Midwifery practice and maternity services: A multisite descriptive study in Latin America and the Caribbean

Lorena Bifia, RM, MPH, PhD (Associate Professor), Loreto Pantoja, RM, MPH (Assistant Professor in Midwifery), Jovita Ortiz, RM, MSc (Assistant Professor in Midwifery), Gabriel Cavada, RM, PhD (Statistician), Peter Schindler, BSN, R. Ypania Burgos, MA, RM, Gabriel Cavada, RM, PhD, Célia Regina Maganha e Melo, RM, PhD, Lúcia Cristina Florentino Pereira da Silva, RM, PhD, Marlise de Oliveira Pimentel Lima, RM, PhD, Laura Valli Hernández, RM (Aggregate Professor), Rosana Schlenker, RM, Verdúin Sánchez, RM, Miran Solis Rojas, RM, MEd, Betty Cruz Huamán, RM, MEd, Maria Luisa Torres Chauca, RM, MEd, Alicia Cillo, RM (Professor), Susana Lofeudo, RM (Professor), Sandra Zapiola, RM (Professor), Fiona Weeks, BA, Jennifer Foster, Ph.D., MPH, CNM.

Objective: over the past three decades there has been a social movement in Latin American countries (LAC) to support humanised, physiologic birth. Rates of caesarean section overall in Latin America are approximately 35%, increasing up to 85% in some cases. There are many factors related to poor outcomes with regard to maternal and newborn/infant health in LAC countries. Maternal and perinatal outcome data within and between countries is scarce and inaccurate. The aims of this study were to: i) describe selected obstetric and neonatal outcomes of women who received midwifery care, ii) identify the level of maternal well-being after experiencing midwifery care in 6 Latin America countries.

Design: this was a cross sectional and descriptive study, conducted in selected maternity units in Argentina, Brazil, the Dominican Republic, Peru, and Uruguay. Quantitative methods were used to measure midwifery processes of care and maternal perceptions of well-being in labour and childbirth through a validated survey of maternal well-being and an adapted version of the American College of Nurse-Midwives (ACNM) standardized antepartum and intrapartum data set. Setting: Maternity units from 6 Latin American countries.
Participants: the final sample was a convenience sample, and the total participants for all sites in the six countries was 3009 low risk women.

Findings: for the countries reporting, overall, 82% of these low risk women had spontaneous vaginal deliveries. The rate of caesarean section was 16%; the Dominican Republic had the highest rate of Caesarean sections (30%) and Peru had the lowest rate (4%). The use of oxytocin in labour was widely variable, although overall there was a high proportion of women whose labour was augmented or induced. Ambulation was common, with the lowest proportion (48%) of women ambulating in labour in Chile, Uruguay (50%), Peru (65%), Brazil (85%). The presence of continuous support was highest in Uruguay (93%), Chile (75%) and Argentina (55%), and Peru had the lowest (22%). Episiotomies are still prevalent in all countries, the lowest rate was reported in the Dominican Republic (22%), and the highest rates were 52 and 53% (Chile and Peru, respectively). The Optimal Maternal well-being score had a prevalence of 43.5%, adequate score was 30.8%; 25% of the total sample of women rated their well-being during labour and childbirth as poor.

Key conclusions: despite evidence-based guidelines and recommendations, birth is not managed accordingly in most cases. Women feel that care is adequate, although some women report mistreatment. Implications for Practice: More research is needed to understand why such high levels of intervention exist and to test the implementation of evidence-based practices in local settings.

© 2016 Elsevier Ltd. All rights reserved.

Introduction

Over the past three decades there has been a social movement in Latin American countries to support humanised, physiologic birth (Umenai et al., 2001). As rates of caesarean section overall in Latin America are approximately 35%, increasing up to 85% in some cases (Taljaard et al., 2009) current research confirms evidence of complications of Caesarean sections for both mothers and their children. Well-established, short-term maternal risks are increased in Caesarean sections, including postpartum urinary tract infections, surgical wound infections (Hung et al., 2015), and breast feeding problems (Bodner et al., 2011). Emergent longer term maternal effects include subsequent stillbirth, miscarriage and ectopic pregnancy (Silver, 2010; Solheim et al., 2011; O’Neill et al., 2014).

Infant long term effects include higher rates of common infectious diseases, as well as higher rates of respiratory tract infections (pneumonia, bronchitis, influenza, cough and breathing problems) (Merenstein et al., 2011). A recent study has indicated a higher risk of long term childhood effects in both acute and elective Caesarean sections of childhood mucosal infection, inflammation and juvenile idiopathic arthritis (Kristensen and Henriksen, 2015).

There are also reports of a link between Caesarean section and induced labour and Autism Spectrum Disorders (Gialloreti et al., 2014).

Background to Latin America and the context for this study

Latin America and the Caribbean (LAC) is the global region with the greatest inequalities in income distribution, although there is great heterogeneity among countries (ECLAC, 2004; Barcena and Prado, 2016). According to the Committee on Population and Development at the United Nations Economic Commission for Latin America and the Caribbean (ECLAC), objectives to reduce disparities in maternal and infant mortality rates within countries have yet to be met (ECLAC, 2004).

There are many factors related to poor outcomes with regard to maternal and newborn/infant health in LAC countries (Belizan et al., 2005), also maternal and perinatal outcome data within and between countries is scarce and inaccurate, therefore many goals have been established to be achieved.

Among these goals is that all LAC countries recognise the value of enabling all women in the region to attain their optimal reproductive health. This includes the provision of a woman and family-centred (i.e. humanised) model of care, which avoids an exclusively biological view of health and illness. This approach requires respect and familiarity for the childbearing woman and her family’s psychological, social, and cultural needs. Therefore, the focus and evaluation of care must be centred on emotional, social, and cultural aspects, rather than solely on the physical dimension. Traditionally, outcomes of care have focused upon morbidity and mortality. Qualitative aspects, such as the satisfaction of the woman and her partner with the reproductive process, must also be evaluated (Belizan et al., 2005).

In 2005, the Pan-American Health Office (PAHO) published a review aimed to explore the extent of midwifery services and practices and describing five different profiles of midwifery services in Latin America and the Caribbean countries (Odberg and Stone, 2005). This report highlighted the importance of professional midwifery’s role in improving maternal and neonatal outcomes in the region. The report went on to note that professional midwifery is underdeveloped in all regions of the Americas except for the non-Latin Caribbean. Moreover, the authors concluded that midwifery practice in the Americas in general is highly medicalised (physician dominated) with elevated rates of caesarean sections.

Midwifery faculty at the University of Chile, (Binfa et al., 2013) have conducted two assessments of clinical midwifery processes of care, maternal and newborn outcomes, and women’s perceptions of care during labour and childbirth in hospitals in Chile. A pilot was undertaken in 2 metropolitan regional hospitals in Santiago, and the results were published in 2013 (Binfa et al., 2013). A subsequent study, using the same design and methods was replicated in 7 more of the Chilean regions (Binfa et al., 2016). At the same time, contacted by email and conference networking, we invited midwives and nurses in other countries in LAC to replicate the study, adapting it to their local context. Despite the absence of research funding, midwifery or nursing researchers in Argentina, Brazil, the Dominican Republic, Peru, and Uruguay agreed to participate.

Researchers in each country agreed they would be responsible for publishing reports from the studies in their own countries, but that the aggregate data would be reported from the Department of Women’s and Newborn Health Promotion and School of Midwifery at the Faculty of Medicine, University of Chile. This is the report of the aggregate results from 6 countries, Argentina, Brazil, Chile, the Dominican Republic, Peru, and Uruguay.
Methods

Ethical approval

Ethical approval to conduct each study was obtained from the Ethical Committee at each maternity setting participating in the study. Participants were assured that data were confidential and all participants signed an informed consent before enrolment in the study (WMA, 2004). In addition, Institutional Review Board approval was obtained from the Universities where the country’s Principal Investigator was located.

Research approach

Although the previously reported Chilean studies used a mixed-methods design, only the quantitative element is reported in this study, because not all countries were able to conduct the qualitative element. Two of the study aims were replicated from the Chilean studies by all countries: i) describe selected obstetric and neonatal outcomes of women who received midwifery care, ii) identify the level of maternal well-being after experiencing midwifery care in 6 Latin American countries.

Inclusion criteria were primiparous and multiparous women who were admitted in the labour ward with a spontaneous labour and 2–3 cm of cervical dilatation and who spent a minimum of four hours in the labour ward. These criteria ensured that participating women stay in the unit enough time to receive midwifery care.

For multiparous women, inclusion criteria included a birth interval of less than 3 years to assure relatively recent memory of their last birth experience, and thus compare her perception between her last experience of childbirth and the recent one. Another criterion was the capacity to give and sign informed consent. Women with a clinical history of mental illness or drug abuse were excluded. The final sample was a convenience sample, and the total participants for all sites in the 6 countries was 3009 low risk women.

Quantitative data collection

Prior to data collection, the Chilean research team reviewed the project, the protocols and the data collection instruments with all investigators in the participating countries. All data were collected postpartum either by the principal investigators in each country, or by research assistants whom they trained and supervised. For objective (i), each site used the Chilean’s Spanish language adaptation of the Intrapartum Data Set, developed by the American College of Nurse-Midwives (ACNM), validated in 1991 (Greener, 1991) and published in 1999 (copyright) for educational or research purposes (ACNM, 2010).

The other quantitative instrument was the Maternal Well-Being Scale, a 42 item structured interview conducted face-to-face, using a Likert scale. This instrument was created and validated in Chile (Uribe et al., 2008). This measure was adapted to the context of each participating maternity unit, so not all countries used all 42 items, depending on the relevance of the item for their site. Items included statements asking women to rate the degree to which they felt respected and well treated, whether their care was timely, whether they had freedom of movement, or ability to have fluids or food in labour, whether they had continuous support, skin-to-skin contact with their newborn, among other statements about care.

Quantitative analysis

For the obstetric and neonatal variables, continuous variables were described as means, and categorical variables as proportions. The scoring instructions for the Well-Being Assessment Scale were provided by the Chilean research team that validated the instrument (Uribe et al., 2008). Maternal well-being was calculated and categorized into three outcomes, optimal (score > 172), adequate (score 152–172), and poor (score < 152). A database was constructed using an excel file, and data were analyzed and presented in terms of descriptive statistics.

All socio-demographic and labour and childbirth data were obtained from the medical records, and if necessary, interviewing participants. For objective (ii), the Maternal Well-Being Assessment Scale, data were collected through a structured interview conducted with participants who met the inclusion criteria.

Results

The total sample was N=3009. The place of birth for all countries was the hospital. The characteristics of the hospital with respect to location, public/private, skilled birth attendants at the hospital, and number of births annually are reported in Table 1.

The main sociodemographic characteristics of each of the participating countries are described in detail in Table 2. The age of the participants was between 21 and 27 years. The highest mean age was among the Peruvian women (26.7 years), and the youngest mean age was reported in the Dominican Republic (20.9). Brazil had the highest proportion of women who were married (15.1%), the Dominican Republic had the lowest proportion (4.6%). Most women in all countries were co-habiting (58.8–80.2%).

Argentina was the country with the highest proportion of women with only primary education (46.3%). In all countries, most women had completed secondary education (54.7–69.3%).

For the countries reporting, overall, 82% of women had spontaneous vaginal deliveries. The rate of caesarean section was 16%; the remaining proportion of women had assisted deliveries with forceps. The Dominican Republic had the highest rate of Caesarean sections (30%); Peru had the lowest rate (4%). More than half of the women across all the reporting countries were primiparous, with the exception of Uruguay, where 26% were primiparous. This is important to keep in mind when comparing modes of childbirth across countries.

When examining oral hydration or eating in labour, Chile had the highest proportion of women who had neither (69%). In the Dominican Republic, on the other hand, only 13% had no food or liquid in labour, and 36% had a light meal. In terms of parenteral fluids, about 90% of women had IV fluids during labour in Chile, Argentina, and the Dominican Republic, followed by Peru (59%), Uruguay (18%), and Brazil (16%).

The use of oxytocin in labour was widely variable, although overall there was a high proportion of women whose labour was augmented or induced. In Spanish the term is conducted, or conducido. ‘Conduction’ of labour in this study was defined as the use of oxytocin, and/or artificial rupture of membranes and/or epidural usage. Women entered the study in spontaneous labour, so none of them had labour ‘induced’. Rather, any women whose labour was augmented by an external means such as oxytocin use, amniotomy, or epidural use was considered ‘conducido’. The Dominican Republic had the lowest rate of use (33%). Women’s labour in Uruguay and Peru was augmented in 59% and 62% of women’s labour, respectively, with the highest percentage of labours augmented in Argentina (71%), Brazil (82%), and Chile (86%). Given the high percentage of conduction use in labour, it is of interest to note in which countries women relied on pharmacologic (Epidural usage) or non-pharmacologic methods of pain relief. In Uruguay and Peru, over 90% of women used non-pharmacologic methods.
methods of pain relief only, whereas in Chile, only 20% of women used non-pharmacologic methods of pain relief only. The Dominican Republic was an outlier, in which no pain relief methods of any type were offered to women.

Ambulation (free walking) was common, with the lowest proportion (48%) of women ambulating in labour in Chile. In Uruguay (50%), Peru (65%), Brazil (85%) of women ambulated in labour. In this case, the Dominican Republic was an outlier in the other direction: 95% of women ambulated in labour, perhaps as a means to mitigate labour pain.

The presence of continuous support was highest in Uruguay (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.

Findings in this study showed that in Chile, Uruguay and Peru, approximately 30% of women had continuous fetal monitoring. In Argentina, the Dominican Republic and Brazil, no women received continuous fetal monitoring, but more than 86% of women had intermittent monitoring. Peru was the country with the highest proportion of monitoring only on admission to labour and childbirth (37%).

Episiotomies are still prevalent in all countries. The country with the lowest rate of episiotomy was the Dominican Republic (93%), Chile (75%) and Argentina (55%). In Peru, only 22% had continuous support, and in the Dominican Republic no continuous support was documented.
followed by 88% in Peru, 79% in Brazil, 62% in Chile, 51% in Uruguay, and 46% in the Dominican Republic. Neonatal outcomes are presented in Table 4.

**Discussion**

In general, the main results in this study showed heterogeneity of practice among the participating countries, but all shared a very medicalized model of care. While spontaneous vaginal deliveries occurred in almost 82% of the aggregate sample, caesarean section was the mode of childbirth for 16% of women. While a proportion of 82% vaginal births may seem a high proportion in comparison to other places, it is important to understand that this proportion was among low risk women with expected vaginal deliveries (one of the inclusion criteria). If the planned caesarean sections (which were not considered in this study) are added to the total proportion of caesarean deliveries performed, this percentage may easily rise to 40%, consistent with data reported for the Regional Office of the Americas (Gibbons et al., 2012; Organisation for Economic Co-operation and Development (OECD), 2013), and higher than recommendations provided by WHO (WHO, 1985, 2015). The study results are also consistent with past reports that health care and treatment of women in hospitals in Latin America during childbirth, although variable among institutions, continues to be based on a model that does not meet the definition of humanised care (Belizan et al., 2005).

According to the profile of midwifery services in Latin America.
published by PAHO (Odberg and Stone, 2005). Chile and Peru are aligned with profile III, that is, having institutional and community professional midwifery and a model of the obstetric team. Argentina, Brazil, the Dominican Republic and Uruguay, on the other hand, are aligned with profile IV, i.e. institutional obstetric attention, with limited institutional and community professional midwifery. The Dominican Republic is the most limited, in that midwifery is non-existent, although efforts have been made to legislate the training and practice of this cadre of health professional. The evidence for this practice was achieved in more than 60% of all births, demonstrating that regulation alone does not guarantee the implementation of a practice.

An area of strength for all countries was skin-to-skin contact practice, this practice was achieved in more than 60% of all births, (Moore et al., 2012). Immediate breast feeding is also frequent, this practice is highly observed, this practice facilitates and promotes exclusive breast feeding (Jaafar et al., 2012).

Labour augmentation which included amniotomy, was found in over 70% of deliveries in Argentina, Brazil and Chile. The evidence does not support amniotomy to reduce the rate of caesareans or to shorten labour length, and it may be associated with fetal heart rate decelerations and umbilical cord prolapse (Smyth et al., 2013).

Free ambulation and movement in labour facilitates labour progress and maternal well-being, uprightness positions in the first stage of labour shorten labours, decrease the use of epidural anaesthesia, diminish reported pain and have no adverse effects (Lawrence et al., 2013). Only Uruguay and Peru reported over 90% implementation of non-pharmacological pain relief methods. Only Peru, Brazil and the Dominican Republic reported ambulation during labour in more than 60% of women.

There is evidence to support routine episiotomy (Frankman et al., 2009), yet in Chile and Peru, episiotomy rates are over 50%. In low risk women, intermittent auscultation (IA) of the fetal heart is recommended over continuous fetal monitoring during labour (Maude et al., 2014; Ayres-de-Campos et al., 2015). Chile, Uruguay and Peru reported almost 30% of women with continuous fetal monitoring. Electronic fetal monitoring, if compared with IA, increases the rate of caesarean section and vacuum/forceps, and there is no difference in perinatal mortality or Apagar scores less of 7 at 5 minutes (Devane et al., 2012; Affrivic et al., 2013).

Another strategy for the mitigation of pain is the continuous support of a significant other in labour. The presence of a companion of choice is strongly recommended by WHO to improve labour outcomes and women’s satisfaction with care at birth (WHO, 2015). Also a Cochrane review reports that continuous labour support promotes more spontaneous vaginal birth, greater maternal satisfaction, shorter labour, and less use of pain medications (Hodnett et al., 2013). Companion of choice was currently observed in most of the participants countries, except the Dominican Republic.

It is interesting to mention that in countries where there exists a national law to allow companion of choice at birth, for example, Argentina (Gobierno Argentina, 2004), presence of a companion of choice is reported only in 55% of births. Similarly in Peru, where there is a ministry resolution for companion of choice (Ministerio Salud Peru, 2011), only 22% of women had a companion, demonstrating that regulation alone does not guarantee the implementation of a practice.

A neonatal variables

Table 4

<table>
<thead>
<tr>
<th>Variables</th>
<th>Chile</th>
<th>Uruguay</th>
<th>Peru</th>
<th>Argentina</th>
<th>Rep. Dominicana</th>
<th>Brazil</th>
</tr>
</thead>
<tbody>
<tr>
<td>N=1,819</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paediatric gestational age (sem) (physical examination)</td>
<td>38.9 (1.6)</td>
<td>38.8 (1.3)</td>
<td>38.5 (1.8)</td>
<td>39.7 (1.2)</td>
<td>39.5 (1.4)</td>
<td>39.1 (0.9)</td>
</tr>
<tr>
<td>Newborn weight (grs)</td>
<td>Mean (s.d)</td>
<td>3,408 (486.4)</td>
<td>3,386 (506.1)</td>
<td>3,254 (420.7)</td>
<td>3,296 (387.1)</td>
<td>3,068 (486.1)</td>
</tr>
<tr>
<td>Skin to Skin N (%)</td>
<td>Yes</td>
<td>1,334 (74.6)</td>
<td>101 (57.7)</td>
<td>348 (94.8)</td>
<td>172 (97.2)</td>
<td>54 (64.3)</td>
</tr>
<tr>
<td>Early breastfeeding N (%)</td>
<td>Yes</td>
<td>1,119 (62)</td>
<td>138 (51.5)</td>
<td>319 (87.9)</td>
<td>171 (96.6)</td>
<td>39 (46.3)</td>
</tr>
<tr>
<td>Babies rooming-in N (%)</td>
<td>Yes</td>
<td>1,720 (94.6)</td>
<td>356 (96.7)</td>
<td>340 (93.1)</td>
<td>167 (94.4)</td>
<td>86 (100)</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>97 (5.4)</td>
<td>12 (3.3)</td>
<td>25 (6.9)</td>
<td>10 (5.6)</td>
<td>0</td>
</tr>
</tbody>
</table>
informed about procedures and in some instances they reported that they were mistreated by the health team (Bina et al., 2013, 2016). The fuller qualitative component of the Chilean study was not feasibly replicated in all 6 countries, not because of a recognition of its importance, but because of limited resources.

While a shared ideology of humanisation is necessary for change, (Davis-Floyd, 2007), it alone is insufficient to enact change. In particular data provided from Chile showed that no changes have occurred after the implementation of the Guidelines for the humanisation of childbirth promoted by the Ministry of Health in 2007 (Ministerio Salud Chile, 2007; Bina et al., 2016). Findings in this study showed that despite recommendations provided from WHO in 1985 (WHO, 1985) and further confirmed in 2015 by the most important related international associations (White Ribbon Alliance, International Pediatric Association, & World Health Organization, 2015) obstetric procedures are still over utilised. By reporting a situational analysis of midwifery care in 6 LAC countries, the authors hope the results of this study will serve as a baseline for discussion and action among midwives across LAC countries to assess future improvement of quality of care for pregnant and labouring women, in accordance with the vision elaborated by the WHO (Tunçalp et al., 2015).

Limitations

Although the main objective of this study was to provide a description of the current practice of midwifery care in the participating countries, it is important to note that the only country that reported national data was Chile. The rest of the countries represented one site (Dominican Republic), to two or three sites in the rest of the 5 participating countries. Also, all of samples were convenience samples, and data was collected over variable time periods that were feasible for the research team in each country. Thus, the results of this study cannot be generalised to represent the situation of care for the entire country. Another limitation was the missing data from some countries. Although all countries shared the approved research protocol, countries have specific local situations that made the implementation of the research protocol difficult at times. The purpose of this study was to provide a baseline for comparison, as countries define strategies for action to reach high standards for quality of maternal and new born care. To our knowledge, this is the first study of its kind to examine specific midwifery care practices across Latin America and the Caribbean countries.

Conclusions and implications for practice

Despite the regional effort to promote physiologic birth, there remains high levels of medical intervention in the births of low risk women. More research is needed to understand why such high levels of intervention exist and to test the implementation of evidence-based practices in local settings. It is also an important concern taking into consideration the women’s perception and satisfaction with their experience of care during childbirth.

Conflict of interest

No conflict of interest has been declared by the author(s).

Acknowledgements

We thank all the midwifery staff of each site/country who kindly participated in the process of collecting the quantitative data and coordinating the field work. We also thank all the maternity sites that kindly support the implementation of this research.

References


