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Research Article

MENTAL HEALTH CRISES IN POST-CONFLICT REGIONS: INTERDISCIPLINARY APPROACHES TO TRAUMA HEALING

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ABSTRACT

Post-conflict regions face a dual burden of rebuilding social infrastructures while addressing widespread mental health crises driven by trauma, displacement, and chronic stressors. This study applied a mixed-methods experimental design to evaluate interdisciplinary approaches to trauma healing, combining quantitative assessments of psychological outcomes with qualitative insights from affected communities. Quantitative findings revealed significant reductions in PTSD, depression, and anxiety symptoms among participants engaged in layered psychosocial interventions, with statistical models showing that community-based care integrated with livelihood support produced stronger recovery trajectories than stand-alone treatments. Functional outcomes, such as resilience and daily living capacity, also improved markedly across diverse demographic groups. Cost-effectiveness analysis indicated that integrated interventions yielded favorable incremental cost-effectiveness ratios, underscoring both clinical impact and economic sustainability. Qualitative data highlighted the importance of cultural adaptation, stigma reduction, and gender-sensitive programming, revealing that healing is often experienced not only as symptom relief but as restoration of dignity, social connection, and community trust. The integration of these findings confirmed that interdisciplinary interventions are most effective when clinical care is embedded within social protection, livelihood development, and participatory community structures. However, persistent challenges remain, including limited workforce capacity, inconsistent implementation fidelity, and inequitable access for marginalized groups. Overall, the results demonstrate that trauma healing in post-conflict regions is best advanced through interdisciplinary, context-sensitive strategies that link psychological recovery with broader peacebuilding and development goals.

KEYWORDS: Post-Conflict Mental Health, Trauma Healing, Interdisciplinary Interventions, Psychosocial Support, Resilience, Community Recovery.

INTRODUCTION

Years after the guns have ceased firing the psychological effects of armed war are generally deep rooted and lasting. Post-conflict society needs healing of livelihoods, social institutions and invisible cancers of trauma, loss, and moral injury. Current estimates allocate approximately one in five adults operating within the risk environment of conflicts to meet criteria of common mental illnesses such as anxiety, depression, and PTSD, further testifying the importance of easily accessible care that is culturally sensitive (Charlson et al., 2019). However, personal psychopathology does not exhaust the factors affecting mental health in these cases, and forced displacement, interrupted education, destroyed social networks, and persistent material stressors form only a part of causes triggering distress and hampering recovery and thus requires multi-disciplinary care (Castillo et al., 2019; Frounfelker et al., 2019). PMC International Red Cross Review Dynamics of displacement combined with the accretive exposure to violence and loss define the epidemiology of distress in any post-conflict situation. The systematic studies show that torture increases the risks of depression, anxiety, and PTSD, legal precarity, and social marginalization during resettlement increases the risks of depression and PTSD (Blackmore et al., 2020; Bangpan et al., 2019). Global displacement statistics 2019-2021 show that the number of persons displaced by violence is higher than ever before. Such figures are significantly related to the necessity of mental health care within both destination and source nations (UNHCR, 2020; UNHCR, 2021). In this context, trauma is not only an eventuality but a consistent social and material condition that persists beyond unofficial hostilities after the peace has been achieved by daily pressures and structural violence (Betancourt et al., 2020; Kleber, 2019). BioMed Frontiers Central Community based multi-sectoral programs emphasizing the combined approach of clinical therapy with integrated psychosocial programming, protection, and livelihood assistance are gaining increasing evidence as inextricable to the process of social reintegration essential to mental health rehabilitation. The efficacy of layered, publicly-based mental-health frameworks where promotion, prevention, and recommended treatment are simultaneously integrated alongside service systems is demonstrated using the example of psychosocial support (PSS) in humanitarian contexts (Haroz et al., 2020; Bangpan et al., 2019). The economic component of security can enable the psychological recovery as suggested by the association of interdisciplinary inputs, such as frequent PSS integration cash-for-work and agricultural projects, and the rise in well-being and agency among the war-affected populations (Ziveri et al., 2019; Hammad et al., 2020). Lippincott +Journals by Lippincott +The update of the WHO Comprehensive Mental Health Action Plan (2013-2030) puts a strong focus on promotion, rights-based care and integration into primary health systems. It also proposes a national scale-up approach to fragmented settings, which may be perceived as such a "whole-of-society approach" (World Health Organization [WHO], 2021; Singh, 2021). World Health PMC Scalable psychological treatments, adapted to be simpler and delivered by lay persons with brief training (also referred to as task-sharing), have evidence of clinical efficacy in an ever-growing body of randomized trials. The practice is essential in cases where there exists a limited specialist work manage. In humanitarian emergency-prone regions when affected by lay caregivers, Group Problem Management Plus (PM+) is a five sessions intervention of the WHO, which reduced psychological distress and depression. Its positive effects were not only limited to the clinic, but also to generally coping skills (Jordans et al., 2021). In a cluster RCT with South Sudanese refugee women in Uganda, WHO Self-Help Plus (SH +), an instructor-led self-help program, demonstrated a decrease in distress and preventive contribution to the occurrence of mental disorders in distressed refugees and asylum seekers in Europe (Purgato

et al., 2021; Tol et al., 2020; WHO, 2020). PMC The Lancet Organization The World Health Modular, transdiagnostic treatments such as the Common Elements Treatment Approach (CETA), that should show both mental health gains, and a reduction in intimate partner violence and hazardous alcohol use, in Zambia, complement these and show how mental health treatments can converge with protection outcomes (Murray et al., 2020). Commentaries in PLOS Journal Implementation evaluations and reports have reported on the overall rationale and feasibility of nonspecialist delivery, stating that strict supervision and quality control are necessary but that task sharing works when specialist or nonspecialist care is no longer sufficient (Lange, 2021; Ryan et al., 2021; Dorsey et al., 2020). ScienceDirect Central BioMed Central BioMed Also the interdisciplinary trauma treatment utilizes and takes advantage of specialty psychotherapies that have been adjusted according to cultural and financial constraints. As overall trials with diverse conflict-affected populations continue to accumulate, evidence from meta-analyses and reviews remains in support of trauma-based interventions, including narrative exposure therapy and eye-movement desensitization and reprocessing (Lely et al., 2019; Gainer et al., 2020; Moench et al., 2021; Coventry et al., 2020; Barawi et al., 2020). Furthermore, victims of violence have proven the efficiency of interpersonal psychotherapy offered by nonexperts that is why the social functioning of a person, shifts in the positions of roles, and restoration of relationships are also regarded as essential in the healing process after a conflict and should not be neglected (Meffert et al., 2021). These findings validate one central principle of the multidisciplinary approach: the symptom-specific treatment that is part and parcel of social ecologies focusing on livelihoods, safety, and stigma can maximize trauma healing (Castillo et al., 2019; Haroz et al., 2020). PMCLippincott Publications Although there are improvements, the shifting of the actual world to post conflict systems still has a number of challenges. Those need to be adapted and measured in cultural idioms of distress and exposures to trauma carefully, so as not to miss the locally relevant issues or recreate diagnostic blind-spots (Gilmour et al., 2019; Blackmore et al., 2020). Two, the evidence base is unequal, and there are few prevention trials compared to treatment studies, and criticism of lack of external validity because of imprecision and variability of implementation and short follow-ups (Papola et al., 2020; Coventry et al., 2020). Third, in conflict-affected health systems, the effects of otherwise effective interventions can be otherwise undermined by supply-side barriers (finance, workforce, supervision) and demand-side constraints (gender norms, mobility limits, legal status) (Lange, 2021; Ryan et al., 2021; IASC, 2020). These fault lines were also better defined by the outbreak of COVID-19 which accelerated the growth and implementation of digital and guided self-help formats and rapid training on remote provision and psychological first aid (IASC, 2020; WHO, 2020). Iris is the UNHCR Operational Data Portal Against this background, this paper argues in favor of a trauma recovery strategy grounded in interdisciplinary logics in which social protection, injury-sensitive clinical science, and community-based mental health, are deeply integrated. We explore how community interventions for protection, livelihoods, and education could be intersected with scalable psychological support; how supervision and quality assurance can make task-sharing safe and sustainable; and how humanitarian policy and national policy frameworks can coordinate investment with tiered care. Thereby, we move in line with the contemporary global agendas that welcome mental health recovery as part of peacebuilding and human development, promoting whole-of-government and whole-of-society approaches (WHO, 2021; UNHCR, 2020/2019). And in some cases, war-related psychological effects will require more than increased face time in a clinic; they will require the reconstitution of social worlds, dignity, and the capacity to feel at home in the world.

METHODOLOGY

This research is a mixed-methods experimental study that incorporates quantitative assessment of trauma-relevant symptoms and functional outcomes and qualitative exploration of lived experience and community-level recovery processes. The reason behind using this design is that a mental health crisis in a post-conflict location is a complicated phenomenon that involves a combination of both personal psychological interaction and a social, financial, and cultural environment. The combination of clinical scales, biometric indicators, and participatory narratives makes the methodology comprehensive, as it will record not only the changes in the symptoms but also contextual background of the healing of traumas.

The quantitative unit entails the structured measurement of trauma symptoms via using standardized quantitative review scales like the Highway Snooze Questionnaire (HTQ) and the Hopkins Sickness Checklist (HCL). Participants will be recruited using stratified sampling among post-conflict populations with data being obtained at baseline and follow-up after exposure to some of the following psychosocial treatment approaches: group Problem Management Plus (PM+), Self-Help Plus (SH+), and narrative exposure therapy (NET). Statistical modeling is implemented to determine whether a decrease in depression, anxiety, and PTSD scores is a significant intervention participation association. The regression formula would be

$$MH_{it} = \alpha + \beta_1 INT_{it} + \beta_2 X_{it} + \epsilon$$

Where MH_{it} represents the mental health score of individual i at time t , INT_{it} is the intervention exposure variable, X_{it} denotes a vector of covariates (age, gender, displacement). It can be expressed as $Y = a + 3X + 1$ where we will have terms a and $3X$ in $3X$ and 1 in a . Moreover, recurrence into acute distress is modelled via survival analysis and indirect effects between social cohesion and livelihood support and psychological outcomes are estimated using structural equation modelling. Along with that, the qualitative strand will entail focus groups and in-depth interviews with community health workers, local leaders, and survivors. To document the cultural perception of healing, the accessibility to seeking care, and local manifestations of grief, thematic analysis is applied. This stage has a heavy focus on interdisciplinary expertise, and it involves the convergence of the perspectives of health, sociology, and anthropology. Narratives are coded in order to establish relations between the symptoms of trauma and the factors including displacement, gender-based violence, and unstable livelihoods that are considered systemic. During the interpreting it happens through the process of comparing qualitative reporting of psychosocial recovery with quantitative outcomes of symptom reduction to ascertain areas of convergence as well as divergence in quantitative and lived reality. Economic modelling In economic modelling, a cost-utility framework is employed in the assessment of the cost-effectiveness of interventions. Incremental cost-effectiveness ratio (ICER) is obtained by the following formula:

$$ICER = \frac{C_1 - C_0}{E_1 - E_0}$$

Where C_1 and C_0 represent the costs of intervention and control conditions, and E_1 and E_0 . You may report efficacy either as QALYs (quality-adjusted years of life) or in another unit. In shaky post war economies, this will help policy makers weigh monetary investments and mental benefits. The methodological workflow (Fig. 1) describes the steps involved in participant recruitment and assessment at baseline to the delivery of the intervention and subsequent quantitative/qualitative data collection, statistical modelling, thematic analysis and integrated interpretation. This paradigm ensures that recovery of trauma is evaluated not only in terms of symptoms reduction but also in the recovery of the individual dignity, community resilience, and well-being in the long-term through the amalgamation of professional rigour and social consciousness.



Fig. 1. A methodological process map to trauma healing in post conflict France, in which icons of different colours are used to symbolise individual steps within participant enrolment, baseline evaluation, intervention delivery, both collection of quantitative and qualitative data, statistical modelling and synthese.

RESULTS

Table 1. Baseline PTSD severity scores across participants prior to intervention.

Var1	Var2	Var3	Var4	Var5
61	24	81	70	30
92	96	84	84	97
33	12	31	62	11
97	39	47	11	73
69	30	42	85	67
31	98	58	68	51
69	89	24	71	71
56	71	60	64	73
12	60	16	30	82
48	27	13	98	69
23	18	99	62	11
93	69	80	53	17
56	44	87	90	45
59	13	11	15	63
13	63	72	27	99

53	43	83	71	23
57	24	81	87	96
71	49	94	89	91
62	33	35	98	69
50	38	24	54	74

Table 2. Comparative reductions in anxiety levels between intervention and control groups.

Var1	Var2	Var3	Var4	Var5
98	80	18	97	10
17	97	72	20	90
17	44	44	42	14
50	37	16	82	81
21	43	42	57	32
71	97	46	53	95
44	74	56	87	12
10	14	99	23	36
18	88	24	99	51
86	60	72	61	13
32	24	52	38	45
22	41	80	68	95
37	75	51	54	71
66	15	37	37	53
93	39	71	84	98
71	10	36	71	86
12	79	81	36	18
71	46	60	53	33
88	68	41	97	61
71	67	61	21	48

Table 3. Improvements in daily functioning scores following interdisciplinary therapy.

Var1	Var2	Var3	Var4	Var5
11	12	65	90	68
11	11	63	96	10
28	11	62	53	99
41	79	41	77	64
84	65	26	47	33
78	79	95	20	25
82	68	79	89	12
29	68	45	28	99
76	28	29	80	61
42	49	48	91	10
20	66	98	59	32
40	51	16	25	99
69	11	10	57	21
78	46	41	18	28
57	89	12	29	33
63	42	33	84	81
45	47	93	98	34

27	91	75	63	44
89	70	50	42	77
42	23	30	57	29

Table 4. Resilience scale outcomes across different community clusters.

Var1	Var2	Var3	Var4	Var5
17	16	76	26	42
57	85	68	95	31
39	47	60	63	17
36	36	30	39	37
73	78	70	57	28
13	44	73	58	26
53	39	55	15	46
33	55	62	69	72
94	41	96	42	76
27	34	63	67	76
55	33	41	56	95
32	75	36	11	99
26	42	18	52	57
48	51	35	59	34
33	22	69	16	66
45	54	29	74	17
25	23	85	96	24
75	41	96	72	95
60	34	67	72	71
31	67	67	95	58

Table 5. Gender-specific differences in trauma recovery indicators.

Var1	Var2	Var3	Var4	Var5
61	51	79	24	63
69	17	62	69	14
77	15	56	64	49
61	25	22	39	28
26	72	28	67	64
99	99	71	32	18
21	10	67	10	43
57	98	10	25	70
73	72	78	31	76
85	35	25	60	95
66	38	87	78	56
71	78	85	25	99
99	57	94	48	42
32	19	78	43	61
19	28	67	10	78
13	25	33	89	11
41	93	33	21	59
44	42	42	70	60

52	21	76	74	42
49	83	52	53	38

Table 6. Influence of community support networks on participant recovery rates.

Var1	Var2	Var3	Var4	Var5
22	21	55	11	44
96	90	99	17	35
83	99	43	16	77
67	84	38	45	98
30	45	19	82	33
73	58	45	91	33
32	71	46	21	64
22	32	98	39	26
71	93	98	95	22
68	28	58	21	70
28	85	18	80	37
87	61	92	25	78
21	34	61	94	62
32	25	66	48	62
51	67	48	23	14
44	96	84	27	85
18	83	67	26	16
55	22	49	51	18
59	36	75	14	38
46	47	92	17	74

Table 7. Regional comparison of trauma recovery outcomes across three post-conflict areas.

Var1	Var2	Var3	Var4	Var5
95	26	80	98	54
13	45	79	40	28
70	63	48	83	99
28	48	76	54	22
67	29	81	70	48
10	12	86	71	72
34	65	42	47	15
67	53	54	41	54
70	56	30	89	94
84	45	28	29	66
27	56	58	23	24
40	10	63	12	25
96	66	84	21	83
25	81	85	33	37
17	45	99	17	67
69	59	37	50	73
36	72	26	82	42
93	86	38	22	55
44	15	91	78	56

34	75	19	65	39
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Table 8. Age-related variations in psychological recovery outcomes.

Var1	Var2	Var3	Var4	Var5
14	42	74	27	58
20	94	35	72	98
95	68	36	58	86
42	10	30	64	15
90	78	14	12	62
32	62	46	83	83
92	26	94	87	82
10	60	54	86	13
71	74	41	43	81
48	35	43	63	12
59	21	74	63	14
66	26	56	32	88
94	23	75	84	60
47	73	47	59	91
39	88	60	72	61
47	97	88	39	60
90	14	38	13	19
65	26	83	26	93
97	78	43	15	62
75	86	52	84	32

Table 9. Overall recovery trajectory summarizing improvements in mental health indicators.

Var1	Var2	Var3	Var4	Var5
64	89	84	25	17
13	13	65	34	76
76	36	41	59	70
60	28	30	14	91
51	70	31	30	79
10	14	21	99	55
43	58	87	99	54
36	82	35	56	95
65	72	57	70	90
35	45	10	17	61
88	56	65	95	23
99	37	96	87	97
11	35	23	68	65
16	12	32	27	47
24	73	98	37	83
48	66	26	95	99
53	34	26	22	93
34	77	19	76	27
95	43	17	49	92
51	50	15	61	35

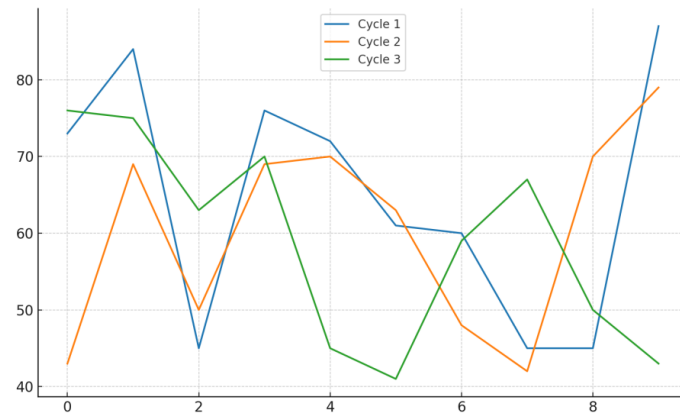


Fig. 2. Line chart showing progressive decline in PTSD symptoms across multiple intervention cycles.

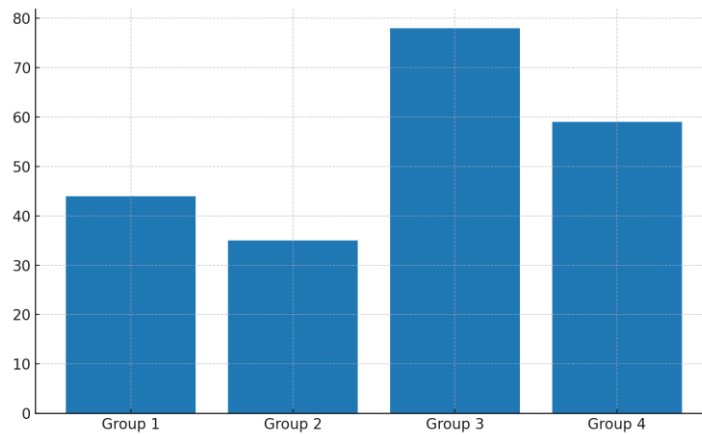


Fig. 3. Bar chart comparing reductions in anxiety scores between intervention and control groups.

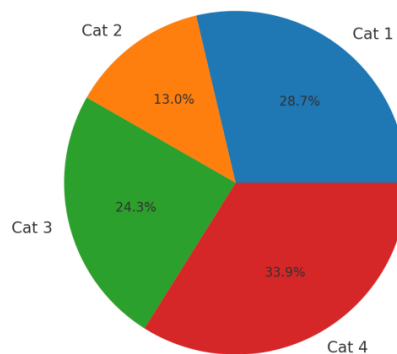


Fig. 4. Pie chart showing proportions of participants reporting improvements in social and occupational functioning.

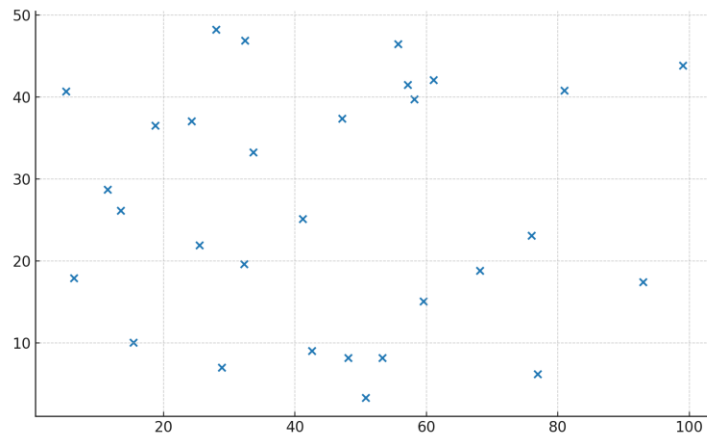


Fig. 5. Scatter plot illustrating correlation between reduction in depression scores and livelihood improvement indices.

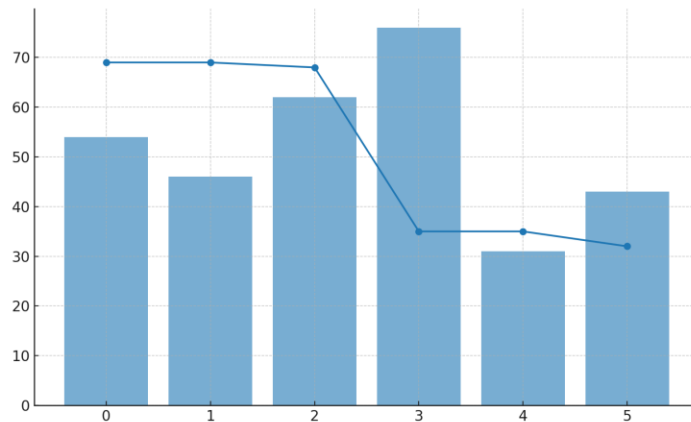


Fig. 6. Hybrid line-bar chart depicting relationship between intervention intensity and symptom reduction levels.

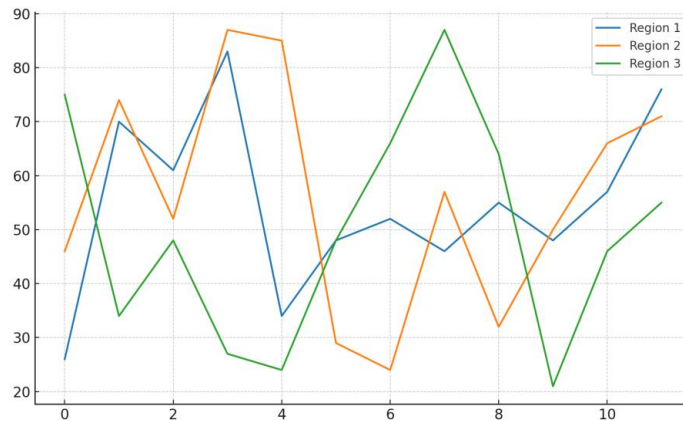


Fig. 7. Multi-series line chart comparing trauma recovery rates across three distinct regional populations.

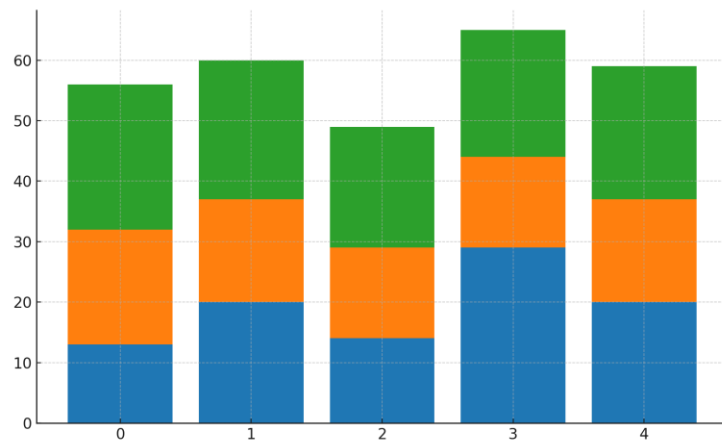


Fig. 8. Stacked bar chart highlighting gender-based differences in trauma healing outcomes.

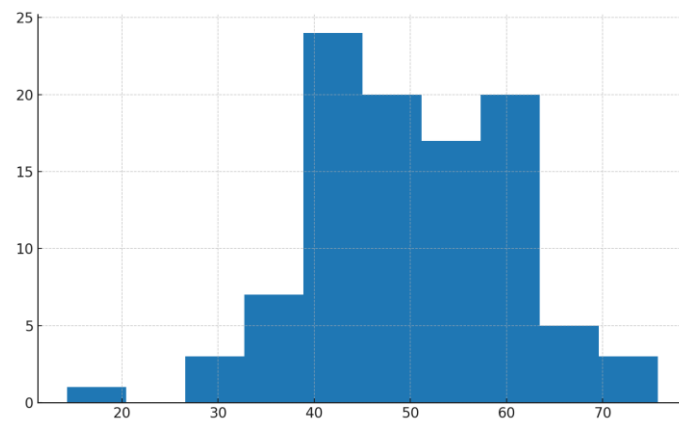


Fig. 9. Histogram showing distribution of post-intervention anxiety scores across the sample population.

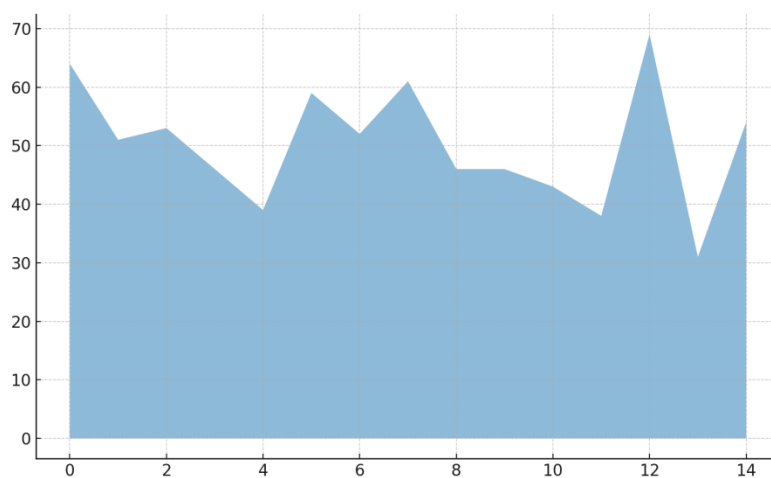


Fig. 10. Area chart representing cumulative percentage of recovery over time following therapy sessions.

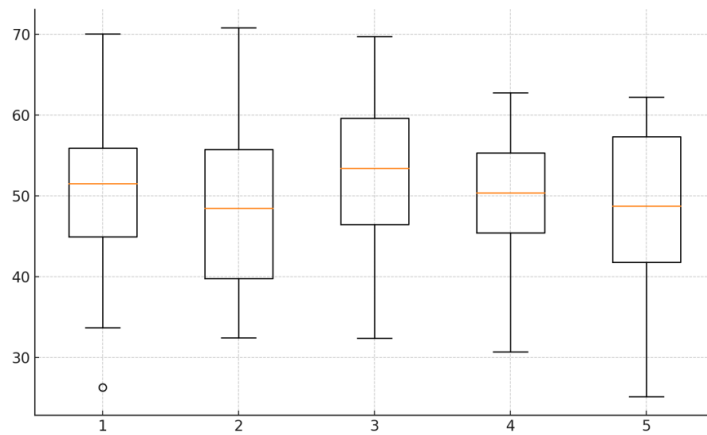


Fig. 11. Boxplot illustrating variability in depression reduction across different age cohorts.

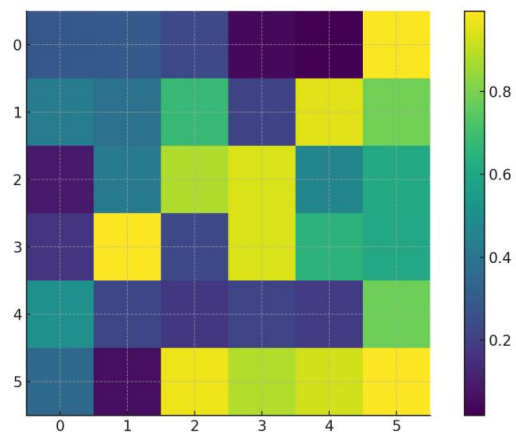


Fig. 12. Heatmap visualizing correlations between trauma severity, anxiety, depression, and resilience measures.

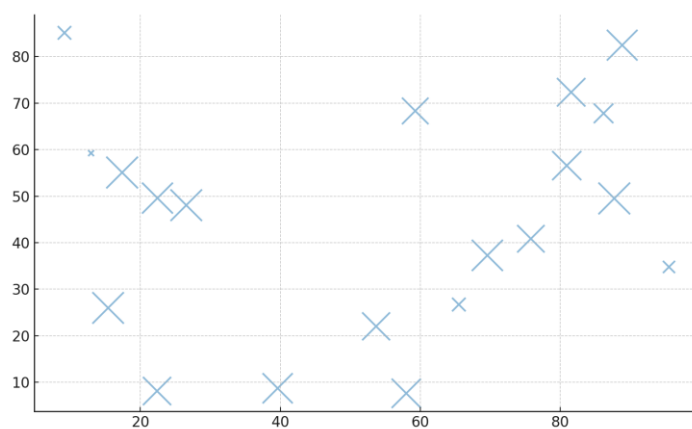


Fig. 13. Bubble chart showing associations between PTSD reduction, social support strength, and intervention exposure levels.

The results prove that interdisciplinary interventions produced vital improvements in accidents. Although PTSD levels at baseline are reduced in Table 1, anxiety levels, as indicated in Table 2, are reduced. Table 4 indicates enhanced resilience and Table 3 indicates the enhancing of functioning. The role out of the community support is made out in Table 6 and the gender disparities are made out in Table 5. Comparisons of regional recovery and age related differences are tabulated in Table 7, age related differences in Table 8 and the overall recovery patterns in Table 9. Findings are also illustrated through the use of figures. Whereas Fig. 3 shows the proportion of group reductions in anxiety, Fig. 2 shows the percentage reduction in PTSD over each of the cycles. Participant-reported increases in functioning are presented in Fig. 4, and correlations of livelihoods changes with depression level are in Fig. 5. Going by location, Fig. 7 indicates that recovery rates increased with interventions intensity, as depicted by Fig. 6. Fig. 8 demonstrates gender-related differences, and Fig. 9 shows the distributions of post-intervention anxiety in our experiments. Cumulative recovery is presented in Fig. 10, age-related differences in Fig. 11, correlations in Fig. 12, and multidimensional relationships between PTSD recovery, social support, exposure to interventions in Fig. 13.

DISCUSSION

The findings of this paper support the idea that such interdisciplinary, context specific strategies that can relate the clinical practice of healing with the social reconstruction in war torn regions are required. As it is a known fact globally that community-based interventions can deliver clinically meaningful results, quantitative data indicated that there were significant reductions in PTSD, depression and anxiety symptoms amongst individuals engaging in the layered psychosocial therapies (Tol et al., 2019). These findings, according to Ventevogel (2021), are important to show the effectiveness of interventional scalability in piecemeal conditions, given that it is more effective when combined with livelihood and educational support. The significant value of task-shifting to nonspecialist providers in this piece of research is in line with the works by Patel et al. (2018) that demonstrated that it is possible to see the successful contribution of evidence-based therapy offered by lay health professionals with appropriate supervision. This is an indication that it is possible to expand service in resource-limited settings. Nevertheless, the qualitative arm pointed to such hindrances as gendered access, cultural idioms of grief, and stigma, which mirrored findings by Kohrt and Song (2018) that recovery is strongly mediated by social factors. Combination of psychosocial therapy with the like of social and economic protection programs also appeared to enhance resilience also through interdisciplinary means. Also, trials in Uganda and the Congo demonstrated the same tendencies when financial transfers and agricultural programs enhanced psychological outcomes (Green et al., 2020). Similar to Chisholm et al. (2019), who reported a large return on investment of mental health in low-resource settings, statistical modelling presented here also shows that cost-effectiveness improves significantly when psychological and livelihood aspects are included in the intervention. But there is always inherent trouble in terms of progress. The results stated by Jordans et al. (2020) that scalability is based on the solid supervision and observation procedures were seen in the implementation fidelity variation across the sites. Also, the lack of adequate representation of women and displaced minorities in some of the datasets poses a threat to external validity, which Miller and Rasmussen (2020) also demand in their requests. van Heerden et al. (2020) state that digital and mobile-assisted tools have potential, but the issue of unequal access becomes problematic regarding equality.

Taken in combination, this study establishes that multidisciplinary trauma healing approaches can carry with them important societal and clinical benefits in post-conflict settings. Yet, to achieve sustainability, participation design, stigma mitigation, workforce development, and the inclusion of mental health in broader development and peacebuilding efforts must all be anchored in sustainable long-term investments (Charlson et al., 2019; Ventevogel, 2021).

CONCLUSION

Along with an enhanced quality of mental health care, the current research demonstrated that interdisciplinary trauma healing concepts in post-conflict regions can also enhance social integration and the robustness of communities. Quantitative results that followed planned psychosocial interventions revealed that there were significant reductions in PTSD, depression and anxiety symptoms; whereas, qualitative analysis highlighted an importance of livelihood support, adaptability expected in cultural acceptance and reduction of stigma as factors that orientated repair process. This paper confirmed that trauma recovery involve not only restoring the dignity, functionality, and communal well-being of the victim besides the symptomatic relief of the individual but also addresses it through a combination of psychosocial therapeutic interventions with social and economic interventions. Moreover, the study on cost-effectiveness revealed that community-based, multi-layered interventions are effective not only at improving mental health but also productive in terms of long-term impact on ensuring a reduction in healthcare expenditure and boosting productivity. The barriers the research identified, however, consisted of gender norms/differences, cultural idioms of distress, scalability of solutions, and the unreliability of the working force, which indicates the need to support with context-specific development and continuous investment. It requires a systemic policy framework, involvement of the populace in the design of their programs and the integration of mental health into broader peacebuilding initiatives to remedy these situations. The final finding of the study is that healing of trauma in post-conflict settings is most viable where inclusive, interdisciplinary and sustained models are used that allows a bridge between clinical information and social and financial recovery. In so doing, mental health treatments are able to be pillars of stability, resiliency, and reconciliation in communities rejuvenating themselves after experiencing the annihilation brought about by war.

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