

Review

Typology of modifications to peer support work for adults with mental health problems: systematic review

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Background

Peer support work roles are being implemented internationally, and increasingly in lower-resource settings. However, there is no framework to inform what types of modifications are needed to address local contextual and cultural aspects.

Aims

To conduct a systematic review identifying a typology of modifications to peer support work for adults with mental health problems.

Method

We systematically reviewed the peer support literature following PRISMA guidelines for systematic reviews (registered on PROSPERO (International Prospective Register of Systematic Reviews) on 24 July 2018: CRD42018094832). All study designs were eligible and studies were selected according to the stated eligibility criteria and analysed with standardised critical appraisal tools. A narrative synthesis was conducted to identify types of, and rationales for modifications.

Results

A total of 15 300 unique studies were identified, from which 39 studies were included with only one from a low-resource setting. Six types of modifications were identified: role expectations; initial training; type of contact; role extension; workplace support

for peer support workers; and recruitment. Five rationales for modifications were identified: to provide best possible peer support; to best meet service user needs; to meet organisational needs, to maximise role clarity; and to address socioeconomic issues.

Conclusions

Peer support work is modified in both pre-planned and unplanned ways when implemented. Considering each identified modification as a candidate change will lead to a more systematic consideration of whether and how to modify peer support in different settings. Future evaluative research of modifiable versus non-modifiable components of peer support work is needed to understand the modifications needed for implementation among different mental health systems and cultural settings.

Declaration of interest

None.

Keywords

Peer support; mental health; implementation; systematic review.

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Recovery is an approach that focuses on supporting people with mental health conditions to live as well as possible,¹ whether or not symptoms remain.² Recovery-orientation has emerged as a global mental health priority for example in the World Health Organization Mental Health Action Plan 2013–2020,³ and is national mental health policy in many countries such as the UK.⁴ Peer support workers (PSWs) are a visible manifestation of a recovery orientation^{5,6} involving people with lived experience of mental health problems helping others to recover from mental health conditions. PSW roles are being implemented internationally, and increasingly in lower-resource settings as a cost-effective approach to reduce the burden of mental health problems,^{7,8} to address the mental healthcare gap,^{9,10} and as a form of ‘task-sharing’⁹ to help support the service delivery of already strained and overwhelmed mental health systems. Overall, peer support has been identified as a central approach to recovery,¹¹ and is endorsed by psychiatrists.¹²

Some systematic reviews identify the limited evidence base relating to PSWs,¹³ but overall the weight of evidence indicates positive outcomes including empowerment,¹⁴ hope,^{15,16} social relationships,^{17,18} self-efficacy,¹⁹ recovery,²⁰ symptomatology²¹ and reduced readmissions to acute care.²² PSWs are an increasingly common member of the multidisciplinary clinical team, interacting with other professionals yet being asked to retain a ‘lived experience’

identity. For mental health professionals, this can create dilemmas in terms of relationships, issues of confidentiality, ethics, decision-making and role clarity.²³ In order to work effectively with PSWs, a clear understanding of the role and how it is modified in different clinical populations and settings is needed. The aim of this review was to characterise pre-planned modifications (that were planned or allowed for in the design of the intervention arising from decisions made before implementation) and unplanned modifications (made because of unforeseen changes to the intervention that occur after implementation) to mental health peer support work for adults with mental health problems. The objectives were to develop a typology of types of modifications, to characterise the rationales for these modifications, and to identify modifications made specifically in low- and middle-income settings.

Method

The protocol of this systematic review was developed in accordance with PRISMA guidelines²⁴ and registered on PROSPERO (International Prospective Register of Systematic Reviews) on 24 July 2018: CRD42018094832.

Eligibility criteria

We included studies about PSWs supporting adults aged 18 years or older with a primary diagnosis of mental illness, and those that

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explicitly identified modifications including changes, variations or adaptations made before ('pre-planned') or while ('unplanned') implementing a PSW intervention. A modification could be identified in various ways, such as changes to the intervention manual or to the role of the PSW, and an inclusive approach to inclusion was used. We excluded studies that: did not explicitly refer to modifications; had fewer than three participants; and studies that reported on mutual aid, peer-run organisations, naturally occurring peer support, peer navigation interventions and peer support delivered exclusively online. No studies were excluded on the basis of comparators, control conditions, service setting or clinical diagnosis. Included study designs were randomised controlled trials, controlled before and after studies, cohort studies, case-control studies and qualitative studies. Studies were included if reported in English, French, German, Hebrew, Luganda, Spanish or Swahili (chosen as languages in Using Peer Support In Developing Empowering Mental Health Services (UPSIDES) study sites), with a date of publication on or before July 2018.

Information sources

Six data sources were used: (a) electronic bibliographic databases ($n = 11$) searched were Medline (OVID), Embase (OVID), Cumulative Index of Nursing and Allied Health Literature (CINAHL) (EBSCHO), PsycINFO (OVID), Scopus, Web of Science, Google Scholar, OpenGrey, ProQuest Dissertations & Theses A&I, African Journals OnLine, and Scientific Electronic Library Online; (b) table of contents ($n = 9$) of *International Journal of Social Psychiatry, Social Psychiatry and Epidemiology, Psychiatric Services, Journal of Recovery in Mental Health, Journal of Mental Health, Journal of Mental Health Training, Education and Practice, Psychiatric Rehabilitation Journal* and *BJPsych International* (chosen as publishers of PSW studies); (c) conference proceedings of European Network for Mental Health Service Evaluation ($n = 12$ conferences since 1994) and Refocus on Recovery ($n = 4$ conferences since 2010) (chosen as recovery-relevant academic conferences with available proceedings); (d) websites ($n = 10$): <http://peersforprogress.org>; <https://together-uk.org>; <https://mentalhealth.org.uk>; www.mind.org; www.mihinnovation.net; www.inaops.org; www.peerzone.info; <https://cpr.bu.edu>; <https://peersupportcanada.ca>; <https://medicine.yale.edu/psychiatry/prch/> (chosen as they host PSW materials); (e) a preliminary list of included studies was sent to experts ($n = 36$) requesting additional eligible studies; (f) forward-citation tracking was performed on all included studies using Scopus and backward-citation tracking by hand-searching the reference lists of included studies.

Search strategy

The search strategy was adapted from a published systematic review concerning peer support for people based in statutory mental health services.²⁵ The search strategy was modified for each database, and an example of the search strategy used for Medline is shown in supplementary data 1 available at <https://doi.org/10.1192/bjp.2019.264>. All searches were conducted from database inception until July 2018.

Study selection

After removing duplicates, the titles and abstracts of all identified citations were screened for relevance against the inclusion criteria by D.T., with a randomly selected 5% sample independently assessed by R.N. Concordance between the two reviewers was 91%. Full texts were single-screened by D.T. and R.N. then independently extracted data from 55% of included publications, so a randomly selected 10% were independently extracted by both

researchers, who discussed their data extraction to check for adequate agreement.

Data abstraction

For each included publication, information was extracted on (a) study characteristics including study design, study participant inclusion and exclusion criteria, and sample size; (b) mode of intervention delivery; (c) where the intervention was performed including country, and service setting; and (d) pre-planned and unplanned modifications made to the peer support work, and the rationale for planned and unplanned modifications. The data abstraction table is shown in supplementary data 2.

Quality assessment

The Critical Appraisal Skills Programme (CASP) was used to assess the quality of eligible studies. CASP checklists do not provide an overall scoring, so a scoring system used in a previous systematic review²⁶ was applied. Each CASP item rated 'yes' scored 1 point and each item rated 'no' scored 0 points. The percentage score for the 10-item CASP randomised controlled trial checklist, the 10-item CASP qualitative checklist, the 12-item CASP cohort checklist and the 11-item CASP case control checklist was calculated, with studies scoring $\geq 60\%$ graded as good quality, studies scoring 45% to 59% graded as fair quality, and studies scoring below 45% graded as poor.^{27,28}

Synthesis of results

A three-stage narrative synthesis was conducted on included papers,²⁹ modified in line with recent reviews.^{30,31} The four analysts (A.C., R.N., M.S. and D.T.) came from varied professional (nursing, psychology) and disciplinary (health services research, social science, psychotherapy) backgrounds. In stage 1 (developing a preliminary synthesis), modifications and rationales for modifications identified in included studies were synthesised. Findings were tabulated and an initial coding framework was developed, through thematic analysis, to group modifications that were pre-planned and unplanned, and rationales for both types of modification. Vote counting of number of papers identifying each theme was performed, the data were interpreted as providing an initial indication of strength and ordering of themes. This method could have been interpreted as providing an indication of themes more amenable to change rather than strength, however, for the purpose of this paper, vote counting was used to determine the strength of themes. A preliminary draft of the modifications and rationale for modifications was developed and refined by analysts. In stage 2 (comparison between studies), the relationships within and between studies were explored. Identified modifications and rationales were compared between higher-income versus lower-income countries and pre-planned versus unplanned modifications. In stage 3 (assessing the robustness of the synthesis), the findings from subgroup analysis of only good-quality studies was compared with the framework from all included studies.

Results

Included studies

The search identified 15 300 studies, from which 39 were included. The flow diagram is shown in Fig. 1 and the complete data abstraction table including all references is shown in supplementary data 2.

The 39 included studies were predominantly conducted in higher-income countries, comprising USA ($n = 25$), UK ($n = 5$), Canada ($n = 4$), Australia and USA ($n = 1$), Australia ($n = 2$) and

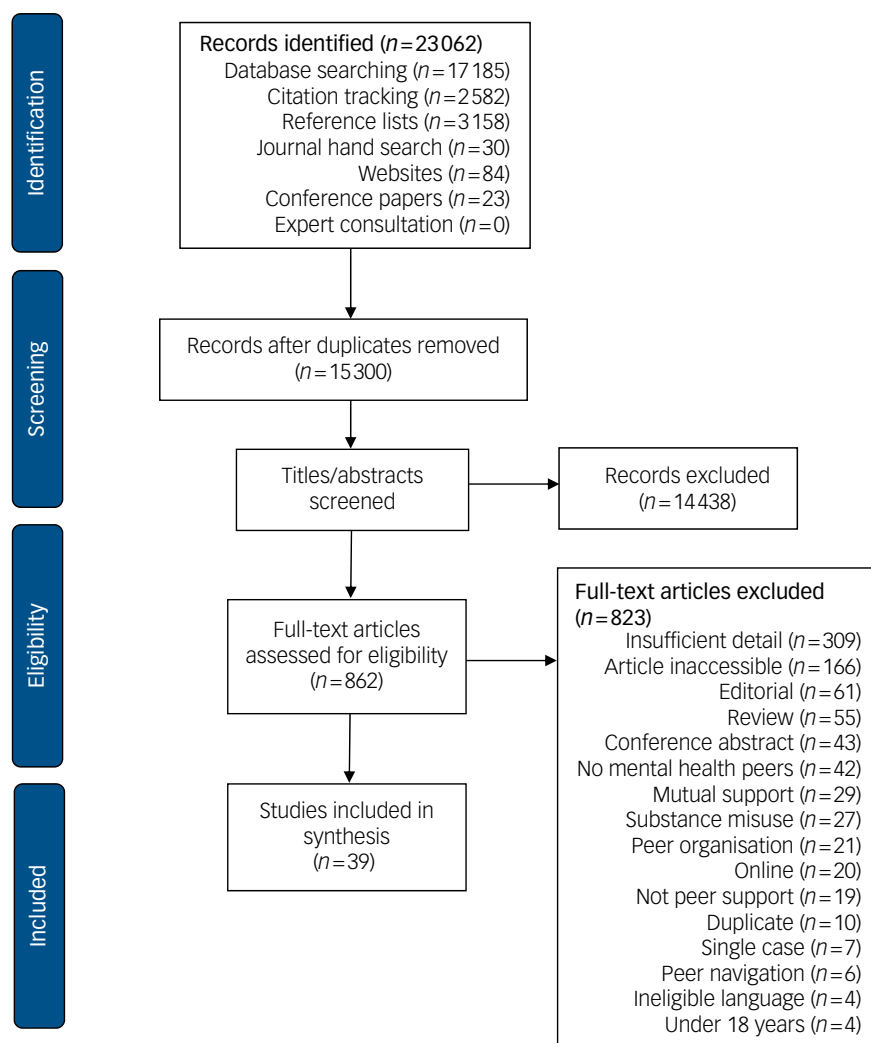


Fig. 1 Flow diagram of the study selection process.

Republic of Ireland ($n = 1$), with a single study conducted in an upper-middle income country (Libya). Designs comprised qualitative ($n = 12$), randomised controlled trial ($n = 13$), pre-post ($n = 10$), case-control ($n = 3$) and cohort ($n = 1$).

Stage 1 (developing a preliminary synthesis)

Six types of modifications to peer support work were identified, as shown in Table 1. The coded text including detailed examples from the included publications is shown in supplementary data 3.

Five types of rationale for modifications to peer support work were identified, as shown in Table 2. The coded text including detailed examples from included publications is shown in supplementary data 4.

Stage 2 (comparison between studies)

Overall, 22 (56%) of 39 included studies reported only pre-planned modifications, 10 (26%) reported only unplanned modifications and 7 (18%) studies reported both pre-planned and unplanned modifications. Including only the 22 studies reporting pre-planned instances of modifications did not lead to deletion of any of the strongest themes. However, the ordering changed, with the four strongest themes being: role expectations; type of contact; role extension; and workplace support for PSWs. Including only the ten studies reporting unplanned modifications in the framework

did not markedly change the ordering, with the three strongest themes being: role expectations; initial training; and role extension.

Across all included studies, 38 (97.4%) were conducted in high-income countries and 1 (2.6%) in a low-middle income country. Including only the 38 studies conducted in high-income countries did not change the strength or ordering of themes. Including the one study conducted in a low-middle income country led to the deletion of four themes: type of contact; role extension; workplace support for PSWs; and initial recruitment. The two strongest themes in the low-middle income study setting were: role expectations and initial training, with the subthemes of: materials used with service users; structure; and topics covered.

A total of 36 (92%) of the 39 included studies reported a rationale for modifications, comprising 22 (61.1%) providing rationales for planned modifications, 9 (25%) for unplanned modifications and 5 (13.8%) studies reporting rationales for both pre-planned and unplanned modifications. Including only the 22 studies reporting rationales for planned modifications in the framework did not lead to any changes to the ordering or deletion of any themes, with the three strongest themes being: to provide best possible peer support; to best meet service user needs; and to meet organisational needs.

Including only the nine studies reporting rationales for unplanned modifications, the ordering changed slightly, with to provide best possible peer support; to meet organisational needs;

Table 1 Types of modifications made to peer support work			
Modification name, description of modification and subtheme	Papers reporting pre-planned instances, <i>n</i>	Papers reporting unplanned instances, <i>n</i>	Total papers reporting this type of modification, <i>n</i>
<i>1 Role expectations (i.e. what the PSW is employed to do and what are the performance expectations on them?)</i>			31
Remit of the PSW role			
1.1 Target group to work with (i.e. who PSWs work with)	0	2	
1.2 Content of peer support work (i.e. what PSWs actually do, and what tools do they use?)	6	5	
1.3 Process of support (i.e. how do PSWs provide support?)	3	5	
1.4 Structure of support (how peer support work is structured and delivered)	1	3	
1.5 Materials used with service users (how materials are modified)	4	2	
<i>2 Initial training</i>			15
Training for PSWs before taking on the role			
2.1 Structure	2	5	
2.2 Topics covered	1	3	
2.3 Training process	0	4	
<i>3 Type of contact</i>			13
How PSWs work with service users			
3.1 Individual	3	3	
3.2 Group	3	0	
3.3 Individual and group	1	0	
3.4 Telephone	1	1	
3.5 Online	1	0	
<i>4 Role extension</i>			9
Flexibility beyond traditional PSW role			
4.1 PSWs develop extra skills or roles	3	2	
4.2 PSWs co-work with clinicians	2	2	
<i>5 Workplace support for PSWs</i>			8
Type of workplace support			
5 Workplace support	4	4	
<i>6 Recruitment</i>			3
Recruitment to PSW roles			
6 Recruitment	1	2	
PSW, peer support worker.			

Table 2 Types of rationales for modifications made to peer support work			
Type of rationale and subtheme	Papers reporting rationales for pre-planned modifications, <i>n</i>	Papers reporting rationales for unplanned modifications, <i>n</i>	Total papers reporting this type of rationale, <i>n</i>
<i>1 To provide best possible peer support</i>			30
1.1 To match on cultural aspects	3	3	
1.2 To increase service user engagement in direct work with PSW	10	2	
1.3 To provide person-centred care	4	4	
1.4 To enhance service user use of self-management strategies when not with PSW	3	1	
<i>2 To best meet service user needs</i>			16
2.1 To meet physical health needs	4	0	
2.2 To meet mental health needs	5	0	
2.3 To address risk of service user (i.e. risk of relapse or readmission)	1	1	
2.4 To not over-burden service users (i.e. support is tailored to meet learning needs, relevance for clinical population and to increase engagement)	2	3	
<i>3 To meet organisational needs</i>			12
3.1 To reflect organisational resources	1	3	
3.2 To reflect existing infrastructure of care	2	2	
3.3 To meet policy and legislation requirements	2	1	
3.4 To meet technological requirements	1	0	
<i>4 To maximise role clarity</i>			7
4.1 To increase role clarity	2	2	
4.2 To better use lived experience in PSW role	0	2	
4.3 To increase PSW motivation and work skills	0	1	
<i>5 To address socioeconomic issues</i>			4
5.1 To address socioeconomic issues of service users	2	1	
5.2 To address socioeconomic issues of PSWs	0	1	

and to maximise role clarity emerging as the strongest themes. A total of 35 (97.2%) studies were conducted in high-income countries and 1 (2.8%) in a low- or middle-income country. Including only the 35 studies conducted in high-income countries did not change the order or strength of themes in the rationale framework. Including the one study conducted in a low-middle income country led to the deletion of three themes: to best meet service user needs; to maximise role clarity; and to address socioeconomic issues. The strongest themes were to provide best possible peer support and to meet organisational needs. The subthemes included: to match on cultural aspects; to enhance service use of self-management strategies when not with PSW; to meet organisational resources; and to meet infrastructure of care.

Stage 3 (assessing for the robustness of synthesis)

The quality rating of studies is shown in supplementary data 5. Studies were rated as good quality ($n = 28$), fair quality ($n = 5$) or poor quality ($n = 6$). Excluding the 11 studies rated as poor or fair quality did not greatly influence the content and strength-of-theme ordering for either modifications or rationales. The three strongest modification themes remained role expectations; initial training; and type of contact, with only workplace support for PSWs moving up in the order to joint third strongest theme. The order and strength of themes did not change markedly in the rationale framework, with to provide best possible peer support; to meet organisational needs; and to best meet service user needs being the strongest themes.

Discussion

This systematic review and narrative synthesis identified a typology of five rationales and six types of modifications to formal mental health peer support work when implemented in diverse settings. Insufficient evidence was available to identify types or rationales of modifications specific to lower-resource settings. There was no evidence of study quality having an impact on the findings, and most types of modification occurred both as planned and unplanned modifications.

Peer support is a complex intervention. Formal reporting of the intervention would support understanding of modifications. The Template for Intervention Description and Replication (TIDieR) reporting guidelines identify how to report complex interventions to allow reliable implementation and replication.³² Item 10 of the TIDieR checklist is 'Modification: If the intervention was modified during the course of the study, describe the changes (what, why, when and how)' – changes which in this review were called unplanned modifications. Earlier TIDieR items involve a complete description of the intervention, covering what in this review was called planned modifications. As none of the included studies used the TIDieR reporting guidelines, descriptions of modifications and their rationale were inconsistent, so underreporting of modifications is probable, which would lead to not all relevant PSW studies with modifications being included.

No study was designed to anticipate unplanned modifications. In trial methodology, an adaptive trial design involves pre-planned modification of trial procedures based on interim analysis during the conduct of the trial.³³ This design is an approach to reducing resource use, decreasing time to trial completion and improving the likelihood that trial results will be scientifically or clinically relevant.³⁴ A key feature of adaptive designs is that modifications are expected, and based on continuous learning as data accumulates during the trial. None of the included studies used an adaptive design, even though this is a relevant approach. For example, adaptive enrichment occurs when interim analysis shows that a

treatment has more promising results in one subgroup of patients, in which case the eligibility criteria are modified to investigate the efficacy of the intervention in that subgroup.³⁵ The identified unplanned adaptation of modifications to the target group could be more effectively managed by adopting an adaptive enrichment strategy.

The highest proportion of unplanned to pre-planned modifications occurred for the initial training modification. PSW training programmes have developed internationally in an uncoordinated way, including both accredited and non-accredited courses. Networks are emerging such as the International Association of Peer Specialists (www.inaops.org) and the Global Network of Peer Support (www.peersforprogress.org), but as yet there are no widely agreed consensus statements on the key non-modifiable and modifiable components of PSW initial training. Established approaches to differentiating between what can and cannot be modified could be followed.³⁶

Strengths and limitations



The strengths of this review include the multilanguage and systematic strategy used, and the robustness of methodology including multiple analysts and quality appraisal of studies. Several limitations of this review can be identified. First, the quality rating tool used in the synthesis excluded few studies, and resulted in minimal changes to the ordering of themes. Other critical appraisal tools could also be considered or used in combination with CASP in future studies to enhance robustness of evaluation. Second, the absence of established peer support brands made provenance and modifications difficult to establish, as has been found with other complex interventions.³⁷ Developing named manualised approaches to implementing peer support would make it easier to identify when future studies are replicating versus adapting the approach. Third, meaningful comparisons between modifications made in higher-versus lower-income settings was not possible because only one non-high-income setting study was included. In addition, studies conducted in different global jurisdictions including the global south were not located or included. More searching of grey literature, modifications to the inclusion criteria and a broader expert consultation might have identified studies from lower-income settings and a wider range of countries, for example China³⁸ and Uganda,³⁹ or related studies such as the ReDeAmericas Program in Latin America (www.cugmhp.org/programs/redeamericas).

Implications

The review provides an evidence-based framework for systematic consideration of different types of candidate modification to peer support implementation. An appropriate approach would involve considering each rationale in turn, framed as a question, for example 'What needs to be modified to provide best possible peer support in our setting?' Where this process suggests that modification may be indicated, the modification types identified in relation to the rationale provide candidate changes to consider in relation to each question. This approach is likely to lead to a more systematic consideration of whether and how to modify the approach to peer support to different settings, especially when informed by an understanding of influences on implementation.⁴⁰

Identifying the wide range of modifications also has research implications. Evaluative research to identify the non-modifiable versus modifiable components is needed, to differentiate between desirable local adaptations versus non-desirable changes to the core components of peer support. Evaluations of peer support implementation identify that differing organisational cultures lead to differences in role expectations,⁴⁰ and issues of professionalism and practice boundaries are common.⁴¹ Identifying when a

modification is sufficiently large as to mean it is no longer a peer support role is an important future research focus. A second research priority is understanding when and where modifications are needed for implementation of peer support work, such as in work with asylum seekers and refugees,⁴² and work in different types of clinical settings and populations. For example, service settings of hospital versus community and clinical population may be a focus for future research. The UPSIDES study is addressing the challenge of investigating how peer support work can be implemented in settings that differ in income levels, through implementation research and a randomised controlled trial in sites in Ulm (Germany), Hamburg (Germany), Kampala (Uganda), Dar es Salaam (Tanzania), Beer Sheva (Israel) and Pune (India). As interest in peer support work is growing internationally, evidence-based approaches to modifying the PSW role to meet local needs while retaining role integrity become essential.

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First received 16 May 2019, final revision 23 Oct 2019, accepted 5 Nov 2019

Funding

UPSIDES received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 779263. M.S. acknowledges the support of the Center for Mental Health and Substance Abuse, University of South-Eastern Norway and the NIHR Nottingham Biomedical Research Centre. This publication reflects only the authors' views. The Commission is not responsible for any use that may be made of the information it contains. The funding body had no role in the design of the study and in writing the manuscript.

Acknowledgements

The study Using Peer Support In Developing Empowering Mental Health Services (UPSIDES) is a multicentre collaboration between the Department for Psychiatry and Psychotherapy II at Ulm University, Germany (B.P., coordinator); the Institute of Mental Health at University of Nottingham, UK (M.S.); the Department of Psychiatry at University Hospital Hamburg-Eppendorf, Germany (C.M.); Butabika National Referral Hospital, Uganda (David Basangwa); the Centre for Global Mental Health at London School of Hygiene and Tropical Medicine, UK (G.R.); Ifakara Health Institute, Dar es Salaam, Tanzania (D.S.); the Department of Social Work at Ben Gurion University of the Negev, Beer Sheva, Israel (G.M.); and the Centre for Mental Health Law and Policy, Pune, India (J.K.).

Data availability

All collected data are included as supplementary information.

Author contributions

Conception and design of study: D.T., R.N. and M.S. Acquisition of data: A.C., D.T. and M.S. Analysis and/or interpretation of data for the work: A.C., D.T., R.N., G.R., D.S., J.K., G.M., R.H., C.M., B.P., J.R., M.S. and R.M. Drafting of the manuscript: A.C. and M.S. Revising the manuscript critically for important intellectual content: A.C., D.T., R.N., G.R., D.S., J.K., G.M., R.H., C.M., B.P., J.R., M.S. and R.M. Approval of the version of the manuscript to be published: A.C., D.T., R.N., G.R., D.S., J.K., G.M., R.H., C.M., B.P., J.R., M.S. and R.M. Agreement to be accountable for all aspects of the work: A.C., D.T., R.N., G.R., D.S., J.K., G.M., R.H., C.M., B.P., J.R., M.S. and R.M.

Supplementary material

Supplementary material is available online at <https://doi.org/10.1192/bjp.2019.264>.

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psychiatry in movies

Joker: how 'entertaining' films may affect public attitudes towards mental illness

Rory Durham and Paul Wilkinson

Released in October 2019, *Joker* is a psychological thriller detailing the disturbing transformation of anti-hero Arthur Fleck into the titular DC Comic supervillain. The film has garnered huge commercial and critical success, in particular an Oscar for best actor for the title role. Yet, to quote from a rival superhero movie, with great power comes great responsibility. Arthur's struggle with mental illness is a key theme in *Joker*, and its portrayal could have a powerful effect on public attitudes towards real people with mental illness.

Joker initially shows the public some of the problems faced by those with mental illness. Notably, effects of underfunding are underlined when Arthur stops receiving regular treatment, despite evident willingness to go to therapy and take medication. The impact of past abuse and family modelling of mental illness are highlighted as factors influencing Arthur's behaviour. Overriding metaphors such as Gotham's bleak cityscape and Arthur's dismal apartment mirror and reinforce the difficulties the character faces, leaving the viewer sympathising with his plight.

Joker portrays multiple episodes of brutal violence. In the opening scene Arthur is assaulted by a group of youths, accurately reflecting the fact that the mentally ill are at increased risk of being victims of violence. However, as the film progresses, starting with self-defence, Arthur turns to violence himself, and does so with increasing frequency. Crucially, this violence is causally linked to his mental illness. First, violence increases after Arthur stops his medication. He makes a 'joke' ('What do you get when you cross a mentally ill loner with a society that abandons him and treats him like trash? I'll tell you what you get. You get what you f***ing deserve') that explicitly references his illness as a cause of his subsequent murderous act. In the final scene, Arthur is seen in a psychiatric hospital, leaving the viewer with the conclusion that his mental illness was the cause of his crimes, for which he was admitted to hospital rather than imprisoned.

As healthcare professionals, we can see the mental illness and violence as two separate parts to Arthur's character, albeit with common risk factors. His violence is primarily for revenge and is often conducted in a calculated, organised way. It is not linked to delusions or hallucinations. His attention to his appearance and his degree of planning increase as his violence gets worse, the opposite of what would happen in deterioration of mental illness. Nonetheless, we believe that the conflation of mental illness and violence in this film is likely to give the public the impression that people who are mentally ill are likely to be violent, reinforcing the stigma of a fairly common stereotype.

The film's ultimate motive is entertainment, not education. And although Joaquin Phoenix's performance is indeed powerful, in a climate where the US President has made remarks such as 'mental illness pulls the trigger, not the gun', there is the danger that the film has increased the stigma towards a group who need support, not fear (or worse) from their community.

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The British Journal of Psychiatry (2020)
216, 307. doi: 10.1192/bjp.2020.56