Labouring Together: collaborative alliances in maternity care in Victoria, Australia—protocol of a mixed-methods study

Vanessa Watkins,1,2 Cate Nagle,1,3,4 Bridie Kent,5 Alison M Hutchinson1,4,6

ABSTRACT

Introduction: For over a decade, enquiries into adverse perinatal outcomes have led to reports that poor collaboration has been detrimental to the safety and experience of maternity care. Despite efforts to improve collaboration, investigations into maternity care at Morecambe Bay (UK) and Djerriwarrh Health Services (Australia) have revealed that poor collaboration and decision-making remain a threat to perinatal safety. The Labouring Together study will investigate how elements hypothesised to influence the effectiveness of collaboration are reflected in perceptions and experiences of clinicians and childbearing women in Victoria, Australia. The study will explore conditions that assist clinicians and women to work collaboratively to support positive maternity outcomes. Results of the study will provide a platform for consumers, clinician groups, organisations and policymakers to work together to improve the quality, safety and experience of maternity care.

Methods and analysis: 4 case study sites have been selected to represent a range of models of maternity care in metropolitan and regional Victoria, Australia. A mixed-methods approach including cross-sectional surveys and interviews will be used in each case study site, involving both clinicians and consumers. Quantitative data analysis will include descriptive statistics, 2-way multivariate analysis of variance for the dependent and independent variables, and χ² analysis to identify the degree of congruence between consumer preferences and experiences. Interview data will be analysed for emerging themes and concepts. Data will then be analysed for convergent lines of enquiry supported by triangulation of data to draw conclusions.

Ethics and dissemination: Organisational ethics approval has been received from the case study sites and Deakin University Human Research Ethics Committee (2014–238). Dissemination of the results of the Labouring Together study will be via peer-reviewed publications and conference presentations, and in written reports for each case study site to support organisational change.

INTRODUCTION

Maternity care provision in Australia has experienced significant changes over the past 20 years, and it continues to evolve. Health policy reforms in Australia have been particularly directed towards offering more access and choice of models of maternity care to childbearing women,1 2 and for increased support for midwifery care in childbirth.1- 3 An international resurgence of midwifery over recent decades has involved the profession seeking to gain greater independence from medical dominance.3 Midwives are recognised as able to provide care for childbearing women and support birth, both within their own professional
responsibility and accountability, and in collaboration with other healthcare professionals.\textsuperscript{3, 4} Despite the political impetus for reform, barriers have been identified that continue to hinder successful collaborative practice,\textsuperscript{1} \textsuperscript{5}–\textsuperscript{15} and partnership with consumers\textsuperscript{16} for maternity care provision in Australia.

In 2005, a review of maternity care in Queensland, Australia found that many maternity care environments had two cultures of care that were perceived to be in opposition, with differing philosophies, values and ethics around the perception of risk in childbirth.\textsuperscript{1} One culture of care viewed pregnancy and birth as a low-risk life event, with medical care and intervention to be provided only as needed; whereas the other culture of care viewed pregnancy and birth as a potentially high-risk situation, requiring access to technology, intervention and dedicated medical care.\textsuperscript{1} The report concluded that both cultures of care were needed in order for maternity care to be effective and were crucial to the future of maternity care, but noted that in many care environments the two cultures were unable to reconcile their differences, and was a major obstacle to change.\textsuperscript{1}

In 2009, a review of maternity services in Australia recommended further reform and expansion of the choice and range of models of maternity care available to women.\textsuperscript{2} These reforms include that maternity care professionals provide care in ‘collaborative partnerships’, requiring midwives, obstetricians, general practitioners and rural doctors to work as professional equals with different but complementary skills and knowledge. Changes to Commonwealth funding arrangements have included expansion of the role of midwives by initiating changes to and support for professional indemnity insurance for midwives working in collaborative team-based models.\textsuperscript{3} Studies have shown that despite the recommendations of the reviews, development of a common ground between clinician groups for maternity care provision has proved challenging.\textsuperscript{4–6}

Recognition of midwives as equal stakeholders\textsuperscript{2} for the provision of maternity care has been a significant change in the culture of Australian maternity care. Compared with other models of maternity care, continuity of midwifery care has been evaluated as more cost-effective,\textsuperscript{19, 20} has equal or better outcomes for perinatal morbidity or mortality,\textsuperscript{21–25} has reduced levels of intervention,\textsuperscript{3, 22, 24–28} and has increased maternal satisfaction.\textsuperscript{3, 22, 29–32} Despite the growing body of evidence in relation to midwifery care, midwives continue to call for midwifery work to be recognised and valued,\textsuperscript{33} as they propose that the woman should be an active participant in her care.\textsuperscript{24, 29} This infers that childbearing women should be considered as active stakeholders in the collaborative alliance for collaborative or ‘shared’ decision-making, rather than as a passive recipient of the actions or decisions of the collaborative alliance. Debate continues on how best to incorporate shared decision-
making with women as the consumers of healthcare into the interprofessional collaborative decision-making alliance.50 53–63

In maternity care, clinicians’ lack of understanding of women’s autonomy with decision-making and the law has been identified as a particular barrier to shared decision-making.64 Women, as the consumers of maternity care, may also experience barriers that affect their engagement with decision-making as part of the collaborative alliance.60 65 Challenging a woman’s ability to engage in the collaborative alliance are lack of time,66 lack of familiarity with or access to the healthcare system or preferred model of maternity care,69 66 health policy and/or health funding models,60 67 cultural or language barriers, and/or limited health literacy,60 66 and poverty.57 Women also fear that they may be perceived as a ‘difficult patient’, which may in turn impact on the quality of care they receive.68 Women regularly report experiencing conflicting advice from clinicians, and at times evaluate the experience of maternity care as being fragmented, disjointed and disempowering.69–72

Studies suggest that while collaboration in maternity care is important for all women, it is particularly important for women with complex pregnancies or those who develop complications in childbearing and move from low-risk to high-risk maternity care,34 73 or for women who move geographical location or hospital site.34 73–75 In the state of Victoria, Australia, studies have highlighted the depth of polarised perceptions of stakeholders on the contested boundaries of normal to complicated pregnancy, and the power relationships between them.3 6 10–12 17

Outcomes of poor interprofessional collaboration between maternity care clinicians may include tension, poor communication, territorial, adversarial or subversive behaviour, poor teamwork, and delayed escalation of care.34 39 40 For childbearing women, the reported outcomes of ineffective interprofessional collaboration are serious, and are known to have had a negative impact on perinatal morbidity and mortality,30 74–77 and to have exposed women and babies to a greater risk of adverse outcomes.2 34 78 As such, poor collaboration is recognised as detrimental to the quality, safety and experience of maternity care.2 75–79

Cultural and organisational characteristics that may influence the effectiveness of collaboration are diverse, and may include the decision-making ability and autonomy of individuals,15 46 leadership,39 communication and informatics, negotiation, professional role,3 9 17 organisational structure, gender inequality,45 81 82 hierarchy and power.38 40 45–48 53 80 83 84 To date, few studies have assessed the association between collaboration and the individual-level, mesolevel and macroscale organisational factors that may influence the effectiveness of the collaborative alliance.42 Studies have also not measured the essential elements of collaboration in maternity practice from the perspectives of either clinicians or women, and the possible influences of organisational culture and context on effective collaboration and decision-making.34 42

The Labouring Together study aims to address the knowledge gaps of collaboration by measuring the essential elements of collaboration and exploring the perspectives of individual stakeholders in the collaborative alliance, underpinned by the comprehensive theory of collaboration developed by Wood and Gray,45 46 The Labouring Together study will investigate and measure key elements essential to collaboration and shared decision-making in maternity care from the viewpoints of clinicians and consumers in a range of models of maternity care in regional and metropolitan Victoria, Australia. The proposed research seeks to identify barriers to and promote enablers of effective collaboration for consumers, for individual clinicians, for organisations and for policymakers, to improve the quality, safety and experience of maternity care.

METHODS AND ANALYSIS

Aims
The aims of the Labouring Together study are to: (1) investigate perceptions of ‘collaborative maternity care’ held by maternity care professionals working in the variety of maternity care models available in Victoria, Australia; (2) investigate how the essential elements hypothesised to influence the effectiveness of collaborative alliances are reflected in perceptions of collaboration in maternity care in Victoria; and (3) investigate the preference for and experience of shared decision-making with the childbearing woman as a member of the collaborative alliance.

The research questions that will be answered by the Labouring Together study are:
1. Who are the stakeholders in the collaborative alliance in maternity care in Victoria?
2. What perceptions do the stakeholders have of the meaning of collaboration in maternity care?
3. What are the interests of the stakeholders who participate in the collaborative alliance and to what extent are the interests shared, differing or opposing?
4. If the stakeholders perceive the collaborative alliance to increase complexity for their own interests, what does the collaborative alliance offer in exchange for this undesired effect?
5. What are the stakeholders’ perceptions of autonomy, and what level of autonomy do the stakeholders hold in the collaborative alliance?
6. To what extent do childbearing women want to be active participants in decision-making as part of the collaborative alliance, rather than a passive recipient of care?
7. To what extent do women experience a collaborative approach to care?

Design
The Labouring Together study will use a sequential, mixed-method, multisite case study approach; the
multiple sources of evidence offered by this approach will encourage convergent lines of enquiry and triangulation of data.\textsuperscript{85} This approach will add to the construct validity and reliability of the Labouring Together study, will enhance the generalisability of the results,\textsuperscript{85} and will enable in-depth exploration of collaboration, within a real-life context.\textsuperscript{86}

The sequential strategy will allow elaboration and expansion of findings from each phase of the Labouring Together study using literal and theoretical replication logic. Replication logic is used in multisite case study research to enhance reliability and external validity by repeating the same case study in multiple case study sites in order to predict similar results in each case study site (literal replication); or to predict or contrasting results for anticipatable reasons (theoretical replication).\textsuperscript{85, 87} Literal replication of similar results across the case study sites will provide compelling support for the Labouring Together study findings. Theoretical replication using the theory of collaboration proposed by Wood and Gray\textsuperscript{45, 46} may predict or anticipate contrasting results between the case study sites, and enable rigour for analysis of the Labouring Together study findings; whereas contradictory results may provide direction for future research.\textsuperscript{85} The Wood and Gray\textsuperscript{46} theory of collaboration will also be used for exploration, description and explanation of the collaborative alliances in the clinical contexts,\textsuperscript{85} and to facilitate analytical generalisation to enhance external validity.

**Setting**

Four hospitals providing maternity services in Victoria, Australia have been purposively selected to represent the range of models of low-risk and high-risk maternity care in metropolitan and regional Victorian hospitals. Models of care represented in the Labouring Together study are presented in table 1, and are described in table 2.

**Sample**

Within each of the four case study sites, a convenience sample of maternity clinicians and consumers will be recruited; representatives from all groups providing and accessing maternity care will be recruited until saturation of qualitative data has been reached. All eligible clinicians and consumers will be invited to participate in the survey and interviews. Inclusion and exclusion criteria for clinicians and consumers are provided in tables 3 and 4, respectively.

Maternity clinicians will be informed of the Labouring Together study by means of posters displayed in the workplace and by presentations to staff at meetings at intervals throughout the duration of the data collection period. This is to ensure that a representative sample of clinicians is achieved to minimise selection bias, as a recent study has suggested that the mean number of contact attempts before completion of a survey per participant in healthcare research is 5.7 times.\textsuperscript{88} Cross-sectional surveys will be administered to eligible clinicians in paper-based format and electronically, to maximise the response rate and to minimise response bias.\textsuperscript{88–90} Studies suggest a benchmark of 35–45% for response rates in organisational research,\textsuperscript{89, 91} and as such, a minimum response rate within these parameters will be deemed acceptable by the Labouring Together study.

Consumers of maternity care will be informed of the Labouring Together study by means of posters displayed in the patient areas of the postnatal ward. Paper surveys will be offered to eligible childbearing women at the discretion of the midwife in charge of the postnatal ward, to minimise distress to women who have experienced a

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<tr>
<th>Table 1</th>
<th>Case study sites and models of maternity care included in the Labouring Together study</th>
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<tbody>
<tr>
<td><strong>Case study site</strong></td>
<td><strong>Models of maternity care offered</strong></td>
</tr>
<tr>
<td>1</td>
<td>Midwifery group practice</td>
</tr>
<tr>
<td></td>
<td>Midwifery shared care</td>
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<tr>
<td></td>
<td>GP shared care</td>
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<td></td>
<td>Obstetric high-risk pregnancy care</td>
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<td></td>
<td>Specialist maternity services</td>
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<td>Private obstetric care</td>
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<td>2</td>
<td>Midwifery group practice</td>
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<td></td>
<td>Specialist maternity services</td>
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<tr>
<td>4</td>
<td>Private obstetric care</td>
</tr>
</tbody>
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GP, general practitioner.
To provide a comprehensive description of the context of care for each case study site, descriptive data regarding the model of care, demographic characteristics of the consumers and consumer outcomes will be collected. These data will determine the nature, context and services provided at each case study site. A predesigned proforma will be used to ensure consistent and objective reporting across all case study sites. Maternity managers at each case study site will be asked to review the data to ensure an authentic representation of each site is captured.

Selected clinical outcome data will also be collected, including the rates of induction of labour, caesarean section rates and use of epidural for ‘standard primiparae’. Standard primiparae are defined as women between 20 and 34 years of age who gave birth for the first time, free of obstetric and specific medical complications, with a singleton pregnancy at term gestation (37 40 weeks), not small for gestational age (≥10th centile) newborn, with cephalic presentation. Standard primiparae are by definition at low risk of complications and so intervention rates should be low and outcomes consistent across all hospitals.

These data are important because they provide indicators of practice, quality and workload and also give an indication about the demographic characteristics of the context of care and practice. The clinical outcome data are routinely reported on for maternity services in the state of Victoria as part of the Victorian perinatal services performance indicators, and are published in the public domain to allow consumers to make informed decisions about their own care and care of their baby.

### Instruments

#### Context Assessment Index

Clinician perceptions of organisational factors that may influence their ability to integrate childbirthing women as stakeholders of the collaborative alliance will be explored by the Context Assessment Index (CAI). The CAI examines organisational context by reviewing perceptions of clinicians on the receptiveness of the organisation to change and to develop work practices that are ‘person centred’. The theoretical framework underpinning development of the CAI is the Promoting Action on Research Implementation in Health Services (PARIHS). According to the PARIHS framework, successful implementation of evidence in practice is dependent on the inter-relationship between the nature of the evidence, the quality of the context and expert facilitation. As such, a comprehensive method of assessing context is required. The measures of homogeneity were calculated to measure internal reliability.
Validation of the CAI included principal components analysis, exploratory factor analysis, and expert panel feedback, testing for psychometric properties of internal consistency and test–retest scores, and telephone interviews to gauge the usability of the instrument. The measures of homogeneity were calculated to measure internal reliability. The Cronbach’s α score for the complete questionnaire was estimated at 0.93. Test–retest scores indicated reliability of the findings, and feedback from focus group participants suggested that the instrument had practical utility.

These stages of development and testing resulted in a final 37-item test, measuring three contextual elements: culture (collaborative practice), leadership (respect for persons) and evaluation (evidence informed practice). For the purpose of the CAI, the characteristics of each element will be assessed on a continuum from ‘weak’ to ‘strong’. For an effective culture that is receptive to change and has ‘person centred’ ways of working, all three elements need to be ‘strong’.

The measures of homogeneity were calculated to measure internal reliability. The Cronbach’s α score for the complete questionnaire was estimated at 0.93. All five factors achieved a satisfactory estimated level of internal consistency in scoring, ranging from 0.78 to 0.91. Test–retest scores indicated reliability of the findings, and feedback from focus group participants suggested that the instrument had practical utility. Permission to use the CAI has been obtained from the authors (personal communication, 16 July 2012).

Jefferson Scale of Attitudes Toward Physician–Nurse Collaboration Instrument (Jefferson Scale)
Clinician stakeholder attitudes towards collaboration and particularly their perception of clinician autonomy within the multiprofessional team will be measured using the Jefferson Scale of Attitudes Toward Physician–Nurse Collaboration Instrument. The Jefferson Scale of Attitudes Toward Physician Nurse–Collaboration Instrument has been widely used across a variety of disciplines and international healthcare settings, including undergraduate education, nurse practitioners, advanced practice nurses, acute hospital care, primary care, general practice, anaesthesia, in Italy, Israel, Mexico, Sweden, USA, Turkey and Japan. Permission has been obtained from the author to use the scale, and to alter the wording within the instrument of ‘nurse’ to ‘midwife’, and ‘physician’ to ‘obstetrician’ (personal communication, 15 May 2012).

Validation of the instrument included factor analysis indicating the survey measured four underlying constructs: shared education and collaborative relationships, caring as opposed to curing, autonomy, and authority. A scale was developed in which 15 items of the survey with large factor loadings were included. The α reliability estimates of the scale were 0.84 and 0.85, respectively. Items in the instrument are directly calculated based on their Likert scores (strongly agree=4, strongly disagree=1), with two statements reverse scored. The total score is the sum of all item scores. The higher the score, the more positive attitudes are towards physician–nurse collaboration.

As recommended by Hojat et al, the scores for the four factors will be transformed to a standard distribution with a mean of 100 and an SD of 10 for easier and

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<th>Table 3</th>
<th>Inclusion and exclusion criteria (clinicians)</th>
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<tr>
<td><strong>Inclusion criteria</strong></td>
<td><strong>Exclusion criteria</strong></td>
</tr>
<tr>
<td>Maternity clinicians, currently providing maternity care for one of the case study sites of the Labouring Together study who:</td>
<td>Maternity clinicians, not currently providing maternity care for one of the case study sites included in the Labouring Together study</td>
</tr>
<tr>
<td>▶ Are registered midwives with the AHPRA</td>
<td>Maternity clinicians who are unregistered with the AHPRA, or who have not completed professional qualification status (eg, medical or midwifery students or support workers)</td>
</tr>
<tr>
<td>▶ Are fellows of the RANZCOG</td>
<td>Fellows of the RACGP who do not have organisational accreditation to provide shared maternity care with one of the case study sites included in the Labouring Together study</td>
</tr>
<tr>
<td>▶ Are fellows of the RACGP and have organisational accreditation to provide shared maternity care with one of the case study sites included in the Labouring Together study</td>
<td>Registered nurses working in maternity services who are not also registered midwives</td>
</tr>
</tbody>
</table>

AHPRA, Australian Health Practitioner Regulation Agency; RACGP, Royal Australian College of General Practitioners; RANZCOG, Royal Australian and New Zealand College of Obstetricians and Gynaecologists.

<table>
<thead>
<tr>
<th>Table 4</th>
<th>Inclusion and exclusion criteria (consumers)</th>
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<tr>
<td><strong>Inclusion criteria</strong></td>
<td><strong>Exclusion criteria</strong></td>
</tr>
<tr>
<td>Postnatal women over the age of 18 years</td>
<td>Childbearing women who have experienced a traumatic event or adverse outcome such as a stillbirth (at the discretion of the midwife in charge of the ward, to minimise distress to the woman)</td>
</tr>
<tr>
<td></td>
<td>Women who cannot read English and who have no access to interpreter services</td>
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Control Preferences Scale
The extent to which women want to be active participants in decision-making, followed by their actual experience of decision-making in their maternity care will be measured by using the Control Preferences Scale (CPS). The CPS uses statements and cartoons to assess consumer preferences for control in decision-making in healthcare. The CPS is a five-point scale representing the degree of treatment control patients wish to relinquish (ie, passive), retain (ie, active) or share (ie, collaborative) over treatment decision-making. Each role is described by a statement and a cartoon, for example: (A) I prefer to make the decision about which treatment I will receive. (D) I prefer that my doctor makes the final decision about which treatment will be used, but seriously considers my opinion.

Women will be asked to view the five statements and cartoons to rate their preferences for decisional control during their maternity care. The women will then be asked to view the five statements and cartoons again to rate their actual experiences of decision control during their maternity care. This method will provide an index of how childbearing women believe their maternity care models are accommodating their preference for decisional control. The χ² analysis will give an indication of the degree of congruence, and whether there is significant congruence between the preferred role and the actual role for consumer decision-making in maternity care.

To minimise intrusion on participants, the CPS will be presented in the fixed-scale format of incorporating in the one survey the statement and cartoons to illustrate each option for preferences and experiences. The survey will be administered in a paper-based format to women on the postnatal ward.

A meta-analysis of six studies using the CPS to rate both preference and experience of decisional control in cancer care reported 61% concordance (ie, patients’ preferred and actual roles were the same). Only 6% of patients experienced extreme discordance between their preferred and actual roles (ie, wanting an active role and experiencing a passive role, or vice versa). The CPS has not yet been used in the maternity care context, and understanding of the level of concordance (or discordance) with decisional control and experience of childbearing women is essential for the Labouring Together study to explore extent that childbearing women want to be active participants in decision-making as part of the collaborative alliance, rather than a passive recipient of care.

More meaningful comparisons. Two-way multivariate analysis of variance will be used to simultaneously compare the scores on the dependent variables (the four factors of collaboration) by the independent variables (case study site and professional group), using the IBM SPSS Statistics V.22.0 analytical software (IBM. SPSS Statistics for windows, Version 22.0. Armonk, NY: IBM Corp, Released 2013).

Semistructured interviews
Clinician interviews
Clinicians will be interviewed, either face-to-face or over the telephone, to explore their perceptions of collaboration and decision-making in maternity care. An interview guide will be used (refer to box 1), which is underpinned by Wood and Gray’s theory of collaboration providing opportunity to explore perceptions and experiences of collaboration, stakeholder interests for participation in the collaborative alliance, and the decision-making role and autonomy of individual stakeholders in the collaborative alliance. To ensure views of all groups of maternity care professionals are represented, all registered clinicians participating in maternity care in each case study site will be invited to participate. Data collection will continue until clinicians from all models of care have been sampled and data saturation has been reached.

Consumer interviews
Postnatal women will be interviewed over the telephone to explore their perceptions and experiences of collaboration and decision-making in the course of their maternity care. An interview guide (refer to box 2), underpinned by the Wood and Gray theory of collaboration, and the SURE test (Sure of myself; Understand information; Risk-benefit ratio; Encouragement) to assess consumer satisfaction with decision-making and decisional conflict. The SURE test is a four-item screening test for decisional conflict in patients, validated with pregnant women considering prenatal screening for Down syndrome. The four-item SURE screening test was developed to help health professionals identify patients with clinically significant decisional conflict.

Box 1 Semistructured clinician interview guide

Question 1: In the course of a typical day, with which groups of clinicians or women do you interact in the provision of maternity care?
Question 2: What do you understand by the term ‘collaboration’ in maternity care?
Question 3: How do you participate in collaboration in maternity care in your current practice?
Question 4: What conditions do you consider helpful for successful collaborative maternity practice?
Question 5: What conditions do you consider are barriers to collaborative maternity practice?
Question 6: What advantages are there for you (as an individual) to participate in collaborative maternity practice?
Question 7: What disadvantages are there for you to participate in collaborative maternity practice?
Question 8: What are advantages or disadvantages of collaborative maternity practice overall?
Box 2 Semistructured consumer interview template

| Question 1: Which type of maternity care did you choose? 
| Question 2: Did you get to know/build up a relationship with the midwives/doctors during your antenatal care? |
| ➤ Did you feel able to talk about things that were worrying you? 
| ➤ Were you able to ask questions? |
| Question 3: What was your experience of decision-making during your pregnancy care? 
| ➤ Were you aware when decisions about your pregnancy care needed to be made? 
| ➤ Did you feel that you had enough information to make an informed decision? |
| Question 4: Think about one aspect of your pregnancy, labour or postnatal care where you had to make a decision. When you were making your decision: 
| ➤ Did you feel sure about the best choice for you or your baby? Yes or no, please explain. 
| ➤ Did you know the benefits or risks of all options? Yes or no, please explain. 
| ➤ Were you clear about which risks or benefits mattered most to you? Yes or no, please explain. 
| ➤ Do you think that you had enough support and advice to make the choice? Yes or no, please explain. |
| Question 5: Have you got any other thoughts or suggestions to improve the way decisions are made in maternity care in the future? |

Data collection will continue until childbearing women who have accessed maternity care from the range of maternity models identified in the study have been sampled and data saturation has been reached. Interviews will be audio-recorded and transcribed. Data will be coded and analysed for emerging themes and concepts throughout the data collection process, using an inductive approach to condense the raw data into summary format to allow linkage between the data and the aims of the Labouring Together study.\(^\text{110}\) This method will allow the interplay between the collection of data and reflection on data through both content and thematic analysis,\(^\text{111}\) and enable the researcher to establish when saturation of data has been reached.

Procedure

The procedure for each case study site will include consultation and engagement with each clinician group to optimise recruitment to the study. Data collection began in August 2015 and will continue until December 2017. A diagram illustrating the phases of the Labouring Together study can be found in figure 1.

Synthesis of data

The multiple sources of evidence generated by the mixed-methods multiple site case study design will ensure construct validity and reliability of the Labouring Together study. Cross-case synthesis and pattern matching from all four case study sites will be used to search for inference of analytical generalisation,\(^\text{85}\) using Wood and Gray’s\(^\text{45, 46}\) theory of collaboration to compare the empirical results of each case study. Internal validity of the case study findings will be ensured by the questioning of inferences and testing of rival explanations; evidence will be reviewed for convergence. Replication logic will enhance the external validity and generalisability of the Labouring Together study across the four case study sites.\(^\text{85}\)

DISCUSSION

National guidance on collaborative maternity care and changes in the Australian National Healthcare Standards aimed at partnering with consumers have shifted the focus of care from the professional and organisational interests of maternity services to the interests of the woman and her family. Inclusion of women as members of the collaborative alliance has the potential to transcend established barriers to collaboration between maternity care professionals; however, studies to date have not investigated how this may be achieved.

Behavioural science theorists suggest that successful collaboration can be achieved by exploring the following domains: why the collaboration was convened and what is it aiming to achieve; the implications of collaboration for either control or mitigation of complexity and risk; the identification of stakeholders in the proposed alliance; and the relationship between self-interests and the collective interests of the stakeholders.

Using the comprehensive theoretical framework of collaboration proposed by Wood and Gray,\(^\text{45, 46}\) the Labouring Together study will enable all stakeholders, including childbearing women, to reflect on collaboration in the current Victorian maternity care context. Enablers of effective collaboration will be identified, and barriers to collaboration will be explored in more depth to seek opportunities for resolution and enable innovation to transcend the impasse.

Ethics and dissemination

Confidentiality and anonymity of the data will be strictly maintained. Audio-recording of the interviews will only take place after informed consent is obtained from participants. Participants will not be identifiable in any transcripts, or in any publications. It will be made clear to all participants that they have the right to withdraw from the research at any time.

The research seeks to identify enablers of effective collaboration for individual clinician groups, for organisations and for consumers. Results of the Labouring Together study will provide a platform for consumers, individual clinician groups, organisations, Government agencies and policymakers to work together to improve the quality, safety and experience of maternity care.

Dissemination of the results of the Labouring Together study will be via peer-reviewed publications and conference presentations. Key findings of the Labouring Together study will be also be presented in workshops and seminars, and written by reports for each case study site to support organisational change.
CONTRIBUTORS
VW conceptualised the project and drafted the manuscript. All authors have been involved in developing the study design and the drafting and revisions of this manuscript. All authors have approved this final version for publication.

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Competing interests
None declared.

Patient consent
Obtained.

Ethics approval
Organisational ethics approval has been received from the recruitment sites and Deakin University Human Research Ethics Committee (2014-238).

Provenance and peer review
Not commissioned; externally peer reviewed.

Data sharing statement
The Labouring Together study will generate data pertaining to control preferences and experiences of childbearing women; and attitudes towards midwife-obstetrician collaboration. Data collection is ongoing but may be accessible once PhD thesis is complete.

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