‘You want to deal with power while riding on power’: global perspectives on power in participatory health research and co-production approaches

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ABSTRACT

Introduction Power relations permeate research partnerships and compromise the ability to bring about transformational and sustainable change. This study aimed to explore how participatory health researchers engaged in co-production research perceive and experience ‘power’, and how it is discussed and addressed within the context of research partnerships.

Methods Five online workshops were carried out with participatory health researchers working in different global contexts. Transcripts of the workshops were analysed thematically against the ‘Social Ecology of Power’ framework and mapped at the micro (individual), meso (interpersonal) or macro (structural) level.

Results A total of 59 participants, with participatory experience in 24 different countries, attended the workshops. At the micro level, key findings included the rarity of explicit discussions on the meaning and impact of power, the use of reflexivity for examining assumptions and power differentials, and the perceived importance of strengthening co-researcher capacity to shift power. At the meso level, participants emphasised the need to manage co-researcher expectations, create spaces for trusted dialogue, and consider the potential risks faced by empowered community partners. Participants were divided over whether gatekeeper engagement aided the research process or acted to exclude marginalised groups from participating. At the macro level, colonial and ‘traditional’ research legacies were acknowledged to have generated power relations permeate research partnerships and compromise the ability to bring about transformational and sustainable change. This study aimed to explore how participatory health researchers engaged in co-production research perceive and experience ‘power’, and how it is discussed and addressed within the context of research partnerships.

Conclusions The ‘Social Ecology of Power’ framework is a useful tool for engaging with power inequities that cut across the social ecology, highlighting how they can operate at the micro, meso and macro level. This study reiterates that power is pervasive, and that while many researchers are intentional about engaging with power, actions and available tools must be used more systematically to identify and address power imbalances in participatory research partnerships, in order to contribute to improved equity and social justice outcomes.

INTRODUCTION

In recent years, the participatory health research (PHR) paradigm, a co-production research process, has gained considerable traction as governments and research councils in many countries move to increase participation of citizens in applied health research.1 2 In PHR, researchers in universities and other institutions aim to work in equal partnership with non-academic stakeholders including patients, caregivers, clinicians, policy-makers, health system leaders and supporting organisations to design and conduct research, and to translate, disseminate and implement research findings.3 In this paper, we use the term ‘co-researchers’ to refer to non-academic stakeholders who are colleagues and equal partners in the research process. In addition, we refer to ‘community’ as a group of individuals who have a particular characteristic or interest in common, which could be the place that they live, an aspect of their identity (eg, sexuality, disability), their profession or their use of a particular service.4

PHR strives to level power relations between academic researchers and co-researchers, whereby co-researchers become equal partners in the process rather than ‘subjects’ or ‘participants’.5 6 There are, however, increasing and well-founded concerns that participation in PHR projects is often a superficial ‘tick box’ process in which unequal power relations remain unaddressed, compromising the potential of participatory processes to achieve greater equity and justice.6 8 For example, genuine redistribution of power can be severely limited by ‘functional participation’, where the unwillingness of researchers to
relinquish decision-making power and to view community knowledge as equal to academic knowledge leaves major decisions being made by research institutions, while co-researchers are confined to supportive and advisory roles. There is also an oversimplified expectation in participatory research that trust can be built on underlying hierarchies of power. Throughout history, there have been numerous cases of unethical research misconduct as a result of unequal power relations, exemplified by the infamous Tuskegee Syphilis Study, Native Americans’ participation in research leading to stereotypes about their elevated alcohol consumption, and research studies that mainly portrayed the HIV/AIDS problem as associated with homosexuality, resulting in new and enhanced stigma attached to both having HIV/AIDS and being homosexual. Examples such as these have created a legacy of mistrust between researchers and the researched communities, and yet (Western) academic researchers who embody, historically, a hugely disproportionate amount of power, frequently carry out PHR in communities in which they are outsiders and where those power imbalances persist.

The concept of ‘power’ has been discussed and critiqued extensively in relation to participatory research. Structural imbalances of power within community-based participatory research (CBPR) have been directly explored within the context of equity and policy goals, while cross-site CBPR case studies have also enunciated the importance of both structural and relational power. This ‘Social Ecology of Power’ conceptual framework specifically accounts for the way in which power dynamics filter throughout the different layers of the social ecology and provides us with a tool to examine how power inequities cut across the macro level, meso level and micro level in PHR. Still, power remains an elusive concept to define.

According to Gaventa and Cornwall, power within PHR can be exercised as either exclusionary or inclusionary, taking place within multiple contexts including the historical relationships between academic institutions and community stakeholders, the dominance of Western and medical research from highly developed nations and the hierarchical power structures and relationships within each national or local context. They identify how ‘power over’ others can be direct or hidden; directly, through decision-making structures that favour academics within research or in contexts where regimes are more authoritarian than democratic, or covertly, when community partners are fearful of even raising issues or perceiving that they won’t be heard when they do. In contrast to the role of ‘power over’ that prevents authentic partnering, theories of power also recognize ‘power to’ act, when people have the capacity of human agency to work towards change. PHR partnerships offer the opportunity to change the dynamics and strengthen co-researcher capacities, both within the co-production process and in their targets of change.

However, few studies have utilised qualitative methods to investigate experiences and perceptions of power, and there is a clear gap in understanding of how participatory health researchers perceive and address power imbalances in their projects, and more widely in the current global health research landscape. Furthermore, contemporary knowledge systems on power are dominated by Western authors and modes of thinking, evidenced by a recent study found that most co-production of health research has been conducted in highly

**Key questions**

**What is already known?**

- Power imbalances within research partnerships compromise the ability of participatory research approaches to bring about positive and sustainable change.
- Contemporary knowledge systems on power are dominated by Western authors and modes of thinking, particularly in the field of global health.

**What are the new findings?**

- The ‘Social Ecology of Power’ framework can be used to explore qualitative data on participatory health researchers’ perceptions and experiences of power, illuminating the ways that power operates at the micro, meso and macro level.
- While researcher assumptions and the abstract nature of ‘power’ act to limit explicit discussion of the concept, reflexivity and awareness of positionality can help to examine and address power differentials in research partnerships.
- In striving to empower individuals and communities, participatory research exposes different safeguards risks compared with ‘traditional’ research approaches.
- Some participatory health researchers view gatekeeper engagement as beneficial and essential to the research process, while others are concerned that gatekeepers can limit access to marginalised groups.

**What do the new findings imply?**

- Frameworks, activities and tools to support research partnerships to discuss and address power imbalances must be used more systematically to improve equity and social justice outcomes.
- The ethical risks of empowerment in participatory research should be examined more closely, including further consideration of how sociopolitical contexts vary in the extent to which they support individual and community empowerment.
- Researchers should be mindful when using gatekeepers to identify partners for co-production research, particularly when attempting to engage with marginalised groups.
developed settings, with less than 2% of co-production literature examining low- and middle-income countries (LMICs). Engaging with perspectives of participatory health researchers—particularly those from the Global South—and considering how experiences vary across countries, disciplines and income contexts, will help to produce more nuanced understandings of power in real-world settings, providing a platform for voices that are often missing from the research scholarship on power. The qualitative data generated from exploration of these perspectives can be used to develop concrete actions to address power inequities in PHR partnerships, and to validate the ‘Social Ecology of Power’ framework described above, which at present draws only from peer reviewed literature and the experiential knowledge of its author.

Drawing from the ‘Social Ecology of Power’ framework, this qualitative study aimed to explore how participatory health researchers from a variety of global contexts perceive ‘power’, and how this concept is discussed within the context of specific research partnerships. It also sought to identify how imbalances of power are addressed within research partnerships, and what is done to promote or facilitate power sharing, participation in research, and community empowerment. Furthermore, a primary intention of this work was to provide a space for knowledge sharing and reciprocal learning between participatory health researchers on the subject of power. As such, we refer to the qualitative data collection technique used in this study as ‘workshop’ rather than ‘focus group discussion’, reflecting the different forms of participation available to participants, the participant-directed flow of conversation, and the reciprocal learning that took place.

METHODS

Detailed study methods and description of research project positionality can be found in Egid et al 2021, including the authors’ reflexivity regarding workshop conduct and power dynamics within the research process. Sampling and recruitment

We recruited participatory health researchers—defined here as people with experience working on projects aligned with participatory principles, including PHR, CBPR and Participatory Action Research, or having used participatory methods—to take part in the online workshops. An advert for the workshops was circulated via social media/twitter and direct email, and through institutional programme websites. Participant recruitment was thereby through self-selection, followed by snowball sampling, as detailed in Egid et al 2021. Participants were issued with participant information sheets and signed consent forms.

Although we initially intended to recruit only people with direct experience of participatory research, we were contacted by several graduate students and academic researchers interested in or planning to conduct participatory research projects for the first time. We supported their attendance and engagement in the workshops, reflecting the principal focus on knowledge sharing and mutual learning between participants.

Data collection

The workshops were semi-structured and guided by key questions based on the following themes: (1) defining and discussing power, (2) addressing power relations and empowerment, (3) measuring and evaluating power. Workshops were conducted online (in GoToMeeting/Zoom) and each facilitated by two authors, with support from a third author on WhatsApp. In the workshops, facilitators gave an introductory presentation on the objectives of the study, terminology to be used and process of the workshop, then displayed questions on a shared screen and posed them to the group. Participants were able to respond and contribute to the discussion verbally or by using the ‘chat box’.

The first workshop (Workshop 1) was a small-scale pilot, while the other four workshops were larger and loosely based on region for example, Workshop 2 was focused on experiences in Asia, Workshop 3 on Africa, Workshop 4 on Europe and Workshop 5 on Latin America. Workshop discussions lasted between 1 hour 35 min and 2 hours and were video recorded and transcribed verbatim. Workshop 5 was conducted in Spanish and translated into English, while all other workshops were conducted in English.

Analysis

Framework analysis was used to analyse the transcripts. Codes were developed deductively from the ‘Social Ecology of Power’ framework. NVivo V.12 software was used to code and organise the data. After familiarisation with the transcripts, an initial coding framework was developed and refined through discussion with facilitators and then applied to all the transcripts and chat box data. A charting process was used to identify overarching themes which were synthesised and organised around the framework headings, and are presented in the Results section. We also adapted several of the subtheme titles from those presented in the framework, in order to reflect our findings more accurately. For the purposes of this study, we have presented themes at the level (micro, meso or macro) where we believe they fit most harmoniously, whilst acknowledging that they could have been situated elsewhere.

RESULTS

Participants

Five workshops were conducted between 6 May and 9 June 2020, with a total of 59 participants. Each workshop was composed of between 9 and 17 participants, and participants characteristics are displayed in Table 1. Most participants were from academic or research institutes (69%), while 20% worked with non-governmental organisations (NGOs) or other private organisations, and 7% were from health systems—none of the participants were...
directly from partnered ‘communities’. Participants had experience working across 24 different countries.

**Power at the micro level: individual values and attitudes**

**Assumptions about power**

Most participants reported that the concept of ‘power’ was rarely explicitly discussed in their partnerships, and only a few participants knew of or had used specific definitions of the term. Some participants assumed that the co-researchers in their partnerships already understood the meaning and implications of power and therefore did not see a need for discussion (table 2, Q1). Others believed that adopting a participatory approach was sufficient to address power inequities, negating the need to actively discuss power. The multiple dimensions, abstract nature and intangibility of power as a concept also posed a major barrier to its discussion and definition within partnerships (table 2, Q2). As a result of this conceptual complexity, some participants perceived that their co-researchers lacked interest in discussing power (table 2, Q3). To address this, participants generally avoid using jargon in discussion with co-researchers, instead using metaphor and alternative explanations to help demystify complex concepts and establish mutual understanding of issues (table 2, Q4).

**Positionality and reflexivity**

Many participants spoke about the influence that researcher and co-researcher positionality can have on how power is experienced and understood (table 2, Q5). Participants described how researcher positionality can interact with power hierarchies, such as those surrounding race (table 2, Q6) and gender. Workshop participants discussed how positionality can help to determine which members of the research team are best suited to carry out particular roles in projects. For example, in many cases co-researchers from a community of study were thought to be better placed to collect data and facilitate sessions with community members, helping to negate the typically unequal power dynamic between academic researchers and community members and to create a more relaxed sharing environment (table 2, Q7).

Reflexivity was discussed across all workshops as a means for researchers to engage in critical dialogue about their positionalities in terms of privilege and power, and to consider how this positionality influences their work with co-researchers (table 2, Q8). Some participants believed that being reflexive enabled them to better identify and address power imbalances in their partnerships. A few participants communicated that they had encouraged co-researchers to engage in reflexivity sessions as well, often in the form of reflexive group discussions, which were thought to be useful for identifying opportunities for improvement and change (table 2, Q9).

**Individual capacity strengthening**

Participants discussed how capacity strengthening was a central aim of participatory research, which could aid in the empowerment of co-researchers. Bilateral training and knowledge exchange (between co-researchers and academic researchers) in different forms was seen as an important opportunity for this, helping to build confidence in co-researchers and increase their sense of ownership of projects and ultimate project impact (table 2, Q10). Increasing co-researchers’ access to information also helped to strengthen capacity and formed an important aspect of community empowerment. Open-source educational materials were noted as a potential means to aid accessibility, as was sharing information in clear formats. Participants also highlighted the importance of mutual learning between researchers and co-researchers, which helps to maximise researcher understanding of a topic in the local context (table 2, Q11).

**Power at the meso level: intersectoral spaces and multistakeholder teams**

**Project governance**

Most participants stated that research teams and stakeholders met regularly throughout the research process,
Skills training included political advocacy, developing and leaders to drive action without academic partners. It was important for researchers to become peer educators/trainers within their communities, so they could work with communities researchers to become peer educators/trainers within their partnerships, and within existing shifts in power over time through transformational leadership. Researchers and co-researchers can feel let down by academic researchers, particularly when they express opinions or seek change nothing happens, and how managing expectations can play an important role in building trust and avoiding disagreement. They suggested using ranking exercises to understand community priorities and developing terms of reference to manage expectations (table 3, Q2).

Participants spoke about how they tried to support shifts in power over time through transformational leadership within their partnerships, and within existing organisations such as health systems. One of the strategies for doing this was to strengthen the capacity of co-researchers to become peer educators/trainers within their own communities, so they could work with communities and leaders to drive action without academic partners. Skills training included political advocacy, developing and communicating action plans, and constructing cases for additional funding or resources, all of which contribute to the sustainability of positive change in the community beyond the scope of a particular research project. According to participants, knowledge sharing also helped to redistribute power, enabling co-researchers to share knowledge they gain with other community partners to facilitate informed and autonomous decision-making and to increase awareness of community partners’ rights and influence within projects (table 3, Q3). Other strategies to shift power included handing over decision-making responsibilities to co-researchers, assessing who makes the decisions, motivating co-researchers to take ownership and establishing structures that promote leadership in moving actions forward independently of the research team (table 3, Q4).

Participants emphasised how their projects were committed to sharing power and engaging co-researchers at every stage of the research process, from conception to dissemination. For example, in the planning stages, researchers could feel let down by academic researchers, particularly when they express opinions or seek change nothing happens, and how managing expectations can play an important role in building trust and avoiding disagreement. They suggested using ranking exercises to understand community priorities and developing terms of reference to manage expectations (table 3, Q2).
### Table 3  Power dynamics operating at the meso (interpersonal) level

<table>
<thead>
<tr>
<th>Subtheme</th>
<th>Q</th>
<th>Illustrative quote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project governance</td>
<td>1</td>
<td>‘diverse population blocs such as youths, women, migrant groups etc express their preferences through direct engagement with researchers rather than through any go-between. This presents voice that are often lost in top-bottom approaches.’ (Nigeria, Workshop 3, chat box)</td>
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<td></td>
<td>2</td>
<td>‘transparency is really key … not everything will be feasible and that could be due to project reasons, due to the project timelines … [we] made sure that everyone had space to rank what priorities they had, so we tried to make it as participatory as possible, but of course there will be disappointment …’ (Nigeria, Workshop 2, verbal)</td>
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<td>3</td>
<td>‘we work in excluded communities, historically excluded, like indigenous [communities] … people that haven’t had access to education, people that do not have health services. They don’t even have a notion of rights, their own rights. We tell them ’look, you have to use your rights.’ ‘What rights?’ (Guatemala, Workshop 5, verbal)</td>
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<td></td>
<td>4</td>
<td>‘we empower the …. teams so that they can think outside the box, they can make their decisions and not just look at what the headquarters do…’ (Malawi, Workshop 4, verbal)</td>
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<td></td>
<td>5</td>
<td>‘we [academic researchers] put in some tentative interventions that we could do, but mentioned that we will collaborate with the stakeholders at community level to build this further, in terms of asking them what they would like to be done, where does the community want this [the HIV testing station] to be put, who do they want to manage or distribute the HIV self-testing kits …’ (Zambia, Workshop 3, verbal)</td>
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<td>6</td>
<td>‘we have stakeholder meetings where we have our dissemination … we make sure that … community health workers, people affected by NTDs [and] all the co-researchers are involved in that, including NTD implementers … the strategy … is inclusion, making sure everyone has a place at the table’ (Nigeria, Workshop 2, verbal)</td>
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<td>7</td>
<td>‘Build with community actors in their own territory, in their contexts, starting by recognizing that external researchers there are ignorant, foreign and in need of knowledge.’ (Colombia, Workshop 5, chat box)</td>
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<td></td>
<td>8</td>
<td>‘In a lot of instances, people were ‘volun-told’ to participate, and it was tough to navigate a way to avoid this scenario!’ (Tanzania/Uganda, Workshop 3, chat box)</td>
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<td></td>
<td>9</td>
<td>‘with regards to consulting with the community to inform the design of interventions, I feel like we can run the risk of falling into the trap of calling it participatory research when in fact all we’re doing is using these community partners as informants …’ (Philippines/Kenya/Uganda/Nigeria, Workshop 3, verbal)</td>
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<td>10</td>
<td>‘when you don’t promote these positive behaviours, and you don’t shift power, usually you find that after the intervention is done… there is no empowerment that took place … the power was still with the researchers’ (Zambia, Workshop 3, verbal)</td>
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<tr>
<td>Effective techniques for dialogue</td>
<td>11</td>
<td>‘I always thought power sharing is something about giving power away … but it’s also about offering a safe room or a space where power can be shared … it gives them [co-researchers] the chance to develop their participation in different ways.’ (Germany, Workshop 4, verbal)</td>
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<td></td>
<td>12</td>
<td>“… if people are more used to sitting under a tree to have a chat while sharing a coffee, then we should do that instead of taking them to a hotel or a restaurant’ (Guatemala, Workshop 5, verbal)</td>
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<td></td>
<td>13</td>
<td>‘difficulties in the internal dynamics [in the research team] … [are] reflected in the relationship established with the communities … if we don’t make an introspection … not [as] individuals but to the whole team … how we work, which roles we assume, how we exchange and share knowledge … [it] will affect the results and the processes with the communities.’ (Colombia, Workshop 5, verbal)</td>
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<tr>
<td>Associational landscape and representation</td>
<td>14</td>
<td>‘power relationships always exist between the academic and non-academic, between university and non-university, between city and village, between indigenous and non-indigenous … Even within the community itself, there are socio-economic scales, gender issues …’ (Guatemala, Workshop 5, verbal)</td>
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<td>15</td>
<td>‘we talk to community partners and we try to identify who are actually the ones who are the most marginalised… we wanted to ensure that we give them an opportunity to participate in our process.’ (Bangladesh, Workshop 2, verbal)</td>
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<td>16</td>
<td>‘an [existing community] structure that is always set and knows what is happening in those communities … [can] lead you as a researcher through these communities for whatever information you may want…”’ (Sierra Leone, Workshop 3, verbal)</td>
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Continued
participants felt that ensuring co-researcher involvement was necessary for instilling a sense of community ownership over the research and ensuring that the research genuinely addressed the needs of the community. One participant described how while academic researchers might present potential approaches for the research at the planning stage, co-researchers should decide if, how and when those approaches should be adopted (table 3, Q5). At the dissemination stage of the research, participants encouraged co-researchers to decide how they wanted the research outputs to be shared, endorsing opportunities for co-researchers to share and discuss the research with their communities and with wider stakeholder groups (table 3, Q6).

Many participants discussed the importance of respecting, acknowledging the relevance of, and utilising community knowledge, which can aid in the development of shared expertise and goals between partners. Participants agreed that co-researchers should be viewed as the experts on their own context, and that their valuable local knowledge and deep understanding of community needs should be recognised and used in the co-production process (table 3, Q7). Participants also discussed the importance of documentation for preserving community knowledge, safeguarding intellectual contributions and preventing exploitation.

Participants discussed how unequal power dynamics can lead to the imposition of participation on community members. They described how academic researchers in positions of power can consciously or unconsciously pressure community members into participating in research which they do not want to be part of (table 3, Q8). Others discussed how community participation in research can sometimes be ‘tokenistic’, whereby community involvement only goes as far as informing or providing data for academic researchers, reflecting a lack of real commitment to shared decision-making (table 3, Q9). One participant described how this tokenistic participation and failure to shift power is evidenced when little or no change is observed at the end of the research process (table 3, Q10).

Effective techniques for dialogue
Across all workshops, participants emphasised the importance of creating safe spaces for dialogue, where co-researchers can contribute freely and participate in the research process however they feel comfortable (table 3, Q11). Conducting research activities and discussions in settings that were familiar to the co-researchers, rather
than in locations more convenient for the researcher, was deemed crucial (table 3, Q12). Several participants described conducting sessions specifically for co-researchers from particular marginalised groups, meaning that all participants would have some shared experience and feel more comfortable in participating. Outside of these dedicated sessions, participants described how it can be helpful to ensure that there are at least two representatives from each marginalised group, to encourage participation and to balance out the group dynamics. The setting of ground rules to ensure all opinions were respected, and encouraging the use of participatory methods, including creative and narrative methods, were also mentioned as ways to create safe spaces for participation. Participants mentioned how monitoring power dynamics and the relational environment within academic research teams can help to ensure that internal issues do not negatively impact relationships with communities (table 3, Q13).

Associational landscape and representation
While participants frequently discussed power hierarchies between academic researchers and community co-researchers, there was a keen awareness of the power imbalances which exist between other stakeholder groups and within community groups themselves (table 3, Q14). Within communities, participants described how the voices and contributions of people from marginalised groups are often overshadowed by those from dominant groups, or by those who have direct relationships with community leaders. Workshop participants referenced people with disabilities, migrants, women, indigenous people, elderly people and adolescents as groups that hold less power but stand to gain from power redistribution. Some participants described a process of dialogue with community members for identifying the most marginalised groups within communities (table 3, Q15).

One subject that divided opinion among workshop participants was the extent to which participatory research projects should engage with existing power structures in communities. To many participants, engaging local leaders or other influential people in the community was deemed essential for community access and the buy-in of the community members (table 3, Q16). Other participants expressed concern that ‘gatekeepers,’ such as local NGOs, state-sponsored organisations, and community leaders can sometimes act to silence community voices, particularly those of excluded community members, which can lead to further marginalisation. Meanwhile, community members in relative positions of power may be the ones who reap the benefits of the research, which reinforces existing power imbalances (table 3, Q17-18). One participant succinctly summarised this dilemma of engaging with gatekeepers (table 3, Q19). While few solutions to this issue were offered, some participants suggested that gatekeepers could be engaged symbolically while participation and leadership opportunities were directed towards less powerful community members (table 3, Q20).

Reward systems and potential risks
Co-researcher compensation for participation was discussed by several participants, as the role of incentivisation in encouraging people to participate or take on leadership roles. Participants described how while economic incentives were often used, they were not necessarily appropriate, and that sometimes community partners preferred compensation in the form of recognition and prestige in their community, achieving social justice or learning new skills (table 3, Q21-22).

While individual and community empowerment was agreed to be an aim of participatory research, some workshop participants were wary of the potential risks associated with ‘becoming empowered’ and discussed the ethical responsibility of academic researchers in considering this risk (table 3, Q23). They emphasised the importance of understanding the wider societal context in which participatory research takes place and attempting to create environments that are supportive of empowerment (table 3, Q24).

Power at the macro level: sociopolitical structures

Historical and economic factors
Participants were aware of how certain power hierarchies are very deeply entrenched in societies, such as those surrounding race and the legacy of colonisation. Participants acknowledged that these longstanding inequalities are often challenging to navigate and address (table 4, Q1). Furthermore, participants described how communities can become so used to ‘traditional’ research approaches—where external researchers make decisions and implement interventions without consulting or engaging communities—that communities may lack confidence and trust in ‘new’ participatory research approaches (table 4, Q2).

Distribution of power and resources
Participants described how power imbalances could lead to differential access to resources such as education, information, and healthcare provision within communities, with marginalised groups often excluded or overlooked during resource distribution (table 4, Q3). This uneven distribution was thought to affect the ability of marginalised groups to participate in research.

DISCUSSION

Across five international workshops, participants in this study described their experiences and understandings of how power influences—and operates within—PHR partnerships. We mapped the themes which arose in the analysis onto the ‘Social Ecology of Power’ framework, locating themes at the individual (micro), interpersonal (meso) or structural (macro) level. This framework accounts for the way in which power dynamics filter across and within the social ecology, highlighting the
bidirectional interconnections between the different levels—it was therefore a useful tool for examining power in participatory research and encouraged us to consider the interconnectivity, fluidity and granularity of power.

In this section, we discuss the key study findings at each socioecological level in relation to existing theory and literature, and present a table of practical actions and tools that could be used to address power inequities in PHR partnerships and beyond (table 5).

Micro level
At the micro level, key findings included rarity of explicit discussions on the meaning and impact of power, the use of reflexivity for examining assumptions and power differentials, the importance of demystifying concepts around power, and the strengthening of co-researcher capacity to encourage them to pursue co-produced knowledge and ensure sustainable impact on research aspirations and beyond.

Considering the significant literature on the importance of embedding and addressing power in PHR, especially in relation to addressing critical factors (eg, race, gender, ethnicity, racism, disability, patriarchy and social class) that can influence the attainment of equitable, trusting research partnerships.

Facilitating collaborative, equitable partnerships in all research phases involves an empowering and power-sharing process that attends to social inequalities. Thus, without understanding power conceptually and in relation to wider social, political, historical factors that influence social outcomes, such inequalities can remain hidden and have the potential to reinforce imbalances in power within the partnership and beyond. As found in previous studies where power issues are not identified and discussed within the research partnership, unequal power dynamics persist and can result in non-reflexive claims to equity.40 41 These claims can perpetuate the exclusion of dissenting voices and the most vulnerable individuals and communities, especially in contexts where such views would challenge the ‘status quo’ and the allocation of privileges that comes with it.

In terms of strengthening capacity, participants emphasised the importance of facilitating opportunities for co-researchers to develop knowledge and skills through training, which can in turn increase their confidence and access to opportunities. Furthermore, when community co-researchers gain the confidence to share their life experiences, they can become situated as insider researchers and are able to collect and represent community voices, contributing to the power sharing process. Skills like these have intrinsic value; they contribute to social empowerment, creating a sense of personal and collective purpose and catalysing communities to use co-produced knowledge and take action that can help sustain impact beyond individual research projects.40 42 In addition, mutual learning helps ensure that researchers learn from co-researchers about the project topic and possibilities for innovation in the local context.43 Involving co-researchers throughout the research process means not just encouraging participation at each stage, but respecting, valuing, acknowledging and incorporating community knowledge throughout.
<table>
<thead>
<tr>
<th>Aims</th>
<th>Actions</th>
<th>Tools/techniques that can support actions within research partnerships</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Micro level</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Embed discussions about power and empowerment</td>
<td>Be explicit and prioritise discussions about power and empowerment within and beyond research partnerships</td>
<td>➤ Explore assumptions about power using participatory tools such as Power Flower55, Chapati Diagram56 or Power Line51</td>
</tr>
<tr>
<td>Demystify abstract concepts associated with ‘power’</td>
<td>Explore power and empowerment terms and principles, strengthening understanding of concepts such as positionality and reflexivity and how they relate to power, privilege, and empowerment</td>
<td>➤ Rename and/or redefine CBPR principles so they are culturally appropriate, as done by the National Black Leadership Initiative82 ➤ Use metaphors, vignettes or alternative creative methods to demystify abstract concepts83</td>
</tr>
<tr>
<td>Ensure power is considered and addressed throughout each stage of the research process</td>
<td>Jointly decide key stages in the research process where power will be explored, reviewed and reflected on (eg, at the start of the project, after data collection and analysis, during advocacy or when taking action, throughout dissemination)</td>
<td>➤ Integrative practice framework that provides a structured process for developing and maintaining PR partnerships84</td>
</tr>
<tr>
<td>Acknowledge deep-rooted power dynamics and understand what they mean for power sharing within research partnerships</td>
<td>Explore ‘identity’ within the research partnership, discussing how reflexivity, roles, responsibilities, knowledge exchange, capacity and choice of language can support shifts in power</td>
<td>➤ The Tree of Life56 ➤ River of Life56 ➤ Metaphors to explore identity in relation to others37</td>
</tr>
<tr>
<td>Strengthen capacity of community and academic partners to, individually and collectively, pursue co-produced knowledge and take action for sustainable impact on research aspirations and beyond</td>
<td>Embed, measure and monitor capacity strengthening of soft and hard skills for community partners who are less experienced in research or social advocacy including confidence, self-esteem, effective leadership and communication, data collection and analysis, developing plans and constructing funding proposals</td>
<td>➤ Bilateral training for ‘partnership readiness’42 68 ➤ Mentors59 ➤ Social advocacy training70 ➤ Develop individual learning plans69 ➤ Value Creation Stories that collectively and individually generate immediate, applied and potential value of learning activities13</td>
</tr>
<tr>
<td><strong>Meso level</strong></td>
<td></td>
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</tr>
<tr>
<td>Enable community partners to set the agenda for the research and choose which approaches to implement</td>
<td>Share knowledge of research methods, interpretations, perceptions and interventions from similar projects in different contexts, promote and support community partner decision-making on which options to use or adapt</td>
<td>➤ Ranking exercises72 ➤ Participatory intervention mapping such as stepping stones to identify what steps are required to make change73 ➤ Training to become a peer educator74</td>
</tr>
<tr>
<td>Create safe communicative spaces for participants</td>
<td>Conduct research activities and discussions in settings that are familiar to co-researchers and provide opportunities to share experiences in safe spaces (eg, some marginalised groups feel more comfortable sharing stories with others who have similar experiences)</td>
<td>➤ Jointly develop ground rules for communicative spaces75 ➤ Ensure that there is collective voice to protect from the risks of individual representation76 ➤ Assess who is present and the power dynamics that may be at play, considering intersection axis of inequities within group settings77</td>
</tr>
<tr>
<td>Minimise ‘tokenistic’ participation in research</td>
<td>Employ mechanisms that ensure alignment with participatory research principles for participatory research,67 employ community governance structures to serve as a source of accountability in the partnership and provide structure to guide the partnership’s activities</td>
<td>➤ CBPR evaluation framework78 ➤ Follow quality criteria for PHR79 ➤ External and/or community advisory boards where community partners can voice concerns and priorities that otherwise might not enter into the researchers’ agenda10</td>
</tr>
<tr>
<td>Protect communities from feeling coerced into participating in research</td>
<td>Ensure safeguarding principles are in place within the research partnership and consider how opportunities to participate in research are presented and by whom</td>
<td>➤ Guidance on Safeguarding in International Development Research80</td>
</tr>
<tr>
<td>Shift decision-making to community partners early in the research process</td>
<td>Generate governance processes that are documented, shared and agreed by all members that clearly indicate decision-making roles and mechanisms of consensus and conflict management</td>
<td>➤ Memorandum of Understanding/Terms of Reference82</td>
</tr>
<tr>
<td>Address hierarchies within and across stakeholder groups</td>
<td>Co-develop indicators that can be used to jointly monitor shifts in the internal dynamics and relational environment within research partnerships</td>
<td>➤ Apply the ‘Dimensions of structural governance’ measures83</td>
</tr>
</tbody>
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Continued
<table>
<thead>
<tr>
<th>Aims</th>
<th>Actions</th>
<th>Tools/techniques that can support actions within research partnerships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintain trust between different stakeholder groups</td>
<td>Manage expectations to balance research project limitations and community needs/priorities while supporting ideas and ways to expand beyond the project scope</td>
<td>▶ Co-develop Terms of Reference to clearly define and communicate project limitations</td>
</tr>
<tr>
<td>Ensure appropriate reward for participation in research</td>
<td>Discuss reward systems as a partnership, explore what each partner wants to gain from the collaboration, what would incentivise and motivate them to continue, and what would be beneficial to all</td>
<td>▶ Example incentives include monetary payment, educational/training opportunities, prestige, recognition in communities, becoming a peer educator and increased access to information or networks</td>
</tr>
<tr>
<td>Examine the ethical risks associated with participatory health research</td>
<td>Have open transparent discussions that explore the impact of empowerment on individuals and groups within their sociopolitical environment</td>
<td>▶ Participatory Health Research: A Guide to Ethical Principles and Practice</td>
</tr>
<tr>
<td>Promote inclusivity and facilitate mutual understanding</td>
<td>Use participatory tools that promote inclusivity such as creative and narrative techniques, drama, storytelling, song and others</td>
<td>▶ Photovoice</td>
</tr>
<tr>
<td>Support documentation and community ownership of local knowledge</td>
<td>Prioritise the documentation of community knowledge that reflects local ways of knowing, ensuring that legal frameworks are in place to protect community rights and ownership of outputs to prevent exploitation for the gains of other more powerful partners</td>
<td>▶ Photovoice</td>
</tr>
<tr>
<td>Manage the balance of gatekeeper involvement to minimise potential exclusion of the most marginalised</td>
<td>Engage gatekeepers in attaining access to communities early on in the research, while considering other avenues to work with diverse population groups that may not be reached through gatekeepers</td>
<td>▶ Stakeholder mapping</td>
</tr>
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<td></td>
<td>Address ethical issues related to recruiting participants through gatekeepers by examining the complexities of human conduct</td>
<td>▶ Social media analysis to identify supporting groups</td>
</tr>
<tr>
<td>Understand the motives and intentions of gatekeepers</td>
<td>Evaluate gatekeepers’ motives, how routes of access affect research participation, and how the relationship between a gatekeeper and researcher is established and maintained</td>
<td>▶ Phronesis to support researchers to make critical ethical decisions based on the specific characteristics of the research sites and subjects</td>
</tr>
<tr>
<td>Macro</td>
<td>Ensure marginalised groups have equal opportunities for participation</td>
<td>Undertake social mapping and discursive activities to assess the distribution of power and resources across population groups</td>
</tr>
<tr>
<td>Recognise colonial legacies that generate power inequities within international partnerships</td>
<td>Have open conversations on the place of the ‘foreign gaze’, of local knowledge and of organic change in global health to help identify strategies to fundamentally undo colonial practices and attitudes</td>
<td>▶ Authorial reflexivity matrix, with combinations of local and foreign pose and gaze</td>
</tr>
</tbody>
</table>

**Table 5** Continued

**Macro**

Ensure marginalised groups have equal opportunities for participation

- Undertake social mapping and discursive activities to assess the distribution of power and resources across population groups

**Meso level**

At the meso level, key findings included the need to establish project governance processes that demarcate shared decision-making and power (including measures or indicators that can monitor shifts in power), to ensure alignment with participatory principles and avoid ‘tokenistic’ participation, to manage co-researcher expectations of the research process and to create spaces for trusted dialogue. Participants also discussed working with community advisory boards to increase accountability, co-developing reward systems that benefit all, safeguarding ‘empowered community partners’, protecting the intellectual rights of community knowledge and managing gatekeeper relations.

The complex and contested role of gatekeepers (eg, individuals/organisations that are important for community access but able to dictate who can participate) highlighted in our study is reflected and debated in the wider literature, and can be particularly problematic in terms of consent when gatekeepers are also service providers.

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CBPR, community-based participatory research.
providers (eg, social services, health services).47 Even so, much of the literature agrees that gatekeeper endorsement is required, to an extent, in participatory research projects.48 49 Interestingly, few participants in this study discussed the more positive roles of gatekeeping, for example in protecting communities from exploitative, non-participatory or purely theoretical research50 or increasing solidarity in partnership building.51 McFadyen and Rankin52 (p82) in their reflexive review of gatekeeper engagement in research found that ‘the level of understanding about the research, communication issues, motivation issues and fear or anxiety about the outcome’ were barriers to accessing marginalised groups. They also highlighted that when researching sensitive topics, gatekeepers should be engaged early in the research process to help manage attitudes and values that may be deeply held.

Participatory research exposes different safeguarding risks compared with traditional research approaches, and these risks should be explored in-depth and navigated to protect co-researchers and communities from harm. It is also important to ensure that safeguarding choices are co-developed and not imposed by academic ‘outsider’ researchers or research ethics boards from different sociodemographic and geographical contexts.53 54 Likewise, workshop participants reinforced the importance of creating safe communicative spaces as part of the trust-building process, which other studies have called out,55 especially when working with marginalised groups or those who have had negative research experiences.56

Macro level

At the macro level, participatory researchers reflected on the larger dynamics of discrimination and exclusion that impact PHR, the legacy of traditional research approaches, the unequal distribution of resources which can affect participation and the political and legal contexts that can put participants at risk of harm because of their participation.

Decolonisation has become a pressing topic in global health research in recent years.57 Participants in this study were aware of the realities of historical and contemporary power structures and the ways in which these structures continue to impact research processes. For example, participants discussed the legacy of traditional research approaches which have damaged trust between researchers and communities. Sometimes termed ‘extractive’ research,58 these approaches have left communities feeling that they should be passive subjects in research, or that they need to be ‘instructed’ on how to do research, thereby reducing community receptivity to more participatory ways of working. Historically marginalised communities often have greater research weariness as they are more likely to have been exploited or mistreated by researchers or medical professionals in the past.59

Strengths and limitations

The strength of this research lies in the drawing together of diverse views on power from people working in different spaces across different disciplines. We engaged with researchers who had participatory research experience working in 24 different countries, 20 of which are in the Global South. Their perspectives contribute to the creation of diverse knowledge systems on power. By emphasising a methodology developed in the Global South, and prioritising local and diverse knowledge, participatory research can help catalyse the shifts in global health research that are called for in the movement to decolonise global health.60 This study, presenting a wide range of insights related to power sharing in participatory and co-production research, is therefore timely, and will help to advance the practice of co-production research.

One of the main weaknesses of this study was the lack of engagement of community co-researchers and other non-academic or professional stakeholders. We identified and discussed potential barriers to community co-researcher participation in Egid et al 2021,34 which included limited access to the online platform, COVID-19 restrictions that made it difficult to access the Internet from shared spaces, issues with recruitment, language barriers, and power imbalances within the workshops. The absence of community co-researchers in the participant group may have acted to reinforce existing power differentials between academic and community co-researchers, as the study effectively gave a voice to the those who already held more ‘privileged’ power and overlooked the fact that community co-researchers have distinct experiences of power.59 Engaging community-based co-researchers and other non-academic stakeholders in future research of this type will be essential for ensuring that new understandings of power in PHR are representative of all stakeholders engaged in participatory processes.

CONCLUSIONS

Despite widespread assumptions about power sharing and trust-building dynamics, adopting a participatory approach is not in itself sufficient for addressing power inequities. The ‘Social Ecology of Power’ framework is a useful tool for engaging with power inequities that cut across the social ecology, highlighting how they can operate at the micro (individual), meso (interpersonal) and macro (structural) level. These inequities must be identified, discussed and addressed throughout the research process. This study reiterates that power is pervasive, and that while many researchers are intentional about engaging with power, actions and available tools must be used more systematically to identify and address power imbalances in co-production and participatory research partnerships, in order to contribute to improved equity and social justice outcomes.

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