solving, social skills training, relaxation training and enhancement of protective factors. In the current study,			Facilitator: Doctoral psychology students (advanced child and family therapy practice) Format: Group sessions (5-8 students) and	Duration and frequency: Two 40-minute one- to-one MI sessions and six group-based sessions	Booster: No	Quality assessmen 3		
	Footprints was implemented as part of a whole-school approach to supporting young people's mental health and behaviour (PBIS).         Study Design       Results			individual sessions plus homework					
	QED Country: US Total sample size:	Psychosocial wellbeing	Significant effect on self-efficacy for behavioural regulation post-intervention (d=0.86, p<0.001) ( <i>Children's Perceived Self-Efficacy (CPSE</i> )).						
	43 students from a south-eastern middle school	Academic	Significant effect on academic grades post-intervention (d=0.53, p=0.050) (official academic transcripts, converted to a 100-point scale).						
	Attrition not reported 39.5% female		Significant effect on academic motivation post-intervention (d=1.24, p<0.001) (Perceived School Experience Scale (PSES)).						
	Age range: 6th-8th grade (ages 11-13 years)	Psychological wellbeing	Significant effect on behavioural and emotional symptoms post-intervention (d=0.41, p=0.04) ( <i>Pediatric Symptom Checklist</i> ( <i>PSC</i> )).						

t al.,	Description									
9 s nme	programme for pupils be depressive symptoms. I	etween the age of 13 a t aims to support adol ninking patterns, incre heir coping flexibility.	cognitive behavioural therapy ind 19 who are experiencing escents to identify negative ase their involvement in pleasant iuidebook.	Facilitator: Five psycho- educators (counsellors) and one psychologist Format: Group sessions of 5–9 students, plus homework	Duration and frequency: Six sessions over six weeks	Booster: No	Quality assessment 1			
	Study Design	Results								
	RCT Country: Canada Total sample size: 74 students from three schools in Montreal, Canada 4% attrition at FU 66% female Mean age: 15.5 years Control: No intervention	Depression	Significant effect on likeliho 33.0, p<0.050). Students in t Interview for DSM-IV Disorde Significant effect on depress Epidemiologic Studies Depre Significant effect on depress Clinical Interview for DSM-IV No significant effect on anxi (SCAS)).	the control group were six ers). sive symptoms post-inter ession Scale (CES-D)). sive symptoms post-inter Disorders).	times less likely to develo vention (d=-0.040, p=0.048 vention (d=-0.51, p=0.010)	op MDD by six months (t/ 3) but not at six-month fo but not at six-month foll	ne Structured-Clinical Ilow-up (Center for ow-up (the Structured-			
		Psychosocial wellbeing	No significant effect on soci adults)). Significant effect on frequer increased frequency of plea <i>Events Schedule (PES)</i> ). Significant effect on interact with parents and decreasing follow-up (Mesures de l'Ada <i>Adjustment of Quebec Adole</i>	ncy of pleasant activities p sant activities. Effect not tions with parents post-in g conflict with parents, rat ptation Sociale et Person	post-intervention (d=0.49, significant at six-month fo tervention (d=0.34, p=0.02 her than increasing positiv	p<0.010). Intervention gr ollow-up ( <i>subset of items</i> 20). Intervention group re ve interactions. Effect no	oup experienced from the Pleasant port better interactions t significant at six-month			
		Psychological wellbeing	No significant effect on neg	ative thoughts (Automatic	c Thoughts Questionnaire (	ΆΤQ)).				

Targeted indicated ir	terventions using a cognit	ventions using a cognitive behavioural therapy approach (cont.)								
Blossom et	Description									
(2019) High School Transition Programme (HSTP)	behavioural therapy prog low conduct problem sc disorders in at-risk youth US. The programme sup	n as they transition from m ports the acquisition of co s, engagement in positive s	elevated depression and development of depressive iddle to high school in the	Facilitator: Mental-health Counsellors Format: Group sessions (6-8 students each) and parent component	<b>Duration and</b> <b>frequency:</b> Twelve sessions, 1 hour each, over six weeks	Booster: Yes: 4 one-to-one booster sessions following transition to high school	<b>Quality assessment:</b> 1			
	Study Design	Results								
	RCT Country: US Total sample size: 497 students from six urban middle	Depression	<ul> <li>Significant effect on depressive symptoms at 1, 3, 9, 12, and 18 months post-screening. Depressive symptoms d the whole sample by an average of 0.42 points (β=-0.42, p&lt;0.001), where students in the intervention group had t decrease (d=0.23, p=0.020) (<i>Short Mood and Feelings Questionnaire (SMFQ)</i>).</li> <li>Depressive symptoms in the intervention group decreased through improvements in school attachment, which improved self-esteem.</li> </ul>							
	schools in the north- west Anxiety 3.4% attrition at FU 61.5% female Age: Middle school students (age 11–13 years) Control: No intervention	Anxiety	Significant effect on anxiety by an average of 0.11 points p=0.010) (4-item anxiety sub	(β=-0.11, p<0.001), where	e students in the intervent					

Targeted indicated in	nterventions using a cognit	tive behavioural therapy a	pproach (cont.)					
Brown et al.	Description							
(2019) The DISCOVER 'How to Handle Stress' Workshop Programme	programme intervention from at-risk background deprivation). It aims to re methods for coping with	for pupils between the ag s (minority ethnic young p educe stress, depression a n common personal and ac	eople, socioeconomic and anxiety by focusing on	Facilitator: Two clinical psychologists and one assistant psychologist Format: Group sessions of up to 15 students plus homework	Duration and frequency: One-day workshop, 20/30-minute follow-up call	<b>Booster:</b> Yes: offered two further follow-up calls within 12 weeks	Quality assessment: 2	
	Study Design	Results						
	Cluster RCT Country: UK Total sample size: 155 students from 10 secondary schools in London 8.4% attrition at FU 81.3% Female Mean age: 17.3 years NOTE: 21.9% white British, 9.5% other British, 7% Asian or British Asian, 44.5% Black or Black British, 5.2% Mixed	Depression	Significant effects on depres over time ( <i>Mood and Feeling</i>		t-intervention (d=0.27, p=	0.021). Significantly fewer	r depressive symptoms	
		Anxiety	Significant effects on anxiety at three months post-intervention (d=0.25, p=0.018) (Revised Child Anxiety and Depression Scale (RCADS)).					
		Subjective wellbeing	Significant effects on quality of life at three months post-intervention (d=0.36, p=0.009) (the Paediatric Quality of Life Enjoymer and Satisfaction Form (PQ-LES-Q)).					
		Psychological wellbeing	Significant effects on emotional symptoms at three months post-intervention (d=-0.28, p=0.008) ( <i>Revised Child Anxiety and Depression Scale (RCADS)</i> ).					
	background, 0.6% Chinese, 10.3% other, 0.6% prefer not to say <b>Control:</b> Waitlist control	Psychosocial wellbeing	Significant effects on menta Being Scale (WEMWBS)).	I wellbeing at three month	ns post-intervention (d=0.4	46, p=0.001) ( <i>the Warwick</i>	-Edinburgh Mental Well-	

Haugland t al. (2017,	Description						
2020) Vaag (Dare) (brief CBT) and Cool Kids	behavioural therapy prog The Vaag intervention in session exposure, and b The Cool Kids interventio understanding exposure training), problem solvin celebration components the amount of therapist perform exposure tasks	grammes for adolesce icludes psychoeducati ehavioural experiment on also includes sessi e hierarchies, skills trai ig, dealing with bullying s. An important differe contact between sess in their own time: Vaa ly whereas Cool Kids p	targeted indicated cognitive nts with anxiety symptoms. on, cognitive restructuring, in- its and training plan components. ons and activities aimed at ning (such as assertiveness g, and future plans and nce between the programmes is ions four and five where students g includes two telephone calls practise on their own without	Facilitator: Two group leaders per group, mainly school personnel (nurses) or mental health workers who all received training Format: Group sessions with 5–8 students each; a parent component; plus homework	Duration and frequency: Vaag: Five sessions lasting 45 to 90 minutes (total 5.5 hours); two 10-minute calls/text between sessions four and five (five- week gap) CK: Ten 90-minute sessions (total 15 hours); two parent- only sessions lasting 90 minutes each	Booster: No	Quality assessmer 1
	Study Design	Results					
	RCT Country: Norway Total sample size:	Depression	Significant effect on parent-r depressive symptoms decre No significant effect at one-y	ased significantly more in	the CBT groups (Vaag an	d CK groups combined) t	
	363 students from 18 junior high schools 16.6% defined as non-completers (attrition) 84% female Mean age: 14.0 years Control: Wait-list control	Anxiety	Significant effect on self-rep post-intervention. The CBT g inferior to CK. No significant (SCAS-A/P)). Significant effect on parent r youth impairment from anxie group. Vaag was not inferior (CALIS-P)). Significant effect on group le Clinical global severity decre No significant effect at one-Y	roup (Vaag and CK group effect of intervention at o eports of youth impairme ety significantly improved to CK. No significant effe eaders' rating of severity o eased significantly more in	s combined), showed sign one-year follow-up (Spence nt from anxiety (d=0.51, p in the CBT group (Vaag an ct at one-year follow-up ( f adolescent anxiety sym the CBT group (Vaag and	hificant reductions in anxi e Children's Anxiety Scale <0.001) post-intervention nd CK combined) compar Children Anxiety Life Intern ptoms (d=1.03, p<0.001) d CK combined) compare	ety. Vaag was not child and parent version . Parent reports of ed to the control ference Scale – Parent post-intervention.

Targeted indicated ir	nterventions using a cogni	tive behavioural therapy a	oproach (cont.)							
Putwain et al.	Description									
(2018) Strategies to Tackle Exam Pressure and Stress (STEPS)	a targeted indicated cog with elevated test anxiet focusing on identifying t thought patterns, and pr relaxation techniques, so	tudy and test-taking skills, ation, goal setting, and refle	programme for pupils to reduce anxiety by	Facilitator: Assistant psychologists Format: Group sessions with a maximum of six students	Duration and frequency: Six sessions of 40 minutes each, delivered over six weeks (one session per week)	Booster: No	Quality assessment: 3 Intervention also evaluated by Putwain et al. (2020)			
	Study Design	Results								
	RCT Country: England Total sample size: 56 students from two secondary schools located in urban areas of England 17.9% attrition at FU 66.1% female Mean age: 14.7 years Control: Wait-list control	Anxiety	Significant effect on test and decline (d=0.76, p<0.001). TH <i>Revised Test Anxiety Scale</i> – Significant effect on test and decline (d=1.14, p<0.001) co group was associated with a Significant effect on test and moderate decline (d=0.64, per <i>Control Subscale</i> ). No significant effect on test <i>Subscale</i> ). No significant effect on test <i>Subscale</i> ).	he decline over time was a Worry Subscale). (iety subscale of tension ( impared to negligible decl a reduction in uncertain co (iety subscale of uncertair =0.003) compared to no e anxiety subscale of bodily	associated with a reduction p<0.001) post-intervention ine in the control group (d untrol (R <sup>2</sup> =0.064) ( <i>20-item</i> in control (p=0.040) post-in ffect in the control group y symptoms. ( <i>20-item Rev</i>	n. The intervention group =0.08, p=0.005). The decl Revised Test Anxiety Scal ntervention. The intervent (20-item Revised Test Anx ised Test Anxiety Scale –	=0.079) (20-item showed a moderate line in the intervention e – Tension Subscale). ion group showed a ciety Scale – Uncertain Bodily Symptoms			

Targeted indicated ir	terventions using a cognit	tive behavioural therapy a	pproach (cont.)							
Putwain et al. (2020)	Description									
Strategies to Tackle Exam Pressure and Stress (STEPS)	targeted indicated cogni elevated test anxiety syr wellbeing by focusing or negative thought patterr exams, relaxation techni internal and external for	itive behavioural therapy p nptoms. STEPS It aims to n identifying test anxious s as and prompting more po iques, study and test-takin	reduce anxiety and promote signs and triggers, identifying sitive ways of thinking about g skills, understanding setting, and reflecting on	Facilitator: Assistant psychologists Format: Group sessions with a maximum of six students and homework	Duration and frequency: Six sessions lasting 45 minutes each, over six weeks (one session per week)	Booster: No	<b>Quality assessment:</b> 3 Intervention also evaluated by Putwain et al. (2020)			
	Study Design	Results								
	RCT Country: England Total sample size: 161 students from eight secondary schools 9.3% attrition at FU 62.7% female Mean age: 14.1 years	Anxiety	Significant effect on test any anxiety (d=0.86, p<0.001) that Significant effect on general a small significant decrease (d=0.11, p=0.350) ( <i>Revised C</i> Significant effect on panic su significant decrease in gener p=0.140) ( <i>Revised Children's</i> Reductions in generalised an	an the control group (d=0. ised anxiety subscale of o in generalised anxiety (d= Children's Anxiety and Depr ubscale of clinical anxiety ralised anxiety (d=0.54, p Anxiety and Depression S	62, p<0.001) (20-item Rev clinical anxiety (p=0.003) p =0.43, p<0.001), compared ression Scale (6-item gener (p<0.001) post-interventi <0.001), compared to the ccale (6-item generalised a	vised Test Anxiety Scale). Doost-intervention. The inter of to the control group who eralised anxiety and 9-item on. The intervention grou control group who showe nxiety and 9-item panic su	ervention group showed o showed no effect n panic subscales)). p showed a small d no effect (d=0.19, ubscales)).			
	Control: Wait-list control	Wellbeing	No significant effect on scho	ool-related wellbeing (Sch	ool related Wellbeing Scal	e (SWBS)).				

Targeted indicated ir	terventions using a cognit	tive behavioural therapy a	pproach (cont.)							
Weeks et al. (2017)	Description									
CBT Group- Based Intervention	for pupils with elevated a Cool Connections with C	anxiety symptoms. The pro ognitive Behaviour Therapy	apy programme is designed ogramme is informed by / (Seiler, 2008) and <i>Anxiety:</i> ng People (Stallard, 2009).	Facilitator: Researcher-led, with a teaching assistant cofacilitating in one school Format: Group sessions (size not reported)	Duration and frequency: Six-week group- based intervention with weekly group sessions	Booster: No	Quality assessment: 3			
	Study Design	Results								
	QED Country: UK Total sample size: 19 students from secondary schools in one local authority Attrition not reported 100% female	Anxiety Psychological wellbeing	No significant effect on anxiety symptoms. One student reported a large increase in anxiety from pre- to post-intervention (Spence Children's Anxiety Scale (SCAS)).No significant effect on teacher rated anxiety (School Anxiety Scale – Teacher Report (SAS-TR)).No significant effect on internalising and externalising problems (Children's Automatic Thoughts Scale (CATS)).							
	Age range: 11–14 years Control: Wait-list control	Psychosocial wellbeing	No significant effect on pros	social behaviour (Strength	s and Difficulties Question	naire (SDQ)).				

Targeted indicate	d interventions usi	ng a psychotherapy	y approach							
Harrison et al. (2020)	Description									
Counselling for Psychological Distress	psychological distress. I processes (including nor judgemental relationship	ntion is designed for stude t aims to reduce distress b n-directivity and developing o with participants), active enuineness, empathy and p	y using counselling g a warm and non- listening, and an emphasis	Facilitator: Three counsellors (Master's level) Format: Counselling sessions (format not reported)	Duration and frequency: Six sessions of 45 minutes each, delivered over approximately three months	Booster: No	<b>Quality</b> assessment: 2			
	Study Design	Results								
	RCT Country: Hong Kong Total sample size: 33 students from two secondary schools	Psychosocial wellbeing	No significant effect on emo in Routine Evaluation measu		vention or at three-month	n follow-up (Young Perso	n's Clinical Outcomes			
	33% attrition at FU 78.8% female Mean age: 16.2 years Control: No intervention	Psychosocial wellbeing	No significant differences or and Difficulty Questionnaire (	n follow-up. ( <i>Strengths</i>						

Targeted indicated inter	ventions using a psychoth	erapy approach (cont.)								
Pearce et al.	Description									
(2017) School-based Humanistic Counselling (SBHC)	levels of emotional distr	ess. It aims to reduce dist ugh their problems which h	ents with moderate to high ress by giving students the elps students to reflect on	Facilitator: Qualified counsellors Format: Group sessions (size not reported)	<b>Duration and</b> <b>frequency:</b> Up to 12 weekly sessions lasting 45 minutes each	Booster: No	<b>Quality assessment:</b> 2			
	Study Design	Results								
	RCT Country: UK	Psychological wellbeing								
	Total sample size: 64 students from three urban secondary schools 29.7% attrition at FU 85.9% female Mean age: 14.2 years Control: No intervention	Psychosocial wellbeing	Significant effect on self-est significant reduction in self- ( <i>RSES</i> )). Significant effect on total en intervention group post-inter difference 1.59) and nine-ma conduct problems, hyperact ( <i>SDQ</i> )).	esteem. No significant ef notional and behavioural rvention (standardised m onth follow-up (standardi	ffect at six-month or nine symptoms over time (p< lean difference 1.33), at s ised mean difference 0.8	-month follow-up ( <i>Rosen</i> 0.001). Significant impro six-month follow-up (stan 1). No significant effect f	berg Self-Esteem Scale vements in idardised mean for subscales of			
		Other: Goals	No significant effect on pers	sonal goals (Goal-based c	outcomes (GBO)).					

Saelid et al.	ventions using a psychoth Description	erapy approach (cont.)								
(2017) Rational Emotive Behaviour Therapy (REBT)	anxiety and depression s	scores. It aims to prevent d life adversity and working v		Facilitator: Researcher-led Format: One-to-one session with therapist	Duration and frequency: Three sessions of 45 minutes each with approximately two months between each session	Booster: No	Quality assessment: 2			
	Study Design	Results								
	RCT Country: Norway Total sample size: 62 students from one high school 9.7% attrition at FU Gender not reported Age range: 16–19 years Control:	Depression	Significant effect on anxiety and depression symptoms at six months post-intervention. The REBT intervention significantly reduced anxiety and depression scores compared to inactive control (d=0.70, p<0.050). No signific active control. No significant difference in depression between the active control (ATP) and REBT group 6 mont intervention ( <i>Hospital Anxiety and Depression Scale (HADS</i> )).							
	Active control: individual ATP sessions where students are given the opportunity to ventilate and talk about their problems, but received no advice or directions for solving their problems. Inactive Control: No intervention.	Anxiety	Significant effect on anxiety significantly reduced anxiety active control. No significant intervention ( <i>Hospital Anxiet</i> )	and depression scores of difference in depression	ompared to inactive con between the active cont	trol (d=0.70, p<0.050). No	o significant effect of			

oung et al.	Description									
Interpersonal Psychotherapy– Adolescent Skills Training (IPT-AST)	indicated programme for to reduce depressive sy students about depress relationships and emoti	mptoms and improve over	epression symptoms. It aims all functioning by teaching al problems, the link between trategies. Pupils also	Facilitator: Clinical psychology graduate students and clinical psychologists Format: 18 groups and individual sessions (may include parents)	Duration and frequency: Two individual pre-group sessions, eight group sessions, and one individual mid- group session	<b>Booster:</b> Yes: four individual booster sessions delivered in the six months following the group sessions	Quality assessment: 1			
	Study Design	Results								
	RCT Country: US Total sample size: 186 students from eligible middle and high schools 12.9% attrition at FU	Depression	No significant effect on depr 24-month follow-up but there Epidemiologic Studies–Depr No significant effect on likel Age Children (K-SADS-PL)).	e was no significant diffe ession Scale (CES-D)).	rence between the interv	ention and active control	groups (Center			
	60.3% female Mean age: 14.1 years Control: Group	Subjective wellbeing	No significant effect on over up but there was no significa Scale (CGAS)).							

orcasso &	Description							
reenscreen	<b>Target level:</b> Universal screening TeenScreen is multi-stage suicide screening programme implemented over three years. The first stage in the programme involves all students completing a universal screening questionnaire, which identifies students at risk of poor mental health and suicide. All students move on to the subsequent stage of the programme and attend either a debriefing with an option of seeing a clinician (if they screen positive for being at risk) or a clinical interview, the clinician determines if the student needs to be referred to services, and parents are notified within 24 hours of screening. After the referral to parents, a referral package is sent with a list of mental healthcare providers recommended in the community, a release of information form, and a letter outlining next steps.			Facilitator: A screening team including programme coordinators, screeners, debriefers, clinicians and case managers who are often community mental health practitioners – teachers are not allowed to participate in the screening process to maintain student confidentiality Format: Individual questionnaire completion and individual referrals based on risk and needs assessment	Duration and frequency: One 10–20-minute screening questionnaire, followed by one clinical or debrief interview	Booster: No	Quality assessment: 3	
	Study Design	Results						
	QED Country: US Total sample size: 193 students from one public high school	Psychological wellbeing	Significant increase in the proportion of students identified as in need of mental health support and referred to m services through the screening programme (OR=11.77, p<0.001) ( <i>The Diagnostic Predictive Scales (DPS</i> )).					
	Attrition: N/A % female not reported Age range: 9th Grade Students (age 14–15 years) Control: No intervention	Suicidality	The proportion of the number of st intervention sch	t for predicting the number of student of students who considered suicide re- tudents who reported attempting suici ools ( <i>The Youth Risk Behavior Survey</i> ( <i>rveillance System (YRBSS)</i> ).	duced significantly in inte ide two or more times (Ef	rvention schools (Effect= fect=-0.49, p=0.030) reduc	-1.59, p=0.015) and ced significantly in	

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# **Appendix C.1: Behaviour**

#### Notes

- See page 120 for a detailed glossary and list of abbreviations used in these tables, and page 121 for full references for listed reviews and studies.
- Where these tables mention significant effects, this refers to the intervention group experiencing a significantly larger effect than the control group in the desirable direction.
- Significant effects can be improvements in positive outcomes (such as wellbeing or resilience) or reductions in symptoms (such as depression or anxiety). Where the intervention group experienced significantly worse outcomes than the control group, these are listed as 'adverse' effects.
- Effects (for meta-analyses: pooled effects) were deemed significant where p was less or equal than 0.05 regardless of the significance level applied by individual studies.

Reference	Analysis	Quality assessment rating	Inclusion criteria Population/age range Interventions	Exclusion criteria	Time frame	Number of studies included in review	Results	
Alford & Derzon, 2012 Meta-analysis and systematic review of the effectiveness of school-based programmes to reduce multiple violent and antisocial behavioural	Meta- analysis	Weak	<ul> <li>3 Study design</li> <li>4 Outcomes assessed</li> <li>1 Age not reported, US- only studies</li> <li>2 School-based interventions to reduce violence and antisocial behaviour</li> <li>3 RCTs, QEDs</li> <li>4 Physical aggression, antisocial/ aggressive/ delinguent behaviour</li> </ul>	<ul> <li>Differential attrition greater than 20% difference between the treatment and control groups; non-manualised interventions</li> </ul>	Not reported	24	<ul> <li>Standardised mean effects:</li> <li>Physical aggression SMD=0.261.</li> <li>Antisocial behaviour SMD=0.155.</li> <li>Aggressive/disruptive behaviour SMD=0.127.</li> <li>Delinquent behaviour SMD=0.080.</li> <li>Unclear which and how many studies included in meta-analysis. Unclear whether positive effect sizes signify reductions or increases in the behaviours.</li> <li>Heterogeneity not assessed.</li> </ul>	

### **Table of systematic reviews**

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Castillo-Eito et al., 2020 How can adolescent aggression be reduced? A multi-level meta- analysis	Meta- analysis	Strong	<ol> <li>10-18 years</li> <li>Psychosocial interventions to reduce aggressive behaviour</li> <li>RCTs</li> <li>Actual or threatened physical aggression against peers</li> </ol>	<ul> <li>RCTs with clinical populations (diagnoses other than conduct disorder, e.g. ADHD); Non- English/Spanish papers</li> </ul>	Up to Dec 2019	112	<ul> <li>Overall mean effect size:</li> <li>Aggressive behaviour: d=0.28, across 95 studies (283 effect sizes from 115 intervention groups) significant heterogeneity; excluding outliers: d=0.21, still significant heterogeneity (χ2&lt;0.001).</li> <li>Targeted interventions (52 studies, 132 effect sizes, 64 intervention groups) had a larger effect size (d=0.39) than universal interventions (d=0.14; 45 studies, 151 effect sizes, 52 intervention groups).</li> <li>Universal interventions that included behavioural practice (d=0.16) or problem solving (d=0.20) were more effective than interventions that did not include them.</li> <li>Interventions delivered by a teacher or member of staff were less effective than interventions delivered by external professionals.</li> <li>Duration of the intervention was a significant moderator; shorter interventions were more effective.</li> </ul>
<b>Cox et al., 2016</b> Violence prevention and intervention programmes for adolescents in Australia: a systematic review	Meta- analysis	Moderate	<ol> <li>12–18-year-old Australian youth only</li> <li>Universal interventions designed to prevent or reduce violent behaviour</li> <li>RCTs, QEDs</li> <li>Violent behaviour</li> </ol>	<ul> <li>Clinical populations; pharmaceutical interventions; juvenile justice settings; 'violent' sanctions; Non- English papers</li> </ul>	Up to Dec 2013	19	<ul> <li>Pooled effect sizes (Universal programmes):</li> <li>Antisocial and violence behaviour (adolescent rated): d=0.108, across 2 studies.</li> <li>Nonsignificant pooled effects: Bullying (across 2 studies), Alcohol or other drug-related violence (across 4 studies), parent-rated antisocial and violence behaviour (across 2 studies).</li> <li>Heterogeneity not assessed.</li> <li>Intervention type: Universal: multi-level interventions, schoolwide policies, psychoeducation, SEL-based interventions.</li> <li>No pooled effect size provided for targeted programmes:</li> <li>Targeted selective: Music therapy significantly reduced externalising behaviours among refugee adolescents.</li> <li>Targeted indicated: Aggression management training programme – inconclusive evidence; Multimodal antibullying intervention – reduced bullying, effect maintained at threemonth follow-up.</li> </ul>

Systematic reviews	of aggression a	and violence preve	ention interventions (cont.)				
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Gavine, Donnelly & Williams, 2016 Effectiveness of universal school-based programmes for prevention of violence in adolescents	Narrative synthesis	Moderate	<ol> <li>11–18 years</li> <li>School-based interventions designed to reduce non-fatal violent injury, homicide, weapons possession, aggressive behaviour or pro-violent attitudes</li> <li>RCTs, QEDs</li> <li>Assaults/ (perpetration or victimisation), homicide, weapon possession, incarce- ration due to violence</li> </ol>	<ul> <li>Non-English papers; non- peer-reviewed literature; primary school settings; other behavioural outcomes; indicated interventions; treatment interventions</li> </ul>	2002– March 2014	21	<ul> <li>No pooled effect size provided:</li> <li>Violent behaviour: 4 out of seven interventions had positive effects; Physical aggression: 4/6 interventions had positive effects; one had adverse effects; Non-Physical aggression: 4/6 interventions had positive effects; Victimisation: 3/4 interventions had positive effects; Violence in schools: 3/3 interventions had positive effects; Attitudes: 6/9 interventions had positive effects.</li> <li>No long-term effects.</li> <li>Intervention type: Programmes designed to teach prosocial skills (such as anger management, empathy, problem-solving, communication and decision-making skills) and programmes designed to promote school-wide norms for non-violence.</li> </ul>

Systematic r	eviews of b	oullying prevo	ention interventions				
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Ng, Chua, & Shorey, 2020 The effectiveness of educational interventions on traditional bullying and cyberbullying among adolescents: a systematic review and meta-analysis	Meta- analysis	Strong	<ol> <li>10–18 years</li> <li>Face-to-face or online educational interventions with a set curriculum focused on bullying prevention</li> <li>RCTs</li> <li>Traditional (or cyber-) bullying victimisation and perpetration fre- quencies</li> </ol>	• Studies that involved children younger than 10; adolescent minority group samples; uncontrolled studies or active control treatment other than usual or evidence-based practice	Up to June 2019	17	<ul> <li>Standardised mean differences:</li> <li>Bullying victimisation frequency (dichotomous): not significant across 2 studies, (continuous): very small, across 10 studies (l<sup>2</sup>=71%). Excluding one outlier: SMD=-0.18; (l<sup>2</sup>= 29%), across 9 studies/4,043 participants.</li> <li>Follow-up: SMD=-0.11 (l<sup>2</sup>=0%) across 3 studies/994 participants.</li> <li>Bullying perpetration frequency (dichotomous): not significant across 2 studies, (continuous): SMD=-0.30 (l<sup>2</sup>=75%), across 9 studies/4,043 participants.</li> <li>Follow-up: SMD=-0.22 (l<sup>2</sup>=0%) across 3 studies/994 participants.</li> <li>Follow-up: SMD=-0.22 (l<sup>2</sup>=0%) across 3 studies/994 participants.</li> <li>Cyberbullying victimisation (continuous): SMD=-0.13 (l<sup>2</sup>= 73%), across 5 studies/6,419 participants; no outliers were identified.</li> <li>Follow-up: SMD=-0.08 (l<sup>2</sup>=0%), across 2 studies/2,987 participants.</li> <li>Cyberbullying perpetration (continuous) SMD=-0.16 (l<sup>2</sup>=80%), across 5 studies/6,366 participants; no outliers were identified .</li> <li>Follow-up: not significant across 2 studies/2,932 participants.</li> <li>Cyberbullying victimisation, perpetration: interventions delivered by external facilitators (content expert) had a medium significant effect, while interventions delivered by school staff had no significant effect.</li> </ul>
Reed et al., 2016 Cyberbullying: a literature review of its relationship to adolescent depression and current intervention strategies	Narrative synthesis	Weak	<ol> <li>12–18 years, with symptoms of depression as a consequence of cyberbullying victimisation</li> <li>Interventions for the effect of bullying</li> <li>Any study design</li> <li>Cyberbullying/ depression symptoms</li> </ol>	• Traditional bullying, participant age under 12 or over 18	Not reported	Not reported	No pooled effect size provided: • Limited research currently exists about effective intervention strategies to address cyberbullying.

Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
<b>De Koker et al.,</b> <b>2014</b> A systematic review of interventions for preventing adolescent intimate partner violence	Narrative synthesis	Moderate	<ol> <li>10-19 years</li> <li>Universal intervention(s) for preventing perpetration and victimisation of any type of intimate partner violence (IPV) among adolescents</li> <li>RCTs, QEDs</li> <li>IPV (actual or threatened physical, sexual, psycho- logical violence or sexual harassments)</li> </ol>	<ul> <li>Specialised populations, e.g. drug users, adolescents in juvenile institutions</li> </ul>	Up to Feb 2013	9	No pooled effect size provided: • Universal interventions targeting perpetration and victimisation of IPV among adolescents can be effective, including in the long term.
<b>De La Rue et al.,</b> <b>2017</b> A meta-analysis of school-based interventions aimed to prevent or reduce violence in teen dating relationships	Meta- analysis	Strong	<ol> <li>11–18</li> <li>School-based teen dating violence prevention and intervention programmes</li> <li>RCT, QED</li> <li>Knowledge (about teen dating violence), attitudes (about teen dating violence behaviour), and frequency of perpetration or victimisation (Verbal aggression, relational aggression [controlling, jealousy], physical aggression/violence or sexual aggression/violence or sexual aggression/violence or sexual aggression/violence violence relationships. Also: bystander support or intervention</li> </ol>	<ul> <li>Outcomes had to be primary outcomes in the study, English papers only</li> </ul>	Up to July 2013	23	<ul> <li>Pooled effect sizes:</li> <li>Teen dating violence knowledge: g=0.22, across 13 studies (15 effect sizes).</li> <li>Follow-up: g=0.36, across 8 studies (10 effect sizes).</li> <li>Teen dating violence attitudes: g=0.14, across 10 studies (23 effect sizes).</li> <li>Follow-up: g=0.11, across 6 studies (15 effect sizes).</li> <li>Rape myths acceptance: g=0.47, across 4 studies (4 effect sizes).</li> <li>Follow-up: 1 study, 1 ES, no pooled ES.</li> <li>Dating violence perpetration: no significant effect across 5 studies (6 effect sizes).</li> <li>Follow-up: g=-0.11, across 4 studies (8 effect sizes).</li> <li>Follow-up: g=-0.11, across 4 studies (8 effect sizes).</li> <li>Follow-up: no significant effect across 3 studies.</li> <li>Conflict tactics scale: g=0.18, across 8 studies (10 effect sizes).</li> <li>Follow-up: no significant effect across 4 studies.</li> <li>Heterogeneity not assessed: Random Effects Modelling</li> </ul>

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Systematic reviews	of sexual violer	nce prevention int	erventions (cont.)				
Reference	Analysis	Quality assessment rating	Inclusion criteria 1 Population/age range 2 Interventions 3 Study design 4 Outcomes assessed	Exclusion criteria	Time frame	Number of studies included in review	Results
Leen et al., 2013 Prevalence, dynamic risk factors and the efficacy of primary interventions for adolescent dating violence: an international review	Narrative synthesis	Weak	<ol> <li>12–18</li> <li>NR</li> <li>Any</li> <li>Adolescent dating violence (physical, sexual, or psychological/ emotional abuse, including threats, towards a dating partner)</li> </ol>	<ul> <li>Non-peer- reviewed literature, non-English/ German/ Dutch/ French/ Swedish papers</li> </ul>	2000– 2011	9	No pooled effect size provided: • 'Tentative analysis suggests that programs focused on behavioural change may elicit sustainable effects more readily' (p. 159).
Lundgren & Amin, 2015 Addressing intimate partner violence and sexual violence among adolescents: emerging evidence of effectiveness	Narrative synthesis	Moderate	<ol> <li>10–19, but few found, 15–25 also included:</li> <li>Violence prevention intervention (inc. addressing risk factors)</li> <li>RCTs, QEDs</li> <li>Intimate partner violence: behaviour within an intimate relationship that causes physical, sexual or psychological harm, incl. physical aggression, sexual coercion, psychological abuse and controlling behaviour or sexual violence</li> </ol>	<ul> <li>Focus on LMIC but includes HIC setting</li> </ul>	1990- search date (not given)	61	No pooled effect size provided: • More research on school-based interventions measuring violence as an outcome is needed.
McElwain et al., 2017 Youth relationship education: a meta-analysis	Meta- analysis	Weak	<ol> <li>Not reported</li> <li>Youth relationship education</li> <li>RCTs, QEDs</li> <li>1) conflict management skills; 2) faulty relationship beliefs; and 3) healthy relationship attitudes</li> </ol>	Systematic reviews, qualitative research	NR	15	<ul> <li>Standardised mean difference (random effects).</li> <li>Conflict management, g=0.158, across 11 studies (20 effect sizes) (significant heterogeneity [Q]).</li> <li>Faulty relationship beliefs, g=0.287, across 9 studies (16 effect sizes) (significant heterogeneity [Q]).</li> <li>Healthy relationship attitudes: nonsignificant across 18 effect sizes, significant heterogeneity [Q]).</li> </ul>

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# Appendix C.2: Behaviour Table of primary studies

Universal inter	ventions for aggree	ssion/violence prev	vention							
Banyard et al.	Description									
(2019) The Reducing Sexism and Violence Program – Middle School Program	the normalisation, perva assumptions. Session t	nme aims to prevent violen asiveness and harmful natu opics include empathy, hea er-based violence, includin	ure of rigid gender role althy relationships, and	Facilitator: Trained programme provider Format: Group sessions	Duration and frequency: Four 1-hour sessions	Booster: No	Quality assessment: 3			
(RSVP-MSP)	Study Design	Study Design Results								
	QED	Aggression/violence	Significant effect on suppor	t for male violence (p<0.0	5). (9 items from Gender E	Equitable Attitudes Scale).				
	Country: US Total sample size: 340 students from four schools 4% attrition at FU 0% female Mean age: 12.5 years	Wellbeing	No significant effect on empathy (6 items drawn from the compassion scale). No significant effect on emotional awareness (2 items from Gratz and Roemer (2004)). No significant effect on emotion regulation (4 items from Gratz and Roemer (2004)).							
		Other: Helping intentions	No significant effect on Helping intentions (4 items were adapted from intent to help scales developed by Banyard, Edwards and Rizzo (2014)).							
	Control: No intervention	Other: Injunctive norms	No significant effect on injunctive norms (8 items adapted from Rothman, Edwards, Rizzo, Kearns and Banyard (under review)).							
		Other: Gender norms	No significant effect on gen	der norms (measurement a	adapted from a number of	f previously validated scale	es).			
		Other: Masculine stress	No significant effect on mas <i>Scale</i> ).	sculinity stress measurem	ent (5 items from the Gen	der Role Discrepancy & Di	screpancy Stress			
		Other: Support for gender equality	No significant effect on sup	port for gender equality in	relationships (6 items fro	m Gender Equitable Attitu	des Scale).			
		Other: Support for male power	No significant effect on sup	port for male power (9 iter	ns from Gender Equitable	Attitudes Scale).				
		Adverse effects	Students in the intervention	group experienced increas	sed emotional dysregulat	ion scores (p=0.010).				

onnell et al.	Description						
2018, 2019) Learning Together	aggression and bul policies and systen behaviours are add curriculum (for pup relationships, mana	ther programme is a whole-schood lying victimisation. Staff are trans to address bullying and aggr ressed in an action group, and s ils aged 12–15 years), including	g modules on establishing respectful building and maintaining/repairing	Facilitator: Classroom teachers Format: Normal classrooms/ groups like 'conferencing' to deal with incidents, action groups	<b>Duration and frequency:</b> SEL curriculum, 5–10 hours per year, action group six times per school year. Implemented continuously for three years	Booster: No	Quality assessme 1
	Study Design	Results					
	Cluster RCT Country: England Total sample size: 6,667 students from 40 state secondary schools in south- east England 85% attrition in control; 81.2% attrition in intervention at FU 51.8% female Mean age: 12.0 years	Aggression/violence Bullying	No significant effect on aggress with greater baseline aggression Significant effect on perpetration months (modified 4-item version Significant effect on student-rep (MD=0.10, p=0.049), but not at 2 Significant effect on bullying vice post-intervention. The interventio No significant effect on bullying higher baseline bullying experier Significant effect on cyberbullyin not at 36 months (adapted meas Significant effect on cyberbullyin	a (Edinburgh Study of Youth of aggression in or outside of the ESYTC measure of an orted observations of other 4 months (purpose-designe timisation at 36-month follo on was more effective in the perpetration. The interventi- nce (Modified Aggression Sc org victimisation. The interve sure of cyberbullying).	Transitions and Crime (ESYTC) e of school at 36 months (MD= ntisocial behaviours). students perpetrating aggress d measure). w-up (p=0.0441, adj. ES=-0.08 ose with greater baseline aggre on had a greater effect in boys ale, Bullying Subscale). ntion group had lower rates at s (p=0.005, OR=0.65). No signi	School Misbehavid -0.031, p=0.016), b sion at school at 36 ). No significant ef ession ( <i>Gatehouse</i> than girls and in s 24 months (p=0.0	our Subscale). out not at 24 5 months fect at 24-moi <i>Bullying Scale</i> tudents with 35, OR=0.77),
	Control: No intervention	Wellbeing	perpetration at 24 months (adap Significant effect on quality of lit effect in boys than girls, in stude ( <i>The Paediatric Quality of Life Inv</i> Significant effect on wellbeing a than girls, in students with highe <i>Warwick-Edinburgh Mental Well-U</i> Significant effect on psychologic effect in boys than girls, in stude ( <i>The Strengths and Difficulties Quality</i> )	e at 36-month follow-up hig ents with higher baseline bul eentory). t 36-month follow-up (p=0.0 r baseline bullying experien Being Scale). cal problems at 36-month fo ents with higher baseline bul	her (p=0.0001, adj. ES=0.14). Ilying experience, and in those 1487, adj. ES=0.07). The interve ce, and in those with greater b Ilow-up (p=0.0002, adj. ES=-0.	with greater basel ention had a greate aseline aggression 14). The intervention	ine aggressio er effect in boy n ( <i>The Short</i> on had a grea

#### Results continued from previous page...

Universal intervention	ons for aggression/viol	ence prevention (cont.)	
Bonnell et al.	Study Design	Results	
(2018, 2019) Learning Together	Cluster RCT Country: England Total sample	Other: Contact with police	Students in the intervention group had significantly lower odds of having been in contact with the police in the past 12 months ( $p=0.0269$ ), compared to the control group. The intervention had a greater effect in boys than girls ( <i>self-report of being stopped, reprimanded, or picked up by the police in the past 12 months</i> ).
	size: 6,667 students from 40 state secondary schools in south- east England 85% attrition in	Other: E-cigarette use	Significant effect on e-cigarette use at 36 months (p=0.002, OR=0.59). No significant effect on e-cigarette use at 24 months (single item purpose-designed measure).
		Other: Perceived school safety	Significant effect on perceived school safety. Students in the intervention group were more likely to report a lack of perceived school safety at 24 months, compared to controls (p=0.006, OR=1.38) (single item purpose-designed measure).
	control; 81.2% attrition in intervention at FU 51.8% female	Other: Participation in school disciplinary procedures	Significant effect on participation in school disciplinary procedures. Students in the intervention group reported lower participation in school disciplinary procedures at 24 months (MD=-0.160, p=0.043) and at 36 months (MD=-0.320, p<0.001), compared to controls (6-item ESYTC measure of school discipline).
	<b>Mean age:</b> 12.0 years <b>Control:</b> No intervention	Other: Truancy	Significant effect on truancy at 36 months (p=0.001, OR=0.64), but not at 24 months (single item purposed-designed measure).
		Adverse effects	Serious adverse events in control (n=7) and intervention (n=8) groups. These included suicide, stabbing, potential self-harm, possible non-consensual sex and disability or long-term illness.

Universal interventions fo	r aggression/violence prev	vention (cont.)									
Carrascosa et al.	Description										
(2019) The DARSI Programme (Developing Healthy and Egalitarian Relationships in Adolescents)	adolescents' awareness on sexist attitudes and r	of the consequences of vi nyths of romantic love, and	ssive behaviours by raising olence, their critical thinking I their personal and social lies and guided discussions.	Facilitator: Research staff Format: Usual classrooms	<b>Duration and</b> <b>frequency:</b> Twelve 1-hour sessions over four months	Booster: No	Quality assessment: 3				
	Study Design	Results									
Autorestents	QED Country: Spain Total sample size:	Aggression/violence	Significant effect on overt aggression (p<0.001, η2=0.111) ( <i>the School Aggression Scale</i> ). Significant effect on relational aggression (p<0.001, η2=0.103) ( <i>the School Aggression Scale</i> ). Significant effect on cyberaggression (p<0.001, η2=0.093) ( <i>the Scale of Cyber-aggressions Among Peers</i> ).								
	191 students from two secondary schools Attrition not reported	Other: Hostile sexism	Significant effect on hostile sexism (p<0.001, η2=0.157) (the Spanish version of the Ambivalent Sexism Inventory for Adolescents).								
	53.9% female Mean age: 14.1 years Control: No intervention control groups	Other: Benevolent sexism	Significant effect on benevole Adolescents).	ent sexism (p<0.001, η2	=0.228) (the Spanish ver	sion of the Ambivalent S	exism Inventory for				
		Other: Romantic myths	Significant effect on romantie	c myths (p<0.001, η2=0.	113) (measurement ada	pted from the Romantic I	Love Myth Scale).				

Universal intervention	ons for aggression/violenc	e prevention (cont.)								
Castillo-	Description									
Gualda et al. (2017) SEL Training Intervention	a three-year intervention appraisal and expression to generate emotions to including the ability to la	ntion aims to reduce aggre which aims to enhance: 1 n of emotions, (2) Awarene facilitate thought, (3) Unde bel them with a rich emotion in order to promote emotion	) Accurate perception, ess of feelings and ability erstanding of emotions	Facilitator: Psychologists Format: Classroom sessions	Duration and frequency: Twelve 1-hour classes between January and May of each of the three years	Booster: No	Quality assessment: 1			
	Study Design	Results								
	Cluster RCT Country: Spain Total sample size: 526 participants from nine middle and high schools 5.7% attrition at FU 51.1% female Mean age: 12.1 years Control: No intervention	Aggression/violence	Significant reduction in verba intervention group, compare Significant reduction in phys through the reduction in neg	d to the control group (sui ical aggression (p<0.01) (	bscale from the Spanish v (subscale from the Spanis	ersion of the Aggression h version of the Aggressi	Questionnaire). on Questionnaire)			
	intervention	Note: Additional pathwa	y analyses available in full articl	e.						

Suh (2019)	Description						
Therapeutic Drumming Group/ Education- Based Drumming Group	aggression and violence in dyadic and synchronis group were taught how t	sed drum playing while the	grammes aim to prevent ning group, students engage education-based drumming ruments, how to play certain	Facilitator: Therapeutic drumming: music teacher with a music therapist as a consultant Education drumming: music teacher Format: Classes of approximately 30 students	Duration and frequency: Ten 45-minute weekly sessions	Booster: No	Quality assessment 3
	Study Design	Results					
	QED Country: Korea Total sample size: 231 students from seven classes in one middle school Attrition not reported 50.2% female Mean age: 14.3 years Control: Other intervention (general prevention)	Aggression/violence	Significant reductions in tota in total aggression scores of <i>Questionnaire</i> ). Significant effect on physica reductions in total aggressio No significant effect on verb No significant effect on ange Significant reductions in hos aggression scores compare	ompared to the education al aggression subscale (p- on scores compared to the bal aggression subscale. er subscale. stility scores (p<0.05, n2=0	-based drumming group ( :0.05, n2=0.027). The ther e education-based drumm 0.027). The therapeutic dr	the Korean version of t apeutic drumming gro ing group.	the Buss-Perry Aggression

Universal interventions for bullying prevention										
Acosta et al.	Description									
(2019) Restorative Practices Intervention	improve peer relationshi 11 'Essential Elements' i questions, small improm fair process and reintegr to enhance students' rela	Facilitator: All school staff All school staff Intervention and State St								
	Study Design	Results								
	Cluster RCT Country: US	Bullying	No significant effect on bully Communities That Care Surve	ullying victimisation (verbal, physical nor cyberbullying) (each measured with three items from the urvey).						
	Total sample size: 2,834 students from 13 middle schools 29.3% attrition at FU 49% female Age range: 11–12	Other: School climate	No significant effect on scho the Inventory of School Clima No significant effect on socia No significant effect on stude practices at school).	te). al skills (the Social Skills II	mprovement System-Ratir	ng Scale).				
	years <b>Control:</b> No intervention	Other: School connectedness	No significant effect on school connectedness (with a five-item scale from the National Adolescent Health Study).							
		Other: Peer attachment	No significant effect on peer	attachment (a three-item	scale developed by Acost	a (2003)).				
		Other: Social skills	No significant effect on socia	al skills (the Social Skills II	mprovement System-Ratir	ng Scale).				
		Other: Restorative practices	No significant effect on stude practices at school).	ent reports of restorative	practices (17 questions al	bout their experience of re	storative			

Universal interventions for bullying prevention (cont.)										
Benitez-Sillero	Description	Description								
et al. (2020) PREBULLPE (programme to prevent bullying in adolescents in physical education	Education classes. Six se Education. Content inclu aggressor, knowledge ar social group, collaborativ	nme is designed to preven essions are inserted into th des: knowledge of bullying nd expression of basic emo ve work, self-esteem, empa content was taught throug	ne curriculum of Physical g, the roles of victim and otions, importance of the athy, self-control, resilience	Facilitator: Research team Format: PE class sessions	<b>Duration and frequency:</b> Six 1-hour sessions	Booster: No	ing Intervention Project n Cyberbullying			
classes)	Study Design	Results								
	QED Country: Spain Total sample size: 764 students from two high schools Attrition not reported 49.3% female Mean age: 14.8 years Control: No intervention (regular PE class)	Bullying	Significant effect on bullying Questionnaire). Significant effect on bullying Questionnaire). Significant effect on cyberbu Intervention Project Question No significant effect on cyber Questionnaire).	aggression (F=5,215; p=0 ullying victimisation (F=6,3 unaire).	0.023) (the Spanish version 34; p=0.013) (the Spanish	n of the European Bullying version of the European C	Intervention Project			

#### Universal interventions for bullying prevention (cont.)

#### Calvete et al. (2019a, 2019b) Incremental Theory of Personality Interventions (ITPI)

#### Description

internalising and externa of the theory of persona programme consists of and summarise a scient potential to change. Sec who read the article and they felt isolated, rejected then imagine the same describe what they could	The Incremental Theory of Personality Intervention aims to prevent internalising and externalising problems by teaching students an element of the theory of personality, namely the belief that people can change. The programme consists of three main parts. First, students are asked to read and summarise a scientific paper providing evidence that individuals have the potential to change. Second, participants read several testimonies from people who read the article and endorsed its conclusions. Third, they describe a time they felt isolated, rejected or disappointed by another person at school. They then imagine the same event has happened to another person at school and describe what they could say or do to help the other student understand that people can change and that the things that happen to people can change.		Facilitator: Psychologists Format: Classroom session	Duration and frequency: One 1-hour session, divided into three parts	Booster: No	<b>Quality assessment:</b> 1	
Study Design	Results						
RCT Country: Spain Total sample size: 867 students from 10 high schools 18.9 % attrition at FU 48% female Mean age: 14.6 years Control: Active control	Bullying	<ul> <li>No significant effect on bully Experiences Questionnaire).</li> <li>Significant moderating effe in the active control group i No significant effect on bully Experiences Questionnaire).</li> <li>No significant effect on cybe Questionnaire).</li> <li>No significant effect on cybe Questionnaire).</li> <li>Significant moderating effe in the active control group i</li> </ul>	ct of age (p=0.027) where ncreased. ing victimisation at six- o rbullying victimisation at rbullying perpetration at s ct of age (p=0.022) where	e younger participants in t r 12-month follow-up ( <i>the</i> six- or 12-month follow-up six- or 12-month follow-up	he intervention decrease Spanish or Catalan versic o (the Spanish or Catalan (the Spanish or Catalan v	d in scores while those on of the Revised Peer version of Cyberbullying version of Cyberbullying	
	Wellbeing	<ul> <li>No significant effect on depressive symptoms at six- or 12-month follow-up (the Spanish or Catalan version of the Centre for Epidemiologic Studies Depression Scale).</li> <li>In 8th grade, adolescents in the intervention group displayed a greater decrease in depressive symptoms (p=0.028). The effect size comparing mean change scores was 0.63, from baseline to six months, and 0.68, from baseline to 12 months. In grade 9 the decrease in depressive symptoms was significantly greater in the active control group. The effect size comparing mean change scores was -0.54, from baseline to six months, and -0.58 from baseline to 12 months.</li> </ul>					
	Other: Maladaptive schemas	<ul> <li>In 8th grade, adolescents in size comparing mean chan up. In grade 9 the interventi</li> </ul>	aptive schemas (p=0.004) (the Spanish or Catalan version of the Young Schema Questionnaire-3). n the intervention group displayed a greater decrease in maladaptive schemas (p=0.007). The effect nge scores was 1.26 from baseline to six months, and 1.19 from baseline to the 12-month follow- tion group increased in scores. The effect size comparing mean change scores was -2.95 from d -2.63 from baseline to the 12-month follow-up.				

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. Description						
the prevalence of freq to secondary school. targeting students, pa information and taugh school through classer component comprises to secondary school a with tips to help build a review of bullying-re	t strategies to help manage oom curricula and education two booklets sent to pare ad up to 30 newsletters ov students' skills. The whole	ransition from primary and of three components I. Students are provided with e the transition from primary on magazines. The parent nts before the child transitions er two years providing parents -school component includes res and their implementation,	Facilitator: Researchers, school staff and implementation team Format: Classroom sessions, homework, parent component	Duration and frequency: Students received 85 hours of activities in year one and 3.5 hours in year two	Booster: No	Quality assessment 2
Study Design	Results					
Cluster RCT Country: Australia Total sample size: 3,769 students	Bullying	Significant effect on bullying post-intervention ( <i>a seven-ite</i> Significant effect on bullying post-intervention ( <i>a seven-ite</i>	em categorical index adap perpetration at 12-month	ted from Rigby and Slee (1 mid-intervention (p=0.01	998) and Olweus (1996)). 5, effect size=0.197). No s	-
from 20 Catholic secondary schools 27.3% attrition at FU 50% female Mean age: 13.0 years Control: No intervention	Wellbeing	Significant effect on Lonelin intervention (seven items ad Significant effect on Depress intervention (the Depression Significant effect on Anxiety (the Depression Anxiety Stress Significant effect on Stress a (the Depression Anxiety Stress	apted from a 15-item lone sion at 12-month mid-inte Anxiety Stress Scale). at 12-month mid-interver ss Scale). at 12-month mid-intervent	liness at school scale). rvention (p=0.017, effect s ntion (p=0.005, effect size:	size=0.154). No significan =0.201). No significant eff	t effect at post- ect at post-interventio
	Other: Safety at school	Significant effect on Safety a item adapted from the Peer F		l-intervention (p=0.028). N	lo significant effect at pos	st-intervention (a sing

Universal interventio	Universal interventions for bullying prevention (cont.)									
Greco et al.	Description									
(2019) Karate-based Intervention	and self-efficacy. Each s (focusing on respect, go resilience, bullying and p	ession includes (i) psych al setting, self-concept, s beer pressure, self-care ar		Facilitator: Two karate instructors Format: Group sessions	Duration and frequency: One 90-minute session per week for twelve weeks	Booster: No	Quality assessment: 1			
	Study Design	Results								
	RCT Country: Italy Total sample size: 100 students from three high schools 2% attrition at FU 50% female Mean age: 14.6 years Control: Wait-list control	Wellbeing	Significant effect on resilient • Significant effect on indivio • Significant effect on relatio • Significant effect on contex Significant effect on self-effi • Significant effect on acade • Significant effect on social • Significant effect on emotion	dual capacities and resour onship with primary caregi xtual factors subscale (d= cacy (d=0.64, p<0.001) (the mic self-efficacy subscale self-efficacy subscale (d	rce subscale (d=0.88, p<0 iver subscale (d=0.58, p<0 =0.63, p<0.001). he <i>Self-Efficacy Questionn</i> e (d=0.35, p=0.011). =0.42, p<0.001).	.001). 0.001).				

Description	Description								
y programme. Pa scenarios: cons up for victims; t and how to mal also complete o	iversal rogramme is a computerised (virtu rticipants experience, in virtual rea secutively focusing on being an act he consequences of common inef ke a difference with small and reali discussions on perspective taking a d an anti-bullying message.	lity, three bullying-relevant ive bystander and standing fective responses to bullying; stic actions. Participants	Facilitator: Researcher-led Group size: Virtual reality sessions	<b>Duration and frequency:</b> One 1-hour a week for six weeks	Booster: No	Quality assessment 2			
Study Design	Results								
QED Country: US Total sample size: 173 students from two middle schools 14% attrition at FU 55% female Mean age: 12.5 years Control: No intervention (Enforcement of existing anti-bullying policies during the measurement period)	Aggression/violence	No significant effect on rela	tional aggression (the I	Relational Aggression Perpet					
	om		Illying perpetration (the nine-item Illinois Bully Scale). berbullying perpetration (a four-item scale purpose designed).						
	FU Wellbeing years f Ilying the	<ul> <li>Significant effect on empath</li> <li>Empathy was associated v</li> <li>The mediation effect of the was also significant (β=-0</li> <li>The significant increase in p&lt;0.001) and school belon</li> <li>The mediation effect of the p=0.010).</li> </ul>	with significant decreas e virtual reality treatme .53, p=0.040). empathy was, in turn, a ging ( $\beta$ =0.24, p<0.010)	ses in bullying perpetration p ent on reductions in tradition also associated with signific ).	ost-intervention (β≕ al bullying perpetrati ant increases in willi	-0.19, p<0.010). on behaviours via empathy ingness to intervene (β=0.37,			
	Other: Bystander behaviour	No significant effect on byst <i>Episodes</i> ).	n bystander intervention (a five-item scale, The University of Illinois Willingness to Intervene in Bully						
	Other: School belonging	No significant effect on scho	ool belonging (4 of the	20 items from the Psycholog	ical Sense of Schoo	l Members Scale).			

Universal interventions for bullying prevention (cont.)								
Midgett et al.	Description							
(2017) The STAC Program	aims to increase knowle can utilise to defend vic	tims when they witness bu ng stealing the show, turnir	nts are taught strategies they Ilying. Students are taught	Facilitator: School counsellors Format: Group/small group sessions	Duration and frequency: One 90-minute session, Two 20-minute follow-up sessions	Booster: No	Quality assessment: 3	
	Study Design	Results						
	RCT Country: US	Bullying		een the intervention and control group in the ability to identify bullying at 30-day post-intervent ize) (students responded Yes or No to: 'Have you seen bullying at school in the past month?').				
	<b>Total sample size:</b> 57 students from one junior high school	Bystander behaviour	No significant effect on knowledge and confidence to act as a defender at 30-day post-intervention (the Student-Advocate and Post-Scale).					
	7% attrition at FU 53.7% female Mean age: 13.6 years Control: Waitlist	Wellbeing	No significant effect on Anxiety at 30-day post-intervention (the Anxiety Scale of the Behaviour Assessment System for Childre Third Edition, Self-Report form for Adolescents). No significant effect on Depression at 30-day post-intervention (the Depression Scale of the BASC-3 SRP-A).					
	control	Other: Use of STAC strategies	No significant effect on use over, accompanying others, c almost never to always/almo	coaching compassion) me				

Universal interventions for bullying prevention (cont.)								
Van-Ryzin et	Description							
al. (2018) Johnson's Cooperative Learning Approach	relations and prevent bul where peers help each o independence. Also emp in collaborative skills, a h processing of group perf	ther learn in small groups ( shasised is individual accorn high degree of face-to-face formance. Teachers can ap	uses on cooperative learning under conditions of positive untability, explicit coaching	Facilitator: School staff Format: Delivered in small groups (size not reported) and homework activities	Duration and frequency: Not reported	Booster: No	<b>Quality assessment:</b> 1	
	Study Design	Results						
	Cluster RCT Country: US Total sample size: 1,460 students from 15 rural middle schools 9.3% attrition at FU 48.2% female Mean age: 7th grade students (aged 12–13 years) Control: Waitlist	Psychosocial wellbeing Psychological wellbeing	intervention (d=0.43, p<0.050 • Girls reported significant low Significant effect on perceive significant effect for non-man	ect on relatedness for all students, rather than just marginalised students (students least engaged in school) post- d=0.43, p<0.050) ( <i>the Relatedness Scale</i> ). d significant lower levels of relatedness independent of intervention (β=-0.13, SE=0.04, p <0.001, ES=0.01). fect on perceived stress for marginalised students (students least engaged in school) only (d>0.99, p<0.010). No ect for non-marginalised students ( <i>the Perceived Stress Scale</i> ).				
9 4 M s 1 C			<ul> <li>Girls report significantly hig Significant effect on emotion school) post-intervention (d= Girls reported significantly hig ES=0.04).</li> </ul>	al problems for all studer 0.55, p<0.050) (the Streng	nts, rather than just margin of the stand Difficulties Questi	nalised students (students ionnaire).	s least engaged in	
	control	Bullying perpetration	Significant effect on bullying perpetration for marginalised students (students least engaged in school) only post-intervention (d=0.37, p<0.050). No significant effect for non-marginalised students ( <i>the University of Illinois Bully Scale</i> ).					
		Bullying victimisation	Significant effect on bullying (d=0.69, p<0.050). No signific • Girls reported significantly h	cant effect for non-margin	alised students (the Unive	ersity of Illinois Bully Scale	e).	

Universal interventions for bullying prevention (cont.)									
Wojcik et al. (2019)	Description								
ABBL Anti- Bullying Transition Programme	change students' percep as bystanders, raising er developing bystander's e major programme section students within the class	a ABBL programme aims to reduce bullying behaviour by seeking to ange students' perception of how their classmates respond to bullying bystanders, raising empathy and understanding for the victims, and veloping bystander's efficacy to counteract bullying in safety. The three jor programme sections are mutual acquaintance ('getting to know you' for dents within the class), integration, and team building within the class and pathic perception of excluded individuals.       Teachers       frequency: One lesson per week for the first eleven weeks of school       No         udy Design       Results       Significant effect on bullying perpetration at three months post-intervention (p<0.001; η2=0.244) (a pur					Quality assessment: 3		
	Study Design	Results							
	QED Country: Poland Total sample size: 96 students from six middle schools 4% attrition at FU 46.9% female Mean age: 13.7 years Control: Usual care (standard inductor programme)	Bullying	Significant effect on bullying Questionnaire) Significant effect on self-rep Bullying Questionnaire) Significant lower reporting o (p<0.001), verbal aggression intervention. No significant of Significant lower reporting o to the control group, for phys No significant difference for Questionnaire).	orted bullying behaviour a f cases of bullying in the i i (p<0.001), relational aggr difference for online aggre f participants who admitte sical aggression (p<0.011)	at three months post-inter ntervention group, compa ression (p<0.001) and sex ession ( <i>a purpose-designe</i> ed to bullying someone at ) and verbal aggression (p	vention (p=0.005, $\eta$ 2=0.08 ared to the control group, f cual aggression (p=0.001) d Bullying Questionnaire). t least once in the interver b=0.005) at three months	87) (a purpose-designed for physical aggression at three months post- ntion group, compared post-intervention.		

#### Universal interventions for sexual violence prevention

Munoz-Fernandez et al. (2019) Date-e Adolescence Programme

#### Target level: Universal

Description

The Date-e Adolescence Programme is a multi-component programme designed to reduce dating aggression, victimisation and bullying behaviour. It comprises (i) five SEL sessions using classroom and web-based activities, (ii) two peer-led sessions which aim to raise awareness and promote coping strategies when aggression occurs and raise awareness about the role of peer groups and bystanders in the face of dating violence, (iii) one school session where the main content of the programme is reviewed.

Facilitator:	Duration
Researcher	frequency
Format: Classroom and web- based activities, peer-led training, school session	session): Seven 1-h sessions

and Booster: cy (each No : hour **Quality assessment:** 2 Intervention also

evaluated by Sanchez-Jimenez et al. (2018)

Study Design	Results	
RCT Country: Spain Total sample size: 1,423 students from seven high schools 69.92% attrition at FU 48.21% female Mean age: 12.0 years	Sexual violence	<ul> <li>Moderate and severe physical dating violence (an adapted version of the Physical Violence Scale, from the Conflict Tactics Scale):</li> <li>No significant effect on moderate dating aggression or victimisation at post-intervention or six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on severe physical aggression (d=0.25) at six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on severe physical dating victimisation (d=0.21) at six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on severe physical dating victimisation (d=0.21) at six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on sexual dating aggression (d=0.38) at six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on sexual dating victimisation (d=0.24) at six-month follow-up.</li> </ul>
Control: Wait-list control	Bullying	<ul> <li>Bullying (was measured with the Spanish version of the European Bullying Intervention Project Questionnaire):</li> <li>No significant effect on bullying aggression at post-intervention or six-month follow-up.</li> <li>Significant decrease in interventions growth trajectory on bullying victimisation (d=0.98) at six-month follow-up.</li> </ul>

Universal interventions for sexual violence prevention (cont.)								
Sanchez-	Description							
Jimenez et al. (2018) Date-e Adolescence Programme	designed to reduce dati It comprises (i) five SEL (ii) two peer-led session strategies when aggress groups and bystanders	is which aim to raise awar sion occurs and raise awa	on and bullying behaviour. In and web-based activities, eness and promote coping reness about the role of peer lace, (iii) one school session	Facilitator: Researcher Format: Classroom and web- based activities, peer-led training, school session	Duration and frequency (each session): Seven 1-hour sessions	Booster: No	Quality assessment 3 Intervention also evaluated by Munoz Fernandez et al. (2019)	
	Study Design	Results						
	Cluster RCT Country: Spain	Aggression/violence	No significant effect on phys No significant effect on ang		he aggression nor victimi	sation subscales (the Co	onflict Tactics Scale).	
	Total sample size: 1,764 students from 7 high schools 23.6% attrition at FU	Sexual violence	No significant effect on psyc No significant effect on onlin	<b>o</b> (	, , ,	·	er Dating Abuse Scale).	
	<b>23.6% attrition at FU</b> 47.7% female <b>Mean age:</b> 14.7 years	Wellbeing	Significant effect on self-esteem (p=0.001, d=-0.15) ( <i>the Rosenberg Self-Esteem Scale</i> ). • No significant effect on the self-confidence subscale.					
	Control: Wait-list       Other: Myths about       Significant effect on myths about romantic love – myths about jealousy (p<0.0							
		Other: Couple relationship quality	No significant effect on couple relationship quality (the Network of Relationships Inventory: Behavioural Systems Version).					

#### Targeted selective interventions for aggression/violence prevention

Densley et al. (2017) Growing Against Gangs and Violence (GAGV)

### Target level: Selective

Description

Growing Against Gangs and Violence is a targeted selective gang prevention programme. It was implemented in London for schools located within local authority areas prioritised under HM Government's (2011) Ending Gang and Youth Violence programme (such as higher knife crime, sexual violence and violence). The programme aims to challenge moral disengagement and to cultivate resilience and critical engagement with more prosocial and fewer antisocial groups. It uses conversation-style sessions, supplemented with slides, where facilitators focus on a curriculum that covers the legal, medical, social and emotional consequences of knife and gun crime, drug crime, cyber bullying and peer-on-peer sexual violence.

Facilitator: Most often teachers, youth workers or police officers	<b>Duration and</b> <b>frequency:</b> Six lessons over a five-week period	<b>Booster:</b> No	Quality assessment: 3
<b>Format:</b> Class sessions, approximately 25 students per class			

Study Design	Results		
Country: England Total sample size: 391 students from four schools in four London boroughs 35.8% attrition at FU 36.3% female Age range: 12–13 years Control: No intervention	Aggression/violence	No significant effect on violent offending at post-intervention or 12-month follow-up (a subset of three items from the Delinquency Inventory).	
	Conduct	No significant effect on delinquency at post-intervention or 12-month follow-up (a 14-item Self-reported Delinquency Inventory).	
	Other: Gang membership	No significant effect on gang membership at post-intervention or 12-month follow-up (a single item 'Are you now in a gang?').	
	Other: Attitudes to gangs	No significant effect on attitudes to gangs at post-intervention or 12-month follow-up (measured with 3 items).	
	Other: Refusal skills	No significant effect on refusal skills at post-intervention or 12-month follow-up (measured with 5 items).	
	Other: Conflict resolution skills	No significant effect on conflict resolution skills at post-intervention or 12-month follow-up (measured with 5 items).	
	Other: Resistance to peer pressure	No significant effect on resistance to peer pressure at post-intervention or 12-month follow-up (measured with 7 items).	
	Other: School commitment	No significant effect on school commitment at post-intervention or 12-month follow-up (measured with 7 items).	

#### Targeted selective interventions for aggression/violence prevention (cont.)

## DeGue et al. (2020) Niolon et al. (2019) Vivolo-Kantor et al. (2019) Dating Matters (DM)

#### Target level: Selective

Description

Dating Matters is a whole-school targeted selective programme for schools in neighbourhoods with elevated crime and economic disadvantage that aims to prevent teenage dating violence. It includes classroom-delivered programmes for 6th to 8th graders, community-based programmes for parents, a youth communication programme, training for educators and communitylevel activities. Students in 6th and 7th grade received Dating Matters youth programmes. Eighth graders received Safe Dates, an evidence-based prevention programme. All curricula use social-emotional learning and skills-based approaches to focus on healthy relationships and help youth learn and practise healthy relationship skills.

	Facilitator: School staff, teachers, volunteers, health	Duration and frequency: The 6th grade curriculum includes six classroom sessions, the	<b>Booster:</b> No	Quality assessment: 1
nts,	department staff, research staff, social services	7th grade curriculum includes seven classroom sessions,		
tion	staff Format:	and the 8th grade curriculum includes 10		
se	Group sessions, homework, parent component	classroom sessions, a poster contest and a play.		

Study Design	Results	
Cluster RCT Country: US Total sample size: 3,301 participants from 46 schools in high-risk urban communities Attrition: Substantial but percentage	Aggression/violence	Significant effect on sexual violence perpetration. The Dating Matters intervention was associated with significant reductions in sexual violence perpetration (average score 6% lower) and victimisation (average score 3% lower) in most, but not all, sex/cohort groups by the end of 8th grade, relative to the standard of care group ( <i>a variant of a single item from the AAUW Sexual Harassment Survey</i> ). Significant effect on sexual harassment perpetration. The Dating Matters intervention was associated with significant reductions in sexual harassment perpetration (average score 4% lower) and victimisation (average score 8% lower) in most, but not all, sex/cohort groups by the end of 8th grade, relative to the standard of care group ( <i>five items from the AAUW Sexual Harassment Survey</i> ). Significant effect on physical violence perpetration. Students in the intervention group reported 11% less physical violence perpetration, compared to students in the standard of care group ( <i>2 items asking about past (4/6 months) acts, or being a victim of, physical violence</i> ).
unclear 48% female <b>Mean age:</b> 12.0 years <b>Control:</b> Other	Bullying	Significant effect on bullying perpetration. Students in the intervention group reported 11% less bullying perpetration, compared to students in the standard of care group (selected items from the Illinois Bully Scale). Significant effect on cyberbullying perpetration. Female students in the intervention group reported 9% less cyberbullying victimisation and 10% less cyberbullying perpetration, compared to the standard of care group ( <i>4 items from the AAUW Sexual Harassment Survey</i> ).
intervention (Standards of Care (SC))	Sexual violence	<ul> <li>Significant effect on teen dating violence perpetration.</li> <li>Students in the intervention group reported 84.3% lower teen dating violence perpetration, on average across time points and cohorts, compared to standard of care students (<i>the Conflict in Adolescent Dating Relationships Inventory</i>).</li> <li>Students in the intervention group reported 9.78% lower teen dating violence victimisation, on average across time points and cohorts, compared to standard of care students (<i>the Conflict in Adolescent Dating Relationships Inventory</i>).</li> </ul>
	Wellbeing	No significant effect on positive relationship (4 items adopted from the Supporting Healthy Marriage study).
	Other: Conflict resolution strategies	Significant effect on conflict resolution strategies. Students in the intervention group had 52.2% lower use of negative conflict resolution strategies, on average across time points and cohorts, compared to standard care students (the Conflict Resolution Style Inventory).
	Note: Additional analyse	es per cohort and across sex groups available in full text.

Targeted selective interventions for sexual violence prevention									
Peskin et al.	Description								
(2019) Me & You: Building Healthy Relationships (Me & You)	<b>Target level:</b> Selective The Me & You programme is a targeted selective programme for minority ethnic adolescents that aims to promote healthy relationships and prevent domestic violence. The programme includes 13 lessons which include classroom activities, computer activities, and a combination of classroom and computer lessons. Computer activities include animations, peer video role- modelling of skilled behaviours, quizzes and virtual role play.			Facilitator: Teachers and research staff Group size: Classroom and individual activities Format: Group sessions, homework and parent component	Duration (each session): 25 minutes Number of sessions: 13 lessons	Booster: No	<b>Quality assessment:</b> 1		
	Study Design	Results							
	Cluster RCT Country: US Total sample size: 921 students from 10 schools 23.0% attrition at FU 52.5% female Mean age: 12.2 years Control: Usual care (regular health	Sexual violence	<ul> <li>intervention, compared to us</li> <li>Odds of physical dating vic</li> <li>Odds of psychological dati</li> <li>Odds of threatening dating</li> <li>Odds of victimisation (AOR</li> <li>Odds of sexual dating viole</li> </ul>	Significant effect on dating violence perpetration. Odds of dating violence perpetration in the last 12 months were lower are intervention, compared to usual care control students (AOR=0.46) ( <i>the Conflict in Adolescent Dating and Relationship Invent</i> . • Odds of physical dating violence perpetration (AOR=0.35) were lower among intervention compared to control students. • Odds of psychological dating violence perpetration (AOR=0.62) were lower among intervention compared to control student • Odds of threatening dating violence perpetration (AOR=0.33) were lower among intervention compared to control student • Odds of victimisation (AOR=0.36) were lower among intervention compared to control student • Odds of sexual dating violence victimisation (AOR=0.32) were lower among intervention compared to control students. • Odds of sexual dating violence victimisation (AOR=0.32) were lower among intervention compared to control students.					
	education)	Note: Additional analysis	s available in full text.						

argent et al. (2017)	Description								
TakeCARE	<b>Target level:</b> Selective The TakeCARE programme aims to prevent sexual violence. In this study, it was implemented with students from an economically disadvantaged school (84.3% qualified for free or reduced lunch). The programme uses a video to present students with a series of vignettes that involve sexual violence, including a risky (potentially violent) situation, a violent situation, and one depicting support after a risky situation. Through voiceover narration, the video presents information on identifying abusive dating relationships, the definition of and issues around consent to sexual activity and providing support to someone who discloses that non-consensual or distressing consensual sex has already occurred. In each vignette, actors respond as helpful bystanders to prevent negative consequences, de-escalate the situation and support a friend after a risky situation has occurred. Further bystander responses are provided by the voiceover.			Facilitator: Video in social studies class. School counsellors assisted with intervention evaluation Format: Classroom sessions	Duration and frequency: Single viewing of the educational video	Booster: No	Quality assessment: 2		
	Study Design	Results							
	QED Country: US Total sample size: 1,295 students from one economically disadvantaged urban public high school 29% attrition at FU 52.2% female Mean age: 15.2 years Control: Wait-list control	Bystander behaviour	Significant effect on engagi Friends Protecting Friends B • Hispanic students reporte	ystander Behaviour Scale	).				

Targeted selec	tive interventions f	or conduct problem	n prevention							
Goyer et al. (2019a)	Description									
Values Affirmation/ Social Belonging/ Growth Mindset Interventions	<b>Target level:</b> Selective This set of interventions are targeted selective interventions for students from lower socioeconomic status backgrounds and those who had been negatively stereotyped due to ethnicity. They are designed to facilitate identity safety – including a sense of belonging, inclusion and growth. The social belonging intervention encourages students to reflect on their own sense of belonging. The growth mindset intervention conveys that intelligence is not fixed but can grow with hard work, good strategies and help from others. The values affirmation intervention seeks to bolster students sense of personal adequacy to help them cope with identity threat. This study combined all three interventions to determine its impact on discipline citations.			Facilitator: Teachers distributed and collected materials Format: Classroom sessions	Duration (each session): Six 15–25-minute sessions delivered during the academic year	Booster: No	Quality assessment: 3			
	Study Design	Results								
	RCT Country: US Total sample size: 669 students from two middle schools 13% attrition at FU 48% female Age range: 12–14 years Control: No intervention	Conduct behaviour	Significant effect on annual last two years by 57% (IRR=0 significant (70%) reduction (	0.43, p=0.010), compared						

oyer et al.	Description								
2019b) Social Ionging	<b>Target level:</b> Selective The Social Belonging intervention encourages students to reflect on their own sense of belonging. The intervention features stories and conclusions drawn from interviews and surveys conducted with 7th grade students from the same school but previous school year about their experience transitioning to this school. The intervention conveys that it is normal to worry about belonging and relationships with teachers upon entering middle school, but these concerns lessen with time.			Facilitator: Teachers distributed and collected materials Format: Classroom sessions	Duration and frequency: Two 25-minute sessions in the first quarter of 6th grade, in late September and a month later	Booster: No	Quality assessment 3		
	Study Design	Results							
	RCT Country: US Total sample size:	Conduct	Significant effect on annual discipline citations (IRR=0.35, p=0.020). Black boys in the intervention group received 65% fewer discipline citations per year over the seven-year assessment period, compared to the control group ( <i>measured from school records</i> ).						
	137 students from one middle school 29% attrition at FU 53% female Age range: 6th-12th grade (ages 11-18	Wellbeing	<ul> <li>No significant effect on belonging uncertainty over time (2-item purpose-designed questionnaire).</li> <li>No significant effect on social belonging over time (a 10-item purpose-designed questionnaire).</li> <li>There was a significant difference between the control and intervention group for black boys over the course of middle scho (d=0.85, p=0.018) illustrated by the control condition black boys decline in levels of social belonging (d=-0.90, p=0.001) while the intervention group remained stable (d=-0.04, p=0.086).</li> </ul>						
	years)								

Targeted selective in	nterventions for conduct p	roblem prevention (cont.)	)						
Obsuth et al.	Description								
(2017) London Education and Inclusion Project (LEIP)	communication and bro in London in schools tha than or equal to 28%. Ta group and one-to-one se such as effective anger	ader social skills. The pro at had an eligibility rate for rgeted support is provide essions. Sessions focuse management skills, asse	behaviour by developing their ogramme was implemented or free school meals greater ed to students in the form of d on interpersonal social skills rtive communication skills, ent response alternatives in a	Facilitator: External professionals Format: Group and one-to- one sessions, parent component	Duration and frequency: Twelve 1-hour one-to-one and twelve 1-hour group sessions delivered over twelve weeks	Booster: No	Quality assessment: 1		
	Study Design	Results							
	Cluster RCT Country: England Total sample size: 738 students from Inner and outer London with free school meal eligibility greater than or equal to 28% 32% attrition at FU 29% female Mean age: 14 years Control: No intervention control	Conduct	Adverse effect on self-report intervention group were sign group (measured through stu No significant effect on antis School (MISQ) measure). No significant effect on bully of bullying). No significant effect on delin No significant effect on arrest No significant effect on othe item measure tapping the fre disciplinary measures reported	ificantly more likely to sel ident reports, teacher reports social behaviour at one-maining perpetration at one-main equency at one-month pos- sts at one-month post-inter r disciplinary measures at quency and variety of scho	f-report being temporarily orts, official records (the N onth post-intervention (the onth post-intervention (3 st-intervention (an 11-item ervention (official records) t one-month post-interven	excluded from school th ational Pupil Database (N e adolescent version of th questions adapted from a measure adapted from th requested from the Metro tion (student and teached	an those in the control IPD) of the DfE). ne Misbehaviour in a standardised measure he z-proso project). ppolitan Police). r completion of a 14-		
		Wellbeing	No significant effect on interpersonal communication at one-month post-intervention (a 24-item tool developed by ICAN). No significant effect on student- or teacher-rated prosocial skills at one-month post-intervention (Student reported – eight questions, three of which were adapted from the Social Behaviour Questionnaire and five were adapted from the Interpersonal Reactivity Index; teacher reported – four questions originally adapted from the Social Behaviour Questionnaire for the z-proso project).						
		Other: Academic aptitude	No significant effect on acac Centre for Evaluation and Mo in year 10 were administered	nitoring (CEM) at Durham					

### Targeted indicated interventions for aggression/violence prevention

Target level: Indicated & Universal

Description

non SBMH)

Morgan-Lopez et al. (2020) School Based Mental Health (SBMH)

Program

SBMH: school counsellors, social frequency: No assessment: The SBMH programme is a targeted indicated intervention for workers, school psychologists, Not reported 2 youth with specific mental health issues (at risk of violence therapists. perpetration) but also has a universal component as it Expanded SBMH: also had service investigates the subsequent impact on the whole school. It facilitator and increased school adopts a whole-school, psychotherapy approach and aims psychologist allotment. to reduce aggressive behaviour and victimisation. This study Enhanced SBMH: also had DBT investigates standard SBMH (beyond traditional delivery team; private mental health to include community mental health providers in schools), providers, their supervisors and expanded SBMH (funding to access SBMH, admin support, school psychologists, and SPARCS increased school psychologist allotment), and enhanced team; school counsellors and social SBMH (extends standard SBMH to also include two evidenceworkers. based therapies, DBT and SPARCS, that directly attend to student mental health problems). Format: Group and individual sessions **Results QED** Study Design **RCT & QED** Aggression/violence No significant effect on aggressive behaviour over time at the whole-school level (the Self-reported Aggression Scale). Country: US Total sample size: 4.025 students from 36 schools Bullying Significant effect on bullying victimisation at the whole-school level (the Self-reported Victimisation Scale). SBMH expanded that service middle schools, compared to non-SBHM schools, showed a significant decrease in change over time (p=0.02, d=-0.27). school aged youth in a semi-urban district in south-eastern US 35.4% attrition at FU **Results RCT** Gender not reported Aggression/violence No significant effect on aggressive behaviour over time at the whole-school level (the Self-reported Aggression Scale). **Age range:** 11–14 years Control: Other intervention (standard SBMH vs Bullying Significant effect on bullying victimisation at the whole-school level (the Self-reported Victimisation Scale). SBMH expanded expanded SBMH vs schools, compared to SBHM standard schools, showed a significant decrease in change over time (p=0.03, d=-0.41). enhanced SBMH vs

Duration and

**Booster:** 

Quality

Facilitator:

Targeted indicated in	nterventions for aggressio	n/violence prevention (co	nt.)						
Smokowski et	Description								
al. (2018) Youth Court in Schools Project	<b>Target level:</b> Indicated & Universal The youth court in schools project is a targeted indicated programme for adolescents most at risk of engaging in aggressive or bullying behaviour but also has a universal component as the whole school can be involved in the programme. The programme aims to prevent violence, aggression and bullying by simulating a court environment in the school. Students make up the prosecution, defence council, bailiff and jurors and the judge role is filled by a teacher or school administrator. Court sanctions often include, for example community service or a letter of apology. In some cases, court sanctions replace original school punishments and once completed, can be expunged from the students record so they do not become a future job/college application barrier.			Facilitator: Teachers/school administration as judges and each school chose one class to act as court Format: Whole class participation	Duration and frequency: Youth courts implemented over one year	Booster: No	Quality assessment: 2		
	Study Design	Results							
	Cluster RCT Country: US	Aggression/violence	No significant effect on violent behaviour at six-month post-intervention within the intervention group (13 items assessing violent behaviour).						
	<b>Total sample size:</b> 4,000 students from 8 high schools and	Bullying	Significant effect on bullying between groups (1 item from			vithin the intervention gro	up (p<0.01) but not		
	<ul> <li>16 middle schools across school districts in 2 counties of North Carolina</li> <li>Attrition not reported</li> <li>49.5% female</li> <li>Mean age: 12.1 years</li> <li>Control: No intervention</li> </ul>	Wellbeing	Significant effect on anxiety pre to six months post-intervention within the intervention group (p=0.030, d=0.061), but not between groups ( <i>3 items from the Youth Self-Report</i> ). No significant effect on self-esteem within the intervention group but self-esteem decreased significantly in control schools (p=0.001, d=0.084) pre to six months post-intervention. No difference between groups was examined ( <i>a five-item adapted version of the Rosenberg Self-Esteem Scale</i> ). Significant effect on friend rejection pre to six months post-intervention within the intervention group (p=0.005, d=0.081) but not between groups ( <i>the 3-item Friend Rejection Scale</i> ).						
		Other: School danger	No significant effect on scho (p=0.027, d=-0.070) pre to si <i>Danger Scale</i> ).						

Targeted indicated interventions for sexual violence prevention									
Reidy et al.	Description								
(2017) Expect Respect Support Group (ERSG)	<b>Target level:</b> Indicated The ERSG is a targeted indicated programme for students who have previously been exposed to violence in the home, school or community. It adopts a whole-school approach to reducing teenage dating violence by focusing on developing healthy relationship skills and modifying maladaptive norms about dating behaviour. Programme units include developing group skills, choosing equality and respect, recognising abusive relationships, learning skills for healthy relationships, and getting the message out.			Facilitator: Group facilitators (received supervision and were paid) Format: Group sessions conducted separately for boys and girls	Duration and frequency: Up to 25 weekly structured group support sessions	Booster: No	Quality assessment: 3		
	Study Design	Results							
	QED Country: US Total sample size: 1,923 students from 36 schools in Texas 46% attrition at FU 57.8% female Mean age: 14.3 years Control: Usual care	Aggression/violence Sexual-violence	Significant effect on reactive girls: p<0.001, β=-0.36) acros • In a dosage analysis (numb aggression as indicated by • For girls, the intervention de No significant effect on teen <i>in Adolescent Dating Relation</i> • In a dosage analysis (numb perpetration, and psycholo • For girls, there was a marging converse effect suggesting	ss time (the Reactive-Proa ber of sessions attended), a significant negative slop osage was associated wit age dating violence, perpe- nships Inventory and Safe I ber of sessions attended), gical, physical and sexual inal effect of intervention of	ctive Aggression Question for boys, there were incre- pe. h significant decreases in etration or victimisation, a Dates TDV scales). for boys, there were incre- victimisation as indicated dosage suggesting a pote	nnaire). emental reductions in rea n reactive and proactive a across time ( <i>questions ad</i> emental reductions in psy d by a significant negative ential decline in physical p	ctive and proactive ggression. apted from the Conflict rchological and sexual e slope. perpetration and a		

Targeted indica	ated interventions f	or conduct proble	n prevention						
Martinez et al.	Description								
(2018) <b>Muse</b>	<b>Target level:</b> Indicated The Muse programme is a targeted indicated programme for students with elevated discipline referrals. It aims to reduce classroom offending behaviour through mindfulness and relaxation. Students receive guidance from the Muse app on how to concentrate on their breathing and students try to stay restful and calm. If their brain activity, measured through EEG, remained calm they were rewarded with the sound of birds but if their mind was active, they heard wind and ocean sounds. The muse app tracked and displayed their score after each session.			Facilitator: Researchers introduced guided mindfulness in session one but the remaining sessions were self-guided using the Muse app Format: Individual sessions; two students' participant simultaneously	Duration and frequency: Three minutes using Muse (15 minutes to leave, complete and return to class); 20 sessions, once per week	Booster: No	Quality assessment: 2		
	Study Design	Results							
	QED Country: US Total sample size: 20 students from one middle school 10% attrition at FU 55% female Age range: 12-14 years Control: No intervention control	Conduct	Significant effect on behavio	oural office referrals (p=0.0	006, d=1.25) (measured us	sing office referral records	s at the school).		

Targeted indicated interventions for conduct problem prevention (cont.)									
McQuillin et	Description								
al. (2020) Mentoring Program	with elevated behavioura behaviour by matching s are trained in motivation	me is a targeted indicated al infractions. It aims to rec students with mentors (coll al interviewing. Mentors fo n towards school-related g	luce classroom offending lege undergraduates) who Ilow a manual to work with	Facilitator: Female undergraduate students Format: One-on-one sessions	<b>Duration and</b> <b>frequency:</b> Ten 45-minute sessions over an 18- week semester	Booster: No	Quality assessment: 3		
	Study Design	Results							
	RCT Country: US Total sample size: 68 students form one public middle school in south-eastern US Attrition not reported 31% female Age range: 11–14 years Control: No intervention control	Conduct Other: Grades in core subjects	Significant effect on student (BASC)). Significant effect on student (BASC)). No significant effect on life s No significant effect on hype Significant effect on behavio Significant effect on maths of Language Arts grades.	reported emotional symp satisfaction (the Student's eractivity (the Behavioural our-related office referrals	otoms (p=0.049, d=-0.34) ( Life Satisfaction Scale). Assessment System for C (p=0.02) (school record da	(the Behavioural Assessm hildren (BASC)). ata).	ent System for Children		

To download the full report, visit: https://www.eif.org.uk/report/adolescent-mental-health-a-systematic-review-on-the-effectiveness-of-school-based-interventions

# **Abbreviations & glossary**

95%CI	The 95% Confidence Interval consists of an upper and lower limit within which the true effect is expected to fall 95% of the time. For example, '95%Cl 1.05, 4.20' is interpreted as a 95% chance that the true effect size falls between 1.05 and 4.20.	р	The p-value describes the effect is a 'chance finding were deemed 'significar
Cohen's F <sup>2</sup>	Cohen's F <sup>2</sup> is a standardised measure of effect size that quantifies how large or small the difference between two groups is. Calculated in multiple regression models and repeated-measures data where both the independent and dependent variables are	Pooled Effect Size	the higher the likelihood The pooled effect is the various meta-analytical
d	continuous. Cohen's d is a standardised measure that quantifies how large or small the difference	Q	Cochran's Q is a measur very dissimilar, heteroge
ED	between two group averages is in a continuous variable. Estimated difference is a non-standardised estimate of intervention effects.	QA	Quality Assessment rati The quality rating result
ES	Effect Size is a standardised measure that quantifies how large or small the effect of an intervention is. Larger numbers reflect a stronger relationship between the intervention and the outcome(s) it results in.		consensus where there means the study was of rated moderate, and 3 n
adjES	Adjusted Effect Size: the measure has been adjusted to account for the impact of other variables considered in the analysis to allow for generalisation to the population.	QED	Quasi-experimental des variable designs, or regr enable causal inference a group of participants
F	F statistic from Analysis of Variance (ANOVA) and multiple regression models describes the ratio of the variation between sample averages and the variation within sample averages, which quantifies whether a set of averages (means) are equal or		on which statistical met can achieve results that less robust (eg non-rand
FU	not. Larger values reflect greater differences between the samples.	R <sup>2</sup>	R <sup>2</sup> from regression mod variable explained by th
FU	collection considerable time after the intervention period ended.	RCT	A randomised controlle
Hedges' g	Hedges' g is a standardised measure of effect size that quantifies how large or small the difference between two group averages is in a continuous variable across different levels of a categorical variable. NB: Hedges' g is comparable to Cohen's d, but considers sample size when calculating the effect size, so is used in smaller samples (approx. <20) and when sample sizes are unequal.		of participants to an inte comparing outcomes of a control group. Due to to provide a robust cour or attrition could under
<b> </b> <sup>2</sup>	l <sup>2</sup> is a measure of heterogeneity in meta-analyses. Where primary study results are very dissimilar, heterogeneity will be high.	SE	assessment rating. Standard Error is a quar
IRR	Incident Rate Ratio is an effect size of coefficients in binomial regression models.		random variation within effect size.
	It quantifies the relative likelihood of an event in a group that is exposed, compared to likelihood of an event in a group that is not exposed, while accounting for time of	SMD	Standardised Mean Diff
	exposure.	t	t from t-test analysis qu groups while accountin
MD	Mean Difference is the absolute difference between the means observed in intervention and control group.	β	Beta co-efficient values
n	Total number gives a count in absolute numbers.	٣	every one-unit of chang
OR	Odds Ratio quantifies the likelihood that an event will occur under two different conditions. Values greater than 1 indicate increased likelihood (eg 2.0 represents twice as likely) and values lower than 1 indicate decreased likelihood.	η²	Eta squared (or partial- proportion of variance e variance explained by o
aOR	Adjusted Odds Ratio means the OR measure has been adjusted to account for the impact of other variables considered in the analysis.		larger values indicating

р	The p-value describes the probability that the observed effect or a more extreme effect is a 'chance finding': there is no true intervention effect. In these tables, effects were deemed 'significant' where p<0.05. The smaller the p-value is for each finding, the higher the likelihood is that there is a true effect.
Pooled Effect Size	The pooled effect is the weighted average of the study level effect sizes. There are various meta-analytical methods that use different principles to calculate weights.
Q	Cochran's Q is a measure of heterogeneity in meta-analyses. Where study results are very dissimilar, heterogeneity will be high.
QA	Quality Assessment rating refers to the methodological quality of the study. The quality rating results from double-appraising included studies and reaching consensus where there was initial disagreement. For primary studies, a rating of 1 means the study was of high methodological quality, 2 means the methodology was rated moderate, and 3 means the methodology was weak.
QED	Quasi-experimental designs, such as non-randomised controlled trials, instrumental variable designs, or regression discontinuity designs. These research designs aim to enable causal inference (estimating intervention effects) by comparing outcomes of a group of participants who received an intervention with a control group. Depending on which statistical method is used to estimate the difference in group means, QEDs can achieve results that are more robust (eg regression discontinuity design) or much less robust (eg non-randomised controlled study).
R <sup>2</sup>	R <sup>2</sup> from regression models captures the proportion of variance in a dependent variable explained by the independent variable(s) included in the model.
RCT	A randomised controlled trial is a research design that involves randomisation of participants to an intervention or control arm. RCTs allow causal inference by comparing outcomes of a group of participants who received an intervention with a control group. Due to the randomisation process, the control group is assumed to provide a robust counterfactual to the intervention group. Where selection bias or attrition could undermine this comparison, this is reflected in a low quality assessment rating.
SE	Standard Error is a quantified estimate of inaccuracy in the effect that is a result of random variation within the data. Smaller values reflect increased accuracy in the effect size.
SMD	Standardised Mean Difference is a measure of effect size at the meta-analytical level.
t	t from t-test analysis quantifies the difference between the average scores of two groups while accounting for variation.
β	Beta co-efficient values express the degree of change in the outcome variable for every one-unit of change in the predictor variable.
η²	Eta squared (or partial-eta squared) is a standardised measure that quantifies the proportion of variance explained by an individual variable, while accounting for variance explained by other variables in the model. Values range from 0 to 1, with larger values indicating that a higher proportion of variance is accounted for.

# References

- Acosta, J., Chinman, M., Ebener, P., Malone, P. S., Phillips, A., & Wilks, A. (2019). Evaluation of a whole-school change intervention: Findings from a two-year cluster-randomized trial of the Restorative Practices Intervention. *Journal of Youth and Adolescence*, 48(5), 876–890. https://doi.org/10.1007/s10964-019-01013-2
- Ahmad, S. I., Leventhal, B. L., Nielsen, B. N., & Hinshaw, S. P. (2020). Reducing mental-illness stigma via high school clubs: A matched-pair, cluster-randomized trial. *Stigma and Health*, 5(2), 230–239. https://doi.org/10.1037/sah0000193
- Allara, E., Beccaria, F., Molinar, R., Marinaro, L., Ermacora, A., Coppo, A., Faggiano, F., & Faggiano, F. (2019). A schoolbased program to promote well-being in preadolescents: Results from a cluster quasi-experimental controlled study. *The Journal of Primary Prevention*, 40(2), 151–170. https://doi.org/10.1007/s10935-018-0530-y
- Allen, J. P., Narr, R. K., Nagel, A. G., Costello, M. A., & Guskin, K. (2020). The Connection Project: Changing the peer environment to improve outcomes for marginalized adolescents. *Development and Psychopathology*, 33(2), 1–11. https://doi.org/10.1017/S0954579419001731
- Andrés-Rodríguez, L., Pérez-Aranda, A., Feliu-Soler, A., Rubio-Valera, M., Aznar-Lou, I., Serrano-Blanco, A., Juncosa, M., Tosas, A., Bernadàs, A., & Luciano, J. V. (2017). Effectiveness of the 'What's Up!' intervention to reduce stigma and psychometric properties of the Youth Program Questionnaire (YPQ): Results from a cluster non-randomized controlled trial conducted in Catalan high schools. *Frontiers in Psychology*, *8*, 1608. https://doi.org/10.3389/fpsyg.2017.01608
- Åvitsland, A., Leibinger, E., Resaland, G. K., Solberg, R. B., Kolle, E., & Dyrstad, S. M. (2020). Effects of school-based physical activity interventions on mental health in adolescents: The School in Motion cluster randomized controlled trial. *Mental Health and Physical Activity*, *19*, 100348. https://doi.org/10.1016/j.mhpa.2020.100348
- Baños, R. M., Etchemendy, E., Mira, A., Riva, G., Gaggioli, A., & Botella, C. (2017). Online positive interventions to promote well-being and resilience in the adolescent population: A narrative review. *Frontiers in Psychiatry*, *8*. https://doi.org/10.3389/fpsyt.2017.00010
- Banyard, V. L. (2019). Evaluating a gender transformative violence prevention program for middle school boys A pilot study. *Children and Youth Services Review*, 9.
- Barry, M., Murphy, M., & O'Donovan, H. (2017). Assessing the effectiveness of a cognitive behavioural group coaching intervention in reducing symptoms of depression among adolescent males in a school setting. *International Coaching Psychology Review*, 12(2), 101–109.
- Beaudry, M. B., Swartz, K., Miller, L., Schweizer, B., Glazer, K., & Wilcox, H. (2019). Effectiveness of the Adolescent Depression Awareness Program (ADAP) on Depression Literacy and Mental Health Treatment. *Journal of School Health*, *89*(3), 165–172. https://doi.org/10.1111/josh.12725
- Benas, J. S., McCarthy, A. E., Haimm, C. A., Huang, M., Gallop, R., & Young, J. F. (2019). The Depression Prevention Initiative: Impact on Adolescent Internalizing and Externalizing Symptoms in a Randomized Trial. *Journal of Clinical Child & Adolescent Psychology*, 48(sup1), S57–S71. https://doi.org/10.1080/15374416.2016.1197839
- Benítez-Sillero, J. D., Corredor-Corredor, D., Córdoba-Alcaide, F., & Calmaestra, J. (2020). Intervention programme to prevent bullying in adolescents in physical education classes (PREBULLPE): A quasi-experimental study. *Physical Education and Sport Pedagogy*, 26(1), 36–50. https://doi.org/10.1080/17408989.2020.1799968
- Blossom, J. B., Adrian, M. C., Stoep, A. V., & McCauley, E. (2020). Mechanisms of change in the prevention of depression: An indicated school-based prevention trial at the transition to high school. *Journal of the American Academy of Child & Adolescent Psychiatry*, 59(4), 541–551. https://doi.org/10.1016/j.jaac.2019.05.031
- Bonell, C., Allen, E., Warren, E., McGowan, J., Bevilacqua, L., Jamal, F., Legood, R., Wiggins, M., Opondo, C., & Mathiot, A. (2018). Effects of the Learning Together intervention on bullying and aggression in English secondary schools (INCLUSIVE): A cluster randomised controlled trial. *The Lancet*, 392(10163), 2452–2464. https://doi.org/10.1016/ S0140-6736(18)31782-3

- Bonell, C., Dodd, M., Allen, E., Bevilacqua, L., McGowan, J., Opondo, C., ... & Viner, R. M. (2020). Broader impacts of an intervention to transform school environments on student behaviour and school functioning: post hoc analyses from the INCLUSIVE cluster randomised controlled trial. *BMJ Open*, 10(5), e031589. https://doi.org/10.1136/ bmjopen-2019-031589
- Bonell, C., Mathiot, A., Allen, E., Bevilacqua, L., Christie, D., Elbourne, D., ... & Viner, R. M. (2017). Initiating change locally in bullying and aggression through the school environment (INCLUSIVE) trial: update to cluster randomised controlled trial protocol. *Trials*, *18*(1), 1–3. https://doi.org/10.1186/s13063-017-1984-6
- Brière, F. N., Reigner, A., Yale-Soulière, G., & Turgeon, L. (2019). Effectiveness trial of brief indicated cognitivebehavioral group depression prevention in French-Canadian secondary schools. *School Mental Health*, 11(4), 728–740. https://doi.org/10.1007/s12310-019-09316-2
- Brown, J. S. L., Blackshaw, E., Stahl, D., Fennelly, L., McKeague, L., Sclare, I., & Michelson, D. (2019). School-based early intervention for anxiety and depression in older adolescents: A feasibility randomised controlled trial of a selfreferral stress management workshop programme ('DISCOVER'). *Journal of Adolescence*, 71, 150–161. https://doi. org/10.1016/j.adolescence.2018.11.009
- Burckhardt, R., Manicavasagar, V., Batterham, P. J., Hadzi-Pavlovic, D., & Shand, F. (2017). Acceptance and commitment therapy universal prevention program for adolescents: A feasibility study. *Child and Adolescent Psychiatry and Mental Health*, 11(1), 27. https://doi.org/10.1186/s13034-017-0164-5
- Burckhardt, R., Manicavasagar, V., Shaw, F., Fogarty, A., Batterham, P. J., Dobinson, K., & Karpin, I. (2018). Preventing mental health symptoms in adolescents using dialectical behaviour therapy skills group: A feasibility study. International Journal of Adolescence and Youth, 23(1), 70–85. https://doi.org/10.1080/02673843.2017.1292927
- Calear, A. L., Christensen, H., Freeman, A., Fenton, K., Busby Grant, J., van Spijker, B., & Donker, T. (2015). A systematic review of psychosocial suicide prevention interventions for youth. *European Child & Adolescent Psychiatry*, 25(5), 467–482. https://doi.org/10.1007/s00787-015-0783-4
- Calvete, E., Fernández-Gonzalez, L., Orue, I., Echezarraga, A., Royuela-Colomer, E., Cortazar, N., Muga, J., Longa, M., & Yeager, D. S. (2019a). The effect of an intervention teaching adolescents that people can change on depressive symptoms, cognitive schemas, and hypothalamic-pituitary-adrenal axis hormones. *Journal of Abnormal Child Psychology*, 47(9). https://doi.org/10.1007/s10802-019-00538-1
- Calvete, E., Orue, I., Fernández-González, L., & Prieto-Fidalgo, A. (2019b). Effects of an incremental theory of personality intervention on the reciprocity between bullying and cyberbullying victimization and perpetration in adolescents. *PLOS ONE*, *14*(11), e0224755. https://doi.org/10.1371/journal.pone.0224755
- Campos, L., Dias, P., Duarte, A., Veiga, E., Dias, C., & Palha, F. (2018). Is it possible to 'find space for mental health' in young people? Effectiveness of a school-based mental health literacy promotion program. *International Journal of Environmental Research and Public Health*, *15*(7), 1426. https://doi.org/10.3390/ijerph15071426
- Carissoli, C., & Villani, D. (2019). Can videogames be used to promote emotional intelligence in teenagers? Results from EmotivaMente, a school program. *Games for Health Journal*, 8(6), 407–413. https://doi.org/10.1089/g4h.2018.0148
- Carnevale, T. D. (2013). Universal adolescent depression prevention programs: A review. *The Journal of School Nursing*, 29(3), 181–195. https://doi.org/10.1177/1059840512469231
- Carrascosa, L., Cava, M.-J., Buelga, S., & de Jesus, S.-N. (2019). Reduction of sexist attitudes, romantic myths, and aggressive behaviors in adolescents: Efficacy of the DARSI program. *Psicothema*, 31.2, 121–127. https://doi. org/10.7334/psicothema2018.245
- Castillo-Eito, L., Armitage, C. J., Norman, P., Day, M. R., Dogru, O. C., & Rowe, R. (2020). How can adolescent aggression be reduced? A multi-level meta-analysis. *Clinical Psychology Review*, 78, 101853. https://doi.org/10.1016/j.cpr.2020.101853
- Castillo-Gualda, R., Cabello, R., Herrero, M., Rodríguez-Carvajal, R., & Fernández-Berrocal, P. (2018). A three-year emotional intelligence intervention to reduce adolescent aggression: The mediating role of unpleasant affectivity. *Journal of Research on Adolescence*, *28*(1), 186–198. https://doi.org/10.1111/jora.12325
- Chis, A., & Rusu, A. S. (2019). School-based interventions for developing emotional abilities in adolescents: A systematic review. *European Proceedings of Social & Behavioural Sciences*. https://doi.org/10.15405/ epsbs.2019.06.52

- Cilar, L., Štiglic, G., Kmetec, S., Barr, O., & Pajnkihar, M. (2020). Effectiveness of school-based mental well-being interventions among adolescents: A systematic review. *Journal of Advanced Nursing*, 76(8), 2023–2045. https://doi.org/10.1111/jan.14408
- Coelho, V., & Sousa, V. (2017). The impact of class-level variables on the effectiveness of a middle school social and emotional learning program: A multilevel analysis. *Journal of Relationships Research*, 8, e21. https://doi.org/10.1017/jrr.2017.21
- Coelho, V., Sousa, V., Raimundo, R., & Figueira, A. (2017). The impact of a Portuguese middle school social–emotional learning program. *Health Promotion International*, *32*(2), 292–300. https://doi.org/10.1093/heapro/dav064
- Cox, E., Leung, R., Baksheev, G., Day, A., Toumbourou, J. W., Miller, P., Kremer, P., & Walker, A. (2016). Violence prevention and intervention programmes for adolescents in Australia: A systematic review. *Australian Psychologist*, 51(3), 206–222. https://doi.org/10.1111/ap.12168
- Cross, D., Shaw, T., Epstein, M., Pearce, N., Barnes, A., Burns, S., Waters, S., Lester, L., & Runions, K. (2018). Impact of the *Friendly Schools* whole-school intervention on transition to secondary school and adolescent bullying behaviour. *European Journal of Education*, 53(4), 495–513. https://doi.org/10.1111/ejed.12307
- Curran, T., & Wexler, L. (2017). School-based positive youth development: A systematic review of the literature. *Journal of School Health*, 87(1), 71–80. https://doi.org/10.1111/josh.12467
- De Koker, P., Mathews, C., Zuch, M., Bastien, S., & Mason-Jones, A. J. (2014). A systematic review of interventions for preventing adolescent intimate partner violence. *Journal of Adolescent Health*, 54(1), 3–13. https://doi.org/10.1016/j.jadohealth.2013.08.008
- De La Rue, L., Polanin, J. R., Espelage, D. L., & Pigott, T. D. (2017). A meta-analysis of school-based interventions aimed to prevent or reduce violence in teen dating relationships. *Review of Educational Research*, 87(1), 7–34. https://doi.org/10.3102/0034654316632061
- DeGue, S., Niolon, P. H., Estefan, L. F., Tracy, A. J., Le, V. D., Vivolo-Kantor, A. M., Little, T. D., Latzman, N. E., Tharp, A., Lang, K. M., & Taylor, B. (2020). Effects of Dating Matters® on sexual violence and sexual harassment outcomes among middle school youth: A cluster-randomized controlled trial. *Prevention Science*, 22(2), 175–185. https://doi. org/10.1007/s11121-020-01152-0
- DeLuca, J. S., Tang, J., Zoubaa, S., Dial, B., & Yanos, P. T. (2020). Reducing stigma in high school students: A cluster randomized controlled trial of the National Alliance on Mental Illness' Ending the Silence intervention. *Stigma and Health*. https://doi.org/10.1037/sah0000235
- Densley, J. A., Adler, J. R., Zhu, L., & Lambine, M. (2017). Growing against gangs and violence: Findings from a process and outcome evaluation. *Psychology of Violence*, 7(2), 242–252. https://doi.org/10.1037/vio0000054
- Dowling, K., & Barry, M. M. (2020). The effects of implementation quality of a school-based social and emotional wellbeing program on students' outcomes. *European Journal of Investigation in Health*, Psychology and Education, 10(2), 595–614. https://doi.org/10.3390/ejihpe10020044
- Dowling, K., Simpkin, A. J., & Barry, M. M. (2019). A cluster randomized-controlled trial of the MindOut social and emotional learning program for disadvantaged post-primary school students. *Journal of Youth and Adolescence*, 48(7), 1245–1263. https://doi.org/10.1007/s10964-019-00987-3
- Duthely, L. M., Nunn, S. G., & Avella, J. T. (2017). A novel heart-centered, gratitude-meditation intervention to increase well-being among adolescents. *Education Research International*, 2017, 1–12. https://doi. org/10.1155/2017/4891892
- Feiss, R., Dolinger, S. B., Merritt, M., Reiche, E., Martin, K., Yanes, J. A., Thomas, C. M., & Pangelinan, M. (2019). A systematic review and meta-analysis of school-based stress, anxiety, and depression prevention programs for adolescents. *Journal of Youth and Adolescence*, 48(9), 1668–1685. https://doi.org/10.1007/s10964-019-01085-0
- Felver, J. C., Clawson, A. J., Morton, M. L., Brier-Kennedy, E., Janack, P., & DiFlorio, R. A. (2019). School-based mindfulness intervention supports adolescent resiliency: A randomized controlled pilot. *International Journal of School & Educational Psychology*, 7(1), 111–122. https://doi.org/10.1080/21683603.2018.1461722
- Frank, J. L., Kohler, K., Peal, A., & Bose, B. (2017). Effectiveness of a school-based yoga program on adolescent mental health and school performance: Findings from a randomized controlled trial. *Mindfulness*, 8(3), 544–553. https://doi.org/10.1007/s12671-016-0628-3

- Freire, T., Lima, I., Teixeira, A., Araújo, M. R., & Machado, A. (2018). Challenge: To Be + . A group intervention program to promote the positive development of adolescents. *Children and Youth Services Review*, *87*, 173–185. https://doi.org/10.1016/j.childyouth.2018.02.035
- Fung, J., Kim, J. J., Jin, J., Chen, G., Bear, L., & Lau, A. S. (2019). A randomized trial evaluating school-based mindfulness intervention for ethnic minority youth: Exploring mediators and moderators of intervention effects. *Journal of Abnormal Child Psychology*, 47(1), 1–19. https://doi.org/10.1007/s10802-018-0425-7
- García-Escalera, J. (2020). Educational and wellbeing outcomes of an anxiety and depression prevention program for adolescents. *Revista de Psicodidáctica*, 25(2), 143–149. https://doi.org/10.1016/j.psicoe.2020.05.003
- Garmy, P., Clausson, E. K., Berg, A., Steen Carlsson, K., & Jakobsson, U. (2019). Evaluation of a school-based cognitive-behavioral depression prevention program. *Scandinavian Journal of Public Health*, 47(2), 182–189. https://doi.org/10.1177/1403494817746537
- Gavine, A. J., Donnelly, P. D., & Williams, D. J. (2016). Effectiveness of universal school-based programs for prevention of violence in adolescents. *Psychology of Violence*, 6(3), 390–399. https://doi.org/10.1037/vio0000052
- Gee, B., Reynolds, S., Carroll, B., Orchard, F., Clarke, T., Martin, D., Wilson, J., & Pass, L. (2020). Practitioner review: Effectiveness of indicated school-based interventions for adolescent depression and anxiety – A meta-analytic review. *Journal of Child Psychology and Psychiatry*, *61*(7), 739–756. https://doi.org/10.1111/jcpp.13209
- Goyer, J. P., Cohen, G. L., Cook, J. E., Master, A., Apfel, N., Lee, W., Henderson, A. G., Reeves, S. L., Okonofua, J. A., & Walton, G. M. (2019). Targeted identity-safety interventions cause lasting reductions in discipline citations among negatively stereotyped boys. *Journal of Personality and Social Psychology*, 117(2), 229. https://doi.org/10.1037/ pspa0000152
- Grant, T. A. (2013). A meta-analysis of school-based interventions for middle schoolers: Academic, behavioral, and social outcomes. ETD Collection for Fordham University. https://research.library.fordham.edu/dissertations/ AAI3542750
- Harrison, M. G., & Wang, Z. (2020). School counselling based on humanistic principles: A pilot randomized controlled trial in Hong Kong. Asia Pacific Journal of Counselling and Psychotherapy, 11(2), 122–138. https://doi.org/10.1080/21507686.2020.1781667
- Hart, L. M., Cropper, P., Morgan, A. J., Kelly, C. M., & Jorm, A. F. (2020). teen Mental Health First Aid as a schoolbased intervention for improving peer support of adolescents at risk of suicide: Outcomes from a cluster randomised crossover trial. Australian & New Zealand Journal of Psychiatry, 54(4), 382–392. https://doi. org/10.1177/0004867419885450
- Hart, L. M., Morgan, A. J., Rossetto, A., Kelly, C. M., Mackinnon, A., & Jorm, A. F. (2018). Helping adolescents to better support their peers with a mental health problem: A cluster-randomised crossover trial of teen Mental Health First Aid. Australian & New Zealand Journal of Psychiatry, 52(7), 638–651. https://doi.org/10.1177/0004867417753552
- Haugland, B. S. M., Haaland, A. T., Baste, V., Bjaastad, J. F., Hoffart, A., Rapee, R., Raknes, S., Himle, J., Husabø, E. & Wergeland, G. J. (2020). Effectiveness of brief and standard school-based cognitive-behavioral interventions for adolescents with anxiety: A randomized noninferiority study. *Adolescent Psychiatry*, 59(4), 15. https://doi. org/10.1016/j.jaac.2019.12.003
- Haugland, B. S. M., Raknes, S., Haaland, A. T., Wergeland, G. J., Bjaastad, J. F., Baste, V., Himle, J., Rapee, R. & Hoffart, A. (2017). School-based cognitive behavioral interventions for anxious youth: study protocol for a randomized controlled trial. *Trials*, 18(1), 100. https://doi.org/10.1186/s13063-017-1831-9
- Howard, K. A., Griffiths, K. M., McKetin, R., & Ma, J. (2018). Can a brief biologically-based psychoeducational intervention reduce stigma and increase help-seeking intentions for depression in young people? A randomised controlled trial. *Journal of Child & Adolescent Mental Health*, 30(1), 27–39. https://doi.org/10.2989/17280583.201 8.1467323
- Ingram, K. M., Espelage, D. L., Merrin, G. J., Valido, A., Heinhorst, J., & Joyce, M. (2019). Evaluation of a virtual reality enhanced bullying prevention curriculum pilot trial. *Journal of Adolescence*, 71, 72–83. https://doi.org/10.1016/j. adolescence.2018.12.006
- Johnson, C., Burke, C., Brinkman, S., & Wade, T. (2016). Effectiveness of a school-based mindfulness program for transdiagnostic prevention in young adolescents. *Behaviour Research and Therapy*, 81, 1–11. https://doi.org/10.1016/j.brat.2016.03.002

- Johnson, C., Burke, C., Brinkman, S., & Wade, T. (2017). A randomized controlled evaluation of a secondary school mindfulness program for early adolescents: Do we have the recipe right yet? *Behaviour Research and Therapy*, 99, 37–46. https://doi.org/10.1016/j.brat.2017.09.001
- Johnson, C., & Wade, T. (2019). Piloting a more intensive 8-week mindfulness programme in early- and midadolescent school students. *Early Intervention in Psychiatry*, 13(6), 1495–1502. https://doi.org/10.1111/eip.12801
- Kang, Y., Rahrig, H., Eichel, K., Niles, H. F., Rocha, T., Lepp, N. E., Gold, J., & Britton, W. B. (2018). Gender differences in response to a school-based mindfulness training intervention for early adolescents. *Journal of School Psychology*, 68, 163–176. https://doi.org/10.1016/j.jsp.2018.03.004
- Kelley, T., Kessel, A., Collings, R., Rubenstein, B., Monnickendam, C., & Solomon, A. (2021). Evaluation of the iHEART mental health education programme on resilience and well-being of UK secondary school adolescents. *Journal of Public Mental Health*. https://doi.org/10.1108/JPMH-03-2020-0019
- Klimes-Dougan, B., Klingbeil, D. A., & Meller, S. J. (2013). The impact of universal suicide-prevention programs on the help-seeking attitudes and behaviors of youths. *Crisis*, 34(2), 82–97. https://doi.org/10.1027/0227-5910/a000178
- Knight, M. A., Haboush-Deloye, A., Goldberg, P. M., & Grob, K. (2019). Strategies and tools to embrace prevention with upstream programs: A novel pilot program for enhancing social and emotional protective factors in middle school students. *Children & Schools*, 41(4), 213–220. https://doi.org/10.1093/cs/cdz020
- Kuosmanen, T., Clarke, A. M., & Barry, M. M. (2019). Promoting adolescents' mental health and wellbeing: Evidence synthesis. *Journal of Public Mental Health*, 18(1), 73–83. https://doi.org/10.1108/JPMH-07-2018-0036
- Lam, K., & Seiden, D. (2020). Effects of a brief mindfulness curriculum on self-reported executive functioning and emotion regulation in Hong Kong adolescents. *Mindfulness*, *11*(3), 627–642. https://doi.org/10.1007/s12671-019-01257-w
- Larsen, T. B., Urke, H., Tobro, M., Årdal, E., Waldahl, R. H., Djupedal, I., & Holsen, I. (2019). Promoting mental health and preventing loneliness in upper secondary school in Norway: Effects of a randomized controlled trial. Scandinavian Journal of Educational Research, 65(2), 181–194. https://doi.org/10.1080/00313831.2019.1659405
- Leen, E., Sorbring, E., Mawer, M., Holdsworth, E., Helsing, B., & Bowen, E. (2013). Prevalence, dynamic risk factors and the efficacy of primary interventions for adolescent dating violence: An international review. *Aggression and Violent Behavior*, *18*(1), 159–174. https://doi.org/10.1016/j.avb.2012.11.015
- Link, B. G., DuPont-Reyes, M. J., Barkin, K., Villatoro, A. P., Phelan, J. C., & Painter, K. (2020). A school-based intervention for mental illness stigma: A cluster randomized trial. *Pediatrics*, 145(6), e20190780. https://doi. org/10.1542/peds.2019-0780
- Lombas, A. S., Jiménez, T. I., Arguís-Rey, R., Hernández-Paniello, S., Valdivia-Salas, S., & Martín-Albo, J. (2019). Impact of the Happy Classrooms Programme on psychological well-being, school aggression, and classroom climate. *Mindfulness*, 10(8), 1642–1660. https://doi.org/10.1007/s12671-019-01132-8
- Lubman, D. I., Cheetham, A., Sandral, E., Wolfe, R., Martin, C., Blee, F., Berridge, B. J., Jorm, A. F., Wilson, C., Allen, N. B., McKay-Brown, L., & Proimos, J. (2020). Twelve-month outcomes of MAKINGtheLINK: A cluster randomized controlled trial of a school-based program to facilitate help-seeking for substance use and mental health problems. *EClinicalMedicine*, *18*, 100225. https://doi.org/10.1016/j.eclinm.2019.11.018
- Lundgren, R., & Amin, A. (2015). Addressing intimate partner violence and sexual violence among adolescents: Emerging evidence of effectiveness. *Journal of Adolescent Health*, 56(1, Supplement), S42–S50. https://doi. org/10.1016/j.jadohealth.2014.08.012
- Makover, H., Adrian, M., Wilks, C., Read, K., Stoep, A. V., & McCauley, E. (2019). Indicated prevention for depression at the transition to high school: Outcomes for depression and anxiety. *Prevention Science*, 20(4), 499–509. https://doi.org/10.1007/s11121-019-01005-5
- Martinez, T., & Zhao, Y. (2018). The Impact of Mindfulness Training on Middle Grades Students' Office Discipline Referrals. *RMLE Online*, 41(3), 1–8. https://doi.org/10.1080/19404476.2018.1435840
- McElwain, A., McGill, J., & Savasuk-Luxton, R. (2017). Youth relationship education: A meta-analysis. *Children and* Youth Services Review, 82, 499–507. https://doi.org/10.1016/j.childyouth.2017.09.036
- McKeering, P., & Hwang, Y.-S. (2019). A Systematic review of mindfulness-based school interventions with early adolescents. *Mindfulness*, 10(4), 593–610. https://doi.org/10.1007/s12671-018-0998-9

- McQuillin, S. D., & McDaniel, H. L. (2021). Pilot randomized trial of brief school-based mentoring for middle school students with elevated disruptive behavior. *Annals of the New York Academy of Sciences*, 1483(1), 127–141. https://doi.org/10.1111/nyas.14334
- Midgett, A., Doumas, D., Trull, R., & Johnston, A. D. (2017). A Randomized Controlled Study Evaluating a Brief, Bystander Bullying. *Journal of School Counseling*, 15(9).
- Moore, B., Dudley, D., & Woodcock, S. (2019). The effects of martial arts participation on mental and psychosocial health outcomes: A randomised controlled trial of a secondary school-based mental health promotion program. BMC Psychology, 7(1), 60. https://doi.org/10.1186/s40359-019-0329-5
- Morgan-Lopez, A. A., Saavedra, L. M., Yaros, A. C., Trudeau, J. V., & Buben, A. (2020). The effects of practitionerdelivered school-based mental health on aggression and violence victimization in middle schoolers. *School Mental Health*, 12(2), 417–427. https://doi.org/10.1007/s12310-020-09361-2
- Muñoz-Fernández, N., Ortega-Rivera, J., Nocentini, A., Menesini, E., & Sánchez-Jiménez, V. (2019). The efficacy of the 'Dat-e Adolescence' prevention program in the reduction of dating violence and bullying. *International Journal of Environmental Research and Public Health*, 16(3). https://doi.org/10.3390/ijerph16030408
- Muratori, P., Bertacchi, I., Catone, G., Mannucci, F., Nocentini, A., Pisano, S., & Lochman, J. E. (2020). Coping power universal for middle school students: The first efficacy study. *Journal of Adolescence*, 79, 49–58. https://doi. org/10.1016/j.adolescence.2019.12.014
- Ng, E. D., Chua, J. Y. X., & Shorey, S. (2020). The effectiveness of educational interventions on traditional bullying and cyberbullying among adolescents: A systematic review and meta-analysis. *Trauma, Violence, & Abuse*. https://doi.org/10.1177/1524838020933867
- Niolon, P. H., Vivolo-Kantor, A. M., Tracy, A. J., Latzman, N. E., Little, T. D., DeGue, S., Lang, K. M., Estefan, L. F., Ghazarian, S. R., McIntosh, W. L. K., Taylor, B., Johnson, L. L., Kuoh, H., Burton, T., Fortson, B., Mumford, E. A., Nelson, S. C., Joseph, H., Valle, L. A., & Tharp, A. T. (2019). An RCT of dating matters: Effects on teen dating violence and relationship behaviors. *American Journal of Preventive Medicine*, 57(1), 13–23. https://doi.org/10.1016/j. amepre.2019.02.022
- Obsuth, I., Sutherland, A., Cope, A., Pilbeam, L., Murray, A. L., & Eisner, M. (2017). London Education and Inclusion Project (LEIP): Results from a cluster-randomized controlled trial of an intervention to reduce school exclusion and antisocial behavior. *Journal of Youth and Adolescence*, 46(3), 538–557. https://doi.org/10.1007/s10964-016-0468-4
- O'Dea, B., Calear, A. L., & Perry, Y. (2015). Is e-health the answer to gaps in adolescent mental health service provision? *Current Opinion in Psychiatry*, 28(4), 336–342. https://doi.org/10.1097/YCO.00000000000170
- Ohira, I., Urao, Y., Sato, Y., Ohtani, T., & Shimizu, E. (2019). A pilot and feasibility study of a cognitive behavioural therapy-based anxiety prevention programme for junior high school students in Japan: A quasi-experimental study. *Child and Adolescent Psychiatry and Mental Health*, 13(1), 40. https://doi.org/10.1186/s13034-019-0300-5
- Pannebakker, F. D., van Genugten, L., Diekstra, R. F. W., Gravesteijn, C., Fekkes, M., Kuiper, R., & Kocken, P. L. (2019). A social gradient in the effects of the Skills for Life program on self-efficacy and mental wellbeing of adolescent students. *Journal of School Health*, 89(7), 587–595. https://doi.org/10.1111/josh.12779
- Patafio, B., Miller, P., Baldwin, R., Taylor, N., & Hyder, S. (2021). A systematic mapping review of interventions to improve adolescent mental health literacy, attitudes and behaviours. *Early Intervention in Psychiatry*. https://doi.org/10.1111/eip.13109
- Pearce, P., Sewell, R., Cooper, M., Osman, S., Fugard, A. J. B., & Pybis, J. (2017). Effectiveness of school-based humanistic counselling for psychological distress in young people: Pilot randomized controlled trial with follow-up in an ethnically diverse sample. *Psychology and Psychotherapy: Theory, Research and Practice*, 90(2), 138–155. https://doi.org/10.1111/papt.12102
- Perry, Y., Werner-Seidler, A., Calear, A., Mackinnon, A., King, C., Scott, J., Merry, S., Fleming, T., Stasiak, K., & Christensen, H. (2017). Preventing depression in final year secondary students: School-based randomized controlled trial. *Journal of Medical Internet Research*, *19*(11), e369. https://doi.org/10.2196/jmir.8241
- Peskin, M. F., Markham, C. M., Shegog, R., Baumler, E. R., Addy, R. C., Temple, J. R., Hernandez, B., Cuccaro, P. M., Thiel, M. A., Gabay, E. K., & Tortolero Emery, S. R. (2019). Adolescent Dating Violence Prevention Program for Early Adolescents: The Me & You randomized controlled trial, 2014–2015. *American Journal of Public Health*, 109(10), 1419–1428. https://doi.org/10.2105/AJPH.2019.305218

- Putwain, D. W., & Pescod, M. (2018). Is reducing uncertain control the key to successful test anxiety intervention for secondary school students? Findings from a randomized control trial. *School Psychology Quarterly*, *33*(2), 283. https://doi.org/10.1037/spq0000228
- Putwain, D. W., & von der Embse, N. P. (2020). Cognitive–behavioral intervention for test anxiety in adolescent students: Do benefits extend to school-related wellbeing and clinical anxiety. *Anxiety, Stress, & Coping*, 1–15. https://doi.org/10.1080/10615806.2020.1800656
- Reed, K. P., Cooper, R. L., Nugent, W. R., & Russell, K. (2016). Cyberbullying: A literature review of its relationship to adolescent depression and current intervention strategies. *Journal of Human Behavior in the Social Environment*, 26(1), 37–45. https://doi.org/10.1080/10911359.2015.1059165
- Reidy, D. E., Holland, K. M., Cortina, K., Ball, B., & Rosenbluth, B. (2017). Evaluation of the expect respect support group program: A violence prevention strategy for youth exposed to violence. *Preventive Medicine*, 8. https://doi. org/10.1016/j.ypmed.2017.05.003
- Roberts, R. M., Fawcett, L., & Searle, A. (2019). An evaluation of the effectiveness of the Personal Leadership Program designed to promote positive outcomes for adolescents. *Journal of Happiness Studies*, 20(3), 743–757. https://doi.org/10.1007/s10902-018-9971-5
- Rodríguez-Ledo, C., Orejudo, S., Cardoso, M. J., Balaguer, Á., & Zarza-Alzugaray, J. (2018). Emotional Intelligence and Mindfulness: Relation and Enhancement in the Classroom With Adolescents. *Frontiers in Psychology*, 9, 2162. https://doi.org/10.3389/fpsyg.2018.02162
- Sælid, G. A., & Nordahl, H. M. (2017). Rational emotive behaviour therapy in high schools to educate in mental health and empower youth health. A randomized controlled study of a brief intervention. *Cognitive Behaviour Therapy*, 46(3), 196–210. https://doi.org/10.1080/16506073.2016.1233453
- Sánchez-Jiménez, V., Muñoz-Fernández, N., & Ortega-Rivera, J. (2018). Efficacy evaluation of 'Dat-e Adolescence': A dating violence prevention program in Spain. *PLoS One*, *13*(10). https://doi.org/10.1371/journal.pone.0205802
- Sargent, K. S. (2017). A high school-based evaluation of TakeCARE, a video bystander program to prevent adolescent relationship violence. *Journal of Youth and Adolescence*, 11. https://doi.org/10.1007/s10964-016-0622-z
- Saxena, K., Verrico, C. D., Saxena, J., Kurian, S., Alexander, S., Kahlon, R. S., Arvind, R. P., Goldberg, A., DeVito, N., Baig, M., Grieb, A., Bakhshaie, J., Simonetti, A., Storch, E. A., Williams, L., & Gillan, L. (2020). An evaluation of yoga and meditation to improve attention, hyperactivity, and stress in high-school students. *The Journal of Alternative and Complementary Medicine*, 26(8), 701–707. https://doi.org/10.1089/acm.2020.0126
- Schleider, J. L., Burnette, J. L., Widman, L., Hoyt, C., & Prinstein, M. J. (2019). Randomized trial of a single-session growth mind-set intervention for rural adolescents' internalizing and externalizing problems. *Journal of Clinical Child & Adolescent Psychology*, 49(5), 660–672. https://doi.org/10.1080/15374416.2019.1622123
- Schoeps, K., Villanueva, L., Prado-Gascó, V. J., & Montoya-Castilla, I. (2018). Development of emotional skills in adolescents to prevent cyberbullying and improve subjective well-being. *Frontiers in Psychology*, 9. https://doi. org/10.3389/fpsyg.2018.02050
- Scott, K. F. (2016). A meta-analysis of school-based interventions for adolescent depression [Doctoral dissertation, St John's University, New York]. https://www.proquest.com/openview/c89f0c4716077ce7cb6f66781e9cd402/1?pq-origsite=gscholar&cbl=18750
- Seedaket, S., Turnbull, N., Phajan, T., & Wanchai, A. (2020). Improving mental health literacy in adolescents: Systematic review of supporting intervention studies. *Tropical Medicine and International Health*. Scopus. https://doi.org/10.1111/tmi.13449
- Shelemy, D. L., Harvey, D. K., & Waite, D. P. (2020). Meta-analysis and systematic review of teacher-delivered mental health interventions for internalizing disorders in adolescents. *Mental Health and Prevention*, 19. Scopus. https://doi.org/10.1016/j.mhp.2020.200182
- Sinyor, M., Hawes, D., Rector, N. A., Cheung, A. H., Williams, M., Cheung, C., Goldstein, B. I., Fefergrad, M., Levitt, A. J. L., & Shaffer, A. S. (2020). Preliminary Investigation of a Novel Cognitive Behavioural Therapy Curriculum on the Wellbeing of Middle Schoolers. *Journal of the Canadian Academy of Child and Adolescent Psychiatry*. 29(2): 66–75.
- Smokowski, P. R., Evans, C. B., Wing, H., Bower, M., Bacallao, M., & Barbee, J. (2018). Implementing school based youth courts in a rural context: The impact on students' perceptions of school climate, individual functioning, and interpersonal relationships. *Child and Adolescent Social Work Journal*, *35*(2), 127–138.

- Ssegonja, R., Nystrand, C., Feldman, I., Sarkadi, A., Langenskiold, S., & Jonsson, U. (2019). Indicated preventive interventions for depression in children and adolescents: A meta-analysis and meta-regression. *Preventive Medicine*, 118, 7–15. https://doi.org/10.1016/j.ypmed.2018.09.021
- Stapleton, P., Mackay, E., Chatwin, H., Murphy, D., Porter, B., Thibault, S., Sheldon, T., & Pidgeon, A. (2018). Effectiveness of a school-based emotional freedom techniques intervention for promoting student wellbeing. *Adolescent Psychiatry*, 7(2). https://doi.org/10.2174/2210676607666171101165425
- Suh, E. S. (2019). The effects of therapeutic group drumming with Korean middle school students on aggression as related to school violence prevention. *The Arts in Psychotherapy*, 66. https://doi.org/10.1016/j.aip.2019.101583
- Swartz, K., Musci, R. J., Beaudry, M. B., Heley, K., Miller, L., Alfes, C., Townsend, L., Thornicroft, G., & Wilcox, H. C. (2017). School-based curriculum to improve depression literacy among US secondary school students: A randomized effectiveness trial. *American Journal of Public Health*, 107(12), 1970–1976. https://doi.org/10.2105/ AJPH.2017.304088
- Takahashi, F., Ishizu, K., Matsubara, K., Ohtsuki, T., & Shimoda, Y. (2020). Acceptance and commitment therapy as a school-based group intervention for adolescents: An open-label trial. *Journal of Contextual Behavioral Science*, 16, 71–79. https://doi.org/10.1016/j.jcbs.2020.03.001
- Teesson, M., Newton, N. C., Slade, T., Chapman, C., Birrell, L., Mewton, L., Mather, M., Hides, L., McBride, N., Allsop, S., & Andrews, G. (2020). Combined prevention for substance use, depression, and anxiety in adolescence: A clusterrandomised controlled trial of a digital online intervention. *The Lancet Digital Health*, 2(2), e74–e84. https://doi. org/10.1016/S2589-7500(19)30213-4
- Tejada-Gallardo, C., Blasco-Belled, A., Torrelles-Nadal, C., & Alsinet, C. (2020). Effects of school-based multicomponent positive psychology interventions on well-being and distress in adolescents: A systematic review and meta-analysis. *Journal of Youth and Adolescence*. https://doi.org/10.1007/s10964-020-01289-9
- Terry, J. D., Weist, M. D., Strait, G. G., & Miller, M. (2020). Motivational interviewing to promote the effectiveness of selective prevention: An integrated school-based approach. *Prevention Science*. https://doi.org/10.1007/s11121-020-01124-4
- Tokolahi, E., Vandal, A. C., Kersten, P., Pearson, J., & Hocking, C. (2018). Cluster-randomised controlled trial of an occupational therapy intervention for children aged 11-13 years, designed to increase participation to prevent symptoms of mental illness. *Child and Adolescent Mental Health*, 23(4), 313–327. https://doi.org/10.1111/camh.12270
- Torcasso, G., & Hilt, L. M. (2017). Suicide prevention among high school students: Evaluation of a nonrandomized trial of a multi-stage suicide screening program. *Child & Youth Care Forum*, 46(1), 35–49. https://doi.org/10.1007/s10566-016-9366-x
- Truskauskaitė-Kunevičienė, I., Romera, E., Ortega-Ruiz, R., & Žukauskienė, R. (2020). Promoting positive youth development through a school-based intervention program Try Volunteering. *Current Psychology*, 39(2), 705–719. https://doi.org/10.1007/s12144-018-9790-1
- Umaña-Taylor, A. J., Douglass, S., Updegraff, K. A., & Marsiglia, F. F. (2018a). A small-scale randomized efficacy trial of the *Identity Project*: Promoting adolescents' ethnic-racial identity exploration and resolution. *Child Development*, 89(3), 862–870. https://doi.org/10.1111/cdev.12755
- Umaña-Taylor, A. J., Kornienko, O., Douglass Bayless, S., & Updegraff, K. A. (2018b). A universal intervention program increases ethnic-racial identity exploration and resolution to predict adolescent psychosocial functioning one year later. *Journal of Youth and Adolescence*, 47(1), 1–15. https://doi.org/10.1007/s10964-017-0766-5
- Van de Sande, M. C. E., Fekkes, M., Kocken, P. L., Diekstra, R. F. W., Reis, R., & Gravesteijn, C. (2019). Do universal social and emotional learning programs for secondary school students enhance the competencies they address? A systematic review. *Psychology in the Schools*, 56(10), 1545–1567. https://doi.org/10.1002/pits.22307
- Van Loon, A. W. G., Creemers, H. E., Beumer, W. Y., Okorn, A., Vogelaar, S., Saab, N., Miers, A. C., Westenberg, P. M., & Asscher, J. J. (2020). Can schools reduce adolescent psychological stress? A multilevel meta-analysis of the effectiveness of school-based intervention programs. *Journal of Youth and Adolescence*, 49(6), 1127–1145. https://doi.org/10.1007/s10964-020-01201-5

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- Van Ryzin, M. J., & Roseth, C. J. (2018). Cooperative learning in middle school: A means to improve peer relations and reduce victimization, bullying, and related outcomes. *Journal of Educational Psychology*, 110(8), 1192–1201. https://doi.org/10.1037/edu0000265
- Vivolo-Kantor, A. M., Niolon, P. H., Estefan, L. F., Le, V. D., Tracy, A. J., Latzman, N. E., Little, T. D., Lang, K. M., DeGue, S., & Tharp, A. T. (2019). Middle school effects of the Dating Matters® comprehensive teen dating violence prevention model on physical violence, bullying, and cyberbullying: A cluster-randomized controlled trial. *Prevention Science*, 1–11. https://doi.org/10.1007/s11121-020-01114-6
- Volanen, S.-M., Lassander, M., Hankonen, N., Santalahti, P., Hintsanen, M., Simonsen, N., Raevuori, A., Mullola, S., Vahlberg, T., But, A., & Suominen, S. (2020). Healthy learning mind – Effectiveness of a mindfulness program on mental health compared to a relaxation program and teaching as usual in schools: A cluster-randomised controlled trial. *Journal of Affective Disorders*, 260, 660–669. https://doi.org/10.1016/j.jad.2019.08.087
- Wahl, O., Rothman, J., Brister, T., & Thompson, C. (2019). Changing student attitudes about mental health conditions: NAMI ending the silence. *Stigma and Health*, 4(2), 188–195. https://doi.org/10.1037/sah0000135
- Weeks, C., Hill, V., & Owen, C. (2017). Changing thoughts, changing practice: Examining the delivery of a group CBTbased intervention in a school setting. *Educational Psychology in Practice*, 33(1), 1–15. https://doi.org/10.1080/02 667363.2016.1217400
- Wei, Y., Kutcher, S., & LeBlanc, J. C. (2015). Hot idea or hot air: A systematic review of evidence for two widely marketed youth suicide prevention programs and recommendations for implementation. *Journal of the Canadian Academy of Child and Adolescent Psychiatry*, 24(1), 5.
- Werner-Seidler, A., Perry, Y., Calear, A. L., Newby, J. M., & Christensen, H. (2017). School-based depression and anxiety prevention programs for young people: A systematic review and meta-analysis. *Clinical Psychology Review*, *51*, 30–47. https://doi.org/10.1016/j.cpr.2016.10.005
- Young, J. F., Jones, J. D., Sbrilli, M. D., Benas, J. S., Spiro, C. N., Haimm, C. A., Gallop, R., Mufson, L., & Gillham, J. E. (2019). Long-term effects from a school-based trial comparing interpersonal psychotherapy-adolescent skills training to group counseling. *Journal of Clinical Child & Adolescent Psychology*, 48(1), S362–S370. https://doi.org/1 0.1080/15374416.2018.1479965