Protocol for a caregiver psychosocial support intervention for populations affected by displacement in Uganda

Flora Cohen, Sabrina Hermosilla, Justin Knox, Gary Samuel Agaba, Grace Obalim, Rehema Kajungu, Patrick Onyango Mangen and Lindsay Stark

Abstract

Background: Child psychological distress in refugee settings is a significant public health concern, which is exacerbated by poor caregiver mental health and functioning. However, there are limited studies about effective interventions to improve caregiver mental health in support of child wellbeing. The objective of the current study is to evaluate the effectiveness and implementation of the Journey of Life (JoL) intervention to improve caregiver mental health in a refugee camp in Western Uganda.

Methods: A waitlist-control quasi-experimental design is being implemented in the Kiryandongo refugee settlement (intervention n = 600, control n = 600). Caregiver mental distress, measured using the Kessler-6, was selected as the primary outcome. Secondary outcomes include (a) functioning measured by the World Health Organization Disability Assessment Schedule, (b) social support measured by the Medical Outcomes Study Social Support Survey, and (c) caregiving behaviors according to the Parental Acceptance and Rejection Questionnaire and the Child Protection Index. The study aims to examine the implementation of the JoL intervention through qualitative assessments of intervention feasibility, adaptations, and reach.

Discussion: This trial will add much-needed evidence for the implementation of caregiver psychosocial programming within the humanitarian community. Findings will be disseminated amongst local, regional, and global actors in order to guide potential scale up within humanitarian settings.

Trial registration: Clinical Trials NCT04817098 (Registered: 3/24/21).

Keywords: Refugee, Psychosocial support, Child protection, Uganda, South Sudan

Background

Uganda hosts 1.4 million refugees, approximately two thirds of whom are from South Sudan, and over half of whom are children [1]. Displaced children are vulnerable to the impacts of caregiver wellbeing and parenting practices. Refugee caregivers (including biological parents and legal/custodial guardians) cope with a range of stressors including pre-migration conflict and loss as well as post-migration stressors such as poverty, inadequate or unsafe housing, restrictions on employment, limited access to healthcare and education, and loss of social support networks [2–4]. It is well documented that chronic stress leads to negative coping mechanisms such as alcohol and drug abuse, gender based violence, self-harm behaviors, school absenteeism, and worsening mental disorders among adults [5]. Furthermore, caregiver depression is correlated with increased symptoms of depression among their children [6]. High stress also depletes the ability of...
caregivers to cope and support their children, leading to compromised caregiving, including unresponsive, overprotective, and harsh caregiving [7]. Living in refugee camp settings can strain caregiver wellbeing and parenting behaviors, which in turn can create barriers to healthy child development.

For children, displacement has been shown to amplify susceptibility to malnutrition, infectious disease, prolonged periods out of school, and vulnerability to transactional sex for income and safety [8, 9]. The stressors experienced by children are further exacerbated when adult support mechanisms are strained [10]. Chronically or highly stressed caregivers are more likely to have children with insecure attachments, which has been shown to pose a risk for subsequent difficulties in children’s interpersonal relationships, self-regulation, and achievement [11]. The relationships between caregiver stress, compromised caregiving, and detriments to child well-being have been well documented in studies of diverse refugee communities [6, 12–14].

There is growing evidence that psychosocial interventions supporting caregivers can also improve caregiving abilities. Programming that prioritizes caregiving knowledge and skills have been shown to contribute to improved parenting and child outcomes, such as a warmer parenting style, strengthened relationships, and improved academic achievement for children [15–19]. Additionally, psychosocial support interventions with caregivers have demonstrated success in reducing symptoms of caregiver emotional distress, and have shown improvement in overall caregiver well-being [20–28]. However, approaches that build caregiver capacity and support psychosocial well-being have been underutilized and understudied for their effectiveness in humanitarian settings.

Relatedly, the majority of implementation science studies, which assess the uptake of evidence based practices (EBPs) such as caregiver interventions, are based in high income countries [12]. Building the evidence for the implementation of psychosocial EBPs in humanitarian contexts requires the analysis of ecological, institutional, and interpersonal factors including funding and human resource constraints, security and logistics, and a limited capacity of program staff to rigorously assess factors influencing implementation in addition to overall effectiveness [29, 30]. However, a careful investigation into factors that influence implementation in a humanitarian setting is vital to continued uptake of EBPs, scale-up, and dissemination [31–34].

The primary goal of this study is to evaluate the effectiveness and implementation of the Journey of Life (JoL), an intervention to improve child wellbeing through improved caregiver mental health and psychosocial support (MHPSS), in a refugee settlement in Uganda. Through the evaluation, we will:

1. Evaluate the impact of JoL on MHPSS outcomes, including the mental health (primary outcome) of caregivers, along with changes in caregiver functioning, social support, and parenting behaviors (secondary outcomes); and
2. Investigate the implementation of the JoL intervention in terms of feasibility, reach, and adaptations.

**Methods**

**Setting**

Uganda is one of the most welcoming countries to refugees in the world, with freedom of movement, the right to employment, education, and health. Despite access to these opportunities, 80% of refugees live below the poverty line [35]. Kiryandongo Settlement, the location for this study, has a population of approximately 313,800 people, of whom 17% are refugees; the rest are Ugandan nationals, including internally displaced persons (IDPs). The large majority (99%) of the refugee population in Kiryandongo have fled conflict in South Sudan, while the rest are from the Democratic Republic of Congo, Sudan, Kenya, Burundi, and Rwanda [36]. Approximately 62% of the Kiryandongo population is under the age of 18. In February 2020 there were 847 children identified as unaccompanied, separated, or currently at risk [36]. These numbers are not exhaustive due to incomplete birth registrations and record keeping. Children and adolescents within Kiryandongo consistently report high levels of distress, with 30 to 50% meeting criteria for anxiety and depression [6, 37]. Additionally, 77% of refugees in Kiryandongo reported that when a family member was in psychological distress they were not able to access psychosocial care [38].

**Intervention design**

JoL was developed to raise awareness among adults about the psychosocial needs of vulnerable children [39–41]. It provides an opportunity for individuals impacted by conflict and displacement to examine the ways they support children and families in their communities. This JoL adaption focuses on engaging caregivers in building awareness around child protection and fosters psychosocial support through reflection, dialogue, and action. The series of workshops are divided into twelve sessions that include: psychoeducation, self-care, positive parenting, understanding children’s needs, identifying children who need help, and building on children’s strengths. The manualized protocol for 12 sessions is designed to be implemented by non-specialized humanitarian workers. There is an overall emphasis across the curriculum on creating nurturing and caring communities.
Study design
The proposed study will evaluate the effectiveness and implementation of the JoL intervention using a quasi-experimental waitlist control design. In order to reduce contamination, the treatment group will be conducted in one Ranch (a demarcated segment of the settlement) of Kiryandongo, while the wait-list control group will be in a Ranch that is geographically separate. Participants in the intervention group will receive the program weekly for 12 weeks. The waitlist control group will be invited to participate in the intervention shortly after the endline assessment in the intervention group has been completed (see Fig. 1). Effectiveness indicators will be assessed at baseline and endline.

Quantitative study design
Every community member (intervention and wait-list control) invited to participate in JoL will also be invited to participate in the evaluation study. To ensure sufficient power, we conducted a sample size calculation for our primary outcome measure – mental distress, measured through the Kessler 6. The proposed sample size ($n = 960$; assuming 80% retention of an initial $n = 1200$) is adequate for detecting an effect size of 11% with 80% power. R (base library, command power.prop.test) was used to conduct the power analysis. We intend to maximize our sample in order to be able to explore potential differences between males and females, and also to be able to look at per-protocol (those who attend > 75% of sessions) versus intent-to-treat analyses.

Recruitment and population characteristics
Participant recruitment will be conducted in collaboration with the staff of the implementing organization and their community partners. Inclusion criteria for participation in JoL is any person (men and women) ages 18 and over who lives with a child under 18 years old or has caregiving responsibilities for someone under the age of 18. Participants can be refugees or Ugandan nationals living in the study location, they do not need to meet any criteria for adverse mental health, including stress or mild mental illness. Additionally, individuals who have experienced an adverse mental health event are not excluded from the study. Exclusion criteria for the intervention includes anyone aged 17 and under and anyone who is not able to consent to participate.

Nested qualitative study
Data regarding the implementation of JoL will be collected through qualitative interviews at baseline and endline, and through a process evaluation. Interviewers will conduct key informant interviews (KIIs) with implementing staff, community partners, and participants at baseline and endline. Sample sizes for qualitative data collection will be oriented with the aim of reaching saturation [42]. Data will be analyzed using Dedoose [43]. The process evaluation will draw on routine monitoring tools, including activity sheets, attendance and observation checklists.

![Fig. 1 Study flow chart](image-url)
Effectiveness outcomes

All questionnaire data will be gathered using Android tablets. Measures will be administered in Juba Arabic, Dinka, Nuer, and Acholi (languages covering majority of the population) by trained and supervised enumerators. In order to capture key demographic information, the survey contains questions related to age, gender, marital status, years of education, current sources of income, and caregiving status. Survey modules cover functioning, social support, experiences of intimate partner violence, mental distress, child protection behaviors, and parenting styles. See Table 1 for a detailed overview of measures.

Implementation measures

Frameworks such as FRAME (Framework for Reporting Adaptations and Modifications-Expanded) provides a structure to analyze program adaptations pre-, during, and post-implementation [54]. FRAME includes [1] when and how adaptations were made, [2] whether the adaptations were unplanned/reactive or planned/pro-active, [3] who determined the adaptation, [4] what was adapted, [5] at what level of delivery the adaptation was made, [6] the type of adaptation, [7] the extent to which the adaptation is consistent with fidelity, [8] the reasons for the adaptation. Adaptations, including the successful tailoring of evidence-based practices for the target population, may improve participant involvement and overall clinical outcomes.

Additionally, components of the CFIR (Consolidated Framework for Implementation Research) [55] will be integrated into qualitative semi-structured KIIs at baseline and endline with implementation staff, community organization partners, and community members in order to address implementation components, including acceptability, feasibility, and others outlined in Table 2. Findings from KIIs will be used to inform program adaptations and record implementation indicators. Additional indicators will be tracked using monitoring and evaluation (M&E) approaches such as tracking attendance, and monitoring fidelity to program components using observation checklists.

Data analysis

Quantitative analysis

The analytic plan is designed to assess effectiveness of the JoL intervention on MHPSS and caregiving behaviors. The level of significance for all analyses will be set at 5%. We will initially assess the sample in terms of baseline characteristics. Other preliminary data analyses will include studies of patterns of missing data, dropout rates, distributional properties of dependent and other measures, and correlations among outcomes. We will determine if effectiveness differs meaningfully in the intervention group compared to the control group. As the primary intervention is community based, an individual’s specific exposure to intervention activities (e.g. intervention dose received) will not be explored, but rather all individuals within the intervention group will be categorized as intervention respondents and all individuals within the control group will be categorized as control respondents. We will also assess the effect of potential mediators in the causal pathway between
treatment and outcome. To explore if efficacy differs by baseline characteristics (moderation), we will model the outcomes with the relevant baseline characteristics and their interaction as predictors. Factor-stratified models (e.g. by gender) may be explored if interaction terms are found to be statistically significant. Our modeling approach to assess changes in outcomes over time will use generalized mixed models for longitudinal data. This class of models does not assume that subjects are measured at all time-points, and therefore can include

Table 1 Outcome Measures

| Measure               | Tool                                           | Description                                                                                                                                                                                                 |
|-----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mental distress       | Kessler-6                                      | The Kessler-6 asks participants how frequently they have experienced certain symptoms in the past thirty days and presents a consistent range of responses ranging from “1 - All of the time” to “5 - None of the time” [44]. The scale shows consistency across multiple socio-demographic variables and has been previously documented among refugees in Uganda [45]. |
| Functioning           | World Health Organization Disability Assessment Schedule | WHODAS assesses functioning through six domains of cognition, mobility, self-care, interpersonal skills, life activities, and community participation. The WHODAS has been used in international settings including Uganda Bachani et al. [46]. |
| Social Support        | Medical Outcomes Study (MOS)                   | The MOS measures social support across five dimensions, including: 1) emotional, 2) informational, 3) tangible, 4) positive social interactions, and 5) affection. It has been used to assess social support among individuals affected by HIV in Uganda [47–49]. |
| Parenting behaviors   | Parenting Acceptance and Rejection Questionnaire | For the purposes of this study, the subscales of warmth/affection, hostility/aggression, indifference/neglect, and undifferentiated rejection will be used. The PARQ has been used in similar settings to assess parenting behaviors [50]. |
| Attitudes towards child protection | Child Protection Index                          | Items related to perceptions on the treatment of children, child rearing, and educating children are included in this study. Developed in collaboration with the UNHCR, AVSI, and the CPC Learning Network, the Child Protection Index, assesses child protection outcomes in displacement settings Meyer et al. [51], and has been used previously in Uganda Meyer et al., [6, 52, 53]. |
| Intimate partner violence | WHO multi-country Violence Against Women (VAW) study | These items estimate the prevalence of physical, sexual, and emotional violence against women. The World Health Organization (WHO) Multi-country study on Women’s Health and Domestic Violence included the collection of data from over 24,000 women in 10 countries. |

Table 2 Implementation science framework for JoL assessment

| Construct                      | Short Description                                                                 | Collection Method |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------|
| Intervention characteristics   |                                                                                    | KII               |
| Acceptability                  | Define if the program feels acceptable to community stakeholders                  | KII               |
| Outer setting                  |                                                                                    | KII               |
| Needs & Resources              | Community needs and available supportive resources.                               | KII               |
| Cosmopolitanism                | Organizational network and connections with other organizations.                   | KII               |
| Inner setting                  |                                                                                    | KII               |
| Culture                        | Organizational norms, values, and customs.                                         | KII               |
| Feasibility                    | Defining barriers and facilitators in order to address potential adaptations to the implementation strategy and manualized tools. | KII               |
| Characteristics of individuals |                                                                                    | KII               |
| Self-efficacy                  | Belief in one’s own capabilities to execute the implementation plan.                | KII               |
| Attendance                     | Track attendance at weekly sessions and reasons for not attending                   | M&E               |
| Execution                      | Delivering the program according to plan.                                          | KII               |
| JoL Components                 |                                                                                    | KII               |
| Adaptations                    | Tailoring the intervention to population and context specific needs.                | KII               |
| Group composition              | The composition of groups, including demographics of participants.                  | KII               |
| Space procurement              | The proposed location of the JoL groups.                                            | KII               |
| Scheduling                     | The best time of day and/or day of the week to meet                                 | KII               |
| Attrition                      | Barriers and facilitators to retention                                             | KII               |
| Fidelity                       | Track fidelity to program components using observation checklists                    | M&E               |
subjects with two measurement time-points. In these analyses, we will examine changes across time in order to assess – and isolate from programmatic efficacy - the effect of time. Based on intervention attendance records, both intention-to-treat and per-protocol analyses will be explored. We will also conduct sensitivity analyses to investigate the robustness of results across different models for missing data, following this detailed approach. Additional analyses will also be explored, such as the need for models that use inverse probability weighting to account for potentially high levels of incomplete intervention participation within the intervention community.

Qualitative analysis

On-going qualitative analyses will be conducted over the course of the study to explore new and unexpected themes that arise; we will shift to new questions when saturation is reached. Using Dedoose, multiple study staff members will independently code 10% of the transcripts and compare the application of the coding scheme to assess its reliability and robustness; we will resolve disagreements through discussion.

Systematic analysis of the various types of data collected will be conducted using a grounded theory approach. Grounded theory analysis requires that data be analyzed continuously throughout the duration of data collection, so that theories generated from the data can be used to direct and inform subsequent research efforts. In grounded theory, the researcher summarizes initial observations into conceptual categories and then tests the coherence of the categories in the research setting with additional observations so that theory evolves but is grounded in data from subsequent observations. An initial codebook and coding scheme will be developed and expanded as the data are analyzed.

We will use the content analysis techniques, repetitions and cutting and sorting, to identify themes in the data. These content analyses techniques involve identifying the recurrence of words/phrases (repetitions), and recognizing patterns in quotes and expressions that are salient and that can be distinguished from other patterns in the data (cutting), then organizing them together (sorting).

Dissemination

The results of this project will be disseminated internally among implementation staff of TPO and REPSSI about the use and implementation of JoL. Results will be shared in verbal and written formats to ensure accessibility. Additionally, presentations about outcomes will be organized internally and among agencies in Kampala. Other forums for dissemination will include annual research meetings and forums virtually and in-person. If JoL is proven to be effective, the adapted manual will be shared with program developers, implementation staff, and key partners in order to facilitate scale up of implementation. REPSSI will also disseminate the adapted manual across countries of operation. Furthermore, results will be published in English in peer-reviewed journals for regional and global audiences.

Discussion

Although psychosocial programs comprise a large proportion of MHPSS humanitarian programming for mental health and wellbeing, evidence to support the effectiveness of psychosocial interventions remains nascent [56]. Psychosocial programming remains conceptually different from the treatment of mental disorders through mental health programming, and includes a broader array of potential intervention approaches. This breadth presents a challenge in the field, as boundaries of what is meant by ‘psychosocial wellbeing’ remain nebulous. For example, a series of impact evaluations recently found that widely-implemented child-friendly spaces (CFS), which have generally been perceived to be instrumental for psychosocial wellbeing and child protection, have small to no effects (potentially related to quality and fit to local context) [57–59]. One of the lessons learned from this body of research is that the provision of space alone is not sufficient to improve psychosocial wellbeing, but programming that supports social support and psychological wellbeing alongside the provision of basic services is vital.

Even when there is sufficient evidence for programs, they are rarely scaled or widely implemented [60]. In recent years, there has been a shift in research to ensure that evidence-informed programs, such as JoL, incorporate rigorous tracking of implementation strategies to strengthen future scalability, replicability, and sustainability. Ideally, psychosocial programs can continue to be implemented and have an impact on communities long after the program is first initiated. Implementation strategies, guided by implementing organizations and iteratively improved, help to maximize the effectiveness of programs within each community, while being mindful of contextual factors and available resources. This study tests the effectiveness of a seldom-studied psychosocial intervention, while simultaneously gathering information about its implementation in a real world setting [61]. This hybrid design is particularly important in areas with limited resources, where factors to improve the implementation and sustainability of programs are lesser known and where there are barriers to rigorous implementation trials [61–65].

We acknowledge potential challenges that may emerge during the implementation and evaluation of the JoL program. One of these challenges includes operating
during the COVID-19 pandemic. Good practice safety measures have been put in place to protect the health of staff and participants involved in the program and evaluation. Another challenge may involve operating during the wet season in Uganda, which may affect access and participation and will be monitored as part of program M&E. Additionally, we have tried to account for potential spillover effects by ensuring the selected Ranches are sufficiently geographically separated. We know that groups of participants will include community members who hold various roles in the community who may engage with program material differently; we will be carefully monitoring and working to minimize power dynamics within the groups. Implementation and evaluation staff will monitor emerging issues, and provide a constructive environment for participation.

The primary goal of JoL is to provide a sustainable solution to support the wellbeing of children and families living in Kiryandongo, Uganda. Following intervention delivery, it is hypothesized that participants will have improved self-care strategies and be better able to promote and improve child wellbeing. Overall, this study supports burgeoning literature about caregiver psychosocial support and child protection programs in humanitarian and low-resourced settings.

Abbreviations
JoL: Journey of Life; EBP: Evidence Based Practice; MHPSS: Mental Health and Psychosocial Support; AE: Adverse Events; IRB: Institutional Review Board; WHOQOL: World Health Organization Disability Assessment Schedule; MOS: Medical Outcomes Study; PARQ: Parenting Acceptance and Rejection Questionnaire; UNHCR: United Nations High Commissioner for Refugees; ASVI: Association of Volunteers in International Service; CPC: Child Protection in Crisis; VAW: Violence Against Women; FRAME: Framework for Reporting Adaptations and Modifications-Expanded; CFIR: Consolidated Framework Implementation Research; KII: Key Informant Interview; M&E: Monitoring and Evaluation; TPO: Transcultural Psychosocial Organization; RPSGi: Regional Psychosocial Support Initiative; CFS: Child-Friendly Spaces

Acknowledgements
Not applicable.

Trial status
Protocol date: 24 March 2021, Enrollment start date: 19 April 2021, Enrollment end date: 19 May 2021. https://clinicaltrials.gov/ct2/show/NCT04817098

Authors’ contributions
LS and PM serve as Multiple Principal Investigators (MPIs) and are responsible for overall study design and implementation. SH and JK provide technical advisement for the evaluation. RK, GO, and GA are responsible for program implementation. FC oversees all research activities, including tool development, process evaluations, and analysis. FC drafted the manuscript with guidance from SH, JK, and LS. All authors have reviewed and commented on drafts and have approved of the final manuscript prior to submission.

Funding
This study was funded by the United States Agency for International Development (USAID) under the Health Evaluation and Applied Research Development (HEARD), Cooperative Agreement No. AID-OAA-A-17-00002. This study is made possible by the support of the American People through the United States Agency for International Development (USAID).

The findings of this study are the sole responsibility of the contributing authors and do not necessarily reflect the views of USAID or the United States Government.

Availability of data and materials
Not Applicable.

Declarations
Ethics approval and consent to participate
All study procedures were approved by the Washington University in St. Louis Institutional Review Board (IRB, ID#: 202101122) and by an in-country IRB (TASO Uganda, Reference #: TASOREC/1065/2020-UG-REC-009), and verbal and written informed consent will be obtained from each participant.

Consent for publication
Not Applicable.

Competing interests
The authors declare that they have no competing interests.

Author details
1Washington University in St. Louis, Box 1196, 1 Brookings Drive, St. Louis, MO 63130, USA. 2University of Michigan, 500 S. State St, Ann Arbor, MI 48109, USA. 3Columbia University, New York, NY 10027, USA. 4Transcultural Psychosocial Organization Uganda, P.O. Box 21646, Kampala, Uganda. 5Regional Psychosocial Support Initiative, P.O. Box 23076, Randburg West, South Africa.

Received: 13 April 2021 Accepted: 26 April 2021

References
1. UNICEF. UNICEF Uganda’s emergency response to refugees. 2021 [cited 2021 Apr 2]. Available from: https://www.unicef.org/uganda/unicef-ugandas-emergency-response-refugees
2. Kibret B. Armed conflict, violation of child rights and implications for change. J Psychol Psychother. 2015;105.
3. MacMullin C, Loughry M. Investigating psychosocial adjustment of former child soldiers in Sierra Leone and Uganda. J Refug Stud. 2004;17(4):460–72. https://doi.org/10.1093/jrs/17.4.460.
4. Paardekooper B, de Jong JT, Hermans JM. The psychological impact of war and the refugee situation on South Sudanese children in refugee camps in northern Uganda: an exploratory study. J Child Psychol Psychiatry. 1999;40(4):259–36.
5. Kaltenbacher S. UNHCR Uganda mental health and psychosocial support strategy: Uganda: UNHCR; 2019.
6. Meyer SR, Stenhaus M, Bangirana C, Onyango-Mangen P, Stark L. The influence of caregiver depression on adolescent mental health outcomes: findings from refugee settlements in Uganda. BMC Psychiatry. 2017;17(1):405. https://doi.org/10.1186/s12888-017-1566-x.
7. Biglan A, Flay BR, Embry DD, Sandler IN. The critical role of nurturing environments for promoting healthy eating, Am Psychol. 2012;67(4):257–71. https://doi.org/10.1037/a0026796.
8. UNESCO. Impact of conflict on children’s health and disability. 2016 [cited 2020 Mar 22]. Available from: https://unesdoc.unesco.org/ark:/48223/pf0000190712
9. Schlecht J, Rowley E, Babire J. Early relationships and marriage in conflict and post-conflict settings: vulnerability of youth in Uganda. Reprod Health Matters. 2013;21(41):234–42. https://doi.org/10.1016/j.rhm.2013.141710-X.
10. Reed RV, Fazel M, Jones L, Panter-Brick C, Stein A. Mental health of displaced and refugee children resettled in low-income and middle-income countries: risk and protective factors. Lancet. 2012;379(9812):250–65. https://doi.org/10.1016/S0140-6736(11)60505-0.
11. Miller KE, Arnow M, Tossyeh F, Chen A, Bakolis I, Kappenol-Gonzalez GV, et al. Protocol for a randomized control trial of the caregiver support intervention with Syrian refugees in Lebanon. Trials. 2020;21(1):277. https://doi.org/10.1186/s13063-020-0477-9.
12. El-Khani A, Maalouf W, Baker D, Zahra N, Noubani A, Cartwright K. Caregiving for children through conflict and displacement: a pilot study testing the feasibility of delivering and evaluating a light touch parenting
intervention for caregivers in the West Bank. Int J Psychol. 2020;55(107305):26–39. https://doi.org/10.1016/j.iop.2019.
13. Puffer ES, Green EP, Chase RM, Sim AL, Zayyaj Y, Fris E, et al. Parents make the difference: a randomized-controlled trial of a parenting intervention in Liberia. Glob Ment Health Camb Engl. 2015;2:e15. https://doi.org/10.1017/ gmh.2015.13.
14. Sim A, Annan J, Puffer E, Salih C, Betancourt T. Building happy families: impact evaluation of a parenting and family skills intervention for migrant and displaced Burmese families in Thailand. N Y Int Rescue Comm. 2014. Available from: https://www.researchgate.net/publication/30628893_Building_Happy_Families_Impact_evaluation_of_a_parenting_and_family_skills_intervention_for_migrant_and_displaced_Burmese_families_in_Thailand.
15. Bass J, Annan J, Murray S, Kayes D, Griffiths S, Cetinoglu T, et al. Controlled trial of psychotherapy for Congolese survivors of sexual violence. NEJM. 2013;368(23):2182–91. https://doi.org/10.1056/NEJMoa1211853.
16. Bunn M, Goessel C, Kinet M, Ray F. Group therapy with male asylum seekers and refugees with posttraumatic stress disorder: a controlled comparison cohort study of three day-treatment programs. Torture. 2015;26(1):45–67.
17. Falb KL, Tannier S, Ward L, Erksine D, Noble E, Assazenew A, et al. Creating opportunities through mentorship, parental involvement, and safe spaces (COMPASS) program: multi-country study protocol to protect girls from violence in humanitarian settings. BMC Public Health. 2016;16(1):1–10.
18. Falb KL, Asghar K, Laird B, Erksine D, Noble E, Assazenew A, et al. Creating opportunities through mentorship, parental involvement, and safe spaces (COMPASS) program: multi-country study protocol to protect girls from violence in humanitarian settings. BMC Public Health. 2016;16(1):1–10.
19. Stark L, Seff J, Asghar K, Roth D, Bakamore T, MacRae M, et al. Building caregivers’ emotional, parental and social support skills to prevent violence against adolescent girls: findings from a cluster randomized controlled trial in Democratic Republic of Congo. BMJ Glob Health. 2018;3(5):e000824. https://doi.org/10.1136/bmjgh-2018-000824.
20. Goodkind JR, Hess JM, Isakson B, LaNoue M, Githinji A, Roche N, et al. Reducing refugee mental health disparities: a community-based intervention to address postmigration stressors with African adults. Psychol Serv. 2014;11(3):333–46. https://doi.org/10.1037/a0030801.
21. Kinzie J, Kinzie J, Sedighi B, Woticha A, Mohamed H, Riley C. Prospective one-year treatment outcomes of tortured refugees: a psychiatric approach. Torture. 2012;22(1):1–10.
22. Lambert J, Allason Jones O, Trauma-focused therapy for refugees: meta-analytic findings. J Couns Psychol. 2015;62(1):28–37. https://doi.org/10.1037/cou0000048.
23. Nosé M, Ballette F, Bigelli I, Turnini G, Purgato M, Tol W, et al. Psychosocial interventions for post-traumatic stress disorder in refugees and asylum seekers resettled in high-income countries: systematic review and meta-analysis. PLoS One. 2017;12(2):e0171030. https://doi.org/10.1371/journal.pone.0171030.
24. Shaw SA, Ward KP, Pillai V, Hinton DE. A group mental health randomized controlled trial for female refugees in Malaysia. Am J Orthop. 2019;89(6):665–74. https://doi.org/10.1177/0020764014535752.
25. Wolf TA, Barbui C, Galappatti A, Silove D, Betancourt TS, Souza R, et al. Mental health and psychosocial support in humanitarian settings: linking practice and research. Lancet Lond Engl. 2011;378(9802):1581–91. https://doi.org/10.1016/S0140-6736(11)61094-5.
26. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
27. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
28. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
29. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
30. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
31. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
32. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
33. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
34. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
35. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
36. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
37. Weiss WM, Ugueto AM, Mahmood E, Murray LK, Hall BJ, Nadison M, et al. Mental health interventions and priorities for research for adult survivors of torture. J Torture Q J Torture Q. 2012;22(1):1–10.
51. Meyer DS, Steinhaus M, Stark DL. Measuring impact through a child protection index, vol. 84; 2015.
52. Measuring Impact Through a Child Protection Index. CPC Learning Network. 2014 [cited 2021 Mar 22]. Available from: http://www.cpcnetwork.org/resource/measuring-impact-child-protection-index/
53. Meyer SR, Yu G, Hermosilla S, Stark L. Latent class analysis of violence against adolescents and psychosocial outcomes in refugee settings in Uganda and Rwanda. Glob Ment Health. 2017; [cited 2020 Apr 28]. Available from: https://www.cambridge.org/core/journals/global-mental-health/article/latent-class-analysis-of-violence-against-adolescents-and-psychosocial-outcomes-in-refugee-settings-in-uganda-and-rwanda/9A2BB79FBF331D53D7024F8363317D7FC.
54. Wittey Stirman S, Baumann AA, Miller CJ. The FRAME: an expanded framework for reporting adaptations and modifications to evidence-based interventions. Implement Sci. 2019;14(1):58. https://doi.org/10.1186/s13012-019-0898-y.
55. Keith RE, Crosson JC, O’Malley AS, Cromp D, Taylor EF. Using the consolidated framework for implementation research (CFIR) to produce actionable findings: a rapid-cycle evaluation approach to improving implementation. Implement Sci IS. 2017;12(1):15. https://doi.org/10.1186/s13012-017-0550-7.
56. Lee C, Nguyen AJ, Haroe E, Tol W, Aules Y, Bolton P. Identifying research priorities for psychosocial support programs in humanitarian settings. Glob Ment Health. 2019; 7 [cited 2020 Apr 28]. Available from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC796323/.
57. Ager A, Metzler J, Voita M, Savage K. Child friendly spaces: a systematic review of the current evidence base on outcomes and impact. Intervention. 2013;11(2):133–47. https://doi.org/10.1097/01.WTF.0000431120.01602.e2.
58. Hermosilla S, Metzler J, Savage K, Musa M, Ager A. Child friendly spaces impact across five humanitarian settings: a meta-analysis. BMC Public Health. 2019;19(1):576. https://doi.org/10.1186/s12889-019-6939-2.
59. Metzler J, Savage K, Yamano M, Ager A. Evaluation of child friendly spaces: an inter-agency series of impact evaluations in humanitarian emergencies [Internet]. New York and Geneva: Columbia University Mailman School of Public Health and World Vision International; 2015. [cited 2021 Mar 24]. Available from: https://www.researchgate.net/publication/285955695_Evaluation_of_Child_Friendly_Spaces_An_inter-agency_series_of_impact_evaluations_in_humanitarian_emergencies.
60. Morris Z, Wooding S, Grant J. The answer is 17 years, what is the question: understanding time lags in translational research. J Roy Soc Med. 2011; 104(12):510–20. https://doi.org/10.1258/jrsm.2011.110180.
61. Curran GM, Bauer M, Mittring B, Pyne JM, Steffler C. Effectiveness-implementation hybrid designs. Med Care. 2012;50(3):217–26. https://doi.org/10.1097/MLR.0b013e3182489112.
62. Bernet AC, Willens DE, Bauer MS. Effectiveness-implementation hybrid designs: implications for quality improvement science. Implement Sci. 2013; 8(1):52. https://doi.org/10.1186/1748-5908-8-51-S2.
63. Damschroder LJ, Moin T, Datta SK, Reardon CM, Steinle N, Weinreb J, et al. Implementation and evaluation of the VA DPP clinical demonstration protocol for a multi-site non-randomized hybrid effectiveness-implementation type III trial. Implement Sci. 2015;10(1):68. https://doi.org/10.1186/s13012-015-0250-0.
64. Ma J, Yank V, Lv N, Goldhaber-Fiebert JD, Lewis MA, Kramer MK, et al. Research aimed at improving both mood and weight (RAINBOW) in primary care: a type 1 hybrid design randomized controlled trial. Contemp Clin Trials. 2015;43:260–78. https://doi.org/10.1016/j.cct.2015.06.010.
65. Smith JD, Stormshak EA, Kavanagh K. Results of a pragmatic effectiveness-implementation hybrid trial of the family check-up in community mental health agencies. Admin Pol Ment Health. 2015;42(3):265–78. https://doi.org/10.1007/s10488-014-0566-0.

Publisher’s Note
Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Ready to submit your research? Choose BMC and benefit from:
• fast, convenient online submission
• thorough peer review by experienced researchers in your field
• rapid publication on acceptance
• support for research data, including large and complex data types
• gold Open Access which fosters wider collaboration and increased citations
• maximum visibility for your research: over 100M website views per year

At BMC, research is always in progress.
Learn more biomedicalcentral.com/submissions