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The conduct of Australian Indigenous primary health care research focusing on social and emotional wellbeing: a systematic review

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Key points

- Authors of Australian Indigenous primary health care research rarely report how their research addresses the national ethical guidelines, *Values and ethics: guidelines for ethical conduct in Aboriginal and Torres Strait Islander health research (Values and ethics)*
- Culturally sensitive approaches, developing relationships and involving community members appear to enable research, and uphold the principles in *Values and ethics*
- The academic community should focus on developing the Indigenous research workforce
- Authors should be encouraged to report actions and processes taken during research, to inform research planning and learning between research teams

Abstract

Objectives and importance of study: *Values and ethics: guidelines for ethical conduct in Aboriginal and Torres Strait Islander health research (Values and ethics)* describes key values that should underpin Aboriginal and Torres Strait Islander (Indigenous)-focused health research. It is unclear how research teams address this document in primary health care research. We systematically review the primary health care literature focusing on Indigenous social and emotional wellbeing (SEWB) to identify how *Values and ethics* and community preferences for standards of behaviour (local protocols) are addressed during research.

Study type: Systematic review in accordance with PRISMA Guidelines and MOOSE Guidelines for Meta-Analyses and Systematic Reviews of Observational Studies.

Methods: We searched four databases and one Indigenous-specific website for qualitative, quantitative and mixed-method studies published since *Values and ethics* was implemented (2003). Included studies were conducted in primary health care services, focused on Indigenous SEWB and were conducted by research teams. Using standard data extraction forms, we identified actions taken (reported by authors or identified by us) relating to *Values and ethics* and local protocols.

Results: A total of 25 studies were included. Authors of two studies explicitly mentioned the *Values and ethics* document, but neither reported how their actions related to the document's values. In more than half the studies, we identified at least three actions relating to the values. Some actions related to multiple values, including use of culturally sensitive research processes and involving Indigenous representatives in the research team. Local protocols were rarely reported.

Conclusion: Addressing *Values and ethics* appears to improve research projects. The academic community should focus on culturally sensitive research processes, relationship building and developing the Indigenous research workforce, to facilitate acceptable research that affects health outcomes. For *Values and ethics* to achieve its full impact and to improve learning between research teams, authors should be encouraged to report how the principles are addressed during research, including barriers and enablers that are encountered.

Introduction

Primary health care research focusing on Aboriginal and Torres Strait Islander (Indigenous) peoples' needs is crucial to ensure evidence based and acceptable care is available. Perceptions that some past Indigenous-focused health research has provided minimal benefit, or excluded Indigenous people, have led to concerns surrounding Indigenous-focused research practices.¹

To guide researchers, ethics committees and communities, *Values and ethics: guidelines for ethical conduct in Aboriginal and Torres Strait Islander health research*² (*Values and ethics*) and its companion document³ were developed. For research involving Indigenous people, *Values and ethics* has the same status and authority as the *National statement on ethical conduct in human research*.⁴ Although some authors have described addressing the *Values and ethics* document during research⁵⁻⁸, its impact on research conduct is unclear.^{5,9} An evaluation of *Values and ethics* by the Lowitja Institute and the National Health and Medical Research Council (NHMRC) is under way.¹⁰

Primary health care services are considered the 'frontline' of the health system and are well positioned to identify and manage problems relating to social and emotional wellbeing (SEWB). The high rates of suicide and psychological distress among Indigenous people¹¹ call for a particular focus on ensuring that SEWB care is effective, evidence based and acceptable. Research provides the framework to explore and assess SEWB care. Many Indigenous-focused primary health care services have programs or teams focusing on providing SEWB care. These services are often part of research teams involving primary health care staff, community members and externally located researchers, who collaborate to conduct SEWB research.¹² Particular consideration of this research is needed because of the

sensitive nature of research focused on SEWB and the challenges of implementing research in primary health care services.

Values and ethics identifies the following six values as key in underpinning research: reciprocity, respect, equality, responsibility, survival and protection, and spirit and integrity (see review protocol for definitions¹³).² *Values and ethics* is an authoritative statement on Indigenous-focused health research. Other guidance documents include a practical guide for researchers¹⁴, a guideline for the ethical conduct of research¹⁵ and a document identifying important principles for Indigenous-focused health research.¹⁶ In previous work⁸, authors have drawn on the principles¹⁶ to examine the processes and procedures required to address its recommendations.

There is overlap across these documents^{2,14-16}, with a common feature being to involve Indigenous representatives. However, there may be a lack of involvement, or reporting of involvement, of Indigenous people in research. This is demonstrated in a review of Indigenous child health research¹⁷ that identified involvement in only 28.6% of the 217 studies included.

Alongside *Values and ethics*, communities' preferences and priorities should be considered during research planning and conduct. Community preferences can be formally documented local protocols¹⁸, or undocumented standards of behaviour that research projects must adhere to within a community.

Using examples of Indigenous-focused SEWB primary health care research, we review and identify actions taken during research related to the application of *Values and ethics* and local protocols. Our previous review¹⁹ described the study designs, processes and main findings, and assessed the quality of the identified studies.

Methods

The methods used in this review are previously published^{13,19}, and are in accordance with PRISMA and MOOSE guidelines. This study is registered with PROSPERO (CRD42015024994). In brief, we searched Medline, Embase, CINAHL, Informit and HealthInfoNet. A date limit of January 2003 to February 2015 was applied to capture qualitative, quantitative or mixed-method studies conducted since the publication of *Values and ethics*. We included studies that were conducted in primary health care services, focused on Indigenous SEWB and that were conducted by research teams. We defined research teams as collaborations developed to conduct research that include primary health care staff or community members and researchers located outside the community. We included journal articles, reports and evaluations.

SEWB describes a strengths-based, holistic perspective of mental health that acknowledges social, historical and protective factors.²⁰ In this review, we included SEWB, mental health, smoking or alcohol use, and depression and anxiety disorders. Primary health care services include Aboriginal medical services (AMSs), Aboriginal community controlled health services, and health services that provide primary health care or have general practitioners as staff members. Community refers to primary health care or AMS staff, patients, families or community members.

Data were extracted onto standard forms developed for this review. We identified when authors reported, or we identified actions taken relating to, the values detailed in *Values and ethics* using a previously developed list of potential actions¹³ and local protocols.

Results

Our search identified 2288 articles and projects. Following screening, 402 were found to be duplicates and 1491 articles were removed as they did not meet our inclusion criteria (described previously¹⁹). A total of 395 articles were reviewed by two reviewers, and 32 articles relating to 25 studies were included in the review (Supplementary Table 1 provides a full reference list; available from: www.researchgate.net/publication/317099307_FINAL_2017_05_25_Farnbach_Systematic_Review_Supp_Tables). When two articles reported on one evaluation^{21,22} or project^{23,24} and ^{25,26}, or articles appeared to report data collected from one set of surveys^{27,28}, interview/focus group sessions^{29,30} and ^{31,32} or questionnaires^{33,34}, we included both articles and considered it as a single study.

The included studies focused on SEWB (nine)^{25,26,31-40}, alcohol misuse (five)^{27,28,41-44}, smoking cessation (four)^{29,30,45-47} or dual diagnosis (SEWB and drug/alcohol misuse; three).^{23,24,48,49} Two studies focused on

depression.^{50,51} One focused on depression or anxiety⁵² and another on a mental health worker program.^{21,22}

Three studies were part of the Australian Integrated Mental Health Initiative (AIMhi)^{25,26,36,37}, a large research initiative aiming to improve outcomes for Indigenous clients of remote mental health services. The AIMhi 1^{25,26}, AIMhi 2³⁶ and AIMhi 3³⁷ studies have involved a research team known as the AIMhi Priority Driven Partnership, which involved community-based and university-based researchers.³⁸ Three studies were part of the Voices United for Harmony program, which developed and assessed a participatory singing program aimed at improving SEWB and physical health.^{33,34,39,40} Another three focused on alcohol screening and brief interventions in AMSs.⁴¹⁻⁴³ One study that modified a psychological screening instrument⁵⁰ was followed by another assessing its validity.⁵¹

Use of *Values and ethics* and local protocols

Authors explicitly mentioned *Values and ethics* in only two studies.^{44,47} In one⁴⁷, authors identified their use of participatory action research methods as being in line with the document, and in the other study⁴⁴, authors reported following *Values and ethics* during the research process. However, neither described specific actions relating to the values detailed in *Values and ethics*.

From the 25 studies, we identified 88 actions that related to (endorsed) the values in *Values and ethics*. Because each action could relate to more than one value, we identified a total of 146 endorsements of the values across all studies (Table 1). Several actions were identified in multiple studies (Table 2). Most common was acknowledging the contribution of primary health care staff^{27-34,36,37,39,40,42,49,52}, services^{21,22,31-34,39,40,43,50}, patients^{33,34,39,40,42,49}, communities^{27,28}, Indigenous organisations^{29,30} or community members⁵² in publications, or including staff as authors on publications.^{29,30,38,44-47,49-52} In seven studies, Indigenous representatives were involved with research teams.^{25,26,33,34,38-40,44,52} This endorsed five values. Authors of two studies^{35,43} reported visiting the community during research planning, with visits helping authors to understand the local context.⁴³ Carey reports³⁵:

The researcher spent approximately 12 months travelling to the community to develop and build relationships ... these visits provided the principal researcher with an enhanced awareness of the functioning of the community, helped inform the design of the research, and promoted a greater understanding of the purpose of the research by members of the community.

The largest number of actions we identified from a single study was seven ($n = 3$ studies).^{25,26,29,30,52} Some actions endorsed several values. For example, three studies used participatory action research methods^{25,26,29,30,47} demonstrating respect, equality, responsibility, and spirit and integrity. In one study^{33,34},

authors modified the study to a nonrandomised design following community feedback, demonstrating reciprocity. This recognised the community's aspirations and

demonstrated commitment to work within the spirit and integrity of the community.

Table 1. Percentage of studies with actions that endorsed values² and the number of endorsements for each value

Value	Studies with actions identified by reviewers that endorsed each value (N = 25 studies), % (n)	Number of endorsements for each value (n = 88 actions; n = 146 endorsements) ^a
Respect	96 (24)	62
Reciprocity	60 (15)	20
Survival and protection	32 (8)	18
Responsibility	48 (12)	17
Equality	44 (11)	16
Spirit and integrity	52 (13)	13

^a 'Endorsements' are the number of times an action related to a value. Some actions endorsed (or related to) multiple values.

Table 2. Summary of reported (by author) and identified (by reviewers) use of *Values and ethics*

Action or process identified as addressing the values in <i>Values and ethics</i> (number of studies)	Reciprocity	Respect	Equality	Responsibility	Survival and protection	Spirit and integrity
Acknowledgement in the publication of primary health care staff ($n = 11$) ^{27-34,36,37,39,40,42,49,52} , services ($n = 8$) ^{21,22,31-34,39,40,43,50} , patients ($n = 5$) ^{33,34,39,40,42,49} , communities ($n = 1$) ^{27,28} , Indigenous organisations ($n = 1$) ^{29,30} or community members ($n = 1$) ⁵²		X				
Publication authorship includes primary health care staff ($n = 7$) ^{38,44,45(a),46,47,49-51} or Indigenous organisation staff ($n = 2$) ^{29,30,52}		X				
Research team involves Indigenous representatives: Community Elders ($n = 3$) ^{33,34,39,40} ; primary health care staff ^b ($n = 3$) ^{33,34,39,40} ; steering committee membership ($n = 1$) ⁵² ; reference group membership ($n = 1$) ⁴⁴ ; as investigators ($n = 1$) ^{25,26} ; or families, carers and communities were involved ($n = 1$) ³⁸		X	X	X	X	X
Research interventions were informed by previous locally conducted studies ($n = 2$) ^{41,43} or feedback from primary health care staff/patients/community ($n = 3$) ^{25, 26(c),47,50}		X				
Intervention developed within a collaborative framework ($n = 1$) ⁴⁶		X				
Participants reimbursed for participation ($n = 5$) (voucher amount: \$25 ⁴⁵ , \$40 ^{27,28} , \$50 ^{35,49,52})		X				
Flexible interview location ($n = 2$) ^{49,52} , time ($n = 1$) ⁴⁵ , or methods ($n = 1$) ^{31,32}	X					
Community identified need for research ($n = 3$) (drug and alcohol services ⁴⁸ , formal service evaluation ³⁵ , or alcohol screening and brief intervention ⁴²)	X					
Resources adapted for use by Indigenous people ($n = 3$) (screening cut-off points ^{27,28} , depression screening tool ⁵⁰ or mental health strategy ^{25,26})		X				
Participatory action research methods used ($n = 1$) ^{25,26} Used in combination with social-ecological perspective ($n = 1$) ^{29,30} or yarning techniques ($n = 1$) ⁴⁷		X	X	X		X
Research approved by community research governance committee ($n = 4$) ^{25,26,31,32,44,45}		X				
Consultation informed resources and training materials ($n = 1$) ^{23,24} or study instruments ($n = 1$) ^{27,28(d)}		X				
Study planning and implementation driven by primary health care staff ($n = 2$) ^{38,45(e)}		X			X	
Regular visits during planning to understand local processes/context ($n = 1$) ⁴³ or to develop research methods ($n = 1$) ³⁵						X
Informed consent involved two-step process ($n = 1$) ³⁵ or written, pictorial and translation options ($n = 1$) ^{25,26}				X		
'Two-way learning' processes used ($n = 2$) ^{21,22,29,30}	X	X	X	X	X	X

Continued next page

Action or process identified as addressing the values in <i>Values and ethics</i> (number of studies)	Reciprocity	Respect	Equality	Responsibility	Survival and protection	Spirit and integrity
Action plan developed to implement research findings ($n = 1$) ⁴⁸	X					
Resources will remain with the community ($n = 1$) ^{23,24}	X					
Phenomenological research methods used ($n = 1$) ⁴⁵		X			X	
Interviews conducted by Indigenous community member ($n = 1$) ⁴⁵		X				X
Chief Executive Officer at primary health care service approved publications or results before release ($n = 1$) ^{27,28}				X		
Intention to provide information to other communities by identifying processes instead of programs in evaluation ($n = 1$) ³⁵	X					
Study design developed in conjunction with the research governance committee (health board) ($n = 1$) ³⁵			X	X		X
Project underpinned by six Iga Warta principles for Aboriginal health projects (prevention, coordination, sustainability, social determinants of health, sensitivity to Indigenous notions of time and space, and community and family) ($n = 1$) ^{29,30}		X				X
Focus on knowledge translation, and findings provided to stakeholders ($n = 1$) ^{29,30}	X					
Cultural mentorship of researchers by respected Elder ($n = 1$) ^{29,30}					X	
Visits by researcher during research according to Aboriginal medical service needs and preferences ($n = 1$) ⁴²	X					
Study proposed by the Indigenous organisation ($n = 1$) ⁵²			X			
Regular feedback provided to stakeholders. Steering committee (including community representatives) provided feedback on findings ($n = 1$) ⁵²			X	X		
Authors did not publish some findings to protect participant confidentiality ($n = 1$) ⁴⁹					X	
Focus on providing training to primary health care staff ($n = 1$) ⁴⁴	X					
Research underpinned by empowerment principles ($n = 1$) ³⁸	X					
Study modified to nonrandomised design following community feedback ($n = 1$) ^{33,34}	X					X

^a Study appeared to be led by primary health care staff

^b Community participatory approach used

^c 'Two-way learning' processes used

^d Pilot tested before use

^e Support provided by external researchers

Involving Indigenous community representatives in key positions incorporated Indigenous knowledge and experience into research (respect). It was common to involve Community Elders^{33,34,39,40}, primary health care staff^{33,34,39,40}, families, carers and communities³⁸, or any of these as members of a steering committee⁵², reference group⁴⁴ or as investigators.^{25,26} Consultations to inform resources^{23,24} or study instrument^{27,28} development were reported twice. Acknowledging the contribution of participants (respect) by providing shopping or food vouchers was reported in five studies.^{27,28,35,45,49,52} Willingness to modify research according to a community's values and aspirations through flexible research processes (reciprocity) was also common. This included flexible interview times, locations or methods^{31,32,41,45,49,52}; multiple visits during planning⁴³; or modifying study design following community feedback.^{33,34}

Authors of three studies reported using 'two-way learning' principles, which demonstrated equality; survival and protection (efforts to reduce the threat to cultural distinctiveness); and respect (incorporating Indigenous knowledge). This included the Aboriginal Mental Health Worker Program evaluation^{21,22}, AIMhi 1^{25,26} and a smoking cessation study with Aboriginal health workers.^{29,30} The smoking cessation study^{29,30} also used participatory action research methods, had a cultural mentor to advise researchers and was underpinned by Iga Warta principles, a set of guiding principles for community participation and service delivery in Indigenous communities. These actions also demonstrated survival and protection, spirit and integrity, and respect.

Some of the other actions relating to survival and protection included involving families, carers or community representatives in the research team.^{25,26,33,34,38-40,44,52} In addition to using participatory action research methods, Indigenous researchers in AIMhi 1 were investigators^{25,26}, demonstrating efforts to sustain equality and reduce the threat to cultural distinctiveness (survival and protection). Authors of one study decided not to publish some findings to protect the confidentiality of participants.⁴⁹

No authors reported compliance with documented local protocols; however, a respected Elder provided cultural mentorship to the research team in one study.^{29,30} This suggests consideration of locally acceptable standards of behaviour.

Discussion

Our results show that reporting of how research addresses *Values and ethics*² is lacking. This suggests that authors may find it difficult to put value statements into practice, a lack of focus on or knowledge of the document, perceptions that reporting observance is unimportant, or that it is not perceived as useful. Reporting incorporation of local protocols is also lacking.

Some actions may be underreported because academic journals often impose word limits, restricting reporting of nonmandatory elements of research.

Many of the actions identified that related to *Values and ethics* were reported as enablers to conducting the research. This suggests that awareness and consideration of the document may improve research implementation. For example, relationships are a key component of *Values and ethics*, and authors of three studies^{29,30,35,38} reported strong relationships as an enabler. These relationships were fostered through:

- Involving community organisations and/or key community representatives; this endorses reciprocity, respect, equality, responsibility, spirit and integrity, and survival and protection
- Visiting communities before starting the research; this endorses reciprocity, and spirit and integrity
- A focus on empowerment principles, which endorses reciprocity.

Actions that related to (or endorsed) multiple values used culturally sensitive research processes, rather than one-off actions incorporated into traditional evidence based research methods. These included two-way learning^{21,22,25,26,29,30}, yarning⁴⁷, participatory action research methods^{25,26,29,30,47} and Iga Warta principles.^{29,30} In one study^{33,34}, the design was changed to a nonrandomised design following community feedback, demonstrating the challenges associated with aligning community preferences with what is usually considered scientifically rigorous research.

Involving Indigenous community members in research roles was common, although recruiting Indigenous staff was cited as a barrier to research implementation in one study.^{29,30} A focus on developing the Indigenous research workforce may address challenges with staffing and participation by facilitating research with greater community endorsement.

There are a few examples of others⁵⁻⁸ who have documented research according to *Values and ethics*. Interestingly, these examples identify relationships and partnerships as important facilitators to their research, echoing the processes identified in this review.

We suggest that research teams consider the actions identified that relate to *Values and ethics*. These include culturally sensitive approaches, a focus on relationship building and involving community members. Where appropriate, we recommend that reporting of research includes documentation of actions, experiences and community perspectives, and how these relate to *Values and ethics*. This will support shared learning between research teams and help clarify the effectiveness, cost and time required to implement research.

This review suggests that it is difficult to understand how *Values and ethics* is put into practice. Identifying and using culturally appropriate research methods requires commitment from research teams and the academic community. Academic publications may need to increase word limits so research teams can report

research processes from all perspectives. This will provide information on the role and potential for *Values and ethics* to support high-quality, community-accepted research when primary health care services and external researchers collaborate.

We have considered the values outlined in *Values and ethics* throughout this review. The second reviewer and author is an Aboriginal researcher and has been involved since this review's inception, including during protocol development, data extraction and analysis. This manuscript has been reviewed by the Aboriginal Health & Medical Research Council of New South Wales. This review responds to ongoing calls for improved research practices of Indigenous-focused research. We hope it provides useful information to Indigenous communities, primary health care services and research teams.

This review is limited to the information reported by authors. Additional actions may have been completed but not documented. Determining cultural appropriateness and community perspectives from the literature is challenging. We have identified where this is reported, but this may not fully identify the extent to which this has occurred. Indigenous communities are diverse, and an appropriate action in one community may not be suitable for another community.

Conclusion

Despite a lack of reporting, it appears that incorporation of the principles in *Values and ethics* improves research implementation. A focus on relationships and involving community members facilitates research in accordance with the *Values and ethics* document. Research teams should incorporate flexible, culturally sensitive designs to inform localised interventions, and focus on developing Indigenous researchers. Comprehensive reporting of how research is conducted should be encouraged to ensure community-level benefit and learning between research teams. The evaluation by the Lowitja Institute and the NHMRC will provide further information on the future of *Values and ethics*.

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Competing interests

None declared

Author contributions

SF led this review. AE was second author and second reviewer. NG and JG contributed to the methods and discussion. MH supervises SF and AE. All authors contributed to the final manuscript.

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