Explaining Current and Changing Teachers' Educational Needs in Health Care Behvarz Training Centers during 2012-2013 in Iran

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Abstract

Background and purpose: Considering that health care training centers' teachers are one of the main elements of human-force training for rural health care system in the country, it is essential to improve knowledge and skills. The purpose of this study was to explain educational needs of teachers in our country in Behvarz training centers.

Methods: This is a qualitative and a needs assessment study and experts' opinion method, experts' group discussion and Delphi was used for data extraction and the study was conducted during the years 2012-2013 by two methods: direct and indirect needs assessment. Needs related to learning were determined using experts' opinion method after holding two sessions of experts' group discussion (two groups of ten top country teachers and a group of five top experts responsible for health providing) and two rounds of Delphi (a group of 12 Behvarz experts) and a round of ranking. The first round of Delphi questionnaire was designed with 77 closed questions and 3 essay questions in 5 categories based on Behvarz educational textbooks and the results of experts' group discussion sessions and were sent to the participants. Based on the results of the first round, the second round of Delphi questionnaire consisted of 84 closed questions and 3 open-ended questions was designed and resent. In third stage, a questionnaire of 68 items was sent to the experts to determine the priorities of educational needs. Data were analyzed using SPSS-18 statistical software.

Results: The findings indicate that each teacher needs general and special education issues (teaching, management, research method, personal development skills). Educational needs of first aid and relief efforts (of nursing) were determined for all teachers with different specialties and only English language skill was not determined necessary.

Conclusions: The results indicate that the educational needs are common in some cases for all teachers and in some cases differ in terms of study field and teaching area and due to changes in the current health package; educational needs are changing and require needs assessment and teachers' ongoing retraining.

Keywords: Educational needs assessment, instructor, Behvarz education centers, health care service system

Journal of Medical Education Summer 2015; 14(3):119-128

Introduction

Health is an important issue of life and in rural health, health provision services is

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central core of health care system. Behvarz training centers is main training center for health care system in our country, villages and teachers' ongoing training in these centers helps to improve this process.

A flexible education system which considers time and place requirements can increase the efficiency of human resources training. To achieve this, teachers need ongoing education. The content of this training should

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be based on objective community needs and this will be possible only through educational needs assessment. Therefore this study was done with the aim to explain current and changing educational needs of teachers of Behvarz training centers.

Methods

This is a needs assessment study through expert opinion method. Expert group discussion and Delphi was used for data extraction. The purpose of this study was to determine the teachers' present and future educational needs in Behvarz training centers based on scientific evidence and also professional experiences.

Questionnaire development, in this study, 25 people was invited to participate in expert group discussion. First, two sessions of focused group discussion were held to identify educational needs topics with the participation of 20 Behvarz instructors. These people were selected by regular random sampling method from the list of Behvarz teachers of the country. After extracting the results of group discussion sessions, one discussion session was held to review the findings and questionnaire design with 5 experts responsible for health care provision who were selected based on purposive sampling method and according researcher knowledge of their to performance and work experience in health Content validity of provision. the questionnaire was determined with 6 experts responsible for health provision in health deputies of universities and senior experts in health deputy of Health Ministry, apart from the participants in discussion groups, as expert group and they `were asked to comment on the questionnaire. After receiving guidance responses of elected group, proposed changes and reforms were applied and the final questionnaire was prepared. In order to achieve consistent findings. other researcher who had no connection with the study was used as an external observer and according to the same understanding of the findings, consistency of findings were confirmed.

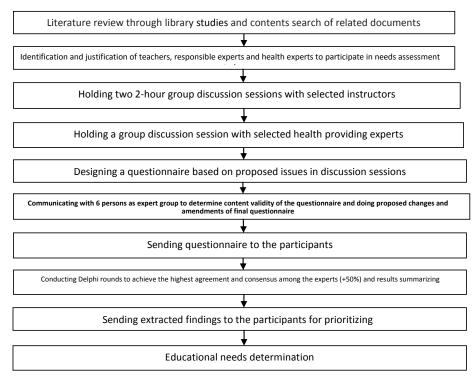


Figure 1. Process of the study

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Question type				Ranking round	Second Delphi round	First Delphi round
Open question No.					3	3
Closed question No.				68	84	77
Teaching		1		19	20	18
Network system management		2		7	13	9
Method		3		4	7	6
Information and communication technology	Personal development	4		7	9	8
English language	skills			0	4	4
Educational content of family health	Educational	5	Area	6	6	7
Educational content of prevention and diseases care	packages of current health		type	6	6	6
Educational content of environment and work health	program			4	4	4
				3	3	3
Educational content of midwifery						
Educational content of nursing cares				12	12	12

Table 1. Questionnaire items description

Twelve experts were selected based on purposive sampling method for participating in a Delphi survey to determine educational needs of health care providers. This study was conducted in two rounds of Delphi. The first round questionnaire was sent to participants and after completion they returned the the researcher. questionnaire to The researcher after summating received responses again sent the questionnaire to the participants. This cycle was continued to obtain a relative consensus (agreement of more than 50%) and educational needs were specified and again in the form of a questionnaire were sent to the experts in order to prioritize and determine educational needs. Figure 1 shows the process of study and Table 1 describes questionnaire questions.

This questionnaire was adjusted in accordance with tricyclic Harden model and based on Likert scale.

In the first round of Delphi, related questions were answered by the experts.

The second questionnaire was adjusted by analyzing the results of the first round and again was sent to the experts for the second round. Analysis of the findings of two rounds of Delphi identified educational needs from the viewpoint of the experts. In order to determine educational priorities, the needs of each area were set in separate tables and again in the form of a questionnaire consisting of 68 educational needs in 5 domains were sent to the experts to prioritize.

Data analysis, Data analysis was done using statistical software SPSS-18. In order to describe the first and second rounds of Delphi questionnaire, descriptive statistics were used and the third round questionnaire was set to prioritize teachers' educational needs.

Ethical considerations, informed consent was obtained from all participants to participate in the study. They were assured that information obtained from this study will remain confidential and also they are free to leave research cycle at any stage. In this study, the benefit of Persian and English were observed the principles of integrity.

Results

Educational needs and priorities (see Table 2 and 3) are as below. What comes from the findings and from the perspective of the experts is that every Behvarz teacher in addition to learn general educational content that includes educational content of teaching technique, network system management, research method and personal development skills/information technology and communication, they also should be trained in their specialized areas. Teachers should learn and teach educational content based on their expertise (field of study and work). All Behvarz teachers with different specialties require two skills, first aid and relief efforts of educational content of nursing cares related to educational packages of current health program.

Discussion

This study is the first integrated and academic attempt in Behvarz trainers' educational needs assessment.

The results of this study showed that 21 educational priorities general and 17 professional priorities are essential for Behvarz trainers. Obtained priorities are guidance for appropriate training and improving qualitative level of teachers and consequently Behvarz.

Based on the findings, since Behvarz provide various health services and works in several but related areas; the teacher in Behvarz training centers is responsible for guiding and monitoring, therefore he should have skill and prudence in related works according to his field and specialty.

Several studies were available on educational needs assessment about other target groups such as other healthcare providers, health system experts; general practitioners, university professors, teachers, etc., but as target group of this study was different the results of those studies were not able to satisfy this specific group educational needs (4-12)

Teaching in Behvarz training centers is a specialized, multidimensional job with numerous job descriptions; playing such a role requires extensive knowledge in various fields. The findings of this study and other studies (13-16)also represent that understanding different methods of evaluating the educational programs, curricula, teaching methods, communicating with others, and professional ethics will result in increasing the efficiency of training.

The findings of other studies (16, 17) also emphasized on the role of teachers knowledge of the principles of management (network system management area). Knowledge of management principles can also save time and resources, provide proper and on time implementation of health services, and prevent parallel work and confusion.

In research method area, the results of this study like other studies (13, 14, 17) emphasized that teaching research method increase scientific competence of teachers in participating in quantitative and qualitative field studies and develop research-based education in Behvarz training centers and health system.

In personal development area, other studies (14, 17, 19) also indicated that Knowledge of the basics of information and communications technology (personal development area) is one of the basic requirements. With the expanding science and increasing importance of the Internet and computer, Behvarz trainers cannot play the role of teaching properly without proficiency and knowledge of computer and its related programs. Although those studies that have been conducted on faculty members' needs assessment indicated the importance of English learning, the experts considered English language proficiency for Behvarz trainers as a non-priority.

Like other studies (14,18,19) it can be

expressed that full knowledge of the

Table 2. Percentage of participant's agreement in Delphi and ranking of teachers' educational needs	
in Behvarz education centres.	

	structors		didwifery instructors	mofessional			cares	health		Educational iss	ues
Nursing instructors			didwifery	Health F nstructors		Prevention liseases nstructors		⁷ amily nstructors		Educational issues	
Agreement percentage	Necessity	Agreement percentage	Necessity	Agreement percentage	Necessity	Agreement percentage	Necessity	Agreement percentage	necess ity	1- Teaching area	
100	1	100	1	100	1	100	1	100	1	Curriculum	1
100	1	100	1	100	1	100	1	100	1	Evaluation methods of educational programs	2
100	1	100	1	100	1	100	1	100	1	Internship education	3
90	4	90	4	90	4	90	4	90	4	Developing educational purposes	4
90	4	90	4	90	4	90	4	90	4	Communicati ng with students	5
88	6	88	5	88	6	88	6	88	6	Professional ethics of health system staff	6
83	7	83	7	83	7	83	7	83	7	Adults' education methods	7
83	7	83	7	83	7	83	7	83	7	Education in practical work room	8
82	8	82	8	82	8	82	8	82	8	Teaching methods, techniques and skills	9
80	9	80	8	80	9	80	9	80	9	Education and learning psychology	10
80	9	80	8	80	9	80	9	80	9	Communicati ng with people	11
79	10	79	9	79	10	79	10	79	10	Evaluation methods of knowledge, attitude, skill and performance of students	12
75	12	75	11	75	12	75	12	75	12	Designing educational workshops	13
75	12	75	11	75	12	75	12	75	12	Gain public support for health promotion	14
75	12	75	1	75	12	75	12	75	12	Methods of increasing students' motivation	15

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67	15	67	14	67	15	67	15	67	15	Educational needs	16
07	15	07	14	07	15	07	15	07	15	assessment of students	10
60	16	60	15	60	16	60	16	60	16	Educational technology Educational	17
50	20	50	19	50	20	50	20	50	20	design Exams	18
50	20	50	19	50	20	50	20	50	20	analysis methods	19
				The area	of network sy	ystem manage	ement				
91	3	91	3	91	3	91	3	91	3	Behvarz education center management	1
88	6	88	5	88	6	88	6	88	6	Process documentatio n and quality promotion	2
78	11	78	10	78	11	78	11	78	11	Health center management	3
71	13	71	12	71	13	71	13	71	13	Management and leadership foundations	4
57	17	57	16	57	17	57	17	57	17	Customer orientation	5
57	18	57	17	57	18	57	18	57	18	Operational and strategic planning	6
50	20	50	19	50	20	50	20	50	20	Educational management	7
					Research me	thod area					
75	12	75	11	75	12	75	12	75	12	Research methods in health system	1
70	14	70	13	70	14	70	14	70	14	Research methods in education	2
51	19	51	18	51	19	75	19	51	19	Statistics and information system	3
50	20	50	19	50	20	50	20	50	20	Report writing methods	4
		I	Personal devel	lopment skills	s/ information	and commu	nication techn	ology area			
92	2	92	2	92	2	92	2	92	2	Microsoft Office Word	1
92	2	92	2	92	2	92	2	92	2	Internet	2
91	3	91	3	91	3	91	3	91	3	Software programs existing in network	3
88	6	88	5	88	6	88	6	88	6	Introduction to electronic information resources in health area	4
82	8	82	7	82	8	82	8	82	8	Microsoft Excel	5
82	8	82	7	82	8	82	8	82	8	Microsoft Power Point	6
50	20	50	19	50	20	50	20	50	20	Introduction to search methods and strategies in	7

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										health area	
						Educationa	l packages o	f current he	alth program	n	
							Family h	ealth			
								90	4	Individual health education for family	1
	90	4	_					89	5	members Nutrition	1 2
	70							89	5	Children health	3
								89	5	Young and adolescent health and schools	
								89	5	health	4
								89	5	Middle-aged health Elderly health	8
_						Disea	ases' prevent	ion and care	es		0
						89	5				
						89	5			Infectious diseases	1
										Immunization	2
						89	5			Mental health	3
						89	5				
						89	5			Epidemiology	4
										Accidents	5
						80	9			Non-infectious diseases	6
						Envi	ronment and	work healt	h		
			8								
			9							Public environment health Health environmental risks management	1
			9								2
			ç							Healthy life style	3
			8							Professional health	4
							Midy	wifery			
	_										
	90	4	-							Fertility/Reproduction health	1
	90	4					Nursing	cares		Midwifery	2
90 4			8	2			Tursing			Symptomatic simple treatments	1
90 4	80	8		,) 9		80	9	80	9	First aid	2
90 4										Injections	3
89 5										Anatomy and physiology of the human body	4
89 5	60	15	6		6	60	16	60	16	Relief efforts	5
89 5										Dressing	6
89 5										Social nursing of mental health	7
89 5										Crisis and disaster management	8
80 9										Nursing	9
1 78 1 1										Physical examinations	10
75 2										Pharmacology	11
75 2										Rehabilitation education based on society	12

The area of educ					Individual	Research	Network system	Teaching	area
Nursing instructors	Midwifery instructors	Environ ment health instructo rs	Diseases instructors	Family health instructors	developme nt/ informatio n and communic ation technology	method	management		
Crisis and disaster management 1	Nutrition 1	Professi onal health 1	Epidemiology 1	Middle aged health 1	Word 1	Research methods in health system 1	Behvarz center management 1	Curricula 1	Educational issue
Mental health social nursing 1	Reproducti ve health 1	Public environ ment health 1	Infectious diseases 1	Young, adolescents and schools health 1	Using software programs existing in the	Research methods in education 2	Educational management 2	Evaluation methods of curriculum 1	
First aids 2	Midwifery 2	Health environ mental risks manage ment 2	Mental health 2	Children health 2	network 1 Excel 2		Operational and strategic planning 2	Traineeship education 1	
Physical examinations 3			Non- infectious diseases 2	Elderly health 2	PowerPoin t 2			Teaching methods, techniques and skills 2	
Pharmacolog y 4			Immunization 3	Nutrition 3				Developing educational objectives 2	
Nursing 4			Accidents and incidents 3	Individual health education of family members 3				Communicati ng with students 2	
Relief efforts 5				memoers 5				Adults education methods 6	
Symptomatic simple treatments 5								Evaluation methods of students' knowledge, attitude, skill and performance 6	
Dressing 6								Tests analysis methods 7	
Society- based rehabilitation education 6								Professional morality of health system staff 7	
Human body anatomy and physiology 7								Educational workshops holding design 7	
Injections 7								Communicati ng with people 8 Healthy lifestyle 2	

Table 3. Skill areas of teachers of Behvarz centers with priority

principles of family health education and ability to transfer this knowledge to health providers increase health and public awareness in the most deprived areas of the country.

The studies on needs assessment of health care providers (18, 19) indicated a priority of health providers' education on diseases and

mental health, which was also confirmed in our study

An overview of the educational topics of issues in environment and professional health teachers reflects the fact that some environment and professional health in deprived areas is neglected and the findings of this study and other studies (18, 19) emphasized on inclusion of educational content of environment and professional health for related teachers and its impact on the culture.

Findings of this study showed that nutrition, reproductive health and midwifery were the most important issues that midwifery teacher should be regularly updated upon.

Since many rural areas are covered by Behvarz lack the most basic medical facilities and in the event of accidents, Behvarz are the only available health care professional, therefore this study and other studies (13, 18, 19) have emphasized on the nursing education priorities such as crisis management, social care and mental health) for nursing teachers who teaches Behvarz.

The findings indicated that continuous education of teachers based on the needs assessment, can lead to improve the quality of graduates, the Behvar.

At a low cost, with careful planning, proper design of health system, practical education, monitoring and appropriate feedback and timely review of the program, important achievement in education system of Behvarz can be gained.

Acknowledgements

I should sincerely thank all professors and experts of health providing, health vicepresidency of Ministry of Health, experts and health teachers of medical universities in the country who participated and accompanied in this study.

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