Developing a tool for measuring postpartum women's experiences of respectful maternity care at a tertiary hospital in Kumasi, Ghana

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ABSTRACT
The authors of this paper are involved in a 5 years respectful maternity care (RMC) project at a tertiary healthcare facility in Kumasi, Ghana that seeks to change the culture of disrespect and abuse in maternity care practice, with a sub-objective of determining its impact on how midwives provide quality maternity care services in this healthcare facility. To achieve this objective, respectful maternity care must be conceptualized and measured. Our literature search revealed that a Ghanaian version tool that measures women's experiences of respectful maternity care is non-existent. Thus, this study aims to construct a scale that measures childbearing women's experiences of respectful maternity care during childbirth and the immediate postpartum period in the study setting. We surveyed 263 postpartum women with a draft scale we have developed. This scale had 42 questions that sought to measure postpartum women's experiences of respectful maternity care in a tertiary health facility in Kumasi. The scale development went through processes of exploratory factor analyses (EFA) and inter-item reliability tests. The EFA was done using SPSS-21. Through series of EFA, we have created a 23 items RMC scale (23i-RMC) with three main factors labelled as follows: Verbal abuse-free, Discriminatory-free and Dignified care (VADDC), Physical and Psychological Abuse-free care (PPAC), and Compassionate Care (CC). The Cronbach's Alpha of the 23i-RMC is 0.945 and those of the individual domains greater than the 0.70 minimum threshold, suggesting that there is greater reliability among the items in the scale and the subscales. This 23i-RMC scale is useful for assessing postpartum women's experiences of RMC in the study setting. We recommend the use and validation of the newly developed respectful maternity care scale in other healthcare facilities in Ghana.

1. Introduction
Along with other effective and efficient policies and programs, many low-and-middle-income countries (LMICs) are reducing their unacceptably high maternal and neonatal death rates through the promotion and implementation of healthcare facility-based deliveries with skilled birth attendants [1, 2, 3, 4, 5]. Despite the positive contribution of the facility-based delivery intervention, a growing body of evidence indicates that many childbearing women are becoming victims of disrespectful and abusive care in the hands of maternity care providers in countless healthcare facilities in LMICs [6, 7, 8]. Freedman defined disrespectful and abusive care as the “interactions or facility conditions that local consensus deem to be humiliating or undignified, and those interactions or conditions that are experienced as or intended to be humiliating or undignified” [9].

Given the evidence that disrespect and abusive care (D&AC) practices destroy the trust of childbearing women in healthcare systems that can result in adverse maternal and neonatal outcomes [8], programs that seek to promote respectful maternity care (RMC) services during pregnancy, childbirth, and the immediate postpartum period have received massive scholarly and donor support [10, 11, 12, 13, 14, 15, 16]. RMC is the recognition and administering of maternity care services that promote
the rights of the childbirth woman to quality healthcare devoid of any form of abuse (physical, psychological, and verbal), discrimination, dehumanization, humiliation, and disrespect [17].

The first steps to eradicate D&AC through the promotion of RMC involves the conceptualization and measuring of women's experiences of the phenomenon. This has been well documented in some studies, in which scholars have designed measurement tools that captures either the full spectrum of women's experiences of RMC or aspects of it [18, 19, 20, 21]. The mothers on respect (MOR) index, for instance, is an RMC measurement tool that assesses how the client-provider interactions affect childbearing women's sense of comfort, behaviour and perceptions of racism or discrimination [21]. The same authors have created another scale, “Mother's Autonomy in Decision Making” (MADM), that measures women's satisfaction with their decision making during maternity care [20]. The MOR and the MADM were developed within the context of Canada and USA. Other RMC scales were developed within the context of LMICs [18, 19], with one originating from Ethiopia [19]. Although all these scales are tools for measuring women's experiences of RMC, the subscales and items of the different scales have notable variations in the way certain aspect of the phenomenon were conceptualized. These observed variations were mainly context-specific, making it an important criterion in the design and measuring of RMC within a Ghanaian context.

The authors of this paper are involved in a 5 years RMC project at a tertiary healthcare facility in Kumasi, Ghana that seeks to change the culture of disrespect and abuse in maternity care practice, with a sub-objective of determining its impact on how midwives provide quality maternity care services in this healthcare facility. To achieve this objective, RMC must be conceptualized and measured. Our literature search revealed that a Ghanaian version tool that measures women's experiences of RMC is non-existent. Thus, this study aims to construct a scale that measures childbearing women's experiences of RMC during childbirth and the immediate postpartum period in the study setting.

2. Materials and methods

2.1. Study setting

Our study is situated in a tertiary health facility in Kumasi, located in the Ashanti region of Ghana. This facility provides healthcare services to patients across the country and has a bed capacity of about 1200 and a staff strength of about 3000. It is the main referral hospital for the Ashanti, Brong Ahafo, Bono East, Ahafo, Western North, the five northern regions (Northern, Upper East, Upper West, North East, Savannah), and neighbouring countries. It has twelve (12) directorates (departments) one of which is the Obstetrics and Gynaecology (O & G) directorate, which has four labour wards. In 2018, the hospital recorded an estimated 4792 Spontaneous vaginal deliveries, an estimated 123 maternal deaths, and 61 neonatal deaths [KATH O & G Records, 2019].

2.2. Expert review and instrument

We obtained a 60-items draft RMC scale from an RMC research team in Ethiopia [19]. The first four authors reviewed each of the items and selected 42 items that were contextually applicable to Ghana. The authors have extensively undertaken qualitative research among trainee midwives and practising midwives' descriptions of how they provide respectful maternity care and postpartum women's experiences of respectful maternity care in the study setting [6, 22, 23], so their expertise were relevant in selecting the items that best capture the experiences of women receiving intrapartum care services in the health facility. Also, the third and fourth authors provided technical expertise in the choice of extraction and rotation methods to use in developing the tool because of their research and academic expertise in biostatistics, public health, and health promotion.

2.3. Sampling and data collection

We used a convenient sampling technique to recruit the study participants from the postpartum unit at the hospital. Trained research assistants (RAs) visited the postpartum unit twice a week between April and August 2019 and approached the women and explain the purpose of the research to obtain written consent before administering the questionnaires. The RAs were bachelor's degree holders, fluent in English, and native “Twi” speakers. The questionnaire comprises of sections on demographic details of the participants and the 42-item RMC draft scale. The RAs successfully administered 270 questionnaires, seven of which were partially filled and were excluded. Respondents were asked to rank their RMC experiences on a 5-point Likert scale: strongly agree (5), agree (4), don't know (3), disagree (2), strongly disagree (1).

2.4. Data management and analysis

The collected data were entered and managed in SPSS version 21. Given that we selected the respondents based on convenient sampling technique, we used the principal axis factoring (PAF), which is recommended when the data violates assumptions of multivariate normality [24]. We chose varimax with Kaiser normalization as the rotation method for its superiority among other orthogonal factor rotation methods in producing a simplified factor structure [25]. We set the communalty and factor loading thresholds at 0.50 to help retain items that best measure the RMC following the guidelines of Hair et al [25]. Results from the KMO and Bartlett's Test of sphericity determined the sample adequacy and the suitability of the data for factor analysis. We performed an inter-item reliability test to determine the internal consistency among the items and the domains of the newly developed RMC scale. We assess the validity of the tool by performing correlation analysis among the subscales, and we used the Kruskal Wallis test to determine the relationship between the RMC and its components and respondents' level of education.

3. Ethical consideration

We sought and obtained ethical clearance from the Committee on Human Research, Publication, and Ethics (CHRPE) at the Kwame Nkrumah University of Science and Technology (KNUST) (reference number: CHRPE/AP/181/18) and the Komfo Anokye Teaching Hospital Institutional Review Board (reference number: RD/CR17/289). Respondents were interviewed in the comfort of their homes after they have given their verbal consent for visitation and written consent for questionnaire administration. We anonymised information that may reveal details of the participants to third parties. Participants were informed of their right to voluntary participation.

4. Results

4.1. Summary statistics of respondents' profile

Majority of the respondents were within the age group of 25–29 years (32.7%), had no formal education (36.4%), were Christians (82.2%), and were uniparous (35.9%) (see Table 1).

4.2. Summary statistics on sampling adequacy and the number of extracted factors

We reported summary statistics of sampling adequacy and the number of extracted factors at all stages of the EFA (see Table 2). The newly developed scale consists of three domains and 23 items (see Table 3). Nineteen (19) items were dropped from the draft scale for the following reasons: low communality scores and cross loading on two factors (see
Table 1. Profile of respondents.

| Variable | N (%) |
|----------|-------|
| Age      |       |
| 15–19    | 18 (6.9) |
| 20–24    | 35 (13.5) |
| 25–29    | 85 (32.7) |
| 30–34    | 86 (30.8) |
| 35–39    | 35 (13.5) |
| 40+      | 7 (2.7) |
| Missing  | 2     |

| Education |       |
|-----------|-------|
| No education | 95 (36.4) |
| Primary    | 64 (24.5) |
| JHS        | 11 (4.2) |
| SHS        | 51 (19.5) |
| Tertiary   | 40 (15.3) |
| Missing    | 2     |

| Religion |       |
|----------|-------|
| Christian | 212 (82.2) |
| Islam    | 46 (17.8) |
| Missing  | 5     |

| Parity |       |
|--------|-------|
| 1      | 92 (35.9) |
| 2      | 56 (21.9) |
| 3      | 52 (20.3) |
| 4+     | 56 (21.9) |
| Missing | 7     |

JHS: Junior Secondary School; SHS: Senior Secondary School.

Table 4). The Kaiser-Meyer-Olkin value of the final scale was 0.932, which is above the minimum threshold of 0.6 (Kaiser 1970, 1974) and Bartlett's Test of Sphericity (Bartlett 1954) reached statistical significance, supporting the factorability of the correlation matrix (see Table 2). The three-factor solution explained a total of 78.39% of the variance, with factor one, two, and three contributing 38.49%, 30.82%, and 8.08% of the explained variance, respectively (see Table 2). We labelled the extracted three factors as Verbal abuse-free, Discriminatory-free, and Dignified care (VADDC), Physical and Psychological Abuse-free care (PPAC), and Compassionate Care (CC). There was a weak negative correlation between VADDC and PPAC (ρ = -0.153, p ≤ 0.05), moderate positive correlation between VADDC and CC (ρ = 0.639, p ≤ 0.01), and weak positive correlation between PPAC and CC (ρ = 0.164, p ≤ 0.01), indicative of construct validity of the 23i-RMC scale.

4.3. Summary and reliability statistics of the 23i-RMC scale

We performed basic descriptive and inter-item reliability analyses for the sub-scale and the full 23i-RMC scale (see Table 5). The Cronbach’s Alpha of the 23i-RMC scale is 0.945 and that of the individual domains are: VADDC (11 items), α = 0.974; PPAC (9 items), α = 0.968; CC (3 items), α = 0.865. These Cronbach’s Alpha values are above the minimum threshold of 0.70, suggesting that there is greater reliability among the items on the main 23i-RMC scale and in the two sub-scales.

4.4. The relation between respondents’ education and RMC

The mean and SD values of the main scale and the sub-scales suggest that the data is skewed. Thus, we performed a normality test to ascertain whether to perform a parametric or a non-parametric test to examine if RMC—as measured by the newly developed scale—has any relationship with respondents’ level of education. We used the Kolmogorov-Smirnov statistic to test for normality of the distribution of scores. The Kolmogorov-Smirnov statistic was significant (p = 0.00), indicating violation of the assumption of normality. Therefore, we performed a Kruskal Wallis test, a non-parametric version of One-Way ANOVA, to assess the relationship between the level of education and RMC.

Before the test of association, we transformed the scores of each respondent on the main and sub-scales into a percentage scale for easy interpretation. To create the percentage score for respondents on each sub-scale and the main 23i-RMC, we subtracted the minimum score from the score of the respondent divided by the difference between the actual maximum score and the actual minimum score multiplied by 100 (((Respondent's score-minimum score)/(Actual maximum score-minimum score)*100)).

A Kruskal-Wallis test revealed a statistically significant difference in respondent’s experiences of RMC across five different education level (no education, n = 95; primary, n = 11; JHS, n = 64; SHS, n = 51; Tertiary, n = 40), χ² (4, n = 261) = 109.14, p = 0.00. The postpartum women who had no formal education recorded the highest median score (Md = 79.35%) compared to the other women with different levels of education: primary, Md = 56.52%; JHS, Md = 56.52%; SHS, Md = 56.71%; Tertiary, Md = 60.33%. The result suggests that postpartum women with no formal education rated their experiences of RMC at the hospital higher than those with some form of education.

We further assessed the relationship between each of the subscales of 23i-RMC and respondents’ level of education. First, we observed a statistically significant difference in respondent’s experiences of RMC across five different education level (no education, n = 95; primary, n = 11; JHS, n = 64; SHS, n = 51; Tertiary, n = 40), χ² (4, n = 261) = 109.14, p = 0.00. The postpartum women who had no formal education recorded the highest median score (Md = 79.35%) compared to the other women with different levels of education: primary, Md = 56.52%; JHS, Md = 56.52%; SHS, Md = 56.71%; Tertiary, Md = 60.33%. The result suggests that postpartum women with no formal education rated their experiences of RMC at the hospital higher than those with some form of education.

Secondly, we observed a statistically significant difference in respondent’s experiences of PPAC across five different education level, χ² (4, n = 261) = 15.82, p = 0.003. The women who had a tertiary level education recorded the highest median score (Md = 97.73%) compared to the other women with different levels of education: primary, Md = 56.52%; JHS, Md = 56.52%; SHS, Md = 56.71%; Tertiary, Md = 60.33%. The result suggests that postpartum women with no formal education rated their experiences of PPAC at the hospital higher than those with some form of education.

Lastly, we observed a statistically significant difference in respondent’s experiences of CC across five different education levels, χ² (4, n = 261) = 24.47, p = 0.000. The postpartum women who had no formal
education recorded a higher median score (Md = 91.67%) than other women with at least a primary school level education, all with a median score of 75.00. The result suggests that postpartum women with no formal education rated their experiences of CC at the hospital higher than those with some form of education.

5. Discussion

The study aimed to develop a tool to measure RMC in the study setting. Through EFA with a draft questionnaire with 42 items, we have now developed a scale to measure RMC.
The newly developed RMC scale, 23i-RMC, has three sub-scales—VADDC, PPAC, and CC. This suggests that postpartum women who visited the hospital perceived RMC as compassionate care and one devoid of abuse, discrimination, and disrespect. We included questions on privacy in the draft scale, but we had to drop them because of their low communality values and issues of cross-factor loadings. This could mean that the postpartum women did not perceive privacy as a critical component of RMC, but this may have to be further investigated. The summary statistics revealed that the respondents recorded a low score on the PPAC, suggesting that many of them might have been physically and psychologically abused during childbirth.

The items and components in the 23i-RMC share some similarities with the one designed by the Ethiopian team and other recently developed scales [18, 19, 20, 21]; however, there are some noteworthy variations. For instance, though questions on detainment in a hospital due to non-payment of service fees, improper vagina examination, and consent seeking were included in the 23i-RMC scale due to their high factor loadings and communality values in our scale, the same questions were dropped from the scale developed by Sheferaw et al due to their low communality values and low factor loadings [19]. The few other developed scales also did not have questions on detainment due to non-payment of service fees [18, 20, 21]. The validity and reliability of these questions only confirm what some studies from Ghana have revealed about the regular detainment of some postpartum women after delivery due to non-payment of service fees in healthcare facilities across the country [11, 23, 26]. These variations between the 23i-RMC and existing RMC scales prove that context implications of RMC should be considered when seeking to measure it.

We assessed whether there were differences in respondents’ perceive RMC experiences across the level of education. Generally, respondents with no formal education positively rated higher their experiences of RMC compared to those with some form of formal education. There is a possibility that postpartum women with no formal education did not have high expectations compared to their counterparts with some form of formal education. Our result is consistent with studies conducted in Kenya [27] and the Netherlands [28]. These studies found that women with a higher level of education rated their maternity care experiences to be unsatisfactory.

6. Conclusion

The study objective of developing an RMC scale to measure postpartum women's perception of RMC at the KATH was achieved. Through series of EFA, we have created a 23 items RMC scale (23i-RMC) with three main factors labelled as follows: Verbal abuse-free, Discriminatory-free and Dignified care (VADDC), Physical and Psychological Abuse-free care (PPAC), and Compassionate Care (CC). Postpartum women experiences of RMC at the facility differed based on their educational qualification, with the women with no formal education rating their experiences of RMC on the full scale and two of the subscales (PPAC and CC) at the hospital higher than those with some form of education. However, more women with tertiary level education rated their experiences on the VADDC subscale higher than those with lower or no formal education. Generally, women’s PPAC scores across the level of education are low, suggesting that many of the respondents have reported the type of intrapartum care received at the hospital to be physically and psychologically abusive.

This is the first study to the best of our knowledge from Ghana on RMC tool development, and the 23i-RMC scale proved valid and reliable in measuring RMC among women who delivered at the study setting. Nonetheless, we recommend that further exploratory and confirmatory factor analyses should be performed with a larger sample of postpartum women.

| Table 5. Reliability statistics for the RMC Scale. |
|-----------------|-----------------|-----------------|-----------------|-----------------|
|                | M [SD]          | Min-Max         | Cronbach’s Alpha | Alpha if an item is deleted |
| VADDC          |                 |                 |                 |                             |
| VADDC 1        | 3.98 [1.49]     | 11.0–55.0       | 0.974           | 0.974                      |
| VADDC 2        | 3.94 [1.45]     |                 | 0.973           |                             |
| VADDC 3        | 3.82 [1.51]     |                 | 0.971           |                             |
| VADDC 4        | 3.88 [1.50]     |                 | 0.972           |                             |
| VADDC 5        | 3.89 [1.50]     |                 | 0.972           |                             |
| VADDC 6        | 3.81 [1.58]     |                 | 0.970           |                             |
| VADDC 7        | 3.84 [1.56]     |                 | 0.970           |                             |
| VADDC 8        | 3.86 [1.46]     |                 | 0.972           |                             |
| VADDC 9        | 3.87 [1.55]     |                 | 0.971           |                             |
| VADDC 10       | 3.86 [1.55]     |                 | 0.971           |                             |
| VADDC 11       | 3.81 [1.64]     |                 | 0.976           |                             |
| PPAC           | 21.94 [13.48]   | 9.0–45.0        | 0.968           |                             |
| PPAC 1         | 2.29 [1.63]     |                 | 0.964           |                             |
| PPAC 2         | 2.36 [1.73]     |                 | 0.962           |                             |
| PPAC 3         | 2.30 [1.66]     |                 | 0.963           |                             |
| PPAC 4         | 2.39 [1.69]     |                 | 0.969           |                             |
| PPAC 5         | 2.56 [1.71]     |                 | 0.965           |                             |
| PPAC 6         | 2.47 [1.68]     |                 | 0.961           |                             |
| PPAC 7         | 2.42 [1.69]     |                 | 0.963           |                             |
| PPAC 8         | 2.45 [1.63]     |                 | 0.962           |                             |
| PPAC 9         | 2.70 [1.69]     |                 | 0.967           |                             |
| CC             | 12.35 [2.75]    | 3.0–15.0        | 0.865           |                             |
| CC 1           | 4.11 [1.00]     |                 | 0.775           |                             |
| CC 2           | 4.12 [1.05]     |                 | 0.771           |                             |
| CC 3           | 4.12 [1.05]     |                 | 0.880           |                             |
| 23i-RMC        | 76.39 [23.76]   | 20.0–100.0      | 0.945           |                             |

M: mean; SD: Standard Deviation; Min.-Max.: Minimum and Maximum scores.
women in the study setting and from other healthcare facilities in the region and across the country.

Declarations

Author contribution statement

V. M. Dzomeku and Adwoa B. B. Mensah: Conceived and designed the experiments; Performed the experiments; Contributed reagents, materials, analysis tools or data; Wrote the paper.

E. K. Nakua: Conceived and designed the experiments; Performed the experiments; Analyzed and interpreted the data; Contributed reagents, materials, analysis tools or data; Wrote the paper.

J. R. Lori and P. Donkor: Conceived and designed the experiments; Performed the experiments; Wrote the paper.

P. Agbadi: Analyzed and interpreted the data; Wrote the paper.

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Competing interest statement

The authors declare no conflict of interest.

Additional information

No additional information is available for this paper.

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