

ISSN Online: 2160-8806 ISSN Print: 2160-8792

Attitude toward Safety among Staffs in the **Iranian Maternity Care Units of Public** Hospitals with High Maternal Death Rate, 2015-2016

Nahid Akbari^{1*}, Marzieh Malek², Shima Haghani³

¹Midwifery and Reproductive Health, School of Nursing and Midwifery, Iran University of Medical Sciences, Tehran, Iran ²School of Nursing and Midwifery, Iran University of Medical Sciences, Tehran, Iran

Email: *Akbari1420@gmail.com

How to cite this paper: Akbari, N., Malek, M. and Haghani, S. (2017) Attitude toward Safety among Staffs in the Iranian Maternity Care Units of Public Hospitals with High Maternal Death Rate, 2015-2016. Open Journal of Obstetrics and Gynecology, 7, 386-394. https://doi.org/10.4236/ojog.2017.73040

Received: January 12, 2017 Accepted: March 26, 2017 Published: March 29, 2017

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Abstract

Background: Although extensive Mother-friendly Hospital initiatives have been improved the quality of maternity care in Iran, recent national reports have been indicated that obstetrics errors are still common. The current study aimed to assess safety attitude in the maternity care units of public hospitals in a region with high rate of maternal death in Iran. Materials and Methods: Data was collected from 314 midwives, specialist and also managers working in all public hospitals in 2016. The Cronbach's alpha coefficient was used to analyze psychometric features of the Safety Attitudes Questionnaire (SAQ). **Results:** 86.2% of the participants (n = 314) completed the questionnaire. Results showed that lower scores in teamwork, safety climate and also job satisfaction subcomponents. The working conditions and stress recognition had the highest negative scores. There was a significant relationship between the following subcomponents and work load: teamwork (r = -0.416, P-value = 0.05), stress recognition (r = 0.40, P-value = 0.05) and also working conditions (r = 0.421; P-value = 0.02). The score of midwives was significantly lower than specialists regarding job satisfaction (P-value = 0.014), working conditions (P-value = 0.02) and also the overall safety attitude score (P-value = 0.001). About 63% of respondents reported no error during the last year. The mean of error reporting during the last year significantly increased among specialists compared to midwives (P-value = 0.001). **Conclusion:** Maternity care units in the region with high maternal death have been faced with many intangible barriers related to safety attitude such as poor teamwork climate, working condition and also poor stress recognition. It is now needed to promote supportive environment for midwives and also strengthening staff cohesion

³Department of Biostatistics, School of Management and Information Technology, Iran University of Medical Sciences, Tehran,

through guiding the strategic direction of current maternity risk management system in creating open and just culture, improving leadership behaviors among senior managers and also addressing poor staffing levels.

Keywords

Safety Attitude, Maternity Care, Quality Care, Safety Culture, Risk Management

1. Introduction

Prevention of adverse events in maternity care is recognized as an essential priority for health care systems especially in developing countries [1] [2] [3]. It is noteworthy that maternal death is considered as the tip of an iceberg and women has been experienced reproductive morbidity 20 to 30 times more than normal range [3] [4]. Even in the countries with lower rate of maternal death, the nearmiss cases and severe maternal morbidity are still catastrophic [1] [2] [3] [4].

Iran has achieved a dramatically decline in the maternal mortality ratio that comparable with developed countries. According to the international reports, maternal death in Iran decreased 85%, from 120 cases in 1990 to 25 cases in 2013 [1]. However, in some regions of Iran such as Ilam province, maternal death has been yet reported at 32 cases per 1000 live birth [5]. At the present, Iranian maternity care system is managed centrally and universities are responsible to implement Maternal Health Program and also regulations related to Mother-friendly Hospital in order to improve the quality of maternity care [6] [7] [8]. Medicalized care is the norm of hospitals and midwifery care is undervalued in the Iranian maternity care system, [9] as caesarian rate has been recently reported 48 percent [10]. Iranian maternity risk management system has been developed based on the analysis of root causes of near-miss cases and all universities have been obligated to promote the structure and processes of safety since 2008, [6]-[12] however the obstetrical errors are still common, [7] [8] To prevent adverse events, it is critical to take comprehensive and proactive approach in the maternity risk management system [13] [14] [15]. It seems that in the current maternity care system, organizational issues that contribute to unsafe conditions have not been assessed in order to change safety behaviors of staffs and to mitigate adverse events [8]. This study aimed to assess safety attitude in the maternity care units for the first time in public hospitals with high maternal death reporting.

2. Methods and Materials

Across-sectional survey of 364 staffs was conducted in all public hospitals (one relatively large, four median and three small hospitals) in Illam Province. During March to May, 2016, research midwives asked ward managers to distribute the questionnaires to staff and encourage completion. All managers, midwives, specialists and other staff who involved in the maternity care system were enrolled

into the study. Staff returned questionnaire to research midwives from the wards for two months. Questionnaires were labelled with a code that allowed identification of the hospital and ward. Accordingly, the rate of responding was 86.2% and the study was conducted on 314 respondents.

Statistical analysis will carry out using the SPSS 16.0 software. Descriptive statistics such as frequencies, percentages for categorical variables and mean, standard deviation for continuous variables. The t-test and one way Anova were used to assess whether the means of groups were statistically different from each other and Pearson correlation coefficient was used to analyze the relation between continuous variables. P-value <0.05 is considered statistically significant.

Measurement tool: In the current study, we used Safety Attitudes Questionnaire (SAQ). This questionnaire was developed by Sexton B. *et al.* (2006) and assessed six safety-related climate domains including teamwork, safety climate, job satisfaction, perception of management, working conditions and stress recognition. Each item was scored based a 5-point Likert scale (1 = strongly disagree, 2 = slightly disagree, 3 = not applicable, 4 = slightly agree and 5 = strongly agree) [16]. Total scores were graded from 0 to 100 and more than 75% was considered as positive. In this study, Persian translation and back translation into English of the SAQ was done independently by two persons with good command of English and overseen by an expert committee including obstetricians, midwives and patient safety experts. In this expert committee, questionnaires were reviewed based on a holistic and not a verbatim approach regarding the clarity of words and sentences. Experts suggested to ask three following questions were added to respondents' demographic information (age, job discipline, working experience, work load) and to determine staff perception related to safety.

- 1) Number of reported errors during the last 12 months based on: no error was reported, one or two errors were reported, three to five errors were reported, and more than six errors were reported.
- 2) What safety grade do you give to this unit?
- 3) What safety grade do you give to this hospital?

Face validity was then done by 24 midwives and 8 obstetrics that checked the questionnaire for comprehension. Finally, the clarity or ambiguity of translated words and sentences, their difficulty or ease were assessed in the committee and a few suggestions were given for revision. Psychometric evaluation of Persian version of SAQ showed the reliability and validity of SAQ among Persian language speaking staff. The Cronbach's alpha was acceptable at 0.78-0/86.

The research project was approved in the ethical committee of Iran University of Medical Sciences under the code: IR.IUMS.REC.1394.921137319. Ethical considerations were observed in designing and conducting current study.

3. Results

Three hundred and fourteen of staffs (86.2%) completed the questioners. Most of them (82%) were midwives, 86% were female and 90.8% were bachelor. 10 percent were specialists which most of them were obstetricians and 8 presents

were managers. The mean age of participants was 33.52 ± 6.37 years. The mean of working experience in the maternity care units was 8.38 ± 6.56 years. Also the mean of working hours of participants was 49.53 ± 14.78 hours per week. The highest score in subdomains of safety attitude belonged to the following items: "I have the support from other staffs" (62.3%), "It is easy for staffs here to ask questions when there is something that they do not understand" (61.8%), "Midwives and specialists here work together as a well-coordinated team" (56.9%), and the lower rates belonged to the following items: "Management supports my daily efforts" (32.7%), "This hospital does a good job of training new staff" (37.5%), "Trainees in my discipline are adequately supervised" (38%). Subdomains such as teamwork and also safety climate had higher scores, but lower than 75 out of 100 which were considered as negative. The lowest scores in safety attitude belonged to subdomains as follows: working conditions (56.60 \pm 23.21), stress recognition (59.62 \pm 23) and also safety climate (61 \pm 16.02). There was no significant relationship between the age, gender and hospital ward (labor, postpartum and operating room) and positive attitude toward safety, based on the variance analysis results (Table 1). But related to subdomains such as teamwork (r = -0.716, P = 0.05), stress recognition (r = -0.409, P = 0.051), perception of management (r = 0.339, P = 0.02) and also working condition (r = -0.421, P = 0.02) showed a significant negative correlation with workload.

The items with highest scores were the following: "I like my job" (82.18), "I would feel safe being treated here as a patient" (69.91), "it is easy for personnel in this clinical area to ask questions when there is something they do not understand" (67.36), "Morale in this clinical area/ unit is high" (66.90), "this hospital is a good place to work" (65.97). The items with the lower scores were: "this hospital deals constructively with problem physicians and personnel" (42.59), "hospital administration supports my daily efforts" (44.68), "I receive appropriate feedback about my performance" (46.06), "the levels of staffing in this clinical area are sufficient to handle the number of patients" (47.69), "I am more likely to make errors in tense or hostile situations" (47.69).

Table 2 shows a significant difference regarding the subdomain of job satisfaction among all groups. In the current study, the overall attitude of the staff toward safety was about 63%; 65% and 62% of the respondents agreed that the grade of safety in the ward and also hospital were acceptable, respectively. Of course the grade of safety in the ward (P = 0.05) and hospital (P = 0.001) were significantly lower among midwives compared to the specialists. All respondents agreed that all domains of safety attitude had significant relationship with the grade of safety in the ward and also hospital (P = 0.001). In addition, 61% of the participants reported no error during the last year. In the current study, the mean of "not reporting any error" among the midwives was significantly lower than that of specialists during the last year (P-value = 0.001). Also, there was a significant relationship between the frequency of error reporting and teamwork among all domains of safety attitude.

Table 1. The mean and standard deviation of scores of safety attitudes and staff's demographic characteristics.

	Domains of attitude toward safety							
Variables	Teamwork	Safety climate	Job satisfaction	Stress recognition	Perception of management	Work condit		
Gender								
Female	14.24 ± 66.23	15.82 ± 61.23	22.83 ± 68.47	23.47 ± 59.56	18.83 ± 62.24	23.33 ±		
Male	$19/18 \pm 64.60$	17.25 ± 61.67	16.53 ± 76.91	20.50 ± 59.97	21.62 ± 68.26	$22.78 \pm$		
P-value	0.493	0.863	*0.004	0.911	0.051	0.76		
Education								
Bachelor	15.05 ± 65.96	16.13 ± 61.37	22.08 ± 70.32	23.30 ± 59.75	19.33 ± 63.08	23.33 \pm		
Master's degree or higher	13.97 ± 66.07	15.44 ± 60.79	22.56 ± 65.73	20.81 ± 58.63	20.11 ± 64.07	22.64 \pm		
P-value	0.969	0.843	0.256	0.790	0.780	0.97		
Age (year)								
under 30	60.23 ± 10.64	$78 \pm 29.12.64$	14.14 ± 12.66	93.79 ± 13.65	37.15 ± 12.62	$41.28 \pm$		
30 - 40	33.92 ± 13.65	14.65 ± 14.61	94.91 ± 11.68	45.67 ± 4.69	48.34 ± 13.66	$35.28 \pm$		
over 40	43.99 ± 14.63	61.26 ± 12.64	04.62 ± 12.70	40.54 ± 11.61	14.14 ± 12.67	$41.28 \pm$		
P-value	0.326	0.189	0.345	0.457	0.904	0.76		
Working experience (year)								
Less than 5	41.10 ± 13.61	27.11 ± 16.61	23.79 ± 11.62	$.3359\pm13.61$	$.1454 \pm 11.60$	10.4323		
5-10	35.13 ± 10.63	48.09 ± 12.62	45.47 ± 4.60	41.45 ± 4.62	24.63 ± 10.63	$22.92 \pm$		
More than 10	$4115.18\pm.62$	$2411.12\pm.60$	$11.3064\pm.61$	30.44 ± 11.63	04.22 ± 14.61	$23.99 \pm$		
P-value	0.13	0.110	0.800	0.346	0.518	0.97		
Working hour (hours/week)								
40≥	55.67 ± 14.51	63.55 ± 14.51	71.31 ± 21.34	66.31 ± 23.55	67.12 ± 15.55	61.41 ±		
40≤	61.38 ± 27.48	61.62 ± 12.02	68.81 ± 20.23	57.01 ± 11.87	60.31 ± 17.87	52.01 ±		
P-value	0.05*	0.889	0.990	0.05*	0.029*	0.02		
Hospital ward								
Labor	66.76 ± 13.92	61.33 ± 14.89	71.18 ± 21.26	60.31 ± 22.55	64.83 ± 17.96	56.94 ±		
Postpartum	64.90 ± 17.93	62.71 ± 18.19	69.51 ± 25.44	57.01 ± 22/87	64.08 ± 21.14	59.08 ±		
Operating room	65.63 ± 1.65	60.05 ± 15.90	67.85 ± 20.59	60.77 ± 23.89	59.83 ± 19.87	53.97 ±		
P-value	0.666	0.578	0.545	0.524	0.156	0.37		
Safety grade ward- level								
Poor	57.62 ± 17.38	52.63 ± 19.96	57.82 ± 27.30	69.55 ± 23.18	54.84 ± 20.46	$40.59 \pm$		
Acceptable	64.74 ± 11.71	59.77 ± 13.12	68.19 ± 21.27	61.80 ± 22.76	61.98 ± 17.65	$56.32 \pm$		
Very good	74.04 ± 11.48	67.71 ± 12.42	75.00 ± 18.18	51.28 ± 21.27	71.61 ± 16.96	$64.68 \pm$		
Excellent	69.00 ± 25.08	69.26 ± 25.95	85.40 ± 16.57	49.25 ± 25.21	66.43 ± 23.50	63.33 ±		
P-value	0.001*	0.001*	0.001*	0.001*	0.001*	0.00		
Safety grade- hospital level								
Poor	$59/82 \pm 27/30$	$54/84 \pm 20/46$	$40/59 \pm 28/27$	$59/63 \pm 19/96$	$69/55 \pm 18/23$	57/62 ±		
Acceptable	$66/19 \pm 18/27$	$61/98 \pm 17/65$	$56/32 \pm 20/96$	58/77 ± 17/12	$61/80 \pm 22/76$	64/74 ±		
Very good	$74/00 \pm 18/19$	$71/61 \pm 16/96$	$64/68 \pm 18/49$	67/71 ± 12/48	$51/28 \pm 21/27$	$74/04 \pm$		
Excellent	$80/40 \pm 16/57$	$66/43 \pm 23/50$	$63/33 \pm 2/11$	$69/26 \pm 21/95$	$49/25 \pm 2/21$	69/00 ±		
P-value	<0.001*	<0.001*	<0.001*	<0.001*	<0.001*	< 0.00		
Frequency of error reporting								
None	60.55 ± 14.51	60.56 ± 16.11	68.14 ± 23.45	59.59 ± 22.75	61.63 ± 19.75	55.42 ±		
One or two	65.62 ± 12.02	62.56 ± 12.85	74.91 ± 17.97	61.05 ± 20.81	68.42 ± 12.06	58.56 ±		
Three to five	64.65 ± 15.39	65.44 ± 14.11	72.38 ± 16.00	57.38 ± 21.87	64.97 ± 19.60	62.12 ±		
More than six	51.38 ± 27.48	50.79 ± 26.23	81.11 ± 14.09	54.16 ± 29.81	66.22 ± 29.90	58.33 ±		
P-value	0.28	0.01*	0.01*	0.06*	0.01*	0.04		

 $^{{}^{\}rm a}{\rm Statistically}$ significant value.

Table 2. Comparing the mean of positive safety attitude among staff.

Variables	Mean ± SD	Managers (n = 25) Mean ± SD	Specialists (n = 31) Mean ± SD	Midwives and other staff (n = 257) Mean \pm SD	P-value
Teamwork	16.02 ± 61.30	68.40 ± 10.12	69.96 ± 14.44	65.28 ± 14.56	0.098
Safety climate	16.02 ± 61.30	63.69 ± 13.52	64.05 ± 12.71	60.82 ± 16.47	0.370
Job satisfaction	69.62 ± 22.15	75.41 ± 12.33	77.25 ± 16.50	57.61 ± 23.33	0.014*
Stress recognition	59.62 ± 23.00	57.47 ± 20.20	59.80 ± 20.31	59.10 ± 23.52	0.294
Perception of management	63.19 ± 19.39	73.11 ± 16.62	63.28 ± 12.20	61.15 ± 19.58	0.001*
Working conditions	56.60 ± 21.23	61.45 ± 15.39	64.13 ± 20.46	54.65 ± 23.90	0.023*
Overall safety attitude	63.23 ± 12.62	66.13 ± 6.70	68.90 ± 11.33	61.03 ± 12.69	0.001*
Grade of safety-ward level					
Poor	34.83 ± 21.26	37.72 ± 26.30	33.83 ± 24.46	44.48 ± 28.27	0.001*
Acceptable	65.23 ± 51.17	62.38 ± 15.65	67.17 ± 17.27	55.52 ± 20.96	
Grade of safety (hospital level)					
Poor	38.17 ± 17.27	38.84 ± 20.46	38.68 ± 28.27	42.63 ± 19.96	0.05*
Acceptable	61.92 ± 23.65	65.98 ± 17.65	64.32 ± 20.96	57.77 ± 17.12	
Frequency of error reporting					
during last 12 months					0.0014
No error	62.80 ± 19.84	55.67 ± 16.38	52.34 ± 18.23	67.42 ± 24.49	0.001*
More than 3 errors	36.23 ± 16.71	43.33 ± 11.71	47.76 ± 22.76	33.58 ± 18.94	

A statistically significant value.

According to **Table 2**, there was a significant difference among professional groups regarding the job satisfaction subdomain. The Scheffe test indicated a significant difference regarding the job satisfaction in midwives compared to the specialists, and the mean score of this subdomain was significantly lower among midwives than specialists (P = 0.01). Also, subdomain of working conditions and overall positive safety attitude was significantly lower among midwives than specialists (P = 0.02). The score of perception of management was higher among managers and according to the Scheffe test, there was a significant difference between the score of managers and that of midwives regarding this subcomponent (P = 0.01).

4. Discussions

The current study assessed the organizational barriers to improve safety in maternity care units from the viewpoint of midwives, specialists and also managers for the first time in Iran. This study also had some limitations. Although the response of participants was high, considering the small sample size, results of the current study could not be generalized. The findings of current study may be generalized to the subsystems with similar conditions. Hence, more studies should be performed based on size of hospital, number of patients admitted, and also accreditation status of hospital using multiple regression method to explore factors affecting improvement of staff-led reporting system and also safety attitude.

According to the findings, improving safety in the maternity care units have been faced with barriers related to organizational culture which rooted in leadership, teamwork and also insufficient staffing levels. The score of safety climate which predicted error-reporting and also effective feedback system was low in this study which was in agreement with the findings of relevant studies [14]-[19]. In such a situation, staffs will be more prone to blaming each other when responding to adverse events and less likely to learn from error [19]. As, national reports and studies have emphasized that the current feedback system has not been effective for developing and maintenance of a high quality and safe maternity care [8] [9] [19]. It seems that Iranian maternity care system is mostly focused on "risk culture" approach than "safety culture" and following structure and strategies has not been changed based on supportive proactive approach. Low scores of subdomain of management perception, stress recognition, working conditions and also job satisfaction among staff were also reported in other similar studies [9] [19] [20]. These barriers were under the influence of poor supportive management, lack of leadership and also poor management of staff affairs, especially for the frontline staffs. Higher frequency of reporting errors by obstetrics compared of midwives might have been influenced by different two subcultures of obstetrics and midwifery system, relationship powers and also style of management in the current maternity care system. Further and more deeply studies should be conducted to explore which factors influenced on speaking up errors among midwives and specialists. However, it seems that structural and cultural issues such as weak authority of midwives and poor collaboration among midwives and specialists should be addressed through effective leadership and supportive management at all levels of system in order to improve staff behaviors.

5. Conclusion

Maternity care units in the region with high maternal death have been faced with many intangible barriers such as poor teamwork climate, working condition and also poor stress recognition. It is now needed to promote mutual respect, trust and staff cohesion and also to strengthen staff-led reporting system through guiding the strategic direction of risk management system in creating just and open culture, improving leadership behaviors among senior midwives managers and also addressing poor staffing affairs.

Acknowledgements

The current study was supported by the Deputy of Research and Technology of Iran University of Medical Sciences. The authors acknowledge their gratitude toward all managers and staff of Ilam hospitals who helped us with the current study, especially by completing the questionnaires.

Conflict of Interests

There was no conflict of interest.

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