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Culture, bathing and hydrotherapy in labor: An exploratory descriptive pilot study

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ABSTRACT

Objective: Though bathing (hydrotherapy) is widely used during labor to decrease anxiety and pain and to promote relaxation, the influence of cultural beliefs about bathing by parturients is virtually unknown. This pilot study explored pregnant women's experiences of bathing, bathing in labor, and cultural beliefs about bathing.

Design: An exploratory, descriptive design.

Setting: Low risk obstetrical clinics.

Participants: Healthy Hispanic, Black, White, American-Indian and Asian women ($N = 41$) at >37 weeks gestation.

Methods: During a routine prenatal visit women responded to a brief openended questionnaire on the use of bathing. Data was captured using a modified ethnographic method involving observation and note taking with thematic analysis and quantification of percent response rates.

Findings: Forty-six percent ($N = 41$) of women used bathing for purposes other than hygiene but only 4.9% ($N = 41$) of these women bathed during a previous labor. The women described bathing as relaxing, easing, calming, and efficacious for relief of menstrual cramps and labor contractions. Ten percent of women reported cultural beliefs about bathing.

Conclusions: Women who bathe, report relief of anxiety, menstrual and labor pain and promotion of mental and physical relaxation. The findings do not support the view that bathing is associated with identifiable cultural beliefs; rather, they suggest that bathing is a self-care measure used by women. This practice is likely transmitted from generation to generation by female elders through the oral tradition. Assumptions that race or ethnicity precludes the use of bathing may be faulty. Cautionary instructions should be given to pregnant women who are <37 completed weeks of gestation, to avoid bathing for relief of cramping or contractions and to seek immediate health care evaluation. Study of culturally intact groups may uncover additional themes related to bathing in labor and as a self-care measure for dysmenorrhea.

1 Bathing in labor (hydrotherapy) is used across the world (Benfield,
2 2002) to promote relaxation and decrease parturient anxiety (Benfield et
3 al., 2001; Benfield et al., 2010) and pain (Benfield et al., 2001; Cammu
4 et al., 1994; Eldor et al., 1992; Lenstrup et al., 1987; Kisa Karakaya
5 et al. 2016). Articles published in the United States, Canada, England,
6 Australia, New Zealand, Sweden, Denmark, France, Belgium, Germany,
7 Poland, Iran, Israel and Turkey attest to the extent of its use (Aird
8 et al., 1997; Benfield et al., 2010; Busine & Guerin, 1987; Cammu et
9 al., 1994; Chaichian et al., 2009; Cluett et al., 2004; Cooper et al.,
10 2017; Eckert et al., 2001; Eldor et al., 1992; Eriksson et al., 1996;
11 Gradert et al., 1987; Lenstrup et al., 1987; Maude & Foureur, 2007;

12 McCandlish & Renfrew, 1993; Mesroglu et al., 1987; Moneta et al., 2001;
13 Odent, 1983; Ohlsson et al., 2001; Robertson et al., 1998; Kisa Karakaya
14 et al. 2016; Rush et al., 1996; Schorn et al., 1993; Waldenstrom &
15 Nilsson, 1992; Vanderlaan, 2017). Moreover, the American-College of
16 Nurse-Midwives (2017) and the American College of Obstetricians and
17 Gynecologists (2016) recently published practice guidelines for the use
18 of immersion/bathing during labor and birth. The healing properties
19 of bathing continue to be of interest (Stanhope et al., 2018). However,
20 though its use is widespread and current, the influences of cultural be-
21 liefs about bathing by parturients are virtually unknown and are not
22 addressed in these studies.

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23 Rather, this research and anecdotal literature focuses on the effects of
 24 bathing on anxiety and pain, analgesia use, length of labor and incidence
 25 of infection. It should be noted that bathing parturients are usually immersed
 26 in warm water to the chest. For a review of bathing (hydrotherapy)
 27 in labor including parameters for the intervention, see Benfield,
 28 (2002).

29 For the purposes of this study, culture is defined as “tradition and
 30 custom” (Williamson, & Harrison 2010 p.764). We hypothesized that
 31 cultural beliefs might influence the use of and purpose for bathing in
 32 non-pregnant, pregnant and laboring women. Our aim is to develop un-
 33 derstanding of bathing as a phenomenon by representing the practices
 34 of bathing women through their words and perspectives (Elliott et al.,
 35 1999).

36 Knowledge about culture and bathing in pregnancy and parturition
 37 is scant. The literature has focused primarily on the concepts of hot and
 38 cold (Nichter, 1987) during the postpartum period (Elter et al., 2016;
 39 Kaewsarn et al., 2003; Wadd, 1983) or on particular conditions such
 40 as edema (Mabogunje, 1990) or additives such as aromatic *Nat* leaves
 41 to ward off evil spirits (Elter et al., 2016). Only rarely have specific de-
 42 tails been provided about bathing practices. In Sri Lanka, for example,
 43 a full bath (nanawa) cools the body and mind while a body washing
 44 (anga sodanawa) is for cleansing purposes. The type, amount and force
 45 of water contacting the body, especially the head, are critical to main-
 46 tain a mental-physical balance. Because pregnancy is viewed as a state
 47 of overheating with increased vulnerability to hot and cold influences,
 48 bathing is more frequent in Sri Lanka (Nichter, 1987). It is unknown
 49 whether such traditional practices or cultural beliefs about bathing are
 50 found in a racially and ethnically diverse, bio-medically oriented society
 51 such as the United States. Therefore, this pilot study explored pregnant
 52 women’s experiences of bathing, bathing in labor, and cultural beliefs
 53 about bathing.

54 Methods

55 Design

56 A descriptive design was selected for the study using a mod-
 57 ified ethnographic method involving observation and note taking
 58 (Sandelowski, 2000).

59 Setting and sample

60 Women residing in a rural community in the Southeastern United
 61 States were recruited from the low risk obstetrical clinics at the county
 62 health department and the university’s school of medicine and from two
 63 private obstetrical practices. A university Institutional Review Board ap-
 64 proved the study. In each setting, women received care from physicians
 65 and nurse-midwives.

66 Potential participants were identified by nurses and obstetrical care
 67 providers. Study inclusion criteria were age 17 through 40, with a single-
 68 ton pregnancy, and at low risk for obstetrical complications. A contem-
 69 poraneous study measuring psychophysiological variables before and
 70 during bathing in early labor is described by Benfield et al., (2010) along
 71 with additional inclusion criteria necessitated by the intervention. A
 72 common consent was used for both studies. No incentive was provided
 73 for completing the bathing questionnaire or the Designation of Ethnicity
 74 and Race Form. At 37 weeks gestation, women who met the study cri-
 75 teria for both studies were approached to obtain informed consent and
 76 enrolled.

77 During a 14-month period, over 1000 charts were reviewed by the
 78 first author and approximately 135 women met the inclusion criteria.
 79 All were approached to obtain informed consent during a scheduled pre-
 80 natal visit, and 41 consented. Consent was primarily refused because
 81 women did not wish to participate in physiological data collection in
 82 the bathing intervention study. Of those women who consented, eleven

completed the physiological data collection during labor (Benfield et al.,
 2010).

Instrument

86 Three primary questions were asked of each participant, “Do you use
 87 bathing for purposes other than getting clean?” “Have you used bathing
 88 in labor with a previous pregnancy?” “Are there factors in your cultural
 89 beliefs about bathing?” If the answer to any of the questions was “yes”,
 90 participants were asked the following open-ended questions to elicit fur-
 91 ther information. “For what other purposes do you bathe?” “Tell me
 92 about your experience with bathing in labor: how did bathing in labor
 93 affect your pain?” “How did bathing in labor affect your anxiety?” “How
 94 did bathing in labor affect your relaxation?” “Describe your cultural be-
 95 liefs about bathing.”

Data collection procedure

96 The questions on the instrument were read to the participant by the
 97 data collector question by question. If the response was “no”, the data
 98 collector proceeded to the next question. If the answer was “yes” each
 99 open-ended questions was asked sequentially. Immediately following
 100 each question, the subject’s verbatim response was written directly on
 101 the questionnaire and then was read aloud by the data collector to the
 102 participant for clarification. Administration of the questionnaire and the
 103 Designation of Ethnicity and Race Form took approximately 5–10 min.
 104

105 An interpreter was present for all Spanish-speaking individuals and
 106 was instructed to interpret the language of the data collector and the
 107 subject’s responses. The translated Spanish responses were recorded in
 108 English by the data collector.

109 Care was taken by data collectors not to “lead” the subject in a re-
 110 sponse or show any positive or negative facial or verbal expressions to
 111 any answer. At the conclusion of the questionnaire, the participant was
 112 asked, “Do you have any questions? “Is there anything else you would
 113 like to tell me?” All participants answered “No”.

114 Several times a puzzled look on the face of a participant was ob-
 115 served by the data collector. For clarification, the question was repeated
 116 and then an immediate answer was usually forthcoming from the par-
 117 ticipant. In three instances, however, the participant continued to look
 118 puzzled by the question about cultural beliefs, even when it was re-
 119 peated. To clarify, the data collector noted special foods which people
 120 eat only on holidays or which they avoid as a result of some important
 121 life event such as marriage or childbirth. This explanation seemed to
 122 clarify the question for participants, who then proceeded to answer the
 123 question without hesitation.

124 All data collectors had completed education in the protection of hu-
 125 man subjects. To ensure interrater reliability, two Research Assistants
 126 (RAs) observed the first author consenting and collecting data on 2 par-
 127 ticipants, and then she observed each RA consenting and collecting data
 128 on 1 subject.

129 Designation of Ethnicity and Race was collected using NIH criteria.
 130 The participant was instructed to read the form and check two boxes,
 131 one for ethnicity and one for race. If she was Spanish speaking, the
 132 form was read to her in Spanish by the interpreter. The interpreter then
 133 pointed at the response box that the participant indicated, and the data
 134 collector then checked the corresponding box.

135 The first section of the form asked, “Do you consider yourself to be
 136 Hispanic or Latino?” In response, the participant was instructed to check
 137 one of two boxes, either Hispanic or Latino or Not Hispanic or Latino.
 138 The second section of the form asked, “What race do you consider your-
 139 self to be? Select one of the following.” The choices were American In-
 140 dian or Alaska Native, Asian, Black or African American, Native Hawai-
 141 ian or Other Pacific Islander, or White. A definition accompanied each
 142 ethnic and racial choice. An additional option, “Check here if you do
 143 not wish to provide some or all of the above information” was read. No
 144 participant chose this option. This tool did not differentiate ethnicity

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