

# Interventions to promote mental health in the Occupied Palestinian Territories and Palestinian refugees: A scoping review

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## Abstract

**Background:** The long history of the Palestinian-Israeli conflict has resulted in a public and mental health crisis. Despite the significant mental health burdens facing the Palestinian population in the Occupied Palestinian Territories (OPT) and refugee camps, this issue remains comprehensively unexplored.

**Aims:** This scoping review identified mental health interventions and assessed their effectiveness among populations in the OPT and Palestinian refugee camps, while addressing delivery challenges.

**Method:** A scoping review was conducted using 14 databases to include relevant studies published through March 2024 using PRISMA guidelines for scoping reviews.

**Results:** Analyzing 31 intervention studies meeting the inclusion/exclusion criteria, revealed varied outcomes in interventions targeting post-traumatic stress disorder, depression, and overall mental well-being.

**Conclusions:** While some interventions showed potential, others had limited effectiveness, underscoring the complexity of mental health needs in conflict zones. Gender- and risk-specific effectiveness was observed, emphasizing the need for tailored approaches. Challenges like low attendance rates and systemic barriers hindered intervention success. The profound impact of war on children stresses the urgency for targeted interventions. Empowerment and community connectedness are vital for resilience, along with the importance of family and community involvement and research that balances the need for strong evaluation designs with the need for ongoing mental health services. Advocacy for systemic changes is crucial to implement the complex sustainable interventions necessary to assure mental health in any population. This review highlights the importance of holistic, contextually relevant approaches for mental health intervention in OPT and refugee camps, emphasizing rigorous evaluations and community-driven approaches.

## Keywords

Mental health, Palestinians, refugees, conflict and health

## Introduction

The long history of the Palestinian-Israeli conflict has created and precipitated a pronounced public health and mental health crisis, exposing Palestinians to pervasive

instability, insecurity, and deprivation (Jamal et al., 2022; Qato, 2020; Sarraj & Qouta, 2004). The persistent conflict between the two countries has subjected Palestinians to a litany of adversities including displacement from their homes, the loss of family members and kin, destruction of

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infrastructure, complete breakdown of basic needs, fragmentation of health services, and the overpowering disruption of any life amenities (World Health Organization Regional Office for the Eastern Mediterranean, 2024a). These dramatic successive upheavals have profoundly impacted the mental well-being across various demographic strata of Palestinian populace manifesting in heightened prevalence rates of mental health disorders (World Bank, 2022). A spectrum of psychological issue such as post-traumatic stress disorders (PTSD), anxiety, and stress have been documented (Bdier et al., 2023; Wagner et al., 2020), with PTSD exhibiting a particularly elevated incidence (World Health Organization Regional Office for the Eastern Mediterranean, 2024c).

The World Health Organization (WHO) in its comprehensive review of conflict-induced mental health dynamics across 39 nations, has underscored a heightened susceptibility to mental health afflictions among conflict-exposed populations, revealing that one in five individuals may suffer from depression, anxiety, PTSD, bipolar disorder, or schizophrenia (World Health Organization, 2022). A systematic review by Dimitry (2012) on the mental health of children in areas of armed conflict in the Middle East reveals the profound impact of exposure to traumatic events on the mental and behavioral well-being of adolescents. Similarly, Sullivan and Simonson (2016) underscore the high prevalence of mental health issues among these populations, with a particular emphasis on school-based interventions. Thompson et al. (2018) and Tyrer and Fazel (2014) both explore the efficacy of psychological interventions, with Thompson specifically delving into the treatment of PTSD. van Wyk and Schweitzer (2014) and Tribe et al. (2019) both emphasize the necessity for more rigorous research methods and recognize the potential benefits of narrative exposure therapy. While Williams and Thompson (2011) highlight the effectiveness of community-based interventions, Vossoughi et al. (2018) advocates for further research in this area.

Despite struggling with significant mental health burdens that place the Palestinian population in the Occupied Palestinian Territories (OPT) and refugee camps among the most vulnerable globally, the issue remains largely unaddressed (World Bank, 2022). The WHO has identified the imperative of addressing the mental health needs of Palestinians in OPT and refugee camps as a paramount public health concern (World Health Organization Regional Office for the Eastern Mediterranean, 2024a, 2024c). This imperative has been supported by the development of national mental health policy by the Ministry of Health in Palestine, prioritizing the integration of mental health services into primary and secondary health care settings, and transitioning away from a reliance on hospital-based management (Giacaman et al., 2011). However, the provision of mental health services contends with overwhelming demands for such services coupled with deficits

in trained personnel and financial resources (Marie et al., 2016). WHO has begun to address the gap and facilitated the training of non-specialist health workers to help in supporting people with mental disorders (World Health Organization Regional Office for the Eastern Mediterranean, 2024c) The WHO has also assumed a pivotal role in advocating for and bolstering the development of interventions tailored to community mental health services (Abo-Rass & Abu-Kaf, 2023; Abo-Rass et al., 2023; Al-Krenawi et al., 2004; Ben-Zeev et al., 2017; Giacaman et al., 2011; Marie et al., 2016, 2020; Shawahin & Çiftçi, 2012; Tsacoyianis, 2021).

Other studies have highlighted the significant mental health needs of Palestinians, particularly in the OPT, due to the impact of political violence, displacement, and limited resources (Ben-Zeev et al., 2017; Giacaman et al., 2011; Marie et al., 2016). These studies have emphasized the potential of mental health interventions, such as smartphone applications and web-based interventions, to address these needs (Ben-Zeev et al., 2017). However, they have underscored the necessity of increasing the availability and quality of mental health care, as well as the need for a sustainable system of public mental health services (Giacaman et al., 2011; Marie et al., 2016). The challenges and opportunities in the community mental health field for Palestinians have also been explored (Tsacoyianis, 2021). Despite these efforts, the complex barriers to improving the quality of life for patients with schizophrenia in Palestine and the fragmented mental health system remain a significant concern (Marie et al., 2020).

Despite efforts to integrate mental health services into primary and secondary healthcare settings, challenges persist due to an overload of demands coupled with deficits in trained personnel and a dearth of pharmacological and financial resources. This context underscores the urgent need for effective interventions to support mental health for Palestinian people in the OPT and surrounding Palestinian refugee camps. Yet a comprehensive evaluation of such interventions remains lacking.

## Aim

This scoping review aims to examine the effectiveness of existing interventions, contributing to the enhancement of mental health outcomes for Palestinians living in conflict-affected areas.

## Methods

### Literature search

A scoping review of the literature was conducted using 14 databases, employing the PRISMA Extension for Scoping Reviews (Tricco et al., 2018; Figure 1). These databases were selected for their medical and biomedical focus and

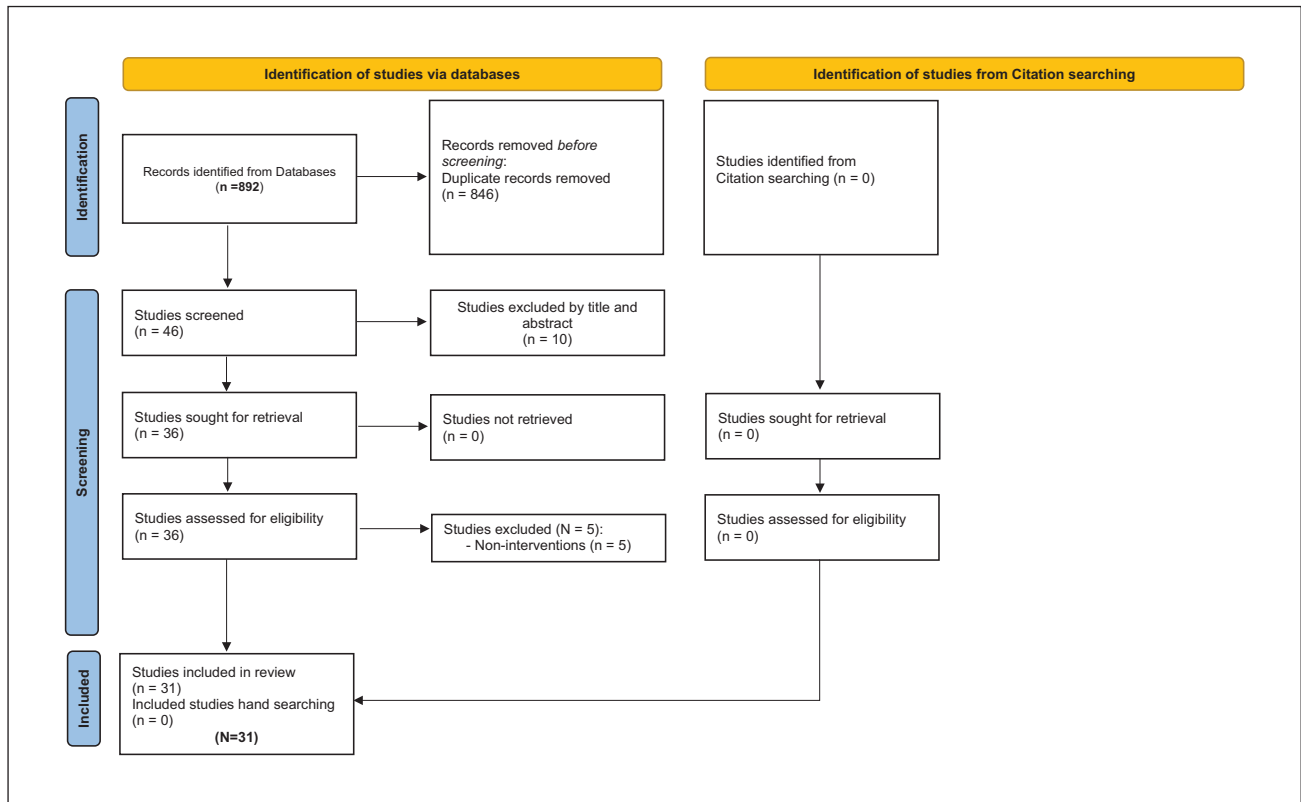


Figure 1. Flow diagram.

rigorous standards. A combination of search terms and phrases (Table 1) was employed. The comprehensive electronic search aimed to identify all available studies on mental health intervention conducted within the OPT and among Palestinian refugees. Inclusion and exclusion criteria were structured around the ‘Population, Intervention, Control, Outcome’ (PICO) framework (Table 2). Additionally, reference lists from retrieved studies underwent manual searches to identify any additional relevant publications. All retrieved articles were screened against eligibility criteria to endure relevance to the topic and the objectives of this review. Given the nature of this review, no ethical oversight or approval was deemed unnecessary and therefore not acquired.

**Eligibility criteria**

The search was restricted to studies published in the English or Arabic languages in peer-reviewed journals. The search was conducted in Spring 2024 and the results encompassed literature published up to and including March 2024. Only articles focusing on mental health intervention were considered, involving the application of

mental health-based interventions, promotions, or program either as the primary intervention or as a part of a multi-behavioral intervention. Protocol studies were also included in the review. Excluded from consideration were publications in other than English or Arabic, brief communications, grey literature, qualitative studies, and interventions reported outside of traditional peer-reviewed articles (Table 2).

**Study selection and data extraction**

BAE, WAR, and PK conducted the literature search independently and collaborated to select studies for inclusion in the scoping review. The search strategy was adjusted to align with the indexing systems of each respective database. Rayyan QCRI software (Ouzzani et al., 2016) facilitated the screening process and study selection. Titles and abstracts underwent initial screening for relevancy, followed by a thorough review of potentially relevant journal abstracts by HB, FA, BAE, and WAR. Each author independently evaluated potential studies for relevance and adherence to inclusion/exclusion criteria (refer to Table 2). Any discrepancies in selection were discussed to reach a

**Table 1.** Electronic databases used with relevant search period and terms.

Databases	Search period	Keywords, search terms, and phrases
ArticleFirst; Biomed Central; BioOne; BIOSIS; CINAHL; EBSCOHost; ProQuest; PubMed; SAGE Reference Online; ScienceDirect; Scopus; SpringerLink; Taylor and Francis; and Wiley Online	Up to and including March 31st 2024	(All fields) 'mental health' OR 'mental disorder' OR 'mental illness' OR 'mental wellbeing' OR 'psychosocial' OR 'psychosocial resilience' OR 'psychological distress' AND (All fields) 'Intervention' OR 'program' or 'programme' OR 'promotion' OR 'promoting' AND (All fields) 'Occupied Palestinian Territories' OR 'Palestine' OR 'Gaza' OR 'West Bank' OR 'Palestinians' OR 'Palestinian refugees' OR 'Camps'

**Table 2.** Criteria for inclusion and exclusion of studies.

Parameter	Inclusion Criteria	Exclusion criteria
Date range	Up to and including January 31st, 2024	N/A
Population	<ul style="list-style-type: none"> <li>All population of interest (Adults/Children/Adolescents) residing within the Occupied Palestinian Territories that is, Gaza and/or West Bank (including East Jerusalem)</li> <li>Palestinian refugees as defined by UNRWA</li> </ul>	<ul style="list-style-type: none"> <li>Palestinian diaspora residing outside the aforementioned boundaries or restrictions per the inclusion criteria</li> </ul>
Intervention type	<ul style="list-style-type: none"> <li>Any type of mental health promotion intervention</li> </ul>	<ul style="list-style-type: none"> <li>Interventions that are not delivered in the Occupied Palestinian Territories</li> <li>Interventions that are not delivered in a Palestinian refugee camp</li> </ul>
Focus of study	<ul style="list-style-type: none"> <li>Studies focusing on primary mental health intervention</li> <li>Studies focusing on any additional form of therapy for mental health interventions</li> </ul>	<ul style="list-style-type: none"> <li>-Studies excluding mental health interventions and other interventions</li> <li>-Studies discussing mental health as an afterthought in the discussion</li> </ul>
Outcomes of interest	Any mental health-related outcomes of interest	N/A
Language	English or Arabic	All other languages
Study type	Intervention studies, RCTs, quasi-experimental, longitudinal, cross-sectional, qualitative studies, or conference papers with mental health intervention component assessment outcomes	Commentaries, narratives, editorial communications, opinion pieces, government reports, guidance documents, book reviews, theses and dissertations, systematic, scoping, rapid and literature reviews, and case studies

Note. UNRWA=United Nations Relief and Works Agency; N/A=not applicable; RCTs=randomized control trials.

consensus, with FA, BAE, and WAR resolving discrepancies if necessary. All selected articles were subsequently reviewed with the primary author before a final decision on inclusion was made (refer to Figure 1). Once the list of selected studies was finalized, BAE, WAR, and PK extracted the relevant data, which was cross-checked by FA, BAE, and WAR. Data extracted for each study included author, date, target population, country, study type, sample size, intervention details, measured parameters, main results, and recommendations (refer to Table 3). Any discrepancies in extracted data were resolved through discussion to reach a consensus and tabulated accordingly.

Given that methodological quality assessment is not obligatory for scoping reviews, the included studies were not appraised (Peters et al., 2020).

## Results

Thirty-one articles were identified. While all had Palestinians as their population, three were conducted with samples of Palestinian refugees in Lebanon (Bastin et al., 2013; Nakkash et al., 2012; Yassin et al., 2018). Twenty one studies focused on adolescents and children in the OPT (Afifi et al., 2010; Altawil et al., 2018; Bdier &

**Table 3.** Summary of findings (N = 31).

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
Altawil et al. (2018)	To compare the usefulness of three different intervention programs: family therapy, Psycho-social Support (SANID), and Community Wellness Focusing (CWF)	Experimental design, comparing effectiveness of three PTSD therapies/ programs	A total of 227 participants with symptoms of PTSD took part in one of three therapies, their ages ranging from 12 to 75 years. Of those, 79.9% of participants female, 20.1% male	Family therapy program: 12 sessions aimed at building trust; SANID: 6 session a psychosocial intervention focusing on building trust, psychological debriefing, expressing feelings, creating a safe space, stress, and resilience; CWF: 12 sessions aimed at improving coping skills and resilience through exercises such as listening skills, expressing feelings, creating a safe place, engaging in play activities, and exploring emotions and trust	After interventions PTSD diagnoses reduced: (a) family therapy program, from 82% to 20%; (b) SANID from 97% to 19%; (c) Psycho-Social Support Program, from 50% before to 14%	PTSD scales must consider culture, specific needs, and the context of trauma exposure using both quantitative and qualitative assessment tools; future tools should examine traumatic stress that it reflects on-going conflict and trauma in war-torn environments worldwide
Affi et al. (2010)	To examine the QADEROON intervention to improve mental health among Palestinian youth living in Beirut refugee camp	A pretest-posttest control group design. Process evaluation tools were employed to assess fidelity, dose delivered and received, reach, and participant satisfaction	150 youth participated in the intervention, with a target age range of 11–14 years.	45 sessions implemented over the course of a year, from August 2008 to May 2009. It included activities aimed at improving communication skills, problem-solving skills, and relationships with parents and teachers. The intervention was developed, implemented, and evaluated in collaboration with a community coalition	Youth reported high satisfaction with the sessions. However, preliminary analysis of intervention impact showed no change in mental health outcomes and a potential trend toward worsened outcomes	Results emphasize the complex interplay between individual-level interventions and broader structural factors in shaping mental health outcomes in marginalized communities. Future interventions may need to address these structural conditions to effectively improve mental health among vulnerable youth populations
Bastin et al. (2013)	Examine effect of services received by people with MH disorders among refugee populations	Chart review with pre-post assessment	1,144 patients at MSF MH center in refugee camp, Beirut, Lebanon	MH evaluation, referral for individual/group therapy, medication; emergency care available	1/3 of 1,144 seen were Palestinian; decrease in Self Reporting Questionnaire scores and increase in Global Assessment of Functioning scores	Change in assessment instruments and improvement in functionality of patients, indicates success of treatments
Bdier and Mahamid (2023)	Examine effect of prolonged exposure therapy in reducing PTSD symptoms	One group quasi-experimental design	17 traumatized adolescent (11–14 years) orphans from Palestine	7-week, two session/week group program based on prolonged exposure techniques, a CBT technique based on integration of exposure therapy concepts, emotional processing theory	PTSD levels reduced significantly among all participants with greater improvement among females	Findings support implementation of group therapeutic program
Bruno et al. (2019)	Assess the efficacy of comprehensive mental health and psychosocial support services for refugees in Gaza	Cross-sectional pilot program study	Health center patron refugees (n = 205) from Salfawi and control patron refugees (n = 203 at Nasser)	Pilot UNRWA program in the Salfawi Health Center in Northern Gaza called Mental Health and Psycho-Social Support	Salfawi respondents endorsed significantly less intended stigmatizing behavior compared to Nasser respondents; significantly less intended stigmatizing behavior at Salfawi compared to Nasser was demonstrated	Findings support implementing pilot study on all clinic patients, not just those with mental illness; will help guide effective mental health care interventions in Palestine refugee community; suggests this highly vulnerable population that has been suffering from wars, sanctions, and poor living conditions and need extensive and comprehensive mental health intervention programs
Byers (1996)	Assess art therapy interventions with children, families, and mental health workers experiencing PTSD syndrome from military conflicts in West Bank and Gaza; strengthen individual creativity, facilitate expression and elaboration of thoughts and emotions, and achieve therapeutic results through art therapy	Not mentioned (the paper does not focus on a specific study design but rather provides an overview of art therapy practice; interventions included open studio, group, and individual art therapy)	Group of Palestinian mental health counselors, 30 children (aged 4–15 years)	Through the sensory quality of art materials, a child depicts how he or she experiences the world, giving meaning to the confusion of the external environment; sights, sounds, textures, smells, colors, forms, and bodily responses comprise memory and recollection, art media provide a portrait of significant relationships help the child through difficult situations	The artwork from participants in group workshops helped to open lines of communication among people enduring attempts at reconstruction and rehabilitation of society	Art therapy results based on process of creation rather than finished art product

(continued)

Table 3. (Continued)

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
D'Andrea et al. (2024)	To mitigate the impact of trauma and violence among children in Gaza	Pre-post change in mental health using reports completed by primary care giver of children ages 6–18.	2,341 Palestinian children participate (age 6–18 years) in the program evaluation, including same males and females, in cooperation with eight community-based organizational partners in 10 communities	Eye to the Future Intervention used extracurricular support during late childhood and early adolescence by reinforcing positive social development with family and in school; designed to provide on-going social and academic support to children ages 9–13 years living in 10 different communities across the Gaza Strip	61.3% of children with symptoms above clinical thresholds reported clinically significant scores at baseline, compared to 15.6% at end of program; scores for internalizing went from 70.2% at baseline to 22.9% at the end of the program, and externalizing went from 50.7% to 14%; 78.6% of parents reported children had clinically significant scores at baseline, compared to 31.3% at the end of program; scores for internalizing went from 80.8% at baseline to 40.4% at end of program; externalizing went from 73.8% to 31.3%	Findings highlight beneficial potential of community-based programs which incorporate play and safe adult relationships into curricula focusing on emotion regulation and expression
Diab et al. (2014)	Examine effect of psychosocial intervention (Teaching Recovery Technique-TRT) in enhancing social relations, prevent negative trauma consequence	Two-group random assignment; assessment pre, post, 6-month post	482 Palestinian children (10–13 years) from four schools in Gaza; two groups: intervention (n = 240); control-wait list (n = 240)	TRT = CBT to help develop effective coping skills, empowerment, emotion regulation by narrative, imagery, and body- and mind-related and psycho-educational techniques, sessions created sense of safety, provided tools to frame/control overwhelming emotions, painful experiences	Gender- and risk-specific effectiveness; reduced proportion of clinically significant PTSD only among boys at postintervention; girls benefited from intervention if they showed low peritraumatic dissociation (as indicated by reductions in both symptoms and proportion of clinically significant PTSD)	Effectiveness of TRT in reducing MH symptoms was modest, perhaps because of severity of losses/destruction, fact that imminence of war still in children's minds; psychosocial intervention not able to combat losses and adversities in all children; are unresolved questions are best ways to help children in extreme dangers of war
Diab et al. (2015)	Investigate effect of psychosocial intervention in increasing resilience, mediating role of family factors				No significant increase in level of wellbeing or prosocial behavior among children with exposure to two or more trauma types; intervention effect not moderated by mother's acceptance and willingness to serve as attachment figure, nor by family atmosphere	Applied version of TRT has specific effects, does not extend to prosocial behavior and general wellbeing; future programs could consider adding components targeting explicit aspects of resilience
El-Khodary and Samara (2020)	Study effect of counseling program after exposure to war-traumatic events	One group pre-post assessment	572 Palestinian students (12–18 years) from Gaza Strip	School-based counseling program	Prevalence of PTSD decreased from 57.5% to 45.6%; PTSD symptoms, emotional, somatic & cognitive functional impairment symptoms decreased, especially among girls	School-based counseling program effective in reducing PTSD symptoms after exposure to war-traumatic events
Eloranta et al. (2017)	Examine Teaching Recovery Techniques (TRT) as predictor of attachment style, emotional regulation, MH	Two groups randomized to intervention (TRT) or waiting list; assessments at baseline, and 3, 6months post	482 Palestinian children (10–13 years) from classes in two bombed regions of Northern Gaza Strip	TRT = evidence-based CBT intervention to help children develop effective coping skills, empower themselves, normalize intrusive, avoidance, hyperarousal symptoms of PTS	Children with secure attachment more likely to gain improved MH in both conditions; preoccupied-insecure children showed improved MH in TRT; control group, children with more attachment avoidance reported deteriorated MH; no changes in MH among preoccupied children; intensity did not mediate association between attachment style and MH in either group	Necessary to assess individual characteristics in addressing psychosocial interventions among war-affected children; research necessary to delineate curative ingredients that fit children's variable emotional needs; shift from general question of treatment effectiveness to more dynamic research on what works for whom (moderation analyses) and through what mechanisms (mediation)

(continued)

**Table 3. (Continued)**

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
Hamad and Tribe (2020)	Determine participant impressions of a youth empowerment/ income generating program in Gaza	Qualitative interviews	Seven Palestinian university graduates living in Gaza strip experiencing poverty, unemployment	Intervention was nine-day training course focused on establishing and managing an income-generating project	Three themes identified: (1) economic empowerment; (2) psychological benefits (e.g. hope, confidence, and improved morale); (3) income generation fosters psychosocial empowerment	Stand-alone livelihood intervention promotes psychosocial wellbeing and empowerment; local livelihood intervention appears viable and sustainable in reducing poverty and unemployment in ongoing conflict setting
Hanani et al. (2022)	Determine prevalence & associated factors of mental disorders among medical students; examine effectiveness of CBT on MH problems	Two group random assignment; intervention: 8-week CBT; control: general information about MH via WhatsApp; baseline, 8-week post assessment	91 students from Palestine medical school, intervention = 34; control n = 32	CBT intervention to improve MH by focusing on changing cognitive distortions (e.g. thoughts, beliefs, and attitudes), behaviors	20% of 329 students had MH problems; CBT program showed significant improvement in outcome measures	Adequate attention must be paid to MH of medical students; CBT programs can be used for the management of MH problems
Kangaslampi et al. (2016)	Test role of cognitive mediation in PTSD among war-affected children; assess heterogeneity of children's dysfunctional posttraumatic cognition	Secondary analysis of cluster randomized trial of teaching recovery techniques (TRT) intervention; assessments at baseline, midpoint, post-intervention, 6-month follow up	482 Palestinian children (10–13 years; n = 242 intervention, n = 240 control)	Intervention based on TRT with modifications for war situation, run as a school extracurricular activity in groups of 15 children, 4 biweekly 2-hour sessions	TRT not effective in reducing dysfunctional PT Cs, reductions did not mediate intervention effects on PTSD	Intervention did not produce beneficial cognitive change needed in the cognitive mediation conceptualization; cognitive changes across children associated with preintervention MH; findings call for more detailed examination of cognitive mediation process
Khatib Et al. (2023)	Test effectiveness of integrated MH intervention in reducing depressive symptoms of mothers in vulnerable Palestine communities	Cluster-randomized trial	469 pregnant women of 26 West Bank communities, 231 in control group, 238 in intervention	Intervention group had components to address depressive symptoms, provide support to pregnant women; comparison group received routine care by trained community health workers	Antenatal depression prevalence: intervention group 10.5%, control group 25.5%; post-intervention had lower postpartum depression in intervention group: 7.5% vs. 13.7% in control; intervention group: 4.6% severe depression, 2.9% mild compared to control group: 7.9% severe, 5.8% mild	Intervention effectively reduced postpartum depression; providing intervention to pregnant women found effective in reducing depressive symptoms; crucial to integrate within primary health programs to mothers
Liosa et al. (2012)	Describe changes in psychological profile of new patients in MH program after military offensive	Descriptive analysis and patient outcomes	1,357 patients in MSF MH clinic in Gaza	Interpersonal psychotherapy consultations (mean = 8–12 sessions) using social and cultural context	Most patients either improved (n = 1,059, 78%) or resolved sought (n = 63, 5%); 141 (10%) remained unchanged and 2 (1%) had worsened	MH related humanitarian relief in protracted conflict might need to prepare for increase in patients over an extended period; effects of community violence do not extinguish rapidly, as suggested by continued high demand for services; increased time in treatment, long recall of triggering events
Loughry et al. (2006)	Examine impact of structured activities among Palestinian children in a time of conflict on their resilience and wellbeing	Intervention involved local agencies implementing structured activities; traditional dancing, art, sports, drama, puppetry, and after-school educational programs, conducted by local trained young adult volunteers	400 children (250 from the West Bank and 150 from Gaza), aged 6–11 and 12–17 years. A total of 300 in intervention group, 100 in comparison	Interviewers re-interviewed children and parents 12 months after the initial interviews, during which period children in intervention group attended structured activities	No initial difference in Total, Internalizing, or Externalizing problem scores between children who did and did not receive intervention; latter group had lower total, externalizing, and internalizing problem scores at 12-month compared to baseline; intervention did not affect children's hopefulness, but those in West Bank had improved parental support post-intervention	Intervention appeared successful in improving children's emotional and behavioral wellbeing and increased parental support in some areas; recreational activities have potential to positively impact children's well-being and provide a sense of normalcy and support amidst challenging circumstances

(continued)

Table 3. (Continued)

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
Miller-Graff and Cummings (2022)	Evaluate brief family-based coping/support program	Two group randomized; intervention: family support program; comparison: usual treatment/local psychosocial support program; assessment: pre, post, 6-month post	68 families from Gaza	Brief (12 hr, eight session) family-based coping/support program; most sessions group based with multiple families), but two occur with individual families, in-home; goal was to support individual MH of family members as well as family-wide emotional security and communication	Improvements in paternal and maternal depression, emotion regulation using cognitive reappraisal, family-wide emotional security, adolescent adjustment	Findings suggest intervention benefits comparable with longer and local established program
Nakkash et al. (2012)	Explore implementation of Qaderon (We are Capable)	Process evaluation	299 children (fifth–sixth grade) living in Palestinian refugee camp of Beirut, Lebanon	45 interactive sessions informed by evidence-based interventions: stress inoculation training, improving social awareness, social problem solving, positive youth development	Attendance 54% and 38% for summer and fall sessions; objectives commonly achieved; >8.4% of activities were reported to be implemented as planned; >90% indicated high satisfaction with sessions	Findings from process evaluation will strengthen interpretation of results from impact evaluation
Peltonen et al. (2012)	Examine effective of School Meditation Intervention (SMI) in preventing mental health problems, promoting social functioning among children living in armed conflict	Two groups: with and without SMI; pre-8 months post assessment	225 Palestinian children (10–4 years) in Gaza (intervention $n = 141$ ; control $n = 84$ )	SMI aimed at improving pupils' social functioning through problem solving, conflict resolution, and dialog skills, and at enhancing MH through caring for peers and preventing disruptive and aggressive behavior	Results did not support hypothesis that participating in SMI would decrease symptoms and increase friendship quality and nonaggressive behavior; SMI was effective only in limiting deterioration of friendships	In conditions of life threat and intensified insecurity, child-centered intervention was not powerful enough to improve children's MH, although could prevent an exacerbation of the social problems
Punamäki, et al. (2014)	Examine if Teaching Recovery Technique (TRT), psychosocial intervention, increased functional emotional regulation (ER) and decreased dysfunctional ER; mediating effects of ER on children's MH in war context	Two groups randomized to TRT or wait-list control groups; assessment at baseline, post 3, and 9 months	482 Palestinian children (10–13 years); intervention $n = 242$ ; control $n = 240$	TRT based on CBT aimed at helping children develop effective coping skills, empowerment, and emotion regulation with narrative, imagery, body- and mind-related, and psycho-educational techniques	TRT intervention not effective in changing ER, but did show general decrease in ER intensity; decrease in ER intensity associated with better MH, indicated by the decrease in posttraumatic, depressive, and distress symptoms, increase in psychosocial well-being	We lack knowledge about how universal versus culture-bound hormonal, brain architecture, and behavioral changes are during salient years; war with its threats to life and horrors provides a sad laboratory to compare the developmental trajectories with those in environments that are more normative
Qouta et al. (2012)	Examine effect of TRT in reducing MH symptoms of war-affected children; role of peritraumatic dissociation in moderating impact on trauma symptoms	Two group randomized school classes; intervention group = 16 extra curriculum sessions of teaching recovery techniques (TRT); control = normal school-provided support; assessments at baseline, post intervention, 6 months post	Children (10–13 years) from Gaza: intervention ( $n = 242$ ), wait list control ( $n = 240$ )	Intervention based on TRT with modifications for war situation, run as a school extracurricular activity in groups of 15 children, 4 biweekly 2-hour sessions	Intervention significantly reduced clinical symptoms among boys, and proportion of symptoms among girls with low level of peritraumatic dissociation	Results have implications for risk-specific tailoring of psychosocial interventions in war conditions
Qouta et al. (2016)	Examine type of dreams that can protect children's MH from impacts of war trauma; analyze if TRT effective in improving dream characteristics		257 Palestinian children (10–13 years); intervention $n = 150$ ; control $n = 107$	Intervention as above but 14-night dream diaries collected in the aftermath of a major war	Against our hypothesis, TRT intervention did not increase meaningfully protective dreams nor reduce dysfunctional dreams	Children's sleep research mostly available when warfare, hostilities, acute life threats are over; participants here in unresolved military conflict and threat of another war

(continued)



**Table 3. (Continued)**

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
Shalhoub-Kevorkian (2005)	Examine how voice therapy helps oppressed women in journey from objectification to full human subjectivity	Therapeutic groups	52 women from two refugee camps and village near Jerusalem	Within context of continuous and recurrent trauma, main therapeutic method offered was in-depth group analysis of women's own narratives; method designed to empower participants by enabling recognition of their own agency	Living in politically conflicted areas made participants feel constantly trapped in the past and terrified of the future; as additional traumatic events took place, groups constantly reverted, verbalizing more and more stories of pain; was a continuous challenge to bring women back to a place where they could recognize their power; build coping tools for survival	These voices and narratives prompt one to return to a primary question: in what ways can MH professionals understand the effects of trauma through lens of client's socio-political, historical, and cultural contexts? Hearing such voices took participants, and hopefully readers, through women's reflections on war, human suffering, and moments of power and of weakness
Shank et al. (2023)	Examine if paced breathing intervention feasible, acceptable, and resulted in improved anxiety symptoms in Palestinian children	Pilot with randomization to intervention (breathing intervention) or control program; pre-post assessment	144 students (6–10 years) in an after-school program in Palestine; intervention $n = 72$ ; control $n = 72$	24 sessions over 8 weeks of guided paced breathing audiovisual intervention	Participants reported being more relaxed after breathing session than before ( $p < .003$ ); intervention, participants reported fewer anxiety symptoms compared to control group participants in ( $p < .01$ )	Future research should examine whether intervention significantly improves long-term outcomes
Soulsby et al. (2021)	Explored participants' perceptions of creative arts groups, including how they came to participate in group and felt about involvement	Three group interviews with creative arts groups coming from three Palestinian community centers	14 participants (11 women and 3 men, aged 17–50 years)	Participation in community creative arts groups in Palestine, involving activities such as writing, drawing, and music, to express emotions, cope with stress and trauma, improve confidence, and transfer new skills to home environment; facilitators played key role in creating supportive and trusting atmosphere	Study findings highlight therapeutic and supportive role of creative arts groups in helping participants cope with challenges of living in a conflict zone, providing safe space for self-expression, personal growth, and emotional well-being presented in three thematic issues: 'emptying', growth in the face of challenge, and a rare freedom	Creative arts activities encourage self-expression and release, personal exploration, and escapism, suggesting that community creative arts groups play a significant role in supporting the mental health of individuals living in areas affected by political violence
Thabet et al. (2005)	Evaluate short-term impact of group crisis intervention for from five refugee camps in Gaza Strip	47 children aged 9–15 years during ongoing war conflict	Three groups: Group 1: encouraging storytelling; Group 2: teacher education about PTSD symptoms; Group 3: no intervention	Children completed pre- and 3 months post-intervention expression of experiences and emotions through storytelling, drawing, free play, and role-play; education about symptom	No significant impact of group intervention established on children's posttraumatic or depressive symptoms	Inclusion of more active cognitive tasks or psychodynamic techniques would enhance future interventions; clear distinction between prevention and treatment should be made in objectives, while comorbid psychiatric disorders such as depression require detection and specialist treatment
Thabet et al. (2009a)	Examine effectiveness of school-based psychodrama in improving mental health of Palestinian adolescents	Interventional Study with pre-post test, no control group	84 school adolescents (56 boys and 28 girls) aged 12–17 years from three schools selected randomly	Psychodrama Model focused on giving adolescents opportunity to cope with trauma	Participants noted decreasing mental health problems, including oppositional defiant disorder, hyperactivity, overanxious symptoms; teacher did not observe similar improvement in most adolescents	Emphasize the need to develop and improve psychodrama programs in schools to enhance adolescent mental health and alleviate symptoms like hyperactivity, obsession, and anxiety, and engaging parents in intervention process and taking their perspectives into account when assessing program effectiveness

(continued)

**Table 3. (Continued)**

Authors (year)	Aims and objectives	Research design	Sample size	Intervention	Results/findings	Implications
Thabet et al. (2009b)	Examine effectiveness of school-based debriefing sessions for Palestinian children affected by war and trauma	Interventional Study with pre-post-test, no control group	A random sample of 240 children (186 boys and 54 girls), aged 10–16 years affected by the current conflict in the Gaza Strip	2 weeks, 8 sessions intervention using interviews with children about their war experiences and reactions to the violence before and after participating	Children reported improved mental health after intervention, with decrease in all mental health problems; parents did not report any change in their children's behavioral and emotional problems	Study emphasizes importance of children reporting their feelings themselves for effective interventions, suggesting that long-term interventions such as cognitive behavior therapy, social skills training needed for children in war and conflict areas
Veronese and Barola (2018)	Evaluate outcomes of psychosocial narrative school-based intervention with school-aged children in aftermath of war	Randomized quasi-experimental sampling strategy of intervention and control groups	Experiential narrative intervention conducted with 28 students aged 9–13 years; compared with control group of 36 children	Intervention held during school hours, involved primary children at Salaam School and consisted of six sessions, each lasting 4 hours, conducted by local social workers, teachers, and therapist specializing in family-focused trauma; intervention focusing on empowering positive emotions, life satisfaction, and optimism in children as protective factors in preventing posttraumatic reactions after war	Findings showed intervention efficacy in favoring life satisfaction in different ecological domains; children in intervention group showed greater appreciation for friends, school, family, themselves, and their living environment	Study emphasizes need for a shift in perspective from viewing child victims of war solely as 'sick persons' to recognizing their agency and resilience in the face of adversity
Yassin et al. (2018)	Evaluate impact of MSF MH program	Focus groups	49 patients, community stakeholders, staff of Palestinian refugee agency in Lebanon		Participants voiced overall satisfaction with program which provided easy access, good quality care, decreased stigma, sense of community contentedness	Must demonstrate commitment to human service programs that address refugee problems; commitment must be on larger scale than one refugee camp or local community

Note. CBT = cognitive-behavioral therapy; CWF = Community Wellness Focusing; ER = emotional regulation; MH = mental health; MSF = Medecins sans Frontiere; PTSD = posttraumatic stress disorder; SANID = Psycho-social Support; SMI = school mediation intervention; TRT = Teaching Recovery Technique.

Mahamid, 2023; Byers, 1996; D'Andrea et al., 2024; Diab et al., 2014, 2015; El-Khodary & Samara, 2020; Eloranta et al., 2017; Kangaslampi et al., 2016; Loughry et al., 2006; Nakkash et al., 2012; Peltonen et al., 2012; Punamäki et al., 2014; Qouta et al., 2012, 2016; Shank et al., 2023; Thabet et al., 2005, 2009a, 2009b; Veronese & Barola, 2018) and two on adults in primary care settings (Bruno et al., 2019; Llosa et al., 2012). Twelve were school-based or conducted with samples of either school or university students (Diab et al., 2014, 2015; El-Khodary & Samara, 2020; Eloranta et al., 2017; Hammad & Tribe, 2020; Hanani et al., 2022; Kangaslampi et al., 2016; Peltonen et al., 2012; Qouta et al., 2012, 2016; Shank et al., 2023; Thabet et al., 2009a, 2009b; Veronese & Barola, 2018) and two focused on university students or graduates (Hammad & Tribe, 2020; Hanani et al., 2022). Three were conducted with patients at mental health clinics (Bastin et al., 2013; Llosa et al., 2012; Yassin et al., 2018). Two studies worked exclusively with women (Bruno et al., 2019; Llosa et al., 2012) and two with families (Altawil et al., 2018; Miller-Graff & Cummings, 2022).

The research methods employed in the identified studies varied, ranging from qualitative assessments (Hammad & Tribe, 2020; Shalhoub-Kevorkian, 2005) to chart reviews (Bastin et al., 2013; Llosa et al., 2012) and process evaluations (Nakkash et al., 2012) to one-group interventions with pre-post assessments (Bdier & Mahamid, 2023; El-Khodary & Samara, 2020). Twelve of the articles described research methods that used two randomized groups or clusters with pre-post assessment (Diab et al., 2014, 2015; Eloranta et al., 2017; Hanani et al., 2022; Kangaslampi et al., 2016; Miller-Graff & Cummings, 2022; Peltonen et al., 2012; Punamäki et al., 2014; Qouta et al., 2012, 2016; Shank et al., 2023; Yassin et al., 2018). All studies except one (Shank et al., 2023) aimed to assess long-term outcomes, conducting post intervention assessments at some point distant from the end of the intervention. Cognitive behavioral therapy (CBT) and teaching recovery techniques emerged as the most prevalent approaches (Bdier & Mahamid, 2023; Diab et al., 2014, 2015; Eloranta et al., 2017; Hanani et al., 2022; Kangaslampi et al., 2016; Punamäki et al., 2014; Qouta et al., 2012, 2016), encompassing regular CBT applications, Prolonged Exposure Techniques, and Teaching Recovery Techniques. Beyond CBT, the studies explored a variety of other intervention strategies, including economic empowerment (Hammad & Tribe, 2020), community-based participatory research methods within an ecological framework (Altawil et al., 2018; Nakkash et al., 2012), family-based coping/support programs (Miller-Graff & Cummings, 2022), and school mediation interventions (Peltonen et al., 2012). Additionally, school-based counseling programs were developed by the Ministry of Education in the Gaza Strip to address mental health needs (El-Khodary & Samara, 2020), along with paced breathing

interventions (Shank et al., 2023), voice therapy for oppressed women (Shalhoub-Kevorkian, 2005), traditional counseling or psychotherapy (Bastin et al., 2013; Llosa et al., 2012; Yassin et al., 2018), art therapy and creative activities (Byers, 1996; Soulsby et al., 2021), experiential narrative intervention (Veronese & Barola, 2018), and group crisis and psychodrama (Thabet et al., 2005, 2009b).

The results of the interventions investigated across the 31 articles revealed diverse and nuanced outcomes. Bdier and Mahamid (2023) demonstrated a reduction in PTSD symptoms through prolonged exposure therapy, a CBT technique. Byers (1996) art therapy intervention facilitated communication among individuals navigating the challenges of reconstructing and rehabilitating their society. Similarly, Loughry et al. (2006) highlighted the therapeutic role of creative arts groups in fostering self-expression, personal growth, and emotional well-being. The work of D'Andrea et al. (2024) showed improvements in children's and parents' symptoms, moving from an initial 61.3% of children and 78.6% of parents with clinically significant problematic total scores, to 15.6% and 31.3%, respectively, by the program's end. Internalizing symptoms decreased from 70.2% to 22.9% for children and from 80.8% to 40.4% for parents. Externalizing symptoms also decreased from 50.7% to 14% for children and from 73.8% to 31.3% for parents. Khatib et al. (2023) found antenatal depression decreased reduced post-intervention when comparing intervention and control groups (7.5% vs. 13.7%). Hanani et al. (2022) observed significant improvement in mental health problems among medical students following a CBT program. Miller-Graff and Cummings (2022) reported enhancement in depression, emotion regulation, and family-wide emotional security through a family-based support program and Shank et al. (2023) illustrated that paced breathing interventions reduced anxiety symptoms in Palestinian children. Traditional counseling and psychotherapy were explored by Bastin et al. (2013) and Llosa et al. (2012), revealing improvements in psychological profiles and functioning scores. Nakkash et al. (2012) underscored the success of community-based participatory methods in achieving high satisfaction and objectives. Punamäki et al. (2014) noted a general decrease in emotional regulation intensity, associated with better mental health outcomes. Shalhoub-Kevorkian (2005) found that voice therapy empowered oppressed women by acknowledging their agency and Thabet et al. (2009b) results showed that there was statistically significant decrease in total scores of child mental health problems and hyperactivity symptoms after psychodrama program. Yassin et al. (2018) reported overall satisfaction with a mental health program that offered accessible, quality care, decreasing stigma, and enhancing community connectedness. Hammad and Tribe (2020) evaluated an income generating program in the Gaza Strip, identifying

benefits such as economic empowerment, psychological well-being including hope and confidence, and psychosocial empowerment.

Some of the studies described more nuanced results, with minor pre-post changes or changes observed only among specific subgroups. For example, Diab et al. (2014) and El-Khodary and Samara (2020) identified gender- and risk-specific effectiveness in their interventions, particularly observing reduced PTSD symptoms in girls. In Loughry et al. (2006) children in the intervention group displayed lower externalizing and internalizing mental health problem scores at follow-up (Time 2) compared to baseline (Time 1). However, while this intervention did not affect children's hopefulness, those in the West Bank reported improved parental support post intervention. Similarly, both studies by Thabet et al. (2009a, 2009b) showed improvements in children's mental health following interventions, with reductions in various mental health problems such as oppositional deviant disorder, hyperactivity, and overanxious symptoms. However, teachers did not consistently observe similar improvements in adolescents. Additionally, while children reported improved mental health after the intervention, parents did not report any change in their children's behavioral and emotional problems.

On the other hand, some studies did not substantiate their main hypotheses or found the interventions not to be effective. For example, Eloranta et al. (2017) explored the role of attachment style in the effectiveness of teaching recovery techniques but did not observe the expected outcomes. Peltonen et al. (2012) assessed the School Mediation Intervention but found the program to be only marginally effective in preventing the deterioration of friendships rather than improving mental health outcomes. Qouta et al. (2016) scrutinized the impact of teaching recovery techniques on dream characteristics and found no significant change, challenging the initial hypothesis. Kangaslampi et al. (2016), who examined the role of cognitive mediation in PTSD among war-affected children, characterized the heterogeneity of children's dysfunctional posttraumatic cognition and found that the intervention did not effectively reduce such cognition, and that reductions did not mediate intervention effects on posttraumatic stress symptoms. Additionally, Diab et al. (2015) investigated the effect of a psychosocial intervention on increasing resilience and the mediating role of family factors, but found no significant improvements in well-being or prosocial behavior among highly traumatized children.

## **Discussion**

This scoping review synthesized findings from 31 studies aimed to exploring the effect of mental health interventions among Palestinian in the OPT and refugee communities. The review also identified challenges to delivering

effective mental health services in the context of armed conflict, war, or adverse social conditions. While several interventions showed promising outcomes, particularly in reducing PTSD symptoms, improving mental health among medical students, and empowering marginalized groups such as children and women, there were also instances where interventions did not yield significant improvements or had limited effectiveness.

The results across the adult population studies uniformly demonstrated positive outcomes, indicating the effectiveness of interventions in reducing or improving mental health-related issues, such as depression, emotional regulation, and overall psychological well-being.

Conversely, the results focused on samples of children were more varied, with the majority of studies showing limited to no improvement with the interventions. The studies with children that did stand out for their positive outcomes shed light on potential avenues for success (Bdier & Mahamid, 2023; Khatib et al., 2023; Loughry et al., 2006; Nakkash et al., 2012; Shank et al., 2023). However, challenges such as low attendance rates and lack of parental support underscore the complexities of implementing interventions for children in conflict-affected regions (Nakkash et al., 2012). The prevalence of PTSD, depression, and anxiety among Palestinian youth in the Gaza strip underscores the urgent need for effective interventions tailored to their unique circumstances. The impact of such trauma and adversity on the developing minds and personalities of children and adolescents is profound, with mental health issues escalating among individuals in these territories. Despite this imperative and the efforts to address these challenges, questions remain regarding the most effective strategies for supporting children in extreme war-related dangers (Diab et al., 2014). There remains a dearth of evidence guiding prevention and management strategies for mental health issues, particularly within the complex ecological, political, and societal contexts of the OPT.

One notable finding is the gender- and risk-specific effectiveness observed in some interventions, such as the reduction of PTSD symptoms among girls, underscoring the importance of considering group differences and contextual factors when designing and implementing mental health programs. The challenges encountered in studies where outcomes did not meet expectations suggest that factors such as cultural norms, socio-economic conditions, and the specific nature of trauma can influence the participation in and effectiveness of interventions. The heterogeneity of responses to interventions underscores the importance of tailoring approaches to the specific needs and circumstances of the target population. Additionally, the marginal effectiveness of certain interventions, such as the school mediation intervention, highlights the need for continuous evaluation and refinement of intervention strategies to ensure optimal outcomes.

Many of the interventions documented in the reviewed studies focused on individual-level interventions, reflecting the training and expertise of the researchers involved. Indeed, the concepts of empowerment and agency emphasized by Shalhoub-Kevorkian (2005) and the community connectedness reported by Yassin et al. (2018) underscore the critical role of mental health interventions in enhancing individual resilience and social cohesion. These aspects are pivotal for developing policies and programs that not only address mental health symptoms but also foster environments conducive to mental well-being.

However, the literature had a minimal focus on family and community-based approaches; neglecting the role of these structures in building resilience among children may overlook crucial support systems. Betancourt et al. (2013) advocates for a broader, ecological approach to addressing the needs of children affected by war, recognizing the interconnectedness of individual, family, and community well-being. Implementing such approaches in conflict zones like Gaza, where families face ongoing threats to their safety and basic needs, presents formidable challenges.

The success of community-based and family-support interventions highlighted by Miller-Graff and Cummings (2022) and Shank et al. (2023) also points to the critical role of community engagement and familial support in mental health promotion and intervention efforts. Their findings underscore the need for mental health practitioners to collaborate closely with local community leaders, organizations, and families to develop and implement culturally sensitive and contextually appropriate interventions.

Only a few studies have assessed multilevel or stepped-care packages, highlighting the need for a comprehensive mental health management approach that addresses individuals across various settings (Miller-Graff & Cummings, 2022; Shank et al., 2023). Commitment to human service programs that address refugee problems is crucial, necessitating efforts that extend beyond individual communities or refugee camps (Yassin et al., 2018). The nuanced findings of studies such as Diab et al. (2014) and El-Khodary and Samara (2020), alongside the challenges identified in studies such as Eloranta et al. (2017) and Peltonen et al. (2012) underscore the need for ongoing research to refine intervention strategies and understand the contexts under which they are most effective. The imperative to address post-traumatic stress disorder (PTSD) and other trauma-induced illnesses in culturally appropriate manners within marginalized communities necessitates a theoretical framework to develop comprehensive, effective, and sustainable solutions that comprehensively address and treat trauma on both collective and individual levels, distinct from Western medicine.

Additionally, insights from studies such as Bastin et al. (2013) and Llosa et al. (2012) regarding traditional counseling and psychotherapy highlight the importance of a

balanced approach to mental health care that integrates both modern and traditional healing modalities. Mental health practitioners should acknowledge and respect the cultural beliefs, values, and practices of Palestinian communities, incorporating traditional healing methods alongside evidence-based interventions. This holistic approach can improve treatment engagement, enhance therapeutic rapport, and foster a sense of trust and mutual understanding between mental health providers and service users. Collectively, these implications underscore the necessity for holistic, contextually relevant approaches to mental health intervention in conflict-affected regions like Palestine. Efforts to address mental health needs in Palestine must be comprehensive, inclusive, and grounded in the principles of cultural humility, social justice, and human rights. By adopting a multidimensional approach that addresses clinical, community, and policy-level factors, stakeholders can work toward building resilient, thriving communities that prioritize mental health and well-being amidst ongoing conflict and adversity.

Facilitators to mental health interventions, such as culturally appropriate designs and caregiver involvement, are noted, yet systemic challenges, such as lack of political will and financial resources, persist. Advocacy for macro-level changes, including policy reforms and sustained humanitarian support, is crucial for addressing the complex mental health needs of conflict-affected populations (Yassin et al., 2018). The ongoing conflict between Palestine and Israel exacerbates trauma-related symptoms, further straining already limited resources and healthcare systems. As the demand for mental health services continues to rise, humanitarian relief efforts must adapt to the long-term impacts of community violence and prioritize sustainable interventions to meet the evolving needs of affected populations (Hanani et al., 2022; Llosa et al., 2012; Shalhoub-Kevorkian, 2005).

The ongoing Palestinian-Israeli conflict and the most current humanitarian crisis in Gaza has perpetuated a cycle of continuous and recurrent trauma, presenting significant challenges for implementing effective and sustainable mental health interventions in the region. The limited healthcare system capacity further exacerbates these challenges, as evidenced by the insufficient number of qualified healthcare workers and the strain on existing resources (Abudayya et al., 2023; Alduraidi et al., 2021; Jabr & Berger, 2024; Marie et al., 2016; Shukri et al., 2023; Vossoughi et al., 2018). Mental health-related humanitarian relief efforts in protracted conflict settings must anticipate a sustained increase in patients over an extended period, as the effects of community violence do not dissipate rapidly.

Overall, the evidence suggests that existing mental health interventions have the potential to alleviate mental health disorders, improve individual functionality, and enhance overall societal productivity. Despite the enduring

conflict between Palestine and Israel, there is hope that targeted interventions can make meaningful strides toward improving the mental health and well-being of Palestinians living in the OPT. However, addressing the multifaceted challenges of mental health in conflict-affected regions requires ongoing research, collaboration, and a commitment to holistic, community-driven approaches.

Localized community-based mental health interventions tailored to local cultural and geopolitical contexts, like those in Palestine, offer more effective, sustainable, and adaptable solutions than broad-based Western approaches. Localized community-based interventions not only enhance access to care, reduce stigma, and promote long-term community resilience and well-being but also improve acceptance and increase the utilization of mental health services, leading to better health outcomes (Yudkin et al., 2022). By integrating mental health care into familiar community settings and utilizing culturally resonant practices, these interventions address major barriers such as mental health stigma, which often prevents individuals from seeking help. Tailoring interventions to fit the socio-cultural fabric of the community not only enhances s.

Community-based models in mental health care respect and leverage cultural nuances, thereby enhancing the sustainability of interventions. By fostering community ownership and ongoing local engagement, these models build on existing social structures and resources, which is crucial in regions with limited resources. Such an approach not only makes mental health care more accessible and less stigmatized but also promotes long-term resilience and well-being by empowering communities to take charge of their mental health needs.

Furthermore, the flexibility of community interventions allows them to adapt to changing circumstances and needs, a feature of immense value in conflict-affected areas like Palestine. The political and social landscape in such regions can change rapidly, and mental health programs need to be adaptable and responsive to remain effective (Hillel, 2023). Building mental health programs that are adaptable and can quickly respond to external conditions ensures that they continue to serve the community effectively, even as situations evolve.

The implications of the studies in this review are multifaceted, encompassing clinical practices, community interventions, and policy-level considerations. The evidence from studies such as Bdier and Mahamid (2023) and Hanani et al. (2022) reinforces the value of cognitive-behavioral therapy techniques in reducing PTSD symptoms and improving overall mental health, advocating for their integration into clinical practice. Similarly, the successes of community-based and family-support interventions highlighted by Shank et al. (2023) and Miller-Graff and Cummings (2022) underscore the importance of accessible, culturally sensitive approaches that engage community resources, and family systems in mental health

care. These results underscore the importance of integrating evidence-based interventions like CBT into the standard repertoire of mental health care providers operating in conflict-affected regions. Clinicians and mental health professionals working in Palestine should receive training and support to effectively implement CBT techniques and tailor them to the unique cultural and contextual factors present in the region.

Despite the mixed findings in this review, it is essential to acknowledge the significance of conducting rigorous evaluations of mental health interventions in conflict-affected areas, particularly in OPT. These evaluations provide valuable insights into the strengths and limitations of different approaches, informing future program development and implementation. Moreover, they contribute to the growing body of evidence on effective strategies for promoting mental health and well-being in vulnerable populations.

However, the challenges inherent in conducting research and providing mental health services in conflict-affected areas, such as the OPT, cannot be understated. Limited resources, including trained staff, finances, and infrastructure, present significant barriers to delivering even basic medical care, let alone conducting and publishing studies. Study designs must take such limitations into account, while at the same time acknowledging the enormity of the problem. While scientific evidence is necessary for assuring that intervention content is effective, conducting randomized control trials with one arm receiving only monitoring cannot be ethically permitted. Alternatives such as testing different interventions against each other or sequential multiple assignments randomized trial (SMART) designs must be considered to assure that all participants receive attention (Lorenzoni et al., 2023). Attention should not be diverted from scaling up whatever mental health and psychosocial services might be available (World Health Organization Regional Office for the Eastern Mediterranean, 2024b), and indeed the available literature may not fully capture the scope of mental health services provided in the region. This balancing of research integrity with clinical needs will challenge even the most seasoned researchers.

## **Conclusion**

The literature reviewed in this study presents a comprehensive overview of the mental health interventions implemented among Palestinian populations, particularly in the context of protracted conflict and occupation. The findings underscore the complex challenges faced by individuals, families, and communities in Palestine, as well as the resilience and resourcefulness demonstrated in the face of adversity. While some interventions showed promising results, particularly in adult populations, nuanced findings and mixed outcomes highlight the need for ongoing research, refinement of

intervention strategies, and a holistic, contextually relevant approach to mental health care.

Moving forward, it is imperative to prioritize the integration of evidence-based practices, such as cognitive-behavioral therapy, into clinical settings while also recognizing the importance of community-based and family-support interventions in promoting mental health and resilience. Additionally, efforts to address mental health needs in Palestine must be guided by principles of cultural humility, social justice, and human rights, ensuring that interventions are sensitive to the unique cultural, social, and political context of the region. Moreover, the findings underscore the urgent need for increased investment in mental health services, capacity-building initiatives, and policy reforms to address the systemic barriers to mental health care access and delivery in Palestine. By fostering collaboration among stakeholders, including local communities, policymakers, and international organizations, it is possible to create a more inclusive, equitable, and effective mental healthcare system to co-design and implement culturally responsive interventions that meet the diverse needs of Palestinian populations. Additionally, efforts to strengthen mental health systems and build local capacity for delivering evidence-based interventions will be crucial in promoting long-term mental health resilience in conflict-affected contexts. Ultimately, addressing mental health challenges in Palestine requires a multifaceted approach that encompasses clinical, community, and policy-level interventions. By prioritizing the well-being of individuals, families, and communities, stakeholders can work toward building a more resilient and thriving society, even amidst ongoing conflict and adversity. In conclusion, adopting community-based models in mental health care offers a robust solution that is both culturally appropriate and sustainable, particularly in complex settings like Palestine. These models provide a framework for addressing immediate mental health needs while also building long-term capacity within the community to manage and overcome mental health challenges. A focused investment in strengthening and rigorously evaluating such models is essential for achieving lasting impacts in global mental health, ensuring interventions are not only effective in the short term but also sustainable and resilient in the face of future challenges.

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### Author contributions

BAE conceptualized the study and BAE, WAR, and FA contributed to the study design. HMB and DA carried out data preparation and FA, HMB, DA, and WAR did the data analysis. BAE, FA, HMB, DA, PJK, and WAR wrote the first draft and all authors contributed to interpretation of findings and review and

editing of the manuscript. BAE had final responsibility for the decision to submit the manuscript.

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### References

- Abo-Rass, F., & Abu-Kaf, S. (2023). Mental health literacy among the Palestinian-Arab minority in Israel and its correlates with mental health service use. *Perspectives in Psychiatric Care*, 2023, 3001191. <https://doi.org/10.1155/2023/3001191>
- Abo-Rass, F., Abu-Kaf, S., Matzri, D., & Braun-Lewensohn, O. (2023). Mental health underutilization by Palestinian-Arabs in Israel: Stigma-related, attitudinal, and instrumental barriers. *International Journal of Social Psychiatry*, 69(4), 1015–1023. <https://doi.org/10.1177/00207640231152213>
- Abudayya, A., Bruaset, G. T. F., Nyhus, H. B., Aburukba, R., & Toftagen, R. (2023). Consequences of war-related traumatic stress among Palestinian young people in the Gaza Strip: A scoping review. *Mental Health & Prevention*, 32, 200305. <https://doi.org/10.1016/j.mhp.2023.200305>
- Afifi, R., Nakkash, R., Elhadj, T., Makhoul, J., Abdulrahim, S., Kanj, M., Mahfoud, Z., & Haddad, P. (2010). *More good than harm? The case study of QADEROON, a mental health promotion program for Palestinian refugee youth in Beirut*. American Public Health Association. <https://apha.confex.com/apha/138am/webprogram/Paper220220.html>
- Alduraidi, H., Abdulla Aqel, A., Saleh, Z., Almansour, I., & Darawad, M. (2021). UNRWA's role in promoting health outcomes of Palestinian refugees in Jordan: A systematic literature review. *Public Health Nursing*, 38(4), 692–700. <https://doi.org/10.1111/phn.12889>
- Al-Krenawi, A., Graham, J. R., & Sehswail, M. A. (2004). Mental health and violence/trauma in Palestine: Implications for helping professional practice. *Journal of Comparative Family Studies*, 35(2), 185–209. <https://doi.org/10.3138/JCFS.35.2.185>
- Altawil, M. A. S., El Asam, A., & Khadaroo, A. (2018). The effectiveness of therapeutic and psychological intervention programs in PTC-GAZA. *Journal of Child & Adolescent Trauma*, 11(4), 473–486. <https://doi.org/10.1007/s40653-018-0213-0>
- Bastin, P., Bastard, M., Rossel, L., Melgar, P., Jones, A., & Antierens, A. (2013). Description and predictive factors of individual outcomes in a refugee camp based mental health intervention (Beirut, Lebanon). *PLoS ONE*, 8(1), e54107. <https://doi.org/10.1371/journal.pone.0054107>

- Bdier, D., & Mahamid, F. (2023). The effectiveness of a group therapeutic program based on prolonged exposure therapy in reducing posttraumatic stress disorder symptoms among a sample of Palestinian traumatized adolescents. *Journal of Psychosocial Rehabilitation and Mental Health, 10*(3), 277–286. <https://doi.org/10.1007/s40737-022-00305-4>
- Bdier, D., Veronese, G., & Mahamid, F. (2023). Quality of life and mental health outcomes: The role of sociodemographic factors in the Palestinian context. *Scientific Reports, 13*(1), 16422. <https://doi.org/10.1038/s41598-023-43293-6>
- Ben-Zeev, D., Fathy, C., Jonathan, G., Abuharb, B., Brian, R. M., Kesbeh, L., & Abdelkader, S. (2017). mHealth for mental health in the Middle East: Need, technology use, and readiness among Palestinians in the West Bank. *Asian Journal of Psychiatry, 27*, 1–4. <https://doi.org/10.1016/j.ajp.2017.02.010>
- Betancourt, T. S., Meyers-Ohki, S. E., Charrow, A. P., & Tol, W. A. (2013). Interventions for children affected by war: An ecological perspective on psychosocial support and mental health care. *Harvard Review of Psychiatry, 21*(2), 70–91. <https://doi.org/10.1097/HRP.0b013e318283bf8f>
- Bruno, W., Kitamura, A., Najjar, S., Seita, A., & Al-Delaimy, W. K. (2019). Assessment of mental health and psycho-social support pilot program's effect on intended stigmatizing behavior at the Saftawi Health Center, Gaza: A cross-sectional study. *Journal of Mental Health, 28*(4), 436–442. <https://doi.org/10.1080/09638237.2019.1608936>
- Byers, J. G. (1996). Children of the stones: Art therapy interventions in the West Bank. *Art Therapy, 13*(4), 238–243. <https://doi.org/10.1080/07421656.1996.10759231>
- D'Andrea, W., Aboagye, A., Lee, K. A., Freed, S., Joachim, B., Khedari-DePierro, V., Yates, E. H., Wilmes, A., Krohner, S., Madhoun, S., Hennawi, A., & Bergholz, L. (2024). Growing up on the edge: A community-based mental health intervention for children in Gaza. *Research on Child and Adolescent Psychopathology, 52*, 833–848. <https://doi.org/10.1007/s10802-023-01124-2>
- Diab, M., Peltonen, K., Qouta, S. R., Palosaari, E., & Punamäki, R. L. (2015). Effectiveness of psychosocial intervention enhancing resilience among war-affected children and the moderating role of family factors. *Child Abuse and Neglect, 40*, 24–35. <https://doi.org/10.1016/j.chiabu.2014.12.002>
- Diab, M., Punamäki, R.-L., Palosaari, E., & Qouta, S. R. (2014). Can psychosocial intervention improve peer and sibling relations among war-affected children? Impact and mediating analyses in a randomized controlled trial. *Social Development, 23*(2), 215–231. <https://doi.org/doi.org/10.1111/sode.12052>
- Dimitry, L. (2012). A systematic review on the mental health of children and adolescents in areas of armed conflict in the Middle East. *Child: Care, Health and Development, 38*(2), 153–161. <https://doi.org/10.1111/j.1365-2214.2011.01246.x>
- El-Khodary, B., & Samara, M. (2020). Effectiveness of a school-based intervention on the students' mental health after exposure to war-related trauma. *Frontiers in Psychiatry, 10*, 1031. <https://doi.org/10.3389/fpsy.2019.01031>
- Eloranta, S. J., Peltonen, K., Palosaari, E., Qouta, S. R., & Punamäki, R.-L. (2017). The role of attachment and emotion regulation in the psychosocial intervention among war-affected children. *Journal of Child & Adolescent Trauma, 10*(4), 301–314. <https://doi.org/10.1007/s40653-016-0115-y>
- Giacaman, R., Rabaia, Y., Nguyen-Gillham, V., Batniji, R., Punamäki, R. L., & Summerfield, D. (2011). Mental health, social distress and political oppression: The case of the occupied Palestinian territory. *Global Public Health, 6*(5), 547–559. <https://doi.org/10.1080/17441692.2010.528443>
- Hammad, J., & Tribe, R. (2020). The impact of a livelihood intervention on psychosocial wellbeing and economic empowerment in an ongoing conflict setting: The Gaza strip. *Intervention Journal of Mental Health and Psychosocial Support in Conflict Affected Areas, 18*(2), 108–118. [https://journals.lww.com/invn/fulltext/2020/18020/the\\_impact\\_of\\_a\\_livelihood\\_intervention\\_on.3.aspx](https://journals.lww.com/invn/fulltext/2020/18020/the_impact_of_a_livelihood_intervention_on.3.aspx)
- Hanani, A., Badrasawi, M., Zidan, S., & Hunjul, M. (2022). Effect of cognitive behavioral therapy program on mental health status among medical student in Palestine during COVID pandemic. *BMC Psychiatry, 22*(1), 310. <https://doi.org/10.1186/s12888-022-03915-1>
- Hillel, R. S. (2023). Decolonising mental health and psychosocial support (MHPSS) interventions in the humanitarian system. *Intervention Journal of Mental Health and Psychosocial Support in Conflict Affected Areas, 21*(1), 20–29. [https://doi.org/10.4103/intv.intv\\_20\\_22](https://doi.org/10.4103/intv.intv_20_22)
- Jabr, S., & Berger, E. (2024). Palestine meeting Gaza's mental health crisis. *The Lancet Psychiatry, 11*(1), 12. [https://doi.org/10.1016/S2215-0366\(23\)00398-X](https://doi.org/10.1016/S2215-0366(23)00398-X)
- Jamal, Z., ElKhatib, Z., AlBaik, S., Horino, M., Waleed, M., Fawaz, F., Loffreda, G., Seita, A., Witter, S., & Diaconu, K. (2022). Social determinants and mental health needs of Palestine refugees and UNRWA responses in Gaza during the COVID-19 pandemic: A qualitative assessment. *BMC Public Health, 22*(1), 2296. <https://doi.org/10.1186/s12889-022-14771-9>
- Kangaslampi, S., Punamäki, R. L., Qouta, S., Diab, M., & Peltonen, K. (2016). Psychosocial group intervention among war-affected children: An analysis of changes in posttraumatic cognitions. *Journal of Traumatic Stress, 29*(6), 546–555. <https://doi.org/10.1002/jts.22149>
- Khatib, S., Sharif, N., & Rabadi, H. (2023). The effectiveness of integrated mental health and psychological support interventions in reducing postpartum depression of mothers in Palestine: A randomized control trial. *Population Medicine, 5*(Supplement), A1264. <https://doi.org/10.18332/popmed/163815>
- Llosa, A. E., Casas, G., Thomas, H., Mairal, A., Grais, R. F., & Moro, M. R. (2012). Short and longer-term psychological consequences of Operation Cast Lead: Documentation from a mental health program in the Gaza Strip. *Conflict and Health, 6*(1), 8. <https://doi.org/10.1186/1752-1505-6-8>
- Lorenzoni, G., Petracchi, E., Scarpì, E., Baldi, I., Gregori, D., & Nanni, O. (2023). Use of Sequential Multiple Assignment Randomized Trials (SMARTs) in oncology: Systematic review of published studies. *British Journal of Cancer, 128*(7), 1177–1188. <https://doi.org/10.1038/s41416-022-02110-z>
- Loughry, M., Ager, A., Flouri, E., Khamis, V., Afana, A. H., & Qouta, S. (2006). The impact of structured activities among Palestinian children in a time of conflict. *Journal of Child*



- Psychology and Psychiatry*, 47(12), 1211–1218. <https://doi.org/10.1111/j.1469-7610.2006.01656.x>
- Marie, M., Hannigan, B., & Jones, A. (2016). Mental health needs and services in the West Bank, Palestine. *International Journal of Mental Health Systems*, 10(1), 23. <https://doi.org/10.1186/s13033-016-0056-8>
- Marie, M., Shaabna, Z., & Saleh, M. (2020). Schizophrenia in the context of mental health services in Palestine: A literature review. *International Journal of Mental Health Systems*, 14(1), 44. <https://doi.org/10.1186/s13033-020-00375-6>
- Miller-Graff, L. E., & Cummings, E. M. (2022). Supporting youth and families in Gaza: A randomized controlled trial of a family-based intervention program. *International Journal of Environmental Research and Public Health*, 19(14), 8337. <https://doi.org/10.3390/ijerph19148337>
- Nakkash, R. T., Alaouie, H., Haddad, P., El Hajj, T., Salem, H., Mahfoud, Z., & Afifi, R. A. (2012). Process evaluation of a community-based mental health promotion intervention for refugee children. *Health Education Research*, 27(4), 595–607. <https://doi.org/10.1093/her/cyr062>
- Ouzzani, M., Hammady, H., Fedorowicz, Z., & Elmagarmid, A. (2016). Rayyan—A web and mobile app for systematic reviews. *Systematic Reviews*, 5(1), 210. <https://doi.org/10.1186/s13643-016-0384-4>
- Peltonen, K., Qouta, S., El Sarraj, E., & Punamäki, R.-L. (2012). Effectiveness of school-based intervention in enhancing mental health and social functioning among war-affected children. *Traumatology*, 18(4), 37–46. <https://doi.org/10.1177/1534765612437380>
- Peters, M. D. J., Marnie, C., Tricco, A. C., Pollock, D., Munn, Z., Alexander, L., McInerney, P., Godfrey, C. M., & Khalil, H. (2020). Updated methodological guidance for the conduct of scoping reviews. *JBI Evidence Synthesis*, 18(10), 2119–2126. <https://doi.org/10.11124/jbies-20-00167>
- Punamäki, R.-L., Peltonen, K., Diab, M., & Qouta, S. R. (2014). Psychosocial interventions and emotion regulation among war-affected children: Randomized control trial effects. *Traumatology*, 20(4), 241–252. <https://doi.org/10.1037/h0099856>
- Qato, D. M. (2020). Introduction: Public Health and the Promise of Palestine. *Journal of Palestine Studies*, 49(4), 8–26. <https://doi.org/10.1525/jps.2020.49.4.8>
- Qouta, S. R., Palosaari, E., Diab, M., & Punamäki, R. L. (2012). Intervention effectiveness among war-affected children: A cluster randomized controlled trial on improving mental health. *Journal of Traumatic Stress*, 25(3), 288–298. <https://doi.org/10.1002/jts.21707>
- Qouta, S. R., Peltonen, K., Diab, S. Y., Anttila, S., Palosaari, E., & Punamäki, R.-L. (2016). Psychosocial intervention and dreaming among war-affected Palestinian children. *Dreaming*, 26(2), 95–118. <https://doi.org/10.1037/drm0000025>
- Sarraj, E. E., & Qouta, S. (2004). The Palestinian experience. In J. J. López-Ibor, G. Christodoulou, M. Maj, N. Sartorius, & A. Okasha (Eds.), *Disasters and mental health* (pp. 229–237). Wiley. <https://doi.org/10.1002/047002125X.ch16>
- Shalhoub-Kevorkian, N. (2005). Voice therapy for women aligned with political prisoners: A case study of trauma among Palestinian women in the second Intifada. *Social Service Review*, 79(2), 322–343. <https://doi.org/10.1086/429141>
- Shank, L. M., Grace, V., Delgado, J., Batchelor, P., de Raadt St. James, A., Sundaresan, A., & Bouché, L. (2023). The impact of a guided paced breathing audiovisual intervention on anxiety symptoms in Palestinian children: A pilot randomized controlled trial. *Child and Adolescent Mental Health*, 28(4), 473–480. <https://doi.org/10.1111/camh.12613>
- Shawahin, L., & Çiftçi, A. E. (2012). Counseling and mental health care in Palestine. *Journal of Counseling & Development*, 90(3), 378–382. <https://doi.org/10.1002/j.1556-6676.2012.00048.x>
- Shukri, S., Holmes, D., Shukri, N., Shukri, H., & Saada, F. (2023). The silent epidemic; the toll of mental health in occupied Palestine. *Palestinian Medical and Pharmaceutical Journal*, 8(1), 5. <https://doi.org/10.59049/2790-0231.1141>
- Soulsby, L. K., Jelicsejeva, K., & Forsythe, A. (2021). “And I’m in another world”: A qualitative examination of the experience of participating in creative arts groups in Palestine. *Arts & Health*, 13(1), 63–72. <https://doi.org/10.1080/17533015.2019.1624585>
- Sullivan, A. L., & Simonson, G. R. (2016). A systematic review of school-based social-emotional interventions for refugee and war-traumatized youth. *Review of Educational Research*, 86(2), 503–530. <https://doi.org/10.3102/0034654315609419>
- Thabet, A. A., Abu Tawahina, A., Sarraj, E. E., & Vostanis, P. (2009a). Effectiveness of school-based debriefing sessions for Palestinian children affected by war and trauma. *Arabpsynet eJournal*, 24, 38–41.
- Thabet, A. A., Abu Tawahina, A., Sarraj, E. E., & Vostanis, P. (2009b). Effectiveness of school-based psychodrama in improving mental health of Palestinian Adolescents. *Arabpsynet eJournal*, 24, 67–71.
- Thabet, A. A., Vostanis, P., & Karim, K. (2005). Group crisis intervention for children during ongoing war conflict. *European Child & Adolescent Psychiatry*, 14(5), 262–269. <https://doi.org/10.1007/s00787-005-0466-7>
- Thompson, C. T., Vidgen, A., & Roberts, N. P. (2018). Psychological interventions for post-traumatic stress disorder in refugees and asylum seekers: A systematic review and meta-analysis. *Clinical Psychology Review*, 63, 66–79. <https://doi.org/10.1016/j.cpr.2018.06.006>
- Tribe, R. H., Sendt, K. V., & Tracy, D. K. (2019). A systematic review of psychosocial interventions for adult refugees and asylum seekers. *Journal of Mental Health*, 28(6), 662–676. <https://doi.org/10.1080/09638237.2017.1322182>
- Tricco, A. C., Lillie, E., Zarin, W., O’Brien, K. K., Colquhoun, H., Levac, D., Moher, D., Peters, M. D. J., Horsley, T., Weeks, L., Hempel, S., Akl, E. A., Chang, C., McGowan, J., Stewart, L., Hartling, L., Aldcroft, A., Wilson, M. G., Garrity, C., . . . Straus, S. E. (2018). PRISMA extension for scoping reviews (PRISMA-ScR): Checklist and explanation. *Annals of Internal Medicine*, 169(7), 467–473. <https://doi.org/10.7326/m18-0850>
- Tsacoyianis, B. (2021). Mental Health and Palestinian Citizens in Israel. *Journal of Palestine Studies*, 50(3), 75–76. <https://doi.org/10.1080/0377919X.2021.1941709>
- Tyrer, R. A., & Fazel, M. (2014). School and community-based interventions for refugee and asylum seeking children: A systematic review. *PLoS ONE*, 9(2), e89359. <https://doi.org/10.1371/journal.pone.0089359>

- van Wyk, S., & Schweitzer, R. D. (2014). A systematic review of naturalistic interventions in refugee populations. *Journal of Immigrant and Minority Health, 16*(5), 968–977. <https://doi.org/10.1007/s10903-013-9835-3>
- Veronese, G., & Barola, G. (2018). Healing stories: An expressive-narrative intervention for strengthening resilience and survival skills in school-aged child victims of war and political violence in the Gaza Strip. *Clinical Child Psychology and Psychiatry, 23*(2), 311–332. <https://doi.org/10.1177/1359104518755220>
- Vossoughi, N., Jackson, Y., Gusler, S., & Stone, K. (2018). Mental health outcomes for youth living in refugee camps: A review. *Trauma, Violence, & Abuse, 19*(5), 528–542. <https://doi.org/10.1177/1524838016673602>
- Wagner, G., Glick, P., Khammash, U., Shaheen, M., Brown, R., Goutam, P., Karam, R., Linnemayr, S., & Massad, S. (2020). Exposure to violence and its relationship to mental health among young people in Palestine. *Eastern Mediterranean Health Journal, 26*(2), 189–197. <https://doi.org/10.26719/2020.26.2.189>
- Williams, M. E., & Thompson, S. C. (2011). The use of community-based interventions in reducing morbidity from the psychological impact of conflict-related trauma among refugee populations: A systematic review of the literature. *Journal of Immigrant and Minority Health, 13*(4), 780–794. <https://doi.org/10.1007/s10903-010-9417-6>
- World Bank. (2022). *Mental Health in the West Bank and Gaza*. Retrieved April 2, 2022, from <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/099153502102330181/p17925303fca130e30936d016a378b6a1e9>
- World Health Organization. (2022). *Mental health in emergencies*. Retrieved April 3, 2022, from <https://www.who.int/news-room/fact-sheets/detail/mental-health-in-emergencies#:~:text=The%20burden%20of%20mental%20disorders,post%2Dtraumatic%20stress%20disorder%2C%20bipolar>
- World Health Organization Regional Office for the Eastern Mediterranean. (2024a). *oPt emergency situation update*. Retrieved April 15, 2024, from [https://www.emro.who.int/images/stories/Sitrep\\_-\\_issue\\_20.pdf](https://www.emro.who.int/images/stories/Sitrep_-_issue_20.pdf)
- World Health Organization Regional Office for the Eastern Mediterranean. (2024b). *Scaling-up mental health services in Palestine*. Retrieved April 15, 2024, from <https://www.emro.who.int/opt/news/scaling-up-mental-health-services-in-palestine.html>
- World Health Organization Regional Office for the Eastern Mediterranean. (2024c). *WHO in occupied Palestinian territory - Mental Health*. Retrieved April 15, 2024, from <https://www.emro.who.int/opt/priority-areas/mental-health.html>
- Yassin, N., Taha, A. A., Ghantous, Z., Atoui, M. M., & Forgione, F. (2018). Evaluating a mental health program for Palestinian refugees in Lebanon. *Journal of Immigrant and Minority Health, 20*(2), 388–398. <https://doi.org/10.1007/s10903-017-0657-6>
- Yudkin, J. S., Bakshi, P., Craker, K., & Taha, S. (2022). The Comprehensive Communal Trauma Intervention Model (CCTIM), an innovative transdisciplinary population-level model for treating trauma-induced illness and mental health in global vulnerable communities: Palestine, a case study. *Community Mental Health Journal, 58*(2), 300–310. <https://doi.org/10.1007/s10597-021-00822-9>