



## Systematic Review to Assess Peer Support Efficacy in Mental Health Recovery



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### Abstract

**Background:** Peer support is becoming recognised as a key element of recovery-oriented mental health care due to growing evidence of its beneficial benefits on hope, empowerment, and social connectivity. However, there is ongoing disagreement over its therapeutic effectiveness and system-level integration.

**Objective:** Analysis of the studies on peer support interventions in mental health recovery was carried out through latest research studies published in the last 5 years focusing on emerging concerns, implementation, efficacy, and technology developments.

**Methodology:** A comprehensive search of PubMed, PsycINFO, and Scopus yielded peer-reviewed papers, including implementation assessments, systematic reviews, qualitative investigations, and randomised controlled trials. The studies were subjected to critical appraisal and theme analysis.

**Results:** These studies showed that peer support was consistently associated with increase in individual recovery outcomes, despite inconsistent findings about symptom reduction and service use. High-fidelity interventions with systematic training and supervision demonstrated the biggest impact. Digital peer assistance expanded rapidly during the COVID-19 epidemic, proved to be quite effective, but it still requires further studies to ascertain its longterm impacts. Population-specific adjustments (e.g., juvenile, perinatal, refugee, and substance use settings) yielded promising results. The primary challenges were role uncertainty, worker well-being, stigma among the clinical team, and a lack of cost-effectiveness evidence.

**Conclusions:** Peer support offers unique recovery-oriented benefits and improves clinical care. To maximise impact, future research should prioritise cost-effectiveness evaluations, workforce sustainability methods, largescale trials in diverse situations, and standardised recovery outcomes. Peer roles must be included into mental health systems while remaining faithful to lived-experience principles and structural supports if substantial and long-lasting change is to occur.

**Keywords:** Peer Support; Mental Health Recovery; Lived Experience; Digital Interventions; Recovery-Oriented Practice; Implementation Science

### Introduction

The last two decades have seen a paradigm shift from symptom-focused treatment, towards personcentred, holistic methods. Among others, peer support is emerging as a crucial element of recoveryoriented mental health care [1]. Peer support is typically defined as emotional, social, and practical assistance provided by others who have gone through mental health problems and recovery, themselves [2]. Unlike typical professional partnerships, peer support emphasises mutuality, empowerment, and hope, and it often challenges hierarchical forms of care [1]. In mental health services around the world, peer support roles—which can include anything from group-based therapies and oneon-one peer mentorship to the inclusion of peer experts in multidisciplinary teams—are becoming increasingly a subject of interest [1-3].

Due to international commitments to strengthen recovery-oriented systems, policy support, and consumer advocacy, the number of empirical research evaluating peer support programs has dramatically expanded in recent years [1]. Peer support may improve subjective recovery outcomes including hope, self-efficacy, empowerment, and social connectivity, while research on its effects on clinical symptoms, hospital readmissions, and functional results is still equivocal. Since the advent of digital technology, peer support has spread to include online platforms and mobile health

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interventions, broadening its reach across age groups, geographic locations, and service contexts [4, 5].

Despite this growing body of research, significant issues remain regarding mechanisms of action, costeffectiveness, commitment to peer ideals, and the long-term sustainability of peer positions in varied cultural and resource circumstances [6, 7]. Furthermore, the rapid expansion of digital peer assistance during the COVID-19 pandemic has created both new potentials as well as challenges that should be carefully evaluated [6]. In order to guide practice, policy, and future research, it is imperative to gather the most up-to-date information on the effectiveness, application, and lived experience of peer support in mental health recovery [8].

This review aims to critically assess and integrate results from recent studies (2020–2025) using implementation science literature, systematic reviews, randomised controlled trials, and qualitative research. The topics covered include population-specific evidence, challenges, research gaps, supervision and training, digital peer support, implementation approaches, effectiveness (personal and clinical recovery), and more. Evidence of peer support's effectiveness across outcomes, delivery modalities, digital innovations, population-specific interventions, peer workforce difficulties, and growing gaps that require further research are specifically identified in the review.

## Methodology

### Design

Guidelines on "Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA)" were followed for carrying out this systematic review.

### Search Strategy

This systematic review employs strategies and techniques to identify a reliable sample that is pertinent to the peer support interventions for psychiatric patients. To gather the pertinent papers for the review from the previous five years, a search was conducted in the PubMed, Scopus and PsychINFO databases. These databases are frequently used to find pertinent research articles for systematic reviews [9]. The research articles were searched using the keywords: ("peer support"), AND ("determinants", OR "patient experiences") AND "mental health" from the title or abstract.

These search terms were adopted from earlier review papers with a similar purpose. In order to find other research publications, we also manually searched the references of a few chosen research papers. In order to prevent duplication and follow the proper reporting guidelines, the references of every study that was included were also double-checked.

### Eligibility Criteria

This systematic review covered experimental, qualitative, quantitative, and review-based papers that were published in high-impact Quartile journals[10]. Further, papers were counted in if they (1) explored peer support and patient experience in mental health recovery; (2) shared lived experiences; (3) compared patient satisfaction and determinants in two or more study settings; (4) assessed the association between peer support interventions and psychiatric patient characteristics; (5) scoping, systematic or thematic reviews on peer support interventions. For the study, peer-reviewed research articles written in English and published between 2020 and 2025 were taken into consideration (Figure 1). The study did not include government reports, conference proceedings, book chapters,

abstracts, proceedings, editorials, theses, duplicates, or commentaries. Studies on people under the age of 18 and children caretakers were not included in this study.

### Study Selection

The abstracts and titles of the studies were examined separately by two authors. In circumstances where there was disagreement, the case was forwarded to the third author for confirmation. The Kappa inter-rater reliability value was calculated in order to evaluate the inter-author bias. A high degree of author agreement with the selection of the work for inclusion is indicated by the calculated kappa coefficient of 0.62. The full-text papers were assessed by all three authors in relation to the eligibility requirements. Papers that satisfied the eligibility requirements or for which we lacked the whole manuscript were not included in the analysis. Lastly, the study only included the 65 research publications that satisfied the eligibility standards.

### Data Extraction

To compile the corpus of literature, a thorough content analysis was conducted. The authors extracted the data from the sixty five studies and entered it into a pre-curated data extraction sheet. In contact with the third author, differences over the misrepresented facts were resolved.

### Data Analysis

All sixty five papers were thoroughly examined, leading to highest possible data extraction. In terms of the theoretical background and the scales used to assess the study's constructs, context, and findings, it was noted that the publications were naturally somewhat diverse.

## Results and Discussions

A review of 65 recent studies found that peer support is now an essential component of recovery-oriented mental health systems worldwide. There is consistent evidence of benefits in areas of personal recovery, notably hope, empowerment, self-efficacy, and social connectivity, but there is more conflicting and context-dependent data regarding clinical outcomes including symptom reduction, relapse prevention, and service utilization. This disparity suggests that peer support is most effective when evaluated in light of recovery-oriented goals as opposed to merely biological measurements [11, 12].

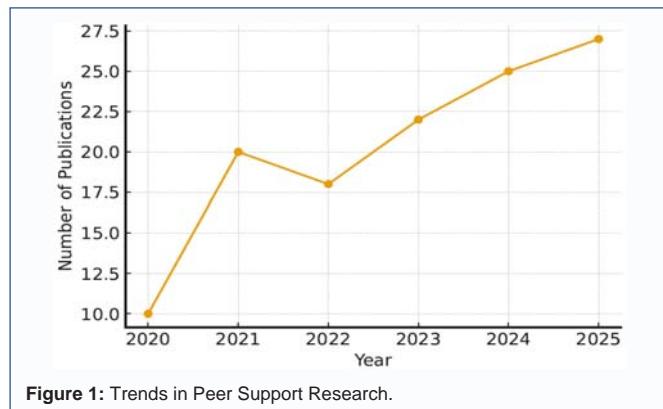
Adherence to peer support principles is a potent mediator of effectiveness, according to implementation studies. Programs that are co-produced with peers and supported by structured training, clear job descriptions, and ongoing supervision tend to yield more favourable outcomes and better sustainability [13, 14]. However, problems like job ambiguity, stigma among clinical teams, and a lack of organisational support jeopardise both the wellbeing of peer workers and the efficacy of interventions [15, 16].

Digital peer support is a promising invention, especially in response to the COVID-19 pandemic. More research is needed to ascertain long-term efficacy, user engagement strategies, and digital equity across populations, even if early randomised trials and pilot experiments show viability and immediate advantages [11, 17]. Similar to this, population-specific adaptations such as peer interventions targeted on substance use, youth, refugees, and prenatal care exhibit encouraging outcomes but require more in-depth and comparative study. The summary of peer support models and key outcomes is tabulated as Table 1.

Despite its growth, there are still a lot of loop holes in the evidence.

**Table 1:** Summary of Peer Support Models and Key Outcomes (2020–2025).

Intervention Type	Setting	Population	Key Outcomes	Representative Studies
One-to-one peer mentoring	Community & outpatient	Adults with severe mental illness	Empowerment, reduced isolation	[3, 18]
Peer-led support groups	Inpatient & community	Mixed adult populations	Hope, self-efficacy, social connectedness	[19, 20]
Digital peer support (apps, online forums)	Virtual platforms	Youth, adults, diverse groups	Feasibility, engagement, short-term symptom relief	[21, 22]
Population-specific peer interventions	Perinatal, refugee, substance use	Targeted vulnerable groups	Tailored support, increased trust, cultural acceptability	[23, 24]
Peer specialists in multidisciplinary teams	Hospitals, community services	Adults with SMI & comorbidities	Mixed evidence on hospitalizations, improved recovery	[25, 26]

**Figure 1:** Trends in Peer Support Research.

Few studies provide in-depth costeffectiveness assessments or discuss sustainability in resource-constrained contexts. Methodological variability, diversity in outcome measures, and the underrepresentation of low- and middle-income countries further limit generalisability [12, 13]. Furthermore, owing to the lack of adequate structural support, peer workers often experience emotional pressure, making workforce welfare an important but little-researched topic [16, 27]. Further findings extracted from the review of the papers are summarized as under:

### Peer Support Overview

Peer support, or help from people who have lived with mental health disorders, have been widely available in services and policy as a recovery-oriented approach. Recent umbrella and systematic reviews have shown that peer support consistently enhances personal recovery outcomes (hope, empowerment, and connectivity). Regarding consistent effects on fundamental clinical symptoms, including depressed or psychotic symptoms, there is, however, inconsistent data.

Adherence to peer principles and the implementation circumstances has a significant moderating effect on the results [1, 17, 28].

### Effectiveness—Individual versus Clinical Results

Peer support had little to moderate effects on measures of self-efficacy, empowerment, and quality-of-life, but less noticeable or inconsistent effects on hospitalisation rates and clinician-rated symptom scales, according to meta-analyses and systematic reviews. For specific populations, peer support offers more evidence; for example, multiple reviews show beneficial results for prenatal mental health and juvenile interventions [29-31].

### Implementation and Delivery Models

One-on-one, group-based, recovery colleges, peer-delivered digital interventions, and integrated roles in multidisciplinary teams

are just a few of the ways that peer assistance can be offered. According to implementation science research, key facilitators include peer co-production, structured training and supervision, clearly defined role descriptions, promoting leadership, and funding/stability for peer roles [15, 32, 33].

### Digital and Remote Peer Support

The COVID-19 epidemic accelerated the development of remote peer services and digital peersupport tools, including applications, moderated online groups, and SMS/text-based interventions. Its feasibility and acceptability have been supported by a few randomised trials that showed short-term benefits in anxiety and help-seeking among teenagers and young adults [34-36].

### Population-Specific Evidence

Peer support has been studied in a number of demographics, such as the elderly, veterans, young people and students, pregnant women, individuals with co-occurring substance use disorders, refugees, and those suffering from serious mental illness. According to trials and reviews, peer support frequently enhances subjective recovery domains across groups; however, clinical symptom improvement varies by group and setting and is more context-dependent [37-40].

### Challenges and Workplace Wellbeing

Peer workers report that their responsibilities are helpful, but they also deal with specific stressors such as burnout risk, role ambiguity, boundary concerns, and insufficient supervision. Research highlights the need for workplace supports such career routes, debriefing, and supervision, as well as the significance of peer staff members' physical and mental health [1, 41, 42].

### Gaps and Future Directions

The reviews' authors regularly call for larger, well-powered RCTs with standardised, recovery-oriented outcomes, cost-effectiveness evaluations, and additional data from low- and middle-income countries. To identify change mechanisms and implementation strategies that maximise sustainability and fidelity, realistic and mixed-methods research is also necessary [1, 43, 44].

### Detailed Thematic Synthesis

#### Effectiveness evidence (quantitative syntheses)

Several comprehensive systematic reviews and meta-analyses published since 2020 have found that peer support regularly increases personal recovery indicators (empowerment, hope, and social connectivity) [11, 17]. Effect sizes vary; according to some meta-analyses, clinical outcomes (readmission, symptom scores) had smaller or less consistent effects than quality of life and self-efficacy. It is interesting to notice that perinatal peer support exhibits stronger symptom reductions in postpartum depression trials [45, 46].

## Qualitative and mixed-methods insights

Qualitative study indicates that peer support reduces stigma and builds trust through mutual identification and shared lived experience[27, 47]. Often cited techniques include sharing practical knowledge (navigating resources), role-modeling for rehabilitation, social support, and validation of experiences[48, 49]. Several mixed-methods trials include qualitative process evaluations that link faithfulness and engagement to outcomes [50].

## Implementation science perspectives

External factors (funding, regulations), internal factors (organisational readiness, culture), personal characteristics (peer competence, lived experience credibility), and implementation procedures (training, supervision, co-production) all influence uptake and results, according to implementation studies using frameworks like Consolidated Framework for Implementation Research (CFIR) [51, 52]. Sites with more commitment to peer principles often report higher participant involvement and better recovery results [53-55].

## Digital and hybrid delivery

Peer coaching and other forms of digital peer support, such as smartphone apps and moderated forums, can potentially reach a larger audience [7, 34]. Adolescent and college student trials show improvements in short-term symptom relief and help-seeking behaviours; mental health trials for serious mental illness (SMI) show promise and improved self-management when combined with peer coaching [29, 56, 57].

## Population adaptation and equity

Task-shared peer models and cultural adaptations show promise in low- and middle-income countries (LMICs), but poor trial quality and intervention heterogeneity hinder definitive findings [58, 59]. In addition to highlighting the benefits of access and culturally aware support, peer interventions for refugees and migrants also advocate for more thorough evaluation techniques [60, 61].

## Economic and system-level outcomes

Excellent economic studies are hard to come by [62]. While the evidence is yet insufficient to draw economic conclusions at the policy level, early research suggests that certain populations may experience cost offsets from reduced acute care usage and increased involvement [63, 64].

## Conclusions

Peer support is a ground-breaking and increasingly evidence-based approach to mental health treatment, with unique benefits that complement traditional professional care. Its efficacy in enhancing individual recovery outcomes and expanding access to support, particularly through population-tailored models and digital platforms, has been validated by research undertaken over the past five years which presents a complex picture. Peer support is generally associated with positive recovery experiences and modest increases in psychosocial outcomes, especially for prenatal depression and self-efficacy [1, 29]. Since its effectiveness in reducing acute symptoms is unclear, peer support might be most effective when included in a broader recovery strategy. Success depends on implementation components including co-design, training, and a supportive culture that maximises the unique contributions of lived experience [1].

Addressing the problems of resource constraints, role ambiguity, and training deficiencies will be crucial. Future research should stratify

by population and model type, quantify meaningful recovery results, and involve peers as research partners. More comprehensive research and sustained system-level commitment are required to fully exploit the potential of peer support as a component of recovery-oriented treatment [65]. Moreover, its clinical impact remains uneven, underscoring the need for outcomes that support rehabilitation's more all-encompassing, person-centred goals. The following should be the top priorities for future directions:

1. Standardised outcome measurement in accordance with recovery concepts.
2. Long-term, extensive randomized control trials carried out in many cultural and economic settings.
3. Economic evaluations to direct funds and policy for sustainability.
4. Integration frameworks that balance respect for peer values with system-level implementation.
5. Programs for wellness and workplace development that protect the viability of peer positions.

In conclusion, peer support is a crucial component of mental health systems, but it is not a panacea. If properly integrated, structurally supported, and evaluated, it can revolutionise recovery-oriented care and advance mental health fairness.

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