

Appendix 4: Categorization of Outcomes and Outcome Measures in Studies of Interventions to enhance psychological resilience in forcibly displaced children

Category	Outcome	No. of studies reporting outcome	Measures	No. of studies using scale	Measure Description
Coping Style	Internalizing problems	3	Child Behavior Checklist (CBCL) and Youth Self-Report (YSR)	3	The CBCL and YSR have questions echoed in two survey versions; one designed for caregivers (CBCL) and the other designed for self-reporting of children. ^{1,2}
	Externalizing problems	3		3	
	Attention problems	1		1	
Resilience	Child psychosocial protective factors	1	The Child Psychosocial Protective Factors Scale	1	A 14-item scale on the sources of support for children including negative self-esteem, good emotional outlook as well as improved social skills. ¹
	Resilience	1	Child and Youth Resilience Measure (CYRM)	1	The study used an adapted version of CYRM which is a 10-item questionnaire assessing individual resilience among children exposed to war trauma. ³
	Family satisfaction	1	Olson (2011)	1	This is a sub-scales of the FACES-IV Instrument. It is composed of 10 items that assess fulfillment and joy among family members. ⁴
Behavioral problems of childhood	Behavioral problems of childhood	10	Erica Method	1	A play-therapy and play-diagnostic tool relying on the assessment of sandboxes. ⁵
			Strengths and Difficulties Questionnaire (SDQ)	6	A questionnaire comprising of 25 items with five sub-scales available in three versions; teacher, caregiver and a self-rated form. ⁶
			Caregiver Rating of Developmental Assets (CRDA)	1	CRDA scale aims to assess the developmental assets of children across internal and external domains. ⁷
			WHO Disability Assessment Schedule for Children 2.0 (WHODAS)	1	A 14-item tool assessing multiple domains as societal participation, communication, connecting with others, life activities and self-care. ⁸
			Child Behavior Checklist (CBCL) and Youth Self-Report (YSR)	1	A subscale of the Achenbach Youth Self-Report and Child Behavior Checklist that includes 32 items. ⁹

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			The International Positive and Negative Affect Schedule Short Form (I-PANAS-SF)	1	A tool that includes two mood scales; one for positive effect and another for negative effect. Each scale has five items. ¹⁰
			The Problem Questionnaire	1	This tool measures seven stress domains that are evaluated on a five-point scale; "highly stressful, very stressful, moderately stressful, minimally stressful and not stressful". ¹¹
Psychiatric symptoms	Depression	7	Patient Health Questionnaire depression module (PHQ-9)	1	A scale specific for measuring the extent of depression. ¹²
			The Depression Self-Rating Scale for Children (DSRS)	2	A self-report tool assessing depressive symptoms that is comprised of 18 items specific to children between eight and 14 years of age. ¹³
			Center for Epidemiological Studies Depression Scale for Children (CES-DC)	2	A shortened version of the Center for Epidemiological Studies Depression Scale for Children that has been validated in refugee children. The shortened version includes 10 items. ⁸
			Child Depression Inventory (CDI)	1	A 27-item questionnaire with scores ranging between zero and 54. ¹⁴
			Depression, Anxiety and Stress Scale - 21 Items (DASS-21)	1	A sub-scale of Depression, Anxiety and Stress Scale - 21 Items that includes seven items used for assessing symptoms of depression (DASS-21-D) ¹⁰
	Anxiety	4	Generalized Anxiety Disorder (GAD-7)	1	A tool for assessing generalized anxiety disorder with scores ranging from zero to 21. ¹²
			Spence children's anxiety scale (SCAS)	1	38 self-rated questionnaire with domains assessing anxiety-related disorders. ¹⁵

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			Revised Children's Manifest Anxiety Scale (RCMAS)	1	A scale comprising of 37 items assessing the symptoms of generalized anxiety in children and adolescents. ¹⁶
			State-Trait Anxiety Scale	1	An instrument assessing the presence anxiety related symptoms. ¹⁴
	PTSD	9	Children's Revised Impact of Event Scale - CRIES-13	3	A tool comprising of 13 items that are designed to screen for PTSD in children aged eight years or above. ³
			Child Post-Traumatic Stress Reaction Index (CPTS-RI)	1	A tool comprised of 20 items that evaluate post-traumatic stress reactions in children between six and 17 years across three domains; intrusion, arousal and avoidance. ¹⁵
			Child Post Traumatic Stress Disorder Symptom Scale-Interview format (CPSS-I)	1	A tool assessing 17 symptoms of post-traumatic stress. Two versions have been developed; one for children and another for caregivers. ¹⁷
			UCLA Post-Traumatic Stress Disorder Reaction Index (PTSD-RI)	3	A self-report assessing exposure to trauma and PTSD symptoms among children and adolescents. The scale includes 22 items and is concerned with symptoms experienced in the previous month. ¹⁸
			Post-traumatic Symptom Score (PTSS)	1	An instrument used to assess PTSD symptoms that is composed of 30 items. Almost half of the items assess symptoms according to Diagnostic and Statistical Manual of Mental Disorders, Fourth edition (DSM-IV) on a four-point scale. Scores ≥ 2 are likely to indicate clinical significance. ¹⁹
	General psychopathological symptoms	3	Hopkins Symptom Checklist	2	A modified version of the Hopkins Symptoms Checklist - 25 (HSCL-25). The tool

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					screens for symptoms of depression and anxiety. ²⁰
			Refugee Health Screener (RHS-15)	1	A 14-item tool that captures the symptoms of PTSD, anxiety and depression on a scale from one-to-10 where higher scores indicate higher psychological distress. ¹⁹
			Process of recognition and orientation of torture victims in European countries (PROTECT)	1	A 10-item instrument used to assess the symptoms of trauma and depression where higher scores indicate more severe symptoms. ¹⁹
General Wellbeing	Wellbeing	3	World Health Organization—Well-Being Index (WHO-5; Bech, 2004)	1	A measure of subjective wellbeing comprising of five items. ⁸
			(CPC, 2011)	1	A locally developed measure concerned with assessing the social and emotional functioning of children including behaviors in different settings and aspects related to self-image. ⁷
			The Orphans and Vulnerable Children Wellbeing Tool	1	A self-reporting tool specifically developed for orphans and vulnerable children that assesses child wellbeing through 31 items. ¹⁷
	Self- Esteem	1	Lifespan Self-Esteem Scale	1	One item was used from the Lifespan Self-Esteem Scale to assess self-esteem "How do you feel about the kind of person you are?" ⁸
	Optimism	2	Youth Life Orientation Test	1	A four-item subscale assessing optimism derived from the Youth Life Orientation Test. ⁸
			Beck's hopelessness scale	1	A 20-item self-report instrument assessing hopelessness and despair that is predictive of depressive

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					symptoms in general and suicide in particular. ²¹
	Quality of life	3	Pediatric Quality of Life Inventory (PedsQL Inventory) Version 4 for adolescents	1	A scale comprising of four domains that are thought to be indicative of the quality of life including physical, social, school and emotional functioning. ¹²
Resource hardships: Adolescent Post-War Adversities Scale-Somali version (PWA)			1	A 24-item questionnaire assessing war-related adversities that has been adapted to Somali adolescents. ¹³	
Cantril's Ladder of Life Satisfaction measures current life satisfaction (CLS)			1	A single item question complemented by another question on expected life satisfaction in the coming year. ²²	
Caregiver support	Caregiver distress	5	Hopkins Symptom Checklist-25 (HSCL-25)	2	This tool screens for distressing symptoms in the preceding week of taking the questionnaire. ²
			The Impact of Events Scale Revised (IES-R)	1	A 22-item survey that assesses the impact of trauma and acute stress. ²³
			The Child Protection Rapid Assessment (CPRA)	1	An instrument that identifies child protection needs as well as caregiver protection concerns in the context of emergencies. ⁷
			PTSD Symptom Scale Interview	1	17-item self-report instrument that assess the psychosocial functioning of caregivers. ⁹
			The Depression-Anxiety-Stress Scale (DASS)	1	An instrument comprising of 21 items for the assessment of the symptoms of depression, anxiety and stress. ²³
	Parenting	3	The Child Adjustment and Parenting Efficacy Scale (CAPES)	1	A self-report questionnaire that comprises of 27 items assessing problems in emotional and behavioral adjustment. ²³

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			The Parenting Scale (PS)	1	A self-report instrument of 30 items evaluating different parenting skills. ²³
			Dumka et al (2010); Allen et al (2013); Sieving et al (2017)	1	A 17-item instrument that assesses parental self-agency and coping. ⁴
			Alabama Parenting Questionnaire	1	A tool that assesses involvement and monitoring as parenting domains besides positive parenting. ⁹
	Family communication	2	Olson (2011)	1	A sub-scales of FACES-IV tool comprised of 10 items assessing satisfaction with family communication. ⁴
			Family Conflict Scale	1	A tool derived from the family conflict scale. The tool is comprised of four items assessing family functioning. ⁹
			Intergenerational Congruence in Immigrant Families Scale	1	A tool derived from the family conflict scale. The tool is comprised of 17-items assessing intergenerational communication effectiveness. ⁹

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