

Puerperae bonding with their children and labor experiences

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Objective. To analyze the degree of bonding of puerperae with their babies, both in isolation and associated with experiences during and after labor. **Methods.** A cross-sectional study carried out among 200 puerperae in São José do Rio Preto, Brazil. To evaluate the mother-child bond, we used the Mother-to-Infant Bonding Scale (MIBS). **Results.** The mean age of puerperae was 26.4 years; most women were white (60.0%), were married (87.5%), and had an elementary education (51.5%). Most deliveries were cesarean (80.0% of cases); 68.0% of women had no pain during labor, and only 54% had skin-to-skin contact immediately after delivery. Type of labor and pain did not significantly change the maternal bond, and the lack of skin-to-skin contact negatively influenced the bond. **Conclusion.** Puerperae participants had a high degree of bonding with their babies that is mainly related to history of skin-to-skin contact. Nurses must promote strategies that encourage skin-to-skin contact between mother and newborn in the delivery room.

Descriptors: mother-child relations; nursing care; postpartum period; infant, newborn.

Vínculo de las púerperas con sus hijos y experiencias del parto

Objetivo. Analizar el vínculo de las púerperas con sus hijos asociado a las experiencias durante y después del parto. **Métodos.** Estudio de corte transversal realizado con la participación de 200 púerperas de un Hospital Materno-Infantil de São José do Rio Preto-SP, Brasil. Para la evaluación del vínculo madre-hijo se utilizó la escala Mother-to-Infant Bonding Scale (MIBS). **Resultados.** Las púerperas tenían una media de edad de 26.4 años, predominó la raza blanca (60.0%), estado civil casada (87.5%) y enseñanza media (51.5%). El parto fue por cesárea en el 80.0% de los casos, hubo ausencia de dolor durante el trabajo de parto en 68.0% y solo el 54% efectuó contacto piel a piel inmediatamente después del parto. En cuanto a la MIBS, se encontraron puntajes elevados para el vínculo positivo y bajos puntajes para vínculo negativo

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y neutro. El tipo de parto y el dolor no se asoció al vínculo madre-hijo, pero la ausencia de contacto piel a piel influyó de forma negativa este vínculo. **Conclusión.** Las puérperas respondientes presentaron un elevado grado de vínculo con sus bebés el cual se relacionó principalmente con el antecedente de contacto piel a piel. Las enfermeras deben fomentar las estrategias que promuevan el contacto piel a piel de la madre con el recién nacido desde la sala de partos.

Descriptor: relaciones madre-hijo; atención de enfermería; periodo posparto; recién nacido

Vinculação das puérperas com seus filhos e experiências do parto

Objetivo. Analisar o grau de vinculação das puérperas com seus filhos, tanto isoladamente quanto associado às experiências durante e após o parto. **Métodos.** Estudo de corte transversal, realizado com a participação de 200 puérperas de uma maternidade

Introduction

The mother-child bond is of fundamental importance compared with other bonds that humans develop during life.⁽¹⁾ It is a single and long emotional relationship that begins early, during gestation, and is established slowly and gradually in a mutual adaptation process between mother and baby.^(2,3) The bond is understood as the ability of the mother to provide love, caring, and enough protection to fulfill the physical and emotional needs of the child. The formation of this bond is influenced not only by maternal behavior but also by the child's behavior.^(1,4) Human infants, unlike those from other species, cannot survive without the care from and bond with parents and caregivers; their interactions determine the quality of care that is offered after the delivery of the baby. Time immediately after delivery is considered critical for establishing the bond because the relationship is facilitated by adequate maternal hormonal system and is stimulated by presence of the baby.⁽¹⁾

First cares given to the baby, the manner in which the mother holds and handles the baby and the

de São José do Rio Preto, Brasil. Para a avaliação do vínculo mãe-filho utilizou-se a escala *Mother-to-Infant Bonding Scale* (MIBS). **Resultados.** A média de idade das puérperas foi de 26.4 anos, com predomínio da raça branca (60.0%), o estado civil casadas (87.5%) e ensino médio (51.5%). O parto foi por cesárea em 80.0% dos casos, houve ausência de dor durante o trabalho de parto em 68.0% e apenas 54% efetuaram contato pele a pele imediatamente após o parto. O tipo de parto e a dor não alteraram de forma significativa o vínculo materno, a ausência de contato pele a pele influenciou de forma negativa este vínculo. **Conclusão.** As puérperas participantes apresentaram um alto grau de vínculo com seus bebês que está relacionado principalmente a uma história de contato pele a pele. Enfermeiros devem promover estratégias que promovam o contato pele a pele entre mãe e recém-nascido na sala de parto.

Descriptor: relações mãe-filho; cuidados de enfermagem, vínculo, período pós-parto, recém-nascido.

way she establishes the routines, timing, and presentation of the world are characteristic factors of the first bonding relationship in humans, influence definitive psychic functioning, help form the basis of the baby's personality, and helps determine how future affective bonds will be established.⁽⁵⁾ Therefore, quality of the bond between mother and child will determine the child's future mental health conditions; that is, it is the basis for the creation of their first emotional bonds that would interfere in subsequent social relationships.^(6,7) Care delivery during gestation, labor and puerperium, mainly given by the nurse, must favor the creation of the mother-child bond by identification of factors that might interfere in this process. However, currently, there are several obstacles, mainly for centralized care in biomedical model, necessitating guidance for care practice that seeks life maintenance and quality of life; these depend on a significant and strong relationship with the family, both for the child and the mother.^(8,9)

This study aimed to characterize the demographic profile of puerperae and variables regarding delivery and to analyze the degree of the bond

between puerpera and child, both in isolation and associated with experiences during and after delivery. This study was based on the importance of recognizing that the quality of the maternal bond will determine the success of the mother-child relationship and constitutes the basis for the child's mental health.

Methods

This cross-sectional study was performed in a teaching hospital in the city of São José do Rio Preto – SP, Brazil, an institution that represents the main field of practical teaching of gynecology, obstetrics and pediatrics at Public State Faculty of Medicine and Nursing. The institution provides care for more than 2 million inhabitants from the 102 municipalities that are part of the 15 Regional Divisions of Health in the city of São José do Rio Preto. This large hospital in the São Paulo countryside currently has 180 beds; of these, 46 beds are designated for maternity. During the study, the hospital had 205 beds, 34 of which were maternity.

Data were collected in February 2014 among puerpera by using interviews with two instruments, one of which was structured, concerning the sociodemographic profile with some variables on delivery and significant experiences during and after delivery. We used the Mother-to-Infant Bonding Scale (MIBS), an instrument validated in 2005, which specifically evaluates the mental investment that the baby has in the parents' representative universe.⁽¹⁰⁾ This scale comprises 12 items of self-report, supported by three subscales: 1) positive bonding, evaluated by three items (affective, protective, and happy); negative bonding, evaluated by six items (angry, aggressive, sad, resentful, disappointed, uninterested); and unclear bonding, which highlights the presence of emotions not clearly related to bonding (afraid, possessive, neutral or without feeling). Each item has answer categories and one Likert-type scale ranging from 0 to 3: a score of 0 indicates the emotion is not present (elsewhere), and increasing scores indicate increasingly positive responses, up to its maximal level of 3 (very). The responses

reflect the feelings of parents in relation to child at the specific time in which the instrument is completed. The higher the score, the greater the degree of bonding seen.^(3,10) Initially, results of MIBS were analyzed in isolation, and posteriorly they were associated with some significant experiences that interfere in the development of the bond between mothers with their babies. We chose three significant experiences that have been extensively studied and that could interfere in the maternal bond: type of delivery, pain during delivery, and skin-to-skin contact.^(3,10)

To select the sample, we included puerpera who had delivered at Hospital da Criança and Maternidade de São José do Rio Preto – SP in February 2014 and who were at the first and tenth day after labor, were literate, did not have physical or cognitive limitations that would prevent them from completing the instrument, and agreed to participate in the study after signing the consent form. Therefore, sample calculation led to consideration of the mean number of monthly deliveries; the sample consisted of 200 puerperae. We excluded illiterate puerperae who had any medical reason that made it impossible for them to write, as well as those who did not agree to participate after they were adequately informed about the objective of the study.

For data analysis we used descriptive statistical techniques. For the association between significant experiences and items from MIBS, we used Mann-Whitney non-parametric tests to compare two sample groups, and Kruskal-Wallis to compare more than two sample groups; the significance level was 5%. The study followed guidelines of resolution 466/2 of the National Health Council. The study was approved by ethical and research committee with humans of the Faculdade de Medicina de São José do Rio Preto (n.168.636/2012).

Results

The mean age of puerpera included in the study was 26.4 years (standard deviation, 6.9 years;

median, 26 years). We observed the presence of a discrepant age value (outlier) — 46 years— that influenced the mean of the age distribution. The minimum age was 14 years, and the maximum age was 46 years. Data on patient age did not follow normal distribution. Most interviewed puerperae declared themselves as white (60.0%), as married (87.5%), and as having completed high school (51.5%). Most women had cesarean deliveries (80.0%), and 68.0% of women did not have pain during labor; only 54.0% had a chance for skin-to-skin contact with the baby immediately after delivery.

Table 2 shows the following scores on MIBS: total, type of delivery, occurrence of skin-to-skin contact just after delivery, and pain during labor. When evaluated in isolation, the MIBS score was elevated for positive bonding and low for negative bonding and neutral bonding, which shows that puerperal respondents are highly involved with their children. Responses to the MIBS component on current labor showed that the type of delivery did not affect the bonding degree. Pain during labor did not significantly influence domains on child and mother bonding. All p values were higher than the level of significant applied.

Table 1. Sociodemographic and cultural characteristics of 200 puerperae evaluated in the study

Characteristic	<i>n</i>	%
Race/ethnicity		
White	120	60.0
Parada	59	29.5
Black	21	10.5
Marital status		
Married	175	87.5
Single or separated	24	12.0
Education		
Primary	50	25.0
High school	103	51.5
High education	46	23.0
No data	1	0.5
Current delivery		
Cesarean delivery	160	80.0
Normal delivery	40	20.0
No data	1	0.5
Pain during delivery		
No	136	68.0
Yes	63	31.5
No data	1	0.5
Skin-to-skin contact		
No	108	54.0
Yes	90	45.0
No data	2	1.0

Table 2. Mean and standard deviation in Mother-to-Infant Bonding Scale according to total score, skin-to-skin contact, type of labor, and pain during labor, São José do Rio Preto de 2014

Domains	Total	Skin-to-skin contact			Type of labor			Pain during labor		
		No	Yes	<i>p</i>	Cesarean delivery	Normal	<i>p</i>	No	Yes	<i>p</i>
Affective	2.8±0.6	2.8±0.6	2.7±0.7	0.47	2.8±0.6	2.8±0.5	0.887	2.8±0.6	2.7±0.6	0.066
Protective	2.8±0.5	2.8±0.5	2.7±0.5	0.320	2.8±0.5	2.8±0.4	0.888	2.8±0.4	2.7±0.6	0.318
Happy	2.8±0.5	2.8±0.6	2.8±0.4	0.802	2.8±0.5	2.8±0.6	0.807	2.8±0.5	2.7±0.6	0.377
Angry	0.0±0.3	0.1±0.4	0.0±0.1	0.235	0.0±0.3	0.0±0.2	0.976	0.0±0.4	0.0±0.2	0.668
Aggressive	0.1±0.4	0.1±0.4	0.0±0.2	0.345	0.1±0.4	0.0±0.2	0.731	0.1±0.3	0.1±0.4	0.910
Sad	0.1±0.5	0.2±0.6	0.0±0.3	0.037	0.1±0.5	0.0±0.2	0.760	0.1±0.6	0.1±0.3	0.617
Resentful	0.0±0.1	0.0±0.1	0.0±0.0	0.192	0.0±0.1	0.0±0.0	0.488	0.0±0.1	0.0±0.1	0.559
Disappointed	0.0±0.3	0.1±0.4	0.0±0.1	0.141	0.0±0.2	0.1±0.5	0.875	0.0±0.2	0.0±0.4	0.466
Hopeless	0.0±0.1	0.0±0.2	0.0±0.1	0.396	0.0±0.1	0.0±0.2	0.126	0.0±0.1	0.0±0.2	0.402
Neutral	0.1±0.4	0.0±0.5	0.0±0.3	0.242	0.0±0.4	0.1±0.5	0.981	0.1±0.4	0.1±0.4	0.660
Possessive	0.0±0.1	0.0±0.1	0.0±0.0	0.192	0.0±0.1	0.0±0.0	0.488	0.0±0.1	0.0±0.1	0.559
Afraid	0.6±0.8	0.7±0.8	0.5±0.8	0.117	0.6±0.8	0.4±0.8	0.135	0.6±0.8	0.5±0.7	0.227

Results showed the influence of skin-to-skin contact (mother-baby) in the domain related to sadness ($p=0.037$): Puerperal who did not have contact with their newborns showed significantly more sadness than puerperae who had such contact with their child. Variables such as type of labor and pain during labor, when compared with results of the bonding subscale, were not statistically significant ($p>0.05$).

Discussion

In this study, the participants' mean age was 26.6 years, which is proportional to the reproductive age of Brazilian woman. This represents a young population because around 50% of them are younger than 30 years. In 2006, a national demographic study on the health of children and women was carried out; the following sociodemographic data were found in relation to race/ethnicity: 35.8% of Brazilian women living in the southeast region of Brazil declared themselves as white, while in other regions, especially the south region, there was a predominance of women who declared themselves to be black (65.7%). Therefore, these data show the divergence of findings in the study that showed a predominance of white women. When formal education level was evaluated, 50% of Brazilian women had

completed more than 8 years of education, indicating that they had complete elementary school.⁽¹¹⁾ In our study, 64.3% of women living in São José do Rio Preto concluded the second cycle of elementary education or more years of study. An adequate formal education level in a population is an essential requirement for development of a country to assure the exercise of citizenship and promote equality of social opportunities—among these opportunities, the right to healthcare.⁽¹²⁾

The marital status of participants in our study corroborate findings from a study in Portugal that also showed a higher percentage of married women (68.3% to 72.2%).^(10,13) The Winnicott study shows the importance of family support for puerperae who are vulnerable mainly within the first weeks after delivery.⁽⁵⁾ Of deliveries in Brazil, 48.3% were cesarean according to the census of 2006, and the southeast region had a higher number of cesarean deliveries (51.7%).⁽¹¹⁾ In the city of São José do Rio Preto, the number of cesarean deliveries is even greater (86.4%).⁽¹⁴⁾ In studies done in the city of São José do Rio Preto, we observed a high incidence of unnecessary cesarean deliveries and a number of women reported cesarean delivery as a commodity.⁽¹⁵⁾ In this study, unlike what the researchers expected, the type of current labor did not significantly influence any MIBS domain; however, these findings

corroborate other studies that showed no changes in emotional involvement of mothers with their newborns after different types of delivery.⁽¹⁶⁾ Studies show that pain in labor is considered a main builder of social representativeness of female attitudes about parturition, and it contributed to high index of cesarean deliveries in the country.⁽¹⁷⁾ In this study, pain during delivery did not significantly influence the mother-and-child bond; however, studies have shown that if labor is difficult and involves more pain, the mother-child relationship will change significantly.⁽¹⁸⁾ Promotion of skin-to-skin contact is an indicator of quality in humanized delivery care.⁽¹⁹⁾ According to ordinance no. 371 May 7, 2014, the Brazilian Ministry of Health instituted new guidelines for integral and humanized care to newborn, establishing that skin-to-skin contact must be assured immediately after labor in a continuous way; neonates are to be placed over the abdomen or thorax of the puerpera and are to be covered with a dry and warm cover in order to assure temperature maintenance.⁽²⁰⁾

A study in Paraná showed that only 5.3% of babies born from vaginal deliveries and 1.8% babies born from cesarean deliveries remained with the mother for at least 30 minutes; not allowing the mother and infant to have this sustained contact after delivery can harm both the maternal bond and the promotion of maternal breastfeeding.⁽²¹⁾ In Bahia, a study carried out in a public maternity unit showed that nursing professionals involved in promotion of skin-to-skin contact failed to encourage skin-to-skin contact between mothers and neonates. They did not worry about measures that could support mothers and would facilitate this first contact effectively; in addition, they did not inform women about the importance of this contact and not request consent for it. In general, the contact established is brief, and puerperae continue with doubts and anxieties because a short period does not enable adequate recognition between mother and child.⁽²⁰⁾ Another study done in Santa Catarina aimed to identify and analyze feelings expressed by mothers in the first contact with their child. It revealed that first moments after birth constitute a sensitive phase, and it constituted a precious opportunity for mothers to be touched by their babies.⁽²²⁾ In skin-to-skin contact there is huge change between mother and child, and it gives the

opportunity to begin bonding. Some puerperae are apprehensive about the characteristics of neonates soon after birth. However, having a team available to clarify any apprehension can transform the motivation factors of bonding.⁽²³⁾

In our study, we observed that lack of early skin-to-skin contact with the baby negatively influenced bonding: Puerperae who did not establish contact with the neonate were significantly sadder than puerperae who did have early skin-to-skin contact. Although the literature is clear regarding evidence on the importance of skin-to-skin contact, we observed that for more varied reasons the health team can still delay or limit this experience.^(22,24,25) Data obtained in this study, on a topic so little explored in our area, reveal the variability in the process by which puerperae bond to their babies.

Further studies are needed to clearly establish other significant experiences to before, during and after labor in order to improve the health team's understanding of how to act in this scenario. In addition, it is necessary to understand the need to respect pathways that lead a mother to establish a bond with her child. Some women might have difficulty establishing an emotional bond with newborn. The tasks for health professionals are to identify and act in such situations in order to offer help women establish a solid basis for interaction with and adequate care for their child, thereby facilitating interactions that strengthen the bond.

Limitations of this study include the extensive time needed to conduct the interview. In addition, some puerperae declined to answer the questions, which contributed to an oscillation in the number of responses. Moreover, some data were not evaluated because they were irrelevant; there was great turnover of puerperae because of the many deliveries done and small number of beds in the maternity; and it was difficult to interview puerperae who had health insurance.

Conclusion. Puerperae participants had a high degree of bonding with their babies that is mainly related to history of skin-to-skin contact. Nurses must promote strategies that encourage skin-to-skin contact between mother and newborn in the

delivery room. Administration of MIBS by nurses immediately after labor is essential to identify and prevent future fragility in the formation of bonding between mothers and babies and may enable the implementation of new strategies to strengthen this bonding. In addition, seeking direct and humanized care for puerperae will support them in providing adequate care to their child.

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