## Mental Health: Multi-tiered Interventions to Create Trauma-informed Schools

## Summary Evidence Table

This table outlines information from the studies included in the Community Guide systematic review of Family-based Interventions to Prevent Substance Use Among Youth. It details study quality, population and intervention characteristics, and study outcomes considered in this review. Complete references for each study can be found in the Included Studies section of the review summary

## **Abbreviations Used in This Document:**

- Intervention components
  - TIS: trauma-informed schools
  - SEL: social-emotional learning
  - CBITS: Cognitive Behavioral Intervention for
    - Trauma in Schools
- Measurement terms
  - o CI: confidence interval
  - o pct pts: percentage points
  - SD: standard deviation
- Study design
  - o RCT: randomized control trial
- Other terms:
  - NA: not applicable
  - o NR: not reported
  - o NS: not significant
  - SES: socioeconomic status

- ACEs: Adverse Childhood Events
- o PTSD: post-traumatic stress disorder

## Notes:

- Suitability of design includes three categories: greatest, moderate, or least suitable design. Read more >>
- Quality of Execution Studies are assessed to have good, fair, or limited quality of execution. Read more >>
- Race/ethnicity of the study population: The Community Guide only summarizes race/ethnicity for studies conducted in the United States.

Study Population Char	acteristics	Intervention Characteristics	Results
Author, Year Eligibility criteria for	r inclusion in	Setting	Internalizing/Externalizing Student
Baez, 2019 <b>evaluation</b>		School level: Middle School	Behaviors Combined
Student in participating	g school	School grades: NR	Outcome measure: Problem behaviors
Location			(externalizing, bullying,
US: NY Total sample popula	tion	Dates of implementation	hyperactivity/inattention, and internalizing)
Schools: 2		2015-2017	measured by the Social Skills Improvement
Study design Students: 500			System Rating.
Before-after		Evaluation duration	Tien masseymed. Tien 1
Demographics		21 months	Tier measured: Tier 1
Suitability of design   Age: NR   Sex: NR		Goographic coale	Results:
Least Sex: NR Race/Ethnicity: 83.7%	Hicpanic	Geographic scale Urban	Pre: 1.75
Quality of Execution: Fair 12.6% Black, <2% Wh		Orban	Post: 1.62
Asian	iite, 1.0 /0	Intervention:	Absolute difference: -0.13, NS
Limitations: 2 SES: Low, "high pover	tv" 30-42%·	Intervention name: NR	Relative difference: -7.4%
Sampling, loss to follow-up high parental unemplo		The vention name. Wit	Relative difference. 71470
18%; >80% free lunch		Framework: NR	
Disability: Special need			Paper conclusions: The evaluation found
24.6%		Tier 1	that students reported lower social skills
Trauma: 77% experier	nced 1 or more	Student Strategies: Screening, SEL	and higher problem behaviors as the level
ACEs; 37% 2-3 ACEs;	18% 4+ ACEs		of reported traumatic experience increased.
Types of trauma exper	rienced: Two	Adult Strategies: Training for	· ·
most common were ne		teachers, teacher/staff	In addition, students with higher reported
violence, separation/di	vorce of	psychoeducation, parent engagement	levels of trauma reported more problem
parents			behaviors over the course of a school year,
		Programmatic/Policy Strategies: Field	in spite of receiving additional
		trips and assemblies, milieu support:	interventions.
		transitions, family events, group	
		celebrations	
		T' 2	
		Tier 2	
		Student Strategies: Trauma-specific	
		group therapy, mentoring for chronic absenteeism	
		absencedsin	
		Adult Strategies: NA	
		Programmatic/Policy Strategies:	
		Crisis de-escalation and mediation	

Study	Population Characteristics	Intervention Characteristics	Results
		Tier 3 Student Strategies: Individual trauma-specific therapy, referrals or partnering to other local mental health providers, home-based intervention, family meetings Adult Strategies: NA Programmatic/Policy Strategies: NA Comparison: NA	
Author, Year	Eligibility criteria for inclusion in	Setting	PTSD
Beehler 2012	evaluation Schools in Jersey City and Clifton, NJ	School level: Elementary, Middle, High School	Outcome measure: PTSD Symptomology measured using the UCLA PTSD Reaction
Location		School grades: K-12	Index (RI)
US: NJ	Total sample population Schools: 9 Students: 1034	Dates of implementation NR; Data were collected every 3	Tier measured: Tier 3
Study design		months; study took place over 3	Results:
Before-after	Demographics	years	Pre: 24.22
	Mean age: 14.4		Post: 15.52
Suitability of design Least	Sex: 63.1% female Race/Ethnicity: NR Immigrant Status: 50% born outside	Evaluation duration 3 years	Absolute difference: -8.7 (p<0.05) Relative difference: -35.9%
Quality of Execution: Fair	of the US SES: Middle/high	<b>Geographic scale</b> Urban and suburban	Internalizing/Externalizing Student Behaviors Combined
Limitations: 3	Disability: NR	_	Outcome measure: Functional impairment
Sampling, data analysis, bias	Trauma: Average of 4 traumatic events Types of trauma experienced: Community violence, traumatic loss	Intervention: Intervention name: Cultural Adjustment and Trauma Services (CATS)	measured using the Child and Adolescent Functional Assessment Scale
	or bereavement, physical	(CA13)	Tier measured: Tier 3
	maltreatment/abuse/assault, and domestic violence	Framework: Family, Adult, and Child Engagement Services model	Results: Pre: 48.71
		Tier 1 Student Strategies: Screening, support for students who are upset	Post: 21.33 Absolute difference: -27.4 (p<0.01) Relative difference: -56.2%

Study	Population Characteristics	Intervention Characteristics	Results
		or distracted in class, wraparound support  Adult Strategies: Training for teachers, education for caregivers  Programmatic/Policy Strategies: NA  Tier 2  Student Strategies: Psychoeducation for at-risk students, screening, also provided tangible assistance to students and wraparound support  Adult Strategies: NR  Programmatic/Policy Strategies: Programming (school and program staff created a system to ensure new immigrant students were introduced to CATS program staff within the first week of arriving at school and created a special acculturation group to help orient them to the new culture and school).  Tier 3  Student Strategies: Individual trauma-specific therapy, wraparound support  Adult Strategies: Family therapy/meetings  Programmatic/Policy Strategies: NA  Comparison: NA	Paper Conclusions: CATS services resulted in improved functioning and fewer PTSD symptoms for their clients. Functional impairment decreased as a result of greater cumulative totals of supportive therapy, TFCBT, and CBT services. PTSD symptoms decreased as a result of greater cumulative totals of TF-CBT and coordinating services.

Study	Population Characteristics	Intervention Characteristics	Results
Author, Year Diggins 2021  Location Non-US: Australia  Study design Before-after	Eligibility criteria for inclusion in evaluation All students at one of the school campuses were exposed to the intervention, but only students with two valid data points were included in the analyses.	December 2018-December 2019	Internalizing/Externalizing Student Behaviors Combined Outcome measure: Total difficulties (combination of emotional symptoms, conduct problems, hyperactivity, & peer problems) measured by the Strength & Difficulties Questionnaire
Suitability of design Least Quality of Execution: Fair	Total sample population Schools: 1 Students: 64  Demographics Mean age: 12.5	Evaluation duration 12 months  Geographic scale Urban	Tier measured: Tier 1  Results: Pre: 25.0 Post: 17.75
Limitations: 2 Data analysis, loss to follow-up	Sex: 11% female Race/Ethnicity: 22% Aboriginal or Torres Strait Islander SES: NR Disability: Many of the students in the population had existing diagnoses including autism spectrum disorder (50%), ADHD (50%), and anxiety (56%). Occupational Defiance Disorder (ODD) diagnosis = 22% Trauma: NR Types of trauma experienced: NR	Intervention Intervention name: The Rethinking Learning and Teaching Environments (ReLATE)  Framework: SAMHSA principles of trauma informed care, 'Helping Traumatized Children Learn', and the National Child Traumatic Stress Network literature  Tier 1 Student Strategies: Screening, SEL, psychoeducation, safety plans for all students  Adult Strategies: Training for teachers, teacher/staff psychoeducation  Programmatic/Policy Strategies: NA  Tier 2 Student Strategies: Psychoeducation for at-risk students, screening, trauma-specific group therapy	Absolute difference: -7.3 (p<0.01) Relative difference: -29.0%  Quality of Life Outcome measure: Total impact (impact of students' behavior on family, homelife, friendships, learning and leisure activities) measured by the Strengths & Difficulties Questionnaire  Tier measured: Tier 1  Results: Pre: 7.14 Post: 4.14 Absolute difference: -3.0 (p=0.08) Relative difference: -42.0%  Paper Conclusions: This study demonstrated that over 12 months, a schoolwide trauma-informed intervention model led to a range of emotional and behavioral benefits with moderate to large effect sizes.

Study	Population Characteristics	Intervention Characteristics	Results
		Adult Strategies: NA	
		Programmatic/Policy Strategies: NA	
		Tier 3 Student Strategies: Individual trauma-specific therapy	
		Adult Strategies: Referrals/crisis support for trauma-impacted school staff	
		Programmatic/Policy Strategies: NA	
		Comparison: NA	
Author, Year Dorado 2016	Eligibility criteria for inclusion in evaluation Schools were chosen based on need,	Setting School level: Elementary, Middle School	Externalizing Student Behaviors Outcome measure: Arousal regulation measured by the Child and Adolescent
Location US: CA	principal buy-in and good-enough infrastructure.	School grades: K-8 <sup>th</sup>	Needs and Strengths
		Dates of implementation	Tier measured: Tier 3
Study design Before-after	Total sample population Schools: 4	2009-2014	Results:
Suitability of design	Students: 1243	<b>Evaluation duration</b> 60 months	Pre: 1.93 Post: 1.54
Least	<b>Demographics</b> Mean age: 8.5	Geographic scale	Absolute difference: -0.4 (p=0.000) Relative difference: -20.2%
Quality of Execution: Fair	Sex: 47% female Race/Ethnicity: 38% African	Urban	Internalizing Student Behaviors
Limitations: 3	American, 4% Asian, 8% Pacific	Intervention	Outcome measure: Intrusions measured by
Description, measurement: exposure, other changes	Islander, 4% Filipino, 2% White, 4% two or more Races, 1% American Indian or Alaska Native, 4%	Intervention name: Health Environments and Response to Trauma in Schools (HEARTS)	the Child and Adolescent Needs and Strengths
occurred simultaneously	race/ethnicity not reported 34 % Hispanic or Latino of any race	Framework: RTI, PBIS, RJ, The	Tier measured: Tier 3
	SES: Low, 76% students qualifying for free or reduced lunch	Attachment, Self-Regulation, and Competency (ARC) framework	Results: Pre: 0.61
	Disability: NR Trauma: NR	Tier 1	Post: 0.33 Absolute difference: -0.3 (p=0.026)

Study	Population Characteristics	Intervention Characteristics	Results
	Types of trauma experienced: NR	Student Strategies: Screening, SEL, psychoeducation  Adult Strategies: Training for teachers, education for caregivers, community engagement  Programmatic/Policy Strategies: school policy change  Tier 2  Student Strategies: Psychoeducation for at-risk students  Adult Strategies: Strategies for caregivers, wellness support for teachers/staff  Programmatic/Policy Strategies: Onsite consultation  Tier 3  Student Strategies: Individual trauma-specific therapy, referrals or partnering to local mental health provider  Adult Strategies: Referrals/crisis support for trauma-impacted school staff, family therapy/meetings  Programmatic/Policy Strategies: District-wide focus to improve access to tier 3 services  Comparison: NA	Relative difference: -45.9%  Disciplinary actions Outcome measure: # of disciplinary incidents measured by office referrals and suspensions  Tier measured: Tier 1  Results: Pre: 674 Post: 87 Absolute difference: -587 (p<0.001) Relative difference: -87.1%  Outcome measure: # of incidents involving physical aggression measured by office referrals and suspensions  Tier measured: Tier 1  Results: Pre: 407 Post: 58 Absolute difference: -349 (p<0.001) Relative difference: -85.7%  Outcome measure: # of out of school suspensions measured by office referrals and suspensions  Tier measured: Tier 1  Results: Pre: 56 Post: 3 Absolute difference: -53 (p<0.001) Relative difference: -94.6%  Quality of Life

Study	Population Characteristics	Intervention Characteristics	Results
			Outcome measure: Adjustment to trauma (how students are able to function in daily living) measured by the Child and Adolescent Needs and Strengths
			Tier measured: Tier 3
			Results: Pre: 1.96 Post: 1.50 Absolute difference: -0.46 (p=0.00) Relative difference: -23.5%
			Paper Conclusions: School personnel who responded to the Program Evaluation Survey reported significant increases in their understanding of trauma and use of trauma-sensitive practices, as well as significant improvements in their students' ability to learn, time on task and school attendance. Authors also report a significant drop in disciplinary office referrals, incidents involving physical aggression and out-of-school suspensions. HEARTS clients improved in their adjustment to trauma (how they are able to function in daily living), affect regulation (ability to identify, express and modulate emotions), intrusions (thoughts related to the trauma that impact attention and behavior), attachment (ability to relate to others and develop healthy relationships) and dissociation.

Study	Population Characteristics	Intervention Characteristics	Results
Author, Year	Eligibility criteria for inclusion in	Setting	PTSD
Ellis 2013	evaluation	School level: Middle School	Outcome measure: PTSD Symptomology
	1 school with Somali and Somali	School grades: 6-8	measured by the UCLA PTSD RI-1
Location	Bantu students who are English		T
US: New England	language learners	Dates of implementation 2008-2009	Tier measured: Tier 1, 2, and 3
Study design	Total sample population	2000 2003	Results:
Before-after	Schools: 1	Evaluation duration	Pre: Tier 1 0.66, Tier 2 0.93, Tier 3 1.01
	Students: 30	12 months	Post: Tier 1 0.43, Tier 2 0.36, Tier 3 0.66
Suitability of design			Absolute difference: Tier 1 -0.23, Tier 2 -
Least	Demographics	Geographic scale	0.57, Tier 3 -0.35
Ovality of Everytians Fair	Mean age: 13	Urban	Relative difference: Tier 1 -34.8%, Tier 2
Quality of Execution: Fair	Sex: 36.7% female Race/Ethnicity: 60% Somali, 40%	Intervention	-61.3%, Tier 3 -34.7%
Limitations: 3	Somali Bantu	Intervention name: Project SHIFA	Depression
		(Supporting the Health of Immigrant	Outcome measure: Depression symptoms
Description, loss to follow-up,	Disability: NR	Families and Adolescents)	measured by the Depression Self-Rating
bias	Trauma: NR	,	Scale
	Types of trauma experienced: NR	Framework: Inter-Agency Standing	
		Committee's intervention pyramid for	Tier measured: Tier 1, 2, and 3
		mental health and psychosocial	
		support	Results:
			Pre: Tier 1 0.35, Tier 2 0.49, Tier 3 0.65
		Tier 1	Post: Tier 1 0.22, Tier 2 0.32, Tier 3 0.4 Absolute difference: Tier 1 -0.13, Tier 2
		Student Strategies: Screening, SEL	-0.17, Tier 3 -0.25
		Student Strategies: Screening, SEL	Relative difference: Tier 1 -37.1%, Tier 2
		Adult Strategies: NA	-34.7%, Tier 3 -38.5%
		Programmatic/Policy Strategies: NA	Quality of Life
		Tier 2	Outcome measure: Resource hardship measured by the Post-War Adversities
		Student Strategies: Screening,	Scale
		school-based skill-building	Scarc
		psychotherapy	Tier measured: Tier 1, 2, and 3
		Adult Strategies: NA	Results:
		Addit Strategies. NA	Pre: Tier 1 0.15, Tier 2 0.16, Tier 3 0.18
		Programmatic/Policy Strategies: NA	Post: Tier 1 0.05, Tier 2 0.05, Tier 3 0.22 Absolute difference: Tier 1 -0.1, Tier 2

Study	Population Characteristics	Intervention Characteristics	Results
		Tier 3 Student Strategies: Individual trauma-specific therapy, referrals or partnering to local mental health providers, home-based interventions Adult Strategies: NA Programmatic/Policy Strategies: NA Comparison: NA	-0.11, Tier 3 0.04 Relative difference: Tier 1 -66.7%, Tier 2 -68.8%, Tier 3 22.2%  Paper Conclusions: Participants in Tiers 2, 3, and 4 (equivalent to tiers 1, 2, and 3 by Community Guide's intervention definition) showed reductions in PTSD symptoms. Participants in all tiers showed reductions in symptoms of depression and participants in tiers 1 and 2 showed reductions in resource hardships over time.
Author, Year Hansel 2010  Location US: LA	Eligibility criteria for inclusion in evaluation Student in school that signed up for program, parental consent	Setting School level: Elementary, Middle, High School School grades: 1-12	PTSD Outcome measure: Proportion meeting PTSD diagnostic criteria measured by the UCLA PTSD RI-1
Study design	Total sample population Schools: NR	Dates of implementation 2003-2007	Tier measured: Tier 3
Before-after  Suitability of design	Students: 157  Demographics	Evaluation duration NR	Results: Pre: 26.1
Least  Quality of Execution: Fair	Mean age: 14.0 Sex: 47.8% female Race/Ethnicity: NR	Geographic scale Rural	Post: 17.9 Absolute difference: -8.2, p<.01 Relative difference: -31.5%
Limitations: 4 Description, sampling, loss to follow-up, bias	SES: Low, 73% (median) eligible for free/reduced price lunch; 19% median of 3 parishes below federal poverty level	Intervention Intervention name: NR	Externalizing Student Behaviors Outcome measure: Anger measured by the Trauma Symptoms Checklist for Children
Tollow-up, blas	Disability: NR Trauma: Mean number of ACEs = 2.3 Types of trauma experienced: 63%	Framework: NR	Tier measured: Tier 3
	traumatic loss/bereavement, 39% domestic violence, 28% impaired	Tier 1 Student Strategies: Screening	Results: Pre: 8.1
	caregiver, 20% natural disaster, 11% community violence, 10% school violence, 9% sexual assault/rape, 9% emotional abuse, 6% sexual abuse,	for teachers, teacher/staff	Post: 6.8  Absolute difference: -1.3 Relative difference: -15.6%
	5% physical abuse, there are others reported.	Programmatic/Policy Strategies: NA	Depression

Study	Population Characteristics	Intervention Characteristics	Results
		Tier 2 Student Strategies: Screening	Outcome measure: Depression symptoms measured by the Trauma Symptom Checklist for Children
		Staff/Caregiver Strategies: NA	Tier measured: Tier 3
		Programmatic/Policy Strategies: Onsite consultation	Results: Pre: 6.8
		Tier 3 Student Strategies: Individual trauma-specific therapy	Post: 4.6 Absolute difference: -2.2, p<0.01 Relative difference: -32.1%
		Staff/Caregiver Strategies: NA	Anxiety Outcome measure: Anxiety measured by
		Programmatic/Policy Strategies: NA	the Trauma Symptom Checklist for Children
		Comparison: NA	Tier measured: Tier 3
			Results: Pre: 5.9
			Post: 3.9 Absolute difference: -2.0, p<0.01 Relative difference: -34.5%
			Paper Conclusions: The result of the three-tiered approach proved effective in reducing trauma symptoms for some students exposed to traumatic events.
Author, Year Holmes 2015	Eligibility criteria for inclusion in evaluation Preschools with Head Start program	Setting School level: Pre-school School grades: Pre-K	Externalizing Student Behaviors Outcome measure: Externalizing behaviors measured by the Achenbach Teacher
Location	, ,	_	Report
US: Midwest	<b>Total sample population</b> Schools: 3	<b>Dates of implementation</b> 2011-2012 School Year	Tier measured: Tier 3
Study design Before-after	Students: 1100 Teachers: 400 Parents/Caregivers: 81	Evaluation duration 24 months	Results: Pre: 63.4
Suitability of design	. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		Post: 60.9

Study	Population Characteristics	Intervention Characteristics	Results
Least  Quality of Execution: Fair  Limitations: 2  Sampling, data analysis	Population Characteristics  Demographics Mean age: 4.25 Sex: 36% female Race/Ethnicity: 39% African American, 15% White, 8% Latino/Latina, 3% other, 35% no response SES: Low Disability: NR Trauma: 74% of the caregivers reported that their child had been exposed to at least one traumatic event, 60% reported at least two traumatic events, and close to one- half (45%) reported exposure to three or more traumatic events Types of trauma experienced: Most commonly reported trauma was having a family member in jail/prison or taken away by police (see Table 2 for trauma type frequency)	Characteristics  Geographic scale Urban  Intervention Intervention name: Head Start Trauma Smart  Framework: The Attachment, Self-Regulation, and Competency (ARC) framework  Tier 1 Student Strategies: Screening  Staff/Caregiver Strategies: Training for teachers, education for caregivers, parent engagement, staff mentoring/support, teacher/staff consultation, community engagement  Programmatic/Policy Strategies: Structural change	Results  Absolute difference: -2.5, p<0.05 Relative difference: -3.9%  Student-Staff Relationships Outcome measure: Emotional support domain measured by the Classroom Assessment Scoring System (CLASS)  Tier measured: Tier 3  Results: Pre: 4.6 Post: 5.33 Absolute difference: 0.73 Relative difference: 15.9%  Paper Conclusions: Significant improvements were seen in the teacher report of key externalizing outcomes. Parents noted positive changes in both internalizing and externalizing behaviors. Parents, teachers, and administrators generally reported satisfaction with the
		Tier 2 Student Strategies: Screening, staff provided individualized interventions for the child, such as play therapy Staff/Caregiver Strategies: Strategies for caregivers/community, classroom support	HSTS program.
		Programmatic/Policy Strategies: NA  Tier 3 Student Strategies: Individual trauma-specific therapy  Staff/Caregiver Strategies: NA	

Study	Population Characteristics	Intervention Characteristics	Results
		Programmatic/Policy Strategies: NA Comparison: NA	
Author, Year Hutchison 2019  Location US: CT  Study design Before-after with concurrent comparison  Suitability of design Greatest  Quality of Execution Fair  Limitations: 2 Measurement (exposure), data analysis	Eligibility criteria for inclusion in evaluation Students must attend participating school. Schools selected based on comparable characteristics. Consent to participate.  Total sample population Total sample population Schools: 2 Students: 245  Demographics Mean age: 8.7 years old Sex: 44.5% female Race/Ethnicity: 71% Black, 15% Hispanic, 7% Multi-racial, 8% other or unknown SES: Mixed, 54% from households with low income Disability: NR Trauma: NR Types of trauma experienced: NR, communities characterized by indicators of increased risk to community violence including high unemployment, high poverty, and high crime rates	Setting School level: Elementary, Middle School grades: K-8  Dates of implementation Varies; measures completed in September, January, and May for a two-year school period  Evaluation duration 24 months  Geographic scale Urban  Intervention Intervention name: Aspire Connect Thrive (ACT) program  Framework: Aspire, Connect, Thrive  Tier 1 Student Strategies: Screening, SEL, student-peer support, academic support  Staff/Caregiver Strategies: Training for teachers, parent engagement  Programmatic/Policy Strategies: Programming  Tier 2	Tier measured: Tier 1  Outcome measure: Total score from trauma checklist measured by the Trauma Symptom Checklist for Young Children - Short Form (TSCYC); ages 3-8.  Results:  Intervention Control Pre 24.2 24.8 Post 24.1 25.6  Absolute difference: -0.92 Relative difference: -3.7%  Outcome measure: Total score from trauma checklist measured by the Trauma Symptom Checklist for Children - Short Form (TSCC); ages 8-16  Results:  Intervention Control Pre 7.1 6.6 Post 7.2 6.4  Absolute difference: 0.26 Relative difference: 3.5%  Paper Conclusions: No significant changes were found in PTSD symptoms.
		Student Strategies: Psychoeducation	The authors found increased levels of social-emotional competence (SEC) as

Study	Population Characteristics	Intervention Characteristics	Results
		Staff/Caregiver Strategies: NA Programmatic/Policy Strategies: NA Tier 3 Student Strategies: Individual trauma-specific therapy, referrals or partnering to local mental health provider Staff/Caregiver Strategies: Referrals/crisis support for trauma impacted school staff Programmatic/Policy Strategies: NA Comparison: Comparable elementary school that did not receive the intervention	indicated by the teacher-completed rating scale for those who participated in the ACT intervention compared to those who did not. Those with elevated trauma scores at baseline reported increased SEC benefits.
Author, Year Perry 2016  Location US: CT  Study design Before-after	Eligibility criteria for inclusion in evaluation  Must be a New Haven public school; willing to implement the program  Total sample population Schools: 1 Students: 77	Setting School level: School serving pre-k- middle school aged children School grades: School serves pre-k- 8 <sup>th</sup> grade, intervention implemented in 5 <sup>th</sup> and 6 <sup>th</sup> grades  Dates of implementation	Outcome measure: Proportion of participants with PTSD Symptomology measured using the UCLA PTSD Reaction Index (RI)  Tier measured: Tier 2
Suitability of design Least  Quality of Execution Fair	Demographics Age: 10-12-year-olds Sex: NR Race/Ethnicity: 82% African American, 5% White, 13% Hispanic	Evaluation duration Intervention implemented over the school year	Results: Pre: 100.0 Post: 17.0 Absolute difference: -83.0 pct pts (p-value NR)
Limitations: 3 Sampling, measurement (exposure), bias	SES (info is for entire school): Low, 76% of students eligible for Free Lunch; 5% eligible for Reduced Lunch Disability: NR Trauma:41% saw someone in their town being beaten, shot, or killed;	Geographic scale Urban  Intervention Intervention name: Professional Development; Care Coordination,	Relative difference: -83.0%  Paper Conclusions: The Clifford Beers Clinic (CBC) was able to provide some guidance that assisted school staff and/or community members in learning about

Study	Population Characteristics	Intervention Characteristics	Results
	65% knew about violent death or serious injury of a loved one Types of trauma experienced: Community and family violence	Clinical Services workshops, Clinical Services CBITS  Framework: Milwaukee Wraparound philosophy  Tier 1 Student Strategies: Screening, Psychoeducation  Staff/Caregiver Strategies: Training for teachers and nonteaching staff  Programmatic/Policy Strategies: NR  Tier 2 Student Strategies: Screening, psychoeducation, trauma-specific group therapy (CBITS)  Staff/Caregiver Strategies: Strategies for caregivers  Programmatic/Policy Strategies: NR  Tier 3 Student Strategies: Wraparound support  Staff/Caregiver Strategies: NR  Programmatic/Policy Strategies: NR  Programmatic/Policy Strategies: NR  Comparison: NA	trauma sensitive practices (tier 1); identifying students in need of trauma-informed support (tier 2); implementing systems to provide trauma-informed services to students (tier 3); and helping students learn skills in how to cope with current symptoms and how to respond to future stress (tier 3).
Author, Year Shamblin 2016 Location	Eligibility criteria for inclusion in evaluation  Pre-K classrooms funded by the HRSA Outreach Grant or through	Setting School level: Preschool School grades Pre-K	Externalizing behavior Outcome measure: Self-control measured by Devereux Early Childhood Assessment (DECA)
US: OH	Project LAUNCH	Dates of implementation 2011-2012	Tier measured: Tier 1

Study	Population Characteristics	Intervention Characteristics	Results
Study design Before-after  Suitability of design Least  Quality of Execution Fair  Limitations: 3 Description, sampling, data analysis	Total sample population Schools: 5 Students: 217  Demographics Age: NR Sex: NR Race/Ethnicity: NR SES: Low, reported as population with economic hardship Disability: NR Trauma: NR Types of trauma experienced: NR	Characteristics  Evaluation duration 12 months Geographic scale Rural  Intervention Intervention name: Project LAUNCH (Linking Action to Unmet Needs) and Partnerships Program  Framework: Early Childhood Mental Health Consultation (ECMHC) models  Tier 1 Student Strategies: Screening, SEL	Results: DECA results for the intervention group outperformed the control (increased scores on child self-control)  Student-staff relationships Outcome measure: Positive attributes measured by Classroom Environment and Teacher Practices  Tier measured: Tier 1  Results: Pre: 4.29 Post: 4.28
		Staff/Caregiver Strategies: Teacher training, staff peer mentoring/support,  Programmatic/Policy Strategies: NR  Tier 2 Student Strategies: Screening, behavior plans for students  Staff/Caregiver Strategies: Strategies for caregivers, classroom support	Absolute difference = -0.01 (p=0.91)  Outcome measure: Negative attributes measured by Preschool Mental Health Climate Scale  Tier measured: Tier 1  Results: Pre: 1.38 Post: 1.15 Absolute difference = -0.23 (p=0.004) (Favorable)
		Programmatic/Policy Strategies: NR  Tier 3 Student Strategies: Individual trauma-specific therapy  Staff/Caregiver Strategies: NR  Programmatic/Policy Strategies: NR	Paper Conclusions: By positively impacting the resilience of children through the development of compassionate teacher relationships, the Partnerships Program, Project LAUNCH and participating schools have potentially made contributions toward diminishing the effects of trauma.

Study	Population Characteristics	Intervention Characteristics	Results
		Comparison: NA	
Author, Year Tabone 2020  Location US: WV Study design Before-after with concurrent comparison group  Suitability of design Greatest  Quality of Execution Fair  Limitations: 4 Description, sampling, loss to follow-up, bias	Eligibility criteria for inclusion in evaluation Schools needed to be in the rural panhandle of West Virginia Total sample population Schools: 11 Students: 94 classrooms (does not report # of students)  Demographics Age: assume 4-7 based on grade level Sex: NR Race/Ethnicity: NR SES: NR Disability: NR Trauma: NR, but mentions over half of children in West Virginia experience at least one traumatic event including parental opioid overdose Types of trauma experienced: Over half of children in West Virginia experience at least one traumatic event including parental opioid overdose Types of trauma experienced: Over half of children in West Virginia experience at least one traumatic event including parental opioid overdose	Setting School level: elementary School grades: pre-K thru first grade  Dates of implementation 2015/16 school year through 2018/19 school year  Evaluation duration 36 months  Geographic scale Rural  Intervention Intervention name: Trauma-Informed Elementary Schools (TIES)  Framework: The Attachment, Self Regulation, and Competency (ARC) framework  Tier 1 Student Strategies: Screening, SEL  Staff/Caregiver Strategies: Classroom training for teachers, training for other school staff, education for parents/caregivers  Programmatic/Policy Strategies: NR  Tier 2 Student Strategies: Screening, psychoeducation	Student-Staff Relationships Outcome measure: Emotional support domain of the Classroom Assessment Scoring System (CLASS)  Tier measured: Tier 1  Results:

Study	Population Characteristics	Intervention Characteristics	Results
		Staff/Caregiver Strategies: Wellness support for school staff	
		Programmatic/Policy Strategies: NR  Tier 3 Student Strategies: Individual trauma-specific therapy, Referrals or partnering with local mental health provider	
		Staff/Caregiver Strategies: NR	
		Programmatic/Policy Strategies: NR	
		Comparison: classrooms that did not receive the TIES intervention	