DOI: 10.5455/msm.2014.26.182-185Received: 11 February 2014; Accepted: 25 May 2014

© AVICENA 2014

Published online: Published print:

21/06/2014 06/2014

ORIGINAL PAPER

Mater Sociomed. 2014 Jun; 26(3): 182-185

A Cross-sectional Study of Midwives' Perspectives Towards their Professional Educational Needs

Kobra Abedian¹, Jamshid Yazdani Charati¹, Keshvar Samadaee¹, Zohreh Shahhosseini¹

Mazandaran University of Medical Sciences, Sari, Iran

Corresponding author: Zohreh Shahhosseini, Vesal Street, Amir Mazandarani Boulevard, Sari, Mazandaran Province, Iran Tel: +98-151—2267342, Fax: +98-151-2268915, E-mail: zshahhosseini@yahoo.com

ABSTRACT

Background: Midwives are one of the most important health care providers and meeting their professional educational needs can be effective in maternal and child health promotion. Aim: The aim of this study was to investigate the midwives' perspectives towards their educational needs. **Methods:** In this cross-sectional study which was conducted in 2012 in Sari, North of Iran, 223 midwives during a convenience sampling method expressed their educational needs. The instrument of the data collection was a self-administered 64-question researcher-made questionnaire about the participants' educational needs in 10 fields related to midwifery profession. **Results:** The mean age and employment record of the participants were 33.87±10.49 and 10.09±8.14 years respectively, and the majority (65.02%) of them was employed in the health care centers. Findings showed that the highest score of midwives' educational need was related to need to education about labor and delivery care (75.14±21.13%) which was followed by the need to education about pre marriage counseling (74.04±19.95%) and pre conception counseling (71.33±21.89%). **Conclusions:** Owing to the emergence of new dimensions of tasks in midwifery practice and due to developing some changes in the educational needs of midwives, it's necessary to implement an updated educational package in order to deliver the recommended standards of care and to increase midwives' participation in continuing education programs.

Key words: continuing education, educational needs, midwives, needs assessment.

1. INTRODUCTION

Human resources are the most valuable inputs to the healthcare system, and in spite of the qualified personnel with sufficient knowledge, it can be expected to provide services with a higher quality (1, 2). As rapid progress in the field of science and technology makes the current knowledge and skills become rapidly old during a short time, the continuing education of healthcare providers is necessary for healthcare system promotion (3, 4, 5). The continuing education programs will help the healthcare providers to promote their previous performances and adapt themselves to the rapid changes and new roles as well.

The first step in providing the continuing education programs is need assessment which is defined as a systematic process for addressing gaps between what the individuals should know and what they know (6, 7). Accordingly, providing continuing education program based on the target groups' perspectives is the key tool to improve old and obsolete skills and to apply new technologies in providing services. This process make the continuing education programs more efficient too (8).

Midwives are one of the important healthcare providers and their continuing education is effective to increase maternal and child health status, as globally, educators realize that formal education does not ensure that individuals learn (9). Traditionally, midwives have vital role in partnership with women to promote self-care and the health of mothers, infants, and families. Although by emerging new dimensions of care in midwifery practice (10, 11), it's necessary to provide educational packages that prepare them to implement their new roles.

Currently, participation in continuing education programs on the job is compulsory for midwives in Iran. To the best of our knowledge few studies have been conducted to determine the educational needs of Iranian midwives (12, 13), so this research was performed to determine midwives' perspectives towards their educational needs.

2. MATERIALS AND METHODS

This descriptive cross-sectional study was conducted through convenience sampling method from those midwives who attended continuing education programs which were provided as a routine scheduled project from April to September 2012, in Sari city, in the North of Iran. From 250 questionnaires which were distributed, data of 27 questionnaires were not entered to SPSS as a result of large missing data (response rate: 89.2%). Finally data of 223 midwives were analyzed.

The instrument of data collection was a questionnaire which measured the demographic characteristics of participants in section one, and in section two the midwives' point of view about their educational needs in 10 fields related to midwifery practice (64 questions) in a five Likert scale (Not a priority, Priority, Medium priority, High priority and Essential). The primary version of instrument was based on a literature review in this area (4, 14, 15) and the point of view of experts. The validity of questionnaire was confirmed by content validity during polling from 10 faculty members. Moreover, the testretest was used for the reliability of the instrument. In this way, the questionnaire was distributed on two occasions among 25 midwives at 14-day intervals. The correlation coefficient of the questionnaire was=0.91. Ethical issues (Including: plagiarism, informed consent, misconduct, data fabrication and/or falsification, double publication and/or submission, redundancy) have been completely observed by the authors.

The collected data were fed into the Statistical Package for Social Sciences for Windows version 13.0 (SPSS Inc., Chicago, IL, USA) for further analysis. Means and standard deviations were computed and reported.

3. RESULTS

The results showed that the participants' mean age and their employment record were 33.87±10.49 and 10.09±8.14 respectively. Moreover, the majority (94.86%) of the participants held Bachelor of Science in midwifery. The participants' demographic characteristics are summarized in Table 1.

Based on the findings of this study, the highest score of midwives' educational need was related to the "need to education about labor and delivery care" (75.14 \pm 21.13%) which was followed by "need to the education about pre marriage counseling (74.04 \pm 19.95%) and pre conception counseling (71.33 \pm 21.89%). Mean score and standard deviation of midwives' educational needs are presented in Table 2.

In this study, in each of the 10 main educational domains, some of the subheading items in five Likert scale from 1 to 5

| Age(yr)* | 33.87±10.49 | |
|---|---|------------|
| Employment record (yr)* | 10.09±8.14 | |
| Educational level** | Two trained courses after diploma | 6(2.72) |
| | Baccalaureate | 211(94.86) |
| | Masters/doctorate | 6(2.72) |
| Current work set- ting** | Delivery ward in state hospital | 50(22.43) |
| | Other wards(except delivery) in state hospital | 22(9.86) |
| | Health care centers | 145(65.02) |
| | Private office | 6(2.69) |
| Participation in continuing educa- tion programs in last year" | Yes | 99(44.40) |
| | No | 124(55.60) |
| Any record of management experience | Yes | 16(7.17) |
| | No | 207(92.83) |

Table 1. Socio demographic characteristics of participants Mean±SD * Frequency (percent) **

| | Mean ±SD (%) |
|---|-------------------|
| Need to education about labor and delivery care | 75.14±21.13 |
| Need to education about pre marriage counseling | 74.04±19.95 |
| Need to education about pre conception counseling | 71.33±21.89 |
| Need to education about sidelong skills (except midwifery skills) | 68.76±17.58 |
| Need to education about menopausal counseling | 67.87±23.39 |
| Need to education about puberty counseling | 67.60±20.20 |
| Need to education about prenatal care | 67.41 ± 23.40 |
| Need to education about postpartum care | 67.39±21.69 |
| Need to education about gynecologic counseling | 67.28±21.62 |
| Need to education about neonatal care | 60.91±21.25 |
| | |

Table 2- Mean score and standard deviation of midwives' educational needs

| Main educational needs | Subheadings | Mean ±SD |
|---|--|-----------------|
| Labor and delivery care | Mothers' resuscitation | 4.10±0.98 |
| | Screening of high risk conditions of labor and delivery | 4.05±0.99 |
| | Management of high risk conditions of labor and delivery | 4.02±1.01 |
| Pre marriage counseling | Normal and abnormal sexual function | 4.02±0.90 |
| | Teratogens in pregnancy | 3.97±0.87 |
| | Sexual function counseling | 3.96±0.94 |
| Pre conception counseling | Chronic medical diseases in pregnancy | 3.90±0.97 |
| | National Pre conception counseling programs | 3.84±1.02 |
| | Genetic diseases in pregnancy | 3.83±1.01 |
| Sidelong skills (except midwifery skills) | Use of herbal drugs in midwifery | 3.93±1.02 |
| | Computer use skills | 3.90±0.96 |
| | Non-medical interventions in midwifery | 3.90±0.90 |
| Menopausal counseling | Non-medical therapies in meno- pause | 3.78±1.09 |
| | Hormone replacement therapy in menopause | 3.76±1.04 |
| | Women adaptation to menopause | 3.75±1.03 |
| Puberty counseling | Psycho-social changes in adolescence | 3.77±0.92 |
| | Prevention of STDs and sexual high risk behaviors | 3.76±1.01 |
| | Counseling with adolescent and her family | 3.72±0.92 |
| Prenatal care | Management of high risk preg- nancy | 3.84±1.04 |
| | Drugs administration in pregnancy | 3.83 ± 1.03 |
| | Mental health in pregnancy | 3.80±1.01 |
| Postpartum care | Postpartum psychological disorders | 3.83±0.89 |
| | Postpartum somatic disorders | 3.77±0.97 |
| | Drugs administration in lactation | 3.70±1.03 |
| Gynecologic counseling | Infertility and essentials of its treatment | 3.88±1.08 |
| | Essentials of sexual disorder therapy | 3.83±1.08 |
| | Breast diseases | 3.72±1.05 |
| Neonatal care | Newborns' resuscitation | 3.58±1.40 |
| | Rehabilitation centers for disabled children | 3.46±1.02 |
| | Common behavioral disorders in childhood | 3.43±1.02 |

Table 3. Mean score and standard deviation of midwives' educational needs (The most frequent subheadings)

score was assessed which its results illustrated as bellow. Among all expressed needs in the different fields, the "need to the education of mothers' resuscitation" had the highest score (4.10 ± 0.98) . Also, in the field of pre marriage counseling and pre conception counseling, the "need to the education of normal and abnormal sexual function" (4.02 ± 0.90) and the "need to the education of chronic medical diseases in pregnancy" (3.90 ± 0.97) had the highest score from the participants' point of view accordingly. In the field of sidelong skills in midwifery; menopausal counseling and puberty counseling the "need to the education on the use of herbal drugs in midwifery" (0.93 ± 1.02) , the "need to the education on non-medical therapies in menopause" (3.78 ± 1.09) , and the "need to the education of psychological changes in adolescence" (3.77 ± 0.92) had the highest score respectively.

Finally, based on the participants' point of view, in the field of the prenatal care; postpartum care; gynecologic counseling and neonatal care, the "need to the management of high risk pregnancy (3.84 ± 1.04) ; the "need to the education of postpartum psychological disorders" (3.83 ± 0.89) ; the "need to the education of infertility and its essential treatment" (3.88 ± 1.08) and the "need to the education of newborns' resuscitation " (3.58 ± 1.40) respectively were the most important needs. Table 3 shows the most common educational needs from the point of view of the participant midwives in the study.

Based on the findings of this study, the majority (38.12~%) of the midwives agreed to hold the continuing education programs as workshop, and a large number of them (26.92%) were not satisfied with the exclusively lecture method.

4. DISCUSSION

The findings of the present study in line with the other studies showed midwives have special training and development needs in order to do different tasks in midwifery (3, 10, 15). Findings of this project based on highest score of participants' need to education about labor; delivery and postpartum care indicated as midwives assist in critical decision making regarding appropriate care in labor and delivery, basic and post -basic education about how to manage high-risk conditions in pregnant mothers must be in attention (16).

Other educational needs from participants' perspectives were need to educate about counseling skills in midwifery practice including: pre marriage; preconception; puberty; gynecologic and menopausal counseling. By definition of International Confederation of Midwives, competent midwives besides their critical roles in safe motherhood, have important duties in psycho-social health of their clients and providing obstetrical counseling services (14, 17, 18). They are keen to communicate with clients, their families, colleagues and working people in other specialties in order to establish their occupational tasks (12, 19). By considering this fact that almost two-thirds of 55 thousands of midwifery graduate are unemployed in Iran (20), meeting midwives' educational needs about counseling skill, either as official curriculum or continuing education programs, could provide a suitable context for Iranian midwives' employment and achieving Millennium Development Goals.

In the field of neonatal care, need to education about newborns' resuscitation had the most score which was in accordance with other studies(21, 22). In Iran, 54.45% of deliveries (48.60% in cities and 64.32% in villages) is performed by midwives (23) and like many developing countries, they are the first person to contact the neonate after birth, so it's suggested that resuscitation workshop would be conducted at least for all working midwives in delivery and operation room (24, 25).

Among the required sidelong skills (except midwifery skills), the most of participants expressed they need to achieve some skills towards applying computer software and education about use of search engines in order to accesses to new issues in midwifery discipline (26, 27). This issue possibly refers to this reason that in basic curriculum of midwifery students very limited hours related to the learning computer has been considered.

In conclusion, findings of this paper emphasize the need for providing an updated educational package for midwives, in order to link provision with different tasks of midwives. By considering the importance of continuous education programs in midwives' scientific and practical promotion, midwifery managers and educationalists ought to implement continuing educational programs based on midwives' real professional needs and also by meeting their expectations in order to increase their participation in continuing educational programs.

Authors' Contributions

Z Sh and KA contributed to development of ideas and design of the study. KS assisted with the planning of the study and JY analyzed and interpreted the gathered data. Z Sh wrote the first draft of the manuscript, which has been commented on by the other authors. All authors read and approved final manuscript.

Acknowledgments and funding

The authors wish to thanks Mazandaran University of Medical Sciences for funding this project (Grant Number: H-90-25) and all midwives that the study was not possible without their Cooperation.

CONFLICT OF INTEREST: NONE DECLARED.

REFERENCES

- 1. Richards L, Potgieter E. Perceptions of registered nurses in four state health institutions on continuing formal education. Curationis. 2010; 33(2): 41-50.
- 2. Griscti O, Jacono J. Effectiveness of continuing education programmes in nursing: literature review. Journal of Advanced Nursing. 2006; 55(4): 449-456.
- Heslehurst N, Russell S, McCormack S, Sedgewick G, Bell R, Rankin J. Midwives perspectives of their training and education requirements in maternal obesity: A qualitative study. Midwifery. 2013; 29(7): 736-744.
- 4. Elliott S, Murrell K, Harper P, Stephens T, Pellowe C. A comprehensive systematic review of the use of simulation in the continuing education and training of qualified medical, nursing and midwifery staff. The JBI Database of Systematic Reviews and Implementation Reports. 2011; 9(17): 538-587.
- Flores Peña Y, Alonso Castillo M. Factors influencing nursing staff members' participation in continuing education. Revista Latino-Americana de Enfermagem. 2006; 14(3): 309-315.
- 6. Asadi-Lari M, Gray D. Health needs assessment tools: Progress and potential. International journal of technology assessment in health care. 2005; 21(03): 288-297.
- Abbaszadeh SM, Nikbakht Nasrabadi A, Vaskouei Eshkevari K. Assessing educational needs of nurse managers affiliated to state hospitals. Iranian Journal of Nursing Research. 2010; 15(4): 16-24.
- 8. Vaezi A, Vanaki Z, Ahmadi F. Strategies for Continuous Nursing Education: A qualitative Study. Iranian Journal of Medical

- Education. 2013; 13(1): 1-17.
- 9. Fahey C, Monaghan J. Australian rural midwives: perspectives on continuing professional development. Rural Remote Health. 2005; 5(4): 468.
- 10. Hobbs JA. Newly qualified midwives' transition to qualified status and role: Assimilating the 'habitus' or reshaping it? Midwifery. 2012; 28(3): 391-399.
- 11. Persson M, Hörnsten Å, Winkvist A, Mogren I. Mission Impossible? Midwives' experiences counseling pregnant women with gestational diabetes mellitus. Patient education and counseling. 2011; 84(1): 78-83.
- 12. Ehsanpour S. Achieving Minimum Learning Requirements from the Viewpoints of Midwifery Students in Isfahan School of Nursing and Midwifery. Iranian Journal of Medical Education. 2006; 6(2): 17-25.
- 13. Toulabi T, Janani F, Qurbanmohammadi E. The Appropriateness of Educational Programs' Objectives for Professional Needs: The Viewpoints of Khorramabad School of Nursing and Midwifery Graduates. Iranian Journal of Medical Education. 2009; 8(2): 263-273.
- Fullerton J, Severino R, Brogan K, Thompson J. The International Confederation of Midwives' study of essential competencies of midwifery practice. Midwifery. 2003; 19(3): 174-190.
- 15. Hennessy D, Hicks C, Koesno H. The training and development needs of midwives in Indonesia: paper 2 of 3. Human Resources for Health. 2006; 4(1): 9.
- Einav S, Matot I, Berkenstadt H, Bromiker R, Weiniger C. A survey of labour ward clinicians' knowledge of maternal cardiac arrest and resuscitation. International journal of obstetric anesthesia. 2008; 17(3): 238-242.
- 17. Fullerton JT, Gherissi A, Johnson PG, Thompson JB. Competence and competency: core concepts for international midwifery practice. International Journal of Childbirth. 2011; 1(1): 4-12.
- 18. Lalonde A, Daviss B-A, Acosta A, Herschderfer K. Postpartum hemorrhage today: ICM/FIGO initiative 2004-2006. Interna-

- tional Journal of Gynecology & Obstetrics. 2006; 94(3): 243-253.
- Taghizadeh Z, Rezaiepour A, Mehran A, Alimoradi Z. Usage of communication skills by midwives and its relation to clients' satisfaction. Hayat. 2006; 12(4): 47-55.
- Rashidian A, Khosravi A, Khabiri R, Khodayari-Moez E, Elahi E, Arab M, et al. Islamic Republic of Iran's Multiple Indicator Demograpphic and Health Survey. (IrMIDHS), 2010. Ministry of Health and Medical Education. Tehran, 2012.
- Bolbol Haghighi N, Ebrahimi H, Delavarianzadeh M, Hasani M. Effects of education on midwifery students' knowledge and skill in neonatal resuscitation. Strides in Development of Medical Education. 2007.
- 22. Enweronu-Laryea C, Engmann C, Osafo A, Bose C. Evaluating the effectiveness of a strategy for teaching neonatal resuscitation in West Africa. Resuscitation. 2009; 80(11): 1308-1311.
- 23. Nahidi F, Tavafian SS, Heidarzadeh M, Hajizadeh E, Montazeri A. The Mother-Newborn Skin-to-Skin Contact Questionnaire (MSSCQ): development and psychometric evaluation among Iranian midwives. BMC pregnancy and childbirth. 2014; 14(1): 85.
- 24. Wall SN, Lee AC, Niermeyer S, English M, Keenan WJ, Carlo W, et al. Neonatal resuscitation in low-resource settings: What, who, and how to overcome challenges to scale up? International Journal of Gynecology & Obstetrics. 2009; 107: S47-S64.
- Niknafs N, Niknafs P, Bahman-Bijari B. Effective Factors on Maintaining Neonatal Resuscitation Skills among the Nurses and Midwives in Kerman Province Hospitals. Strides in Development of Medical Education. 2009; 6(1): 66-73.
- Hillan EM, McGuire MM, Cooper M. Computers in midwifery practice: a view from the labour ward. Journal of Advanced Nursing. 1998; 27(1): 24-29.
- 27. Webster J, Davis J, Holt V, Stallan G, New K, Yegdich T. Australian nurses' and midwives' knowledge of computers and their attitudes to using them in their practice. Journal of Advanced Nursing. 2003; 41(2): 140-146.