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A field research for the determination the influence of physicians' professionalism understanding on medical errors attitude

Hekimlerin profesyonalizm anlayışının tıbbi hata tutumu üzerine etkisinin belirlenmesine yönelik alan araştırması

E.Nisa Yayla¹, Naim Karagöz²

Department of Management of Health Institutions, Social Sciences Vocational College, Kayseri University, Kayseri, Turkey Medical Education Department, Department of Basic Medical Sciences, Faculty of Medicine, Sivas Cumhuriyet University, Sivas, Turkey Corresponding author: Elif Nisa Yayla, Department of Management of Health Institutions, Social Sciences Vocational College, Kayseri University, Kayseri, Turkey E-mail: elifnisayayla@kayseri.edu.tr

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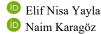
SUMMARY

Objective: To determine the influence of hospital-based physicians' attitudes toward medical errors on professionalism understanding

Method: The research was carried out in a descriptive, cross-sectional, and interrogative design. The study was carried out at the Cumhuriyet University Hospital with 182 physicians. A survey form was used to collect data. The Cronbach alpha coefficient was calculated to be .809.

Results: It was found that physicians' attitudes toward professionalism $(\bar{x} = 3.72)$ and their attitudes towards medical errors $(\bar{x} = 3.46)$ were positive. A positive correlation of 20.8% was found between the Professional Process sub-dimension and the Medical Error Perception subdimension. In the sub-dimension of professionalism, the score of the group of 41-50 age group was 21.52, while the score of the age group of 60 years and over was 25,40 (p <0,05).

Conclusions: It has emerged that the physician's understanding of professionalism is not effective on attitudes in medical errors. Keywords: Professionalism, malpractice, medical error



ORCID IDs of the authors: E.N.Y. 0000-0002-4343-0954 N.K. 0000-0002-6456-1128

ÖZET

Amaç: Hastanede çalışan hekimlerin profesyonalizm anlayışlarının tıbbi hatalarda tutum üzerine etkisinin belirlemesidir. Materyal ve Metod: Tanımlayıcı, kesitsel ve ilişki arayıcı olarak tasarlanan bu araştırma, 12-24 Şubat tarihleri arasında Cumhuriyet Üniversitesi Sağlık Hizmetleri Uygulama ve Araştırma Hastanesinde evrenin %52.44'ünü oluşturan 182 hekimin örnekleme dahil edilmesi ile gerçekleştirilmiştir. Çalışmada ölçeğin Cronbach alpha katsayısı .809 olarak hesaplanmıştır.

Bulgular: Hekimlerin profesyonalizm anlayışlarının ($\bar{x=3,72}$) ve tıbbi hatalarda tutumlarınının olumlu ($\bar{x=3,46}$) olduğu ortaya çıkmıştır. Profesyonelleşme Süreci alt boyutu ile Tıbbi Hata Algısı alt boyutu arasında pozitif yönlü korelasyon bulunmuştur. Profesyonalizm alt boyutunda 41-50 yaş grubundakilerin puan ortalaması 21,52 iken 60 yaş üstü yaş grubunun puan ortalaması 25,40 olarak saptanmıştır (p<0,05).

Sonuç: Hekimlerin profesyonalizm anlayışlarının tıbbi hatalarda tutum üzerinde etkili olmadığı ortaya çıkmıştır. Anahtar sözcükler: Profesyonalizm, tıbbi hata, malpraktis

INTRODUCTION

Ethical and inappropriate conduct of a healthcare professional. In case of insufficient and negligent behavior in professional practice, the patient's damage is called a medical error. In medical error, the patient is either impaired by incorrect application or by neglecting the side effect.

As a result of increase in the number of applications to health institutions with Increase in the world population, development of technology, globalization, to make many transactions in health care services together and to be closely connected with each other, interference by unethical market forces, bioterrorism problems, some problems created in patient safety. One in every 10 patients hospitalized in the world is damaged by medical errors while at least 50% of them are preventable. It is estimated that the cost of permanent disability, psychological depression, decrease in professional performance, drop out, additional hospitalization, costs of litigation, hospital-acquired infections and loss of income are estimated to reach one billion dollars per year. The loss of dignity and reliability of the system and health services is added to all this.¹

Professionalism; is an ideology that has a standard of the method, attitude, responsibility, point of view, autonomy and ethics in professional occupations and committed to developing them.^{2,3,4} Medical Professionalism is umbrella that medical, educational and sociological aspects ethics, leader, educator, such as other competencies.⁵ It was determined that Students of medical faculty who tend to humanity was a deviation in these behaviors in the following years.⁶ Medical professionalism was not officially mentioned in Tomorrow's Doctors (1993) report, but content reflecting medical professionalism fall within in this report. Which is a guide to physician candidates, the behaviors that physicians should comply with and avoid is listed in the revised report (2002). Professionalism was directly mentioned in the report 2006.⁷ Metallization of health with globalization has lead physicians think that they are not different from other professions. This raises the question of whether the understanding of professionalism of physicians may affect their attitudes in medical errors.

MATERIAL AND METHODS

The population of this cross-sectional study consisted of 347 physicians (N = 347) working actively in Cumhuriyet University Health Services Practice and Research Hospital, which is a tertiary health institution providing clinical and polyclinic services between February 12-24. Based on the Acceptable Minimum Sample Size Table for the Different Population by Gürbüz and Şahin, 182 people were collected from 52.44% of the population.⁸

Data were collected by a data collection tool consisting of two parts. These are the "Professionalism Scale" and the "Attitude Scale for Medical Errors."^{9,10} The information about the scales is given below. All of the scales are 5-point Likert type scales. Scoring is as follows: (1) Strongly agree (2) Agree (3) Undecided (4) Disagree (5) Strongly disagree. Before the data collection tools were applied, Ethics Committee Approval was obtained from the Ethics Committee of Cumhuriyet University.

RESULTS

Of the 317 employees participated in the study, it's detected that 51.64% of the physicians participating in the research was in the 24-30 age group, 61.53% was married, 60.98% was male, 53.84% had 1-5 years of professional work, 81.86% had chosen the profession consciously.

		Professionalism								Medical Error Attitude			
	n	Professional Information	Professional Association	Professional Ethics	Vocational Socialization	Professional Domination	Professionalism	Professional Process	Professional Closure	Medical Error Perception	Approach to Medical Error	Causes of Medical Error	
Age groups				L	L	I		1	I	1	1	1	
24-30	94	49,19	9,79	18,26	10,00	72,98	22,71	14,59	6,33	5,85	23,78	25,24	
31-40	41	49,33	10,89	18,05	9,67	74,05	23,72	13,43	6,54	5,89	24,91	26,21	
41-50	28	49,72	10,00	17,36	10,32	71,6	21,52	14,33	6,16	5,88	23,96	26,52	
51-60	8	51,14	11,42	18,57	10,85	77,42	24,14	14,14	6,85	4,85	24,85	26,85	
60+	11	53,50	10,60	19,20	11,10	77,9	25,4	14,00	5,70	4,90	23,20	24,20	
Result		p=0,049 f=9,54	p=0,109	p=0,280	p=0,249	p=0,307	p=0,034 f=10,38	P=0,457	P=0,558	p=0,373	p=0,256	p=0,083	
		p=0,035 f=10,31								p=0,111			
Gender				1	1		1						
Female	71	49,18	10,24	18,13	9,93	73,77	23,42	14,49	6,60	5,88	23,42	25,19	
Male	111	49,90	10,15	18,12	10,11	73,23	22,65	14,03	6,15	5,68	24,51	25,98	
Result		p=0,446	p=0,653	p=0,840	p=0,463	p=0,851	p=0,237	p=0,292	p=0,072	p=0,747	p=0,072	p=0,114	
		p=0,889									p=0,060		
Marital status													
Married	112	50,29	10,14	18,08	10,06	73,03	22,88	14,13	6,34	5,71	24,29	25,75	
Single	70	48.63	10,33	18,16	10,00	74.13	23,08	14,41	6,30	5,83	23.73	25,55	
Result	,.	p=0,144	p=0,639	p=0,966	p=0,698	p=0,568	p=0,964	p=0,624	p=0,783	p=0,833	p=0,399	p=0,830	
		p=0,923									p=0,677		
Title													
Prof.	22	52,00	10,85	18,80	10,90	76,57	24,42	14,52	6,19	5,14	23,71	25,42	
Assoc. Prof.	17	49,58	9,33	17,16	10,25	71,08	21,91	13,90	5,45	6,16	23,33	27,58	
Asts. Prof.	20	50,18	11,00	17,81	10,06	74,37	22,06	14,31	6,81	5,56	25,06	26,00	
Specialist	3	50,00	11,80	18,80	10,60	80,20	25,60	14,80	6,80	6,60	22,80	26,40	
R. A. Dr.	120	49,12	9,97	18,14	9,87	72,75	22,84	14,16	6,37	5,83	24,14	25,41	
		p=0,190852	p=0,143194	p=0,336729	p=0,346365	p=0,12919	p=0,141231	p=0,956934	p=0,135894	p=0,350173	p=0,486048	p=0,172312	
Result		p=0,008 f=13,90									p=0,604		

Table 1: Distribution of the mean scores obtained from the professionalism scale and the attitude scale for medical errors
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		Medical Error Perception	Approach to Medical Error	Causes of Medical Error	TOTAL MEDICAL ERROR
Professional Information	Correlation Coefficient	-0,094	0,016	0,003	0,000
	Sig. (2-tailed)	0,236	0,837	0,972	0,998
	N	182	182	182	182
Professional Association	Correlation Coefficient	-0,059	0,026	-0,014	-0,023
	Sig. (2-tailed)	0,458	0,747	0,859	0,768
	N	182	182	182	182
Professional Ethics	Correlation Coefficient	-0,001	0,153	0,049	0,107
	Sig. (2-tailed)	0,990	0,052	0,532	0,175
	N	182	182	182	182
Vocational Socialization	Correlation Coefficient	-0,042	-0,094	0,065	-0,018
	Sig. (2-tailed)	0,596	0,235	0,411	0,821
	N	182	182	182	182
Professional Domination	Correlation Coefficient	-0,099	0,064	0,039	0,026
	Sig. (2-tailed)	0,212	0,419	0,625	0,746
	N	182	182	182	182
Professionalism	Correlation Coefficient	-0,146	-0,060	-0,035	-0,085
	Sig. (2-tailed)	0,063	0,447	0,655	0,283
	N	182	182	182	182
Professional Process	Correlation Coefficient	,208**	-0,123	-0,027	-0,059
	Sig. (2-tailed)	0,008	0,121	0,737	0,460
	N	181	181	181	181
Professional Closure	Correlation Coefficient	-0,105	0,018	0,056	0,016
	Sig. (2-tailed)	0,185	0,823	0,483	0,841
	N	181	181	181	181
TOTAL PROFESSIOANALISM	Correlation Coefficient	-0,098	0,046	0,042	0,012
	Sig. (2-tailed)	0,221	0,565	0,600	0,882
	N	179	179	179	179

Table 2: Correlations between Professionalism Scale and the Attitude Scale for Medical Errors Variables

It was determined that physicians' attitudes toward professionalism ($\bar{x} = 3.72$) and their attitudes towards medical errors ($\bar{x} = 3.46$) were positive.

A positive correlation of 20.8% was found between the Professional Process sub-dimension and the Medical Error Perception sub-dimension.

According to the gender of the participants, there was no statistically significant difference according to marital status, titles, gender in terms of Professionalism and Attitude in Medical Errors (p > 0.05).

In the Professional Knowledge subscale, the sum of scores for the 24-30 age group was 49.19, while the score for the age group of 60 years and over was 53.50 (p <0.05). In the sub-dimension of professionalism, the score of the group of 41-50 age group was 21.52, while the score of the age group of 60 years and over was 25,40 (p <0.05).

It has emerged that the physician's understanding of professionalism is not effective on attitudes in medical errors.

CONCLUSION

Professionalization consists of three main process periods as professionalization, proletarianization, and corporatization. If we consider the events like physicians, access to non-proficient easy demonstration of financial interests, and is represented with a bad image in the media and deprofessionalization process, which is considered a decline in the professionalization process, it was determined that 14.8% of the physicians said "I completely agree", 32.7% said "I agree", 28.4% said "I am indecisive" to the statement "My profession has lost its professional status". According to this finding, nearly 47% of physicians think that their professional status decreased. However, in this respect, it should not be ignored that all professions have faced loss of prestige and status.

In light of the findings, it is possible to argue that the attitudes of the physicians who participated in the study were positive in medical errors. When similar studies conducted on the same subject in the literature were evaluated, it was determined that although Madigosky (2006) reported parallel results, Güleç (2012) reported opposite results. In the study that was conducted by West et al. (2006), they detected a relation between medical error perception, burnout, empathy, anxiety, and stress; and Shanafelt (2010) reported that there was no relationship between gender and medical error perception.^{10,11,12,13} To the statement "Medical errors are caused by system deficiencies," a total of 7.4% of the physicians said "I completely agree," 48.1% said "I agree," 34.0% said "I am indecisive." As a matter of fact, Özata and Altunkan (2010), Adems and Garber (2007), Özdilek (2006), Yıldırım et al. (2009) and Saygın (2014) reported results that support the findings of our study.^{14,15, 16, 17, 18}

А relation was found between the Professionalization Process and Medical Error Perception. In the deprofessionalization process, which is also defined as the decline period, loss of beliefs in expectations and authority on the services of the professionals, loss of expectations and authority, breakdown in the monopoly of knowledge, working under organizations as paid employees responding to an employer instead of individual work may have affected the medical error perception.

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