ORIGINAL RESEARCH

‘We walked side by side through the whole thing’: A mixed-methods study of key elements of community-based participatory research partnerships between rural Aboriginal communities and researchers

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Abstract

Objectives: To advance the rural practice in working with Aboriginal communities by (a) identifying the extent of community partners’ participation in and (b) operationalising the key elements of three community-based participatory research partnerships between university-based researchers and Australian rural Aboriginal communities.

Design: A mixed-methods study. Quantitative survey and qualitative one-on-one interviews with local project implementation committee members and group interviews with other community partners and project documentation.

Setting: Three rural Aboriginal communities in New South Wales.

Participants: Thirty-seven community partners in three community-based participatory research partnerships of which 22 were members of local project implementation committees and 15 were other community partners who implemented activities.

Intervention: Community-based participatory research partnerships to develop, implement and evaluate community-based responses to alcohol-related harms.

Main outcomes measures: Community partners’ extent of and experiences with participation in the community-based participatory research partnership and their involvement in the development and implementation processes.

Results: Community partners’ participation varied between communities and between project phases within communities. Contributing to the community-based participatory research partnerships were four key elements of the participatory process: unique expertise of researchers and community-based partners, openness to learn from each other, trust and community leadership.

Conclusion: To advance the research practice in rural Aboriginal communities, equitable partnerships between Aboriginal community and research partners are
INTRODUCTION

Over the past two-and-a-half decades, community-based participatory research (CBPR) has grown to be one of the preferred research approaches when addressing health inequalities, including in rural and Aboriginal communities. CBPR is a collaborative approach that facilitates equitable partnerships between researchers and communities with the primary aim to develop actions to address the communities' priority issues. CBPR empowers rural communities to address locally identified factors that impact on their health and well-being and use existing strengths to implement solutions. It strengthens community capacity to make positive changes and improves program sustainability, both of which enhance the likelihood of achieving positive health outcomes.

While much has been written about CBPR, there remains uncertainty on how the participatory processes are implemented in practice at the grassroots level in rural communities as a clear description of these processes is often lacking in the published literature. For example, a 2015 literature review of community participation in community development projects with Aboriginal and Torres Strait Islander people in Australia identified that only half of the included publications clearly described the participatory processes that were used in the study and they were described from researchers' perspectives. Documenting the participatory processes used and articulating the key elements of successful participation based on community members' perspectives can advance rural practice by providing practical guidance for future CBPR partnerships with rural and Aboriginal communities.

This study articulates key elements of three CBPR partnerships between researchers and rural Aboriginal communities and provides practical examples of how these elements were operationalised. The specific aims of this study were to: (a) report community-based partners' perceptions of the extent of their preferred and actual participation in the CBPR partnership; and (b) describe key elements and their practical operationalisations of the participatory processes.

METHODS

This was a mixed-methods study investigating the participatory processes of three CBPR partnerships between university-based researchers and three rural Aboriginal communities in New South Wales (NSW).

2.1 CBPR partnerships

The CBPR project was built on an existing research partnership between two chief investigators on the project and the Aboriginal Community Controlled Health Organisation (ACCHO) that services all three communities. The project was initiated in response to a call for expressions of interest for projects evaluating the approaches to reduce injuries...
and improve safety in Aboriginal communities by the NSW Department of Health in 2011. Consultations by one of the investigators, using group discussions and one-on-one conversations with community members, service providers and representatives of the ACCHO, identified that reducing alcohol-related injuries and violence was a priority among Aboriginal Australians in the three communities. Community members, the ACCHO and other service providers supported the grant application, which was successful, and the project commenced in January 2014 and finished in December 2016.

In the CBPR project, Aboriginal project coordinators were employed through a competitive recruitment process that included a joint selection panel with researchers and community-based partners. Project-specific implementation committees (ICs), chaired by a local Aboriginal leader, were established in each community. IC members were Aboriginal community members and Aboriginal and non-Aboriginal service providers who were identified by the ACCHO and formally invited by the researchers. The role of the ICs, as specified in a partnership agreement formalised at the beginning of the project, was to: (a) select the most appropriate activities; (b) oversee the implementation of the activities with a focus on optimising their fidelity and sustainability; (c) problem-solve challenges as they arise; (d) ensure that Aboriginal ethical values (spirit and integrity, cultural continuity, responsibility, reciprocity, respect and equity) were respected and incorporated throughout the CBPR project; and (e) contribute to research papers and reports. The ICs met monthly throughout the project's 3-year duration. One researcher (MS) attended all meetings, and another (AS) attended 25% of the meetings, to allow for more community leadership during meetings.

The ICs, researchers and the project coordinators collaboratively developed a community-based approach with three core components: (a) improved service delivery for high-risk families and individuals; (b) recreational and cultural activities to alleviate boredom and reconnect community members with their culture and community; and (c) improved empowerment of community members to more effectively cope with high-risk situations (eg conflict, periods of unemployment, risk periods for alcohol consumptions). These core components were the same for all three communities, and each community identified and implemented their own specific activities that operationalised these core components based on their unique circumstances (Table 1). Activities were proposed by IC members, researchers, project coordinators or other community members, using a proposal form detailing the activity's aims, target group, time, location and costs. Each IC received $50 000 from the research funding to implement their selected activities.

### 2.2 Participants, data collection and analyses

Partners with more involvement in the project (operationalised as having an active role in organising activities and attending at least 25% of meetings) were purposively sampled

| Core components | Community 1 | Community 2 | Community 3 |
|-----------------|-------------|-------------|-------------|
| Improved service engagement | Case coordination<br>Skill training<br>Engagement officers | Case coordination<br>Engagement officers | Engagement officers |
| Community activities | Midnight basketball<br>Cultural activities<br>Billiards competition<br>Skate slam<br>Cultural sports day<br>BBQ in the park | Touch football<br>Movie night<br>Cultural activities<br>Boxing classes<br>School holidays<br>program | Movie night<br>Country music<br>Community meeting<br>Cultural activities<br>Night basketball<br>Hip-hop dancing<br>Indoor soccer<br>Talent quest<br>Outdoor movie<br>Touch football day |
| Improved empowerment | Family well-being | Family well-being | Family well-being<br>Self-esteem program |

*Core components were used to provide standardisation of the program across the three communities to facilitate comparison in the evaluation; however, within each core component each community could implement community-specific activities that were in line with their community's priorities, resources and strengths.
to participate in one-on-one (IC members) and group (other partners) interviews: 22 IC members (Figure 1) and 15 other community-based partners (Figure 2). Interviews took place 2-3 months before the end of the project funding period.

The 22 IC members completed a self-report participation survey, which measured their preferred and actual levels of participation across four project phases: needs assessment, development, implementation and evaluation. The 7-point participation scale (Box 1) was based on an adaptation of Pretty’s typology,22,23 which was further adapted for Aboriginal communities by the authors1 and approved by the ICs. The self-report surveys were entered into an Excel spreadsheet, and scores were averaged for each community and presented in a spider diagram.10

Following completion of the survey, phone interviews were conducted with 22 IC members by an independent non-Aboriginal interviewer to avoid potential bias in responses due to the existing relationships between the researchers and IC members. Interviews covered IC member’s roles in the project, their perceived participation (prompted by their answers on the self-report survey), their perception of the project’s impact on their community, the project’s successes and the aspects of the project that could have been improved. On average, interviews lasted 35 minutes.

One group interview was conducted with other community-based partners in each community by MS. The group interviews followed a topic guide with questions that covered barriers and facilitators to the implementation of activities, perceived effectiveness and community impact of activities in line with project aims, and sustainability of the activities.24 Group interviews lasted on average 56 minutes.

The project documents collected throughout the project comprised minutes of IC and other community meetings (n = 53), research protocol documents (n = 3) and activity proposal forms (n = 18). Minutes of IC meetings and the research protocol documents were written by the researchers or Aboriginal project coordinators and approved by the ICs.

Interviews were audio-recorded and transcribed verbatim. All identifiable information was deleted prior to transcription and analysis. Project documents and all interview transcripts were collated and thematically analysed using

**FIGURE 1** Implementation committee member meeting attendance and interviews
A coding framework based on the CBPR literature was created and comprised nine a priori codes based on research literature\textsuperscript{1,23,27,28} and five bottom-up codes identified during initial coding (Table 2). MS familiarised herself with the data by reading all transcripts prior to coding the data using the coding framework. MS coded all interviews and documents using this framework, and AM, who had no previous involvement in the project, coded one randomly selected IC member interview from each community (n = 3) as a quality control check. There was a fair inter-rater agreement (κ = 0.51). Codes were summarised into themes, forming the key elements. Resulting themes were cross-checked and discussed with the ICs during the final meetings in each community.

The Aboriginal Health and Medical Research Council Ethics Committee (No: 987/13) and the NSW Population and Health Services Research Ethics Committee (No: 2014/02/516) approved this study. All participants provided signed informed consent.

2.3 | Ethics approval

The NSW Aboriginal Health & Medical Research Council’s Ethics Committee (No: 987/13) and the NSW Population and Health Services Research Ethics Committee (No: 2014/02/516) approved this study.
RESULTS

3.1 | Perceptions on the extent of community participation

The three rural Aboriginal communities reported equitable partnerships with researchers across all phases of the project, as illustrated by this IC member’s comment: ‘We walked side by side through the whole thing’ [IC member 2]. Figure 3 shows each communities’ preferred and actual levels of participation.

Community 1’s preferred and actual levels of participation were similar during the needs assessment and implementation phases (level 5—functional participation). In the development phase, they showed a preference for interactive participation (level 6) but perceived there to be functional participation (level 5). Conversely, the community would have preferred functional participation (level 5) during the evaluation phase, but perceived there to be interactive participation (level 6).

Community 2’s actual participation was lower than their preferred participation across all phases, especially in the needs assessment phase where there was a preference for interactive participation (level 6) compared with their perceived level of participation (level 4—participation by consultation). In community 3, preferred participation rates (level 4—participation by consultation) were lower than actual participation rates (level 5—functional participation) in each phase.

3.2 | Key elements of participatory processes

Table 3 lists the four key elements along with practical examples of how they were operationalised within the three CBPR partnerships.

3.2.1 | Complementary expertise of researchers and community-based partners

Implementation committee members, other community-based partners and the researchers contributed unique expertise to the project, which was used to optimise the project...
and provide benefits to the communities (e.g., through collection and access of localised data on community safety, identification and delivery of evidence-based interventions). Researchers brought in expertise about data collection, analysis and evidence-based programs:

That first section was more a lot of the work the university did … collecting the data from police, hospitals. You know, like it was a lot of … real solid statistical data-  

IC member 12

The evaluation we see as being really the realm of the New South Wales uni and [the project coordinator]. so you know,
conducting the surveys, compiling the information and then disseminating that info and then it would be [...] brought to the table at the implementation committee meetings just to show us some current updates at the time - IC member 11

[Midnight Basketball] was a suggestion that came from the researchers when the Implementation Committee were talking about that the kids needed to have some kind of activities. So, it was really good that they had the knowledge of this particular program - IC member 17

Implementation committee and other community members contributed their knowledge regarding local issues and strengths and programs that would work well in their community:

When we first started off sort of trying to identify the issues, that was easy enough because we were all – we’re a group of people with a lot of skills and sort of being out in the community a lot - IC member 3

Us knowing the community and what the issues and the needs were – IC member 2

3.2.2 | Openness to learning

Openness to learning from community and research partners was essential to successfully integrate the unique expertise of everyone to benefit the project. This openness was present among the research partners towards community partners:

You could see that they were very open to learn what the local issues and what people’s thoughts were about the local issues - IC member 20

This was also present among the community partners towards each other and the research partners:

[…] us also being open to what the researchers thought on that … I just think that, that’s the best way to approach things, and like I said, you learning from one another - IC member 2

It was just a matter of tapping into everyone’s knowledge and skills of what was going on in the community, where the issues were, and whether it was youth or whether it was alcohol with the elders - IC member 3

Open and transparent communication and regular contact (eg weekly phone calls and monthly meetings) between the research and the community partners was identified as a prerequisite to learn from each other:

The communication was excellent, and it was always, I guess, open and transparent, so that was, it was really positive - IC member 4

3.2.3 | Trust

Interviewees commented that there was less-than-optimal involvement of the broader Aboriginal community in the early phases of the project because of initial mistrust towards research partners from some community members, based on numerous community consultations in past projects, without resulting in tangible benefits to the community:

The community has been consulted and consulted over the years and time and time again, and sometimes they just go …, we’ve already told people this stuff … what are we doing this stuff for? - IC member 6

The employment of local project coordinators and implementation of activities appeared to improve trust within the community, strengthening overall community engagement, because community members could see that the proposed ideas were translated into activities and benefits.

Things happening has been the catalyst for better community engagement - IC member 6

It’s been that shift from, you know, talking about stuff to actually things happening, and people seeing the value in what’s was going on - Group interview 2

3.2.4 | Local community leadership

Local community leadership was achieved by sharing decision-making with the ICs:
The researchers really handed the reins over to the Implementation Committee … the decisions would be made at that meeting -

IC member 11

Employing full-time Aboriginal project coordinators and casual community-based research assistants was an essential element in the participatory processes.

It’s very important to have a community member, because you can’t have an out-of-towner come in to a community and tell them how you’re going to organise or run things without notifying the community -

Group interview 1

The day-to-day management of the project by the local coordinators allowed the community to have direct governance over the project and strengthen research capacity in the community. Being in the community facilitated the data collection by attending and recruiting from community activities and awareness of the whereabouts of community members for follow-up. The coordinators and community research assistants had strong connections to their community enabling trust among participants to complete surveys with them, rather than with non-Aboriginal researchers. The project coordinator ensured that the project was community-led, activities were implemented, and the community was engaged in the project:

Since [project coordinator has] come on board, there’s been lots of involvement from the community, through all the different activities. And now people are engaging with these things -

IC member 8

But once we did get [the project coordinator] employed, we started to make some really good ground -

Group interview 1

4 | DISCUSSION

This mixed-methods study identified that community partners in three CBPR partnerships perceived their level of participation to be moderate to high. To the authors’ knowledge, this was one of the first studies to also measure the community partners’ preferred level of participation and identified discrepancies between the preferred participation and actual
participation. The preferred participation of community partners was between functional participation and interactive participation, identifying a lower preference for participation in certain project phases, based on available skills, particularly evaluation. The actual reported participation of community-based partners ranged from participation by information to interactive participation. Reflecting the unique characteristics of each community, participation levels varied between communities and across project phases within the communities, as also identified in previous research.1,7,13,23,29,30

This study identified complementary expertise, openness to learning, trust and local leadership as key elements for the participatory processes. Complementary expertise of research and community partners is important for equitable CBPR partnerships in rural communities because they typically address complex, multifaced issues.7,27,30,31 The CBPR partnerships in this study addressed alcohol-related harms, requiring expertise related to health, crime, program implementation and evaluation, social and youth work, education and employment. Identifying and using the expertise that each partner brings to the project were beneficial to establish an equitable partnership. The CBPR partnerships in this study equally respected the expertise of community and research partners, rather than prioritising research expertise; for example, community partners’ expertise about program implementation and research partners’ expertise about evaluation were equally respected. This study provided practical examples of what this core value of CBPR identified by Israel et al.32 can look like and how partners will be involved in different ways, depending on their expertise and skills. Our study showed that not only the extent of participation but also community partners’ preferred participation varied across the project phases, in line with partners’ expertise and skills. Identifying skills that can be contributed to the partnership helps to explain why not all partners were meaningfully engaged on an ongoing basis. As the project shifted its focus over the 3 years, different skills are needed from different partners, causing some partners to drop in and out of the partnership.30 For example, a shift away from employment skill-building activities to diversionary activities meant that employment agencies and vocational education providers no longer joined the conversations. While community-based partners should be involved in all aspects of the CBPR project, this study indicated that the partners’ area of expertise influenced their roles and extent of participation in the CBPR project.

An openness to learning from each other’s expertise can help generate new knowledge to inform action to address the identified issues, which is the primary aim of the CBPR partnerships.7 Co-learning has long been identified as a key principle of CBPR.5,7 This study confirmed that co-learning was also an essential element in the rural Aboriginal CBPR partnerships. Practically, the study showed that co-learning between research and rural Aboriginal community partners was facilitated through regular interactions and a general attitude from both sides that the others’ knowledge and skills are important. In this sense, CBPR partnerships can contribute to decolonisation by providing a means to integrate Indigenous knowledge into the research processes and valuing Aboriginal community partners’ expertise to the same extent as research partners’ expertise.17,33

Building trust between researchers and communities is an essential element of ethical research with Aboriginal people14,17,20 and partnerships more generally.30,34 Mistrust towards researchers can exist in Aboriginal communities because of past research that has provided little or no direct benefits to, or even harmed, the participating communities.33,35-37 Initial mistrust existed in rural Aboriginal communities in this study, but integrating processes and actions with direct benefit to the community helped build the trust in the partnerships and broader community. This is in line with the primary aim of CBPR partnerships to develop actions, rather than generating new scientific knowledge.31 This study highlighted that developing and implementing community programs and providing employment opportunities contributed to building the communities’ trust, as direct benefits of the project to the community were clearly visible.

While this study identifies mistrust between community and researchers, there are also complex layers of mistrust between groups within communities and lateral violence that can impact on researcher-community relationships. Researchers should be aware of kinship relationships within the communities and aim to build relationships with the different groups so that their research does not worsen divisions within communities by preferencing one group.38,39 Further research into lateral violence and how researchers and communities can address this in participatory research would be beneficial.

Promoting community leadership provided additional direct benefits to the community and contributed to trust between community and research partners. Like in most research with Aboriginal communities, the CBPR partnerships were initiated by the researchers,30 but the participatory process of enhancing community leadership contributed to the project becoming community-led, as identified in previous studies.7,41,42 This was operationalised by employing local coordinators and establishing local ICs with decision-making power over the way research funding was spent. This created meaningful partnership by shifting the traditional financial power imbalance that can exist between researchers and communities because researchers generally receive, and are responsible for allocating, research funds.37,43

4.1 Methodological considerations

The purposive sample selection could have resulted in bias towards more positive responses. The use of an independent interviewer and phone interviews aimed to reduce this bias by increasing a sense of anonymity among the participants.44 It was important to the aims of this study to interview those
partners who had been involved in most of the project, as they would be able to provide the most meaningful feedback about the participatory processes.

Using meeting attendance as a crude measure for engagement with the partnership might not have provided the best benchmark, firstly, because some partners simply could not attend the meeting at the times they were held and, secondly, because there were other ways partners contributed to the partnership outside of formal project meetings, for example by other activity-related meetings, relationship-building activities and informal conversations. These ways of engagement were not documented. For a more complete picture of ongoing engagement, future research should try to monitor how and in which phases partners engage with the partnership and when different skills are needed.

Another limitation of this study was that the extent of community participation was only measured once. Participants sometimes had difficulty remembering events that took place 2 or 3 years earlier. Given the variation in the level of community participation across project phases, future research evaluating participatory processes could benefit from implementing multiple points of evaluation throughout the project. This would address participants' difficulties with remembering critical phases of the project, reduce participants' time commitment and capture feedback from those partners who reduce their involvement in the partnership in later project phases. It might minimise the possibility that variation in reported levels of community participation is a consequence of variation in reporting, as opposed to actual levels of participation. In terms of measuring community partners' preferred participation, this would also be beneficial to take place at the start of a partnership to give partners an opportunity to shape the partnership.

5 | CONCLUSIONS

This study was one of the first to practically outline the key elements and their operationalisation of participatory processes that can promote meaningful partnership between research and rural Aboriginal community partners. Specific participatory processes depend on the communities, the nature of the issues addressed and the expertise of the partners involved. This research outlined ways in which CBPR partnerships can integrate expertise, openness to learning, trust and community leadership to facilitate participatory processes and build partnerships. Practically, this included regular communications (face-to-face, phone and email), local decision-making power (eg about funding allocations and priorities) and direct and concrete benefits to the communities (employment of community members, access to funding to implement program and access to data).

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DISCLOSURES

Authors Bonita Byrne, Jamie O'Neill and Ronald Bamblett were the Aboriginal project coordinators on the CBPR project described in this paper. They were also participants of the focus groups as community members who were leading the implementation of project activities.

AUTHOR CONTRIBUTIONS

Conceptualisation, M.S. and A.S.; methodology, M.S., A.S. and A.W.; formal analysis, M.S., A.M and A.W.; resources M.S. and A.S.; writing-original draft preparation, M.S.; writing-review and editing, M.S., B.C., A.M, A.W. and A.S.; visualisation, M.S.; supervision, B.C., A.W and A.S.; project administration A.S.; funding acquisition, A.S. All authors have read and agreed to the published version of the manuscript.

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