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Assessing Healthcare Ethics and Law among Egyptian Physicians at Educational and Non-Educational Hospitals

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Abstract: Medical ethics is a system of moral principles that apply values and judgments to the practice of clinical medicine. This cross-sectional study was conducted to assess the knowledge, perceptions and practices towards healthcare ethics and law among physicians in educational and non-educational hospitals at Zagazig, governorate, Egypt. A self-administered structured questionnaire was used to assess knowledge, perceptions and a checklist for doctor-Patient interaction. The study included 792 physicians having different grades and specialists. Physicians working in the Educational hospitals received more medical training (P<0.001), knew about the Helsinki declaration (P<0.05), mentioned the principles of healthcare ethics (P<0.05), are more familiar with the informed consent process (P<0.001) and are interested in knowing more about healthcare ethics (37.5%) than those working in Non-educational hospitals. In the final regression model, only two measures were statistically significant, total knowledge score and total attitude score, R square = 0.21, meaning that they explained 21.0% of variance in total practice score with the total attitude score recording a higher beta value (beta = 0.37, p < .001) than the total knowledge score (beta = 0.17, p = 0.025). By comparing the total satisfactory knowledge and practice scores, it was found that the percentage of physicians working in educational hospitals have significantly higher scores than those working in the Non-educational hospitals (P<0.001). The study revealed a gap between current knowledge of healthcare ethics among health-care workers and that demanded by hospital implementation policies.

Keywords: Health care ethics, KAP, Curriculum, Training programs, Physicians

1. Introduction

Medical ethics is the moralities of proper professional conduct concerning the rights and duties of the physician, patients, and fellow practitioners. In addition, physician's actions in the care of patients and their families.¹

Ethics is as the science of morals and rules of conduct, recognized in human life. With spectacular advances in Medical Sciences, many ethical issues related to healthcare have risen, which needs to deal with extreme sensitivity and professionalism in line with various codes of Medical Ethics. However, despite all codes and regulations, there has been growing public concern regarding the ethical conduct of healthcare professionals and reports of unethical behavior by medical students and doctors with patients and colleagues are not common.²

Patient's rights defined as fundamental claims of patients, as expressed in statutes, declarations, or generally accepted moral principles. In all over the world, promoting patient's rights is the priority of healthcare policy makers and health care providers. The Accreditation Boards laying standards for health care organizations have given the standard for practice of patient right, which demand that the patient must be informed about the disease, possible outcomes and also should be involved in decision making.

Compliance with patients' rights is one of the most important components of providing humanistic and moral care. Without the knowledge of ethical concepts and its related subjects including "patient rights", health care staff cannot face the challenges ahead and will not be able to meet the needs originated from demographic and technological changes of the twenty first century.

Thus, the principle of informed consent introduced in medical ethics mainly to protect individuals against possible harm. As it established an obligation of respect for the patient's self-determination, it counter-acted paternalism.⁷ The most recently published AMA Code of Medical Ethics highlighted that, the quantity and specificity of the information provided should follow the inclinations, needs and understanding of the patient.⁸

In LMICs (Low and Middle Income Countries) such as Egypt, healthcare ethics must more ensure in clinical practice. Lastly, Egypt has implemented some diverse legal, political and organizational mechanisms to handle health care ethical problems. Despite major achievements, several problems persist, including unethical behavior of health care workers, inequity, and poor patient realization of self-empowerment.

Low ethical, moral standards and communication gap between doctors and patients are also responsible for problems in the health care system. To remedy this gap, the proposed study is an attempt to elucidate the knowledge, attitudes and practices among resident doctors in relation to health care ethics in Egypt.

2. Material and Methods

Study design and sample

A cross-sectional study conducted among 180 health-care personnel out of 792 physicians having different grades and specialists. The sample size was calculated using the *Statcalc* module of the *Epi-Info* program, version 6, with expected frequency of satisfactory KAP score 30% +/- 5% at alpha error = 0.05 and power of the test = 80%. In order to find the association between type of hospital at Zagazig University including educational hospitals (Zagazig University hospitals) and non-educational hospitals (Zagazig-General and Ahrar hospital) and satisfactory KAP scores. The sample adjusted according to the proportion of

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health-care providers inside the study departments; a proportional weighted sample taken as follows 120 physician from educational hospital and 60 from noneducational hospitals. Surgical and medical departments included Internal medicine, general surgery, Obstetrics and Gynecology, Ophthalmology and Otorhinolaryngology chosen in relation to the frequency of operations for proper assessment. The study included both males and females. Inclusion criteria were physicians working in the chosen departments for at least six months assimilated with the hospital processes and system with no managerial role. Assistant lecturers or physician who took master degree, residents and residents visitors that are considered as junior physicians and the rest falling in the category of consultant physicians in the selected hospitals. These hospitals served patients came from both urban and rural areas in Sharkia government and admitted for invasive procedure. The study period was from July 2015-August 2016.

Data collection and Study tools

A pre-designed questionnaire included items about the occupational background of participants (department, job title, lifetime duration of work experience and history of medical training). The questions related to KAP included 48 items. The authors developed these items after reviewing similar published articles. ¹⁰For knowledge, 27 items were included, e.g. ethics oath and ethics committee (3 items), ethics committee role (5 items), principles of healthcare ethics (4 items), main purposes of consent (9 items), familiarity with the informed consent process, with holding truth and respecting confidentiality (5 items).

Attitudes were assessed using 5 questions, e.g. are you interested in knowing more about healthcare ethics, I usually keep patients privacy, close relatives must know about a patient's condition, confidential information can only be disclosed if the patient gives explicit consent or if expressly provided for in the law, confidentiality cannot be applied in modern care and should be abandoned.

An observation checklist assessed how far the physicians adhered to specified principles of medical ethics: informed consent, privacy, confidentiality and collaboration of patients in the process of decision-making for treatment. Practices evaluated using 16 items; informing patient's rights, informing possible consequences of treatment, informing medical condition and treatment procedures, answer patient's questions. Provide information on risks and possible complications of treatment, informing length of hospital stay, ensured privacy during examination, follow guidelines in practice, complied with the rules of confidentiality, gaining more knowledge for healthcare ethics and law making seven items.

The questionnaire developed in Arabic using simple local language and tested in a pilot study with 20 persons of different job titles. The reliability of the questionnaire assessed by applying reliability test using Cronbach alpha (0.73).

Scoring

The KAP scores were calculated as follows: satisfactory knowledge was score 2 for yes and 1 for no making a total of 54 points; satisfactory attitude was scored into five levels (score 1: strongly disagree 2: disagree 3: uncertain 4: agree 5: strongly agree) considering reversed answers. A total score calculated whereas, correct agreement recorded five points and the incorrect zero, counting a total of 25 points; satisfactory practice scored 2 points for yes and 1 for no totaled 32 points. The total knowledge, perception and compliance score calculated as a percentage of the maximum possible score.

Data processing and analysis

Collected data recorded and analyzed using SPSS (Statistical Package for the Social Sciences) version 22.0 and Epi info for windows version 3.5.3. A summary of data done where frequencies, percentages and Chi square used for qualitative data while for quantitative data, mean and standard deviations (SD), t-test and ANOVA were calculated. P <0.05 was considered statistically significant. The significance of the results judged at the 5% level of significance.

Ethical consideration

Approval from selected departments research review board and central hospital administration obtained to conduct the study. An oral consent gotten from participants after explaining the study objectives and assuring data confidentiality. To preserve confidentiality the questionnaire was anonymous and data kept confidential in a file that accessed only by the authors.

3. Results

The study included792 physicians having different grades and specialists. More than half are males, residents, in the age category from 21-30 years. Although physicians working in Non-educational hospitals 53.3% are having more years of experience from 6-10 years compared to 30% of those working in the Educational hospitals yet 50% received medical training compared to 18.3% only of the physicians working in the Non-educational hospitals (P<0.001)(**Table 1**). The majority acknowledged the presence of an ethics committee in the faculty. Only a few of them stated that they approached the committee for advice.

Knowledge items

In concern to the Ethics oath and ethics committee, more than half of the physicians working in educational and Non-educational hospitals knew about the Hippocratic declaration. Only a significant low percent of those working in Educational hospitals stating that they knew about the Helsinki declaration (10.8%) (P<0.05). Physicians have more knowledge about most of the items related to the Ethics committee role. Concerning their knowledge about some items in the informed consent a significant percent of the Non-educational category are more knowledgeable (P<0.001). Whereas, a significant percent of the other category are more familiar with the informed consent process (62.2%) (P<0.001) and with most of the items in concern to

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withholding truth and respecting confidentiality (P < 0.05) (**Table 2**).

Attitude items

As regard, Physicians' perceptions towards healthcare ethics and consultation of ethical problems. A significant percentage of physicians working in Educational hospitals are interested in knowing more about healthcare ethics (37.5%). Mostly agreed that confidential information can only be disclosed if the patient gives explicit consent or if expressly provided for in the law (89.1%), and confidentiality cannot be applied in modern care and should be abandoned (46.2%) (P<0.001). Whereas, a higher significant percent of physicians working in Noneducational hospitals agreed that they must usually keep patients privacy. However, fewer physicians agreed to tell close relatives about a patient's condition (**Table 3**).

Practice items

Physicians' observed compliance to ethical practices during physician—patient interactions and their source of knowledge about health care Ethics and law are shown in table 4. In practice, patients sign the treatment consent at the hospital reception, possibly signed by relatives, obtained by junior doctor but unfortunately, most of the physicians knew that patients not allowed receiving a copy of signed consent (**Table 4**).

Total scores

By comparing the total satisfactory knowledge and practice scores, it was found that the percentage of physicians working in educational hospitals have significantly higher scores than those working in the Non-educational hospitals and was significant better in ophthalmology & ENT departments than others(P< 0.001) (**Table 5& 6**).

Multiple regression

Hierarchical multiple regression was used to assess the ability of two control measures (total knowledge score and total attitude score) to predict levels of total practice score , after controlling for the influence of age, gender, specialty and grouping variable as educational or non-educational hospital. In the final model, only two measures were statistically significant, total knowledge score and total attitude score, R square = 0.21, meaning that they explained 21.0% of variance in total practice score with the total attitude score recording a higher beta value (beta = 0.37, p < .001) than the total knowledge score (beta = 0.17, p = 0.025) (Table 7).

4. Discussion

In order to formulate an effective ethics curriculum for health care workers, the first step is to elucidate their current basic knowledge, perceptions and practices related to healthcare ethics and consultation of ethical problems. To identify the gaps between the current KAP among the health-care workers involved in healthcare ethics and the future desired state.

Ethics committees are the most prominent formal institutional mechanism for considering and resolving ethical dilemmas in medicine. In clinical practice,

Healthcare ethics needs more attention especially in LMICs such as Egypt. The present study and **Mohamed et al.**, **2012**¹¹ indicated that the majority of physicians acknowledged the presence of an ethics committee in their faculty. Despite this, only a few of them stated that they approached the committee for advice.

The fact that the majority of the participants had no knowledge regarding the Nuremberg Code and or the Helsinki Declaration indicates that there is very little knowledge regarding the ethics of research. Similarly **Hariharan et al., 2006**¹⁰ detected the same findings in their research. The development of universal ethical and legal standards, including the Nuremberg Code, the Declaration Helsinki, and the Universal Declaration on Bioethics and Human Rights of UNESCO, seeks to limit and control the improper use of science and associated technologies and to promote and protect fundamental human rights. ¹²

The findings of the present study clearly show the difference in the knowledge and practices between physicians working in Educational and Non-educational hospitals regarding the medical ethics and law. Obviously, they contact patients more frequently having an opportunity to gain hands on learning experience without adequate knowledge. Several previous studies have assessed the knowledge, attitudes, and practices of faculty staff members at their institutions in Egypt and Saudi Arabia. The results demonstrated that most of the educational programs in research ethics lacked training in practice (Kandeel et al., 2008)¹³ and (Silverman et al., 2013).¹⁴

It is interesting to note that if physicians feel that their main source of knowledge of health care ethics is during experience at work, job experience should tailored to reinforce ethical knowledge and practice. Similarly **Abdelhai et al., 2014**¹⁵ revealed improvement in knowledge and skills of trainee's postgraduate students as an effects of training course over a period of 3 weeks with pre/post assessment. That is why Integration of such course within the public health postgraduate curriculum is required as it provides prospects of capacity building among academic and research staff. In developing countries, training in medical research ethics is available on a limited scope. ¹⁶

From another viewpoint, the attitude of doctors in general blamed as well. A materialistic mindset, low ethical and moral standards and communication gap between doctors and patients are also responsible for problems in the health care system. ¹⁵In the present study, differences in opinions & misperceptions observed which probably reflects different levels of training and experience among respondents.

The present study revealed that physicians were more compliant with the role of the ethics committee. In contrast, **Tahira et al., 2013**¹⁷ in their study reported that most of the physicians had poor knowledge regarding autonomy. However, **McGuire et al 2005**¹⁸have reported that physicians had a consistently positive attitude towards patient's autonomy in their study.

Concerning physicians' knowledge about the main purpose and process of the informed consent. In agreement another

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study done to assess Knowledge, practice and perception towards the informed consent process among physicians and patients at Cairo University Hospitals.¹⁹

Confidentiality is among the core issues of doctor patient relationship. The present study and **Hariharan et al, 2007**¹⁰ reported that most of the respondents agreed that confidentiality and patient privacy to be important and few were in favor of informing relatives about patient's condition.¹⁷

This result suggests that medical ethics education in this study strengthened in topics where knowledge levels were low. Medical education should also address changing attitudes and perceptions of residents. Previous research suggested that positive attitudes of residents toward ethics preparation improved beneficial outcomes of educational innovations. ²⁰Such findings support the belief that assessing trainees' attitudes, views and preferences is important in developing curricular approaches attuned to their concerns and experiences. ²¹

The implementation of the informed consent process differs markedly in-between countries and among different medical specialties. Although, it is as a standard procedure in developed countries for providing the patients with information about diagnostic and treatment procedures, benefits, risks and alternatives of treatment, it often fails to meet its goal in many developing countries.²²

In the current study, more physicians correctly knew that patients not allowed receiving a copy of the signed consent form. In contrast, Jukic et al. 201123 found that a significantly higher percent of physicians (P<0.001) incorrectly knew that patients receive a copy of the signed informed consent. Ashraf et al., 2014²⁴ stated that the signed consent form should be obtained by the patient's physician after discussing all the required information. In this study, a significantly higher percent of physicians (P<0.001) thought that they should be responsible for obtaining the signed informed consent from their patients. However, in another study conducted in South Croatia to evaluate the differences in knowledge and attitudes of physicians and patients regarding the informed consent process, the majority of the of physicians were prone to delegate such process to other members of medical stuff like their colleagues, nurses or administrative personnel.²³The importance of physcians to take a consent by themselves, is that it opens a dialogue between the patient and provider so that the patient can ask questions, knows what to expect during and after procedure.²⁵

In Egypt, the validity of the informed consent process in medical practice challenged by many factors like educational level and socioeconomic status of patients together with other legal and cultural factors. ¹⁹

In the regression coefficients for the total practice score regarding with different predictors, the change in both attitude score and knowledge score recording change in practice score but attitude score recorded high beta change than knowledge and this explained the importance of providing more efforts to improve the attitude of healthcare

providers like the efforts done in improving knowledge of healthcare ethics this is agreed with **Peter et al.,** (2015)²⁶ stated that assessment of junior doctors' attitudes toward medical professionalism as the first step in developing and modernizing the curriculum in medical professionalism and ethics is effective as knowledge, while in **Jukic et al.,** (2009)²³ showed no difference in knowledge and practice score between physicians working in university hospitals and those working in community hospital (P>0.05).

5. Conclusion and Recommendations

Improving the resident's awareness and knowledge about basic principles of medical ethics corresponding with improving resident's attitude towards ethics through their medical education helping to improve their practice in their work. In order to bring services into line with the expectations of patients, the tolerance level of physicians for dealing with illiterate and poor patients should be improved, through learning expression management skills.

Our findings also revealed a gap between current knowledge of healthcare ethics among health-care workers and that demanded by hospital management policies. We recommend there should be proper and intensive training programmes regarding awareness and practices of healthcare ethics for all health-care staff, with continuous monitoring at regular intervals. Moreover, research must seal existing gaps in the knowledge about healthcare ethics. The findings of this study will help to address the issue more appropriately, and inform plans for better training programmes and monitoring of the bioethics management systems in hospitals.

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7. Conflict of Interests Declaration

No

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Table 1: Socio-demographic characteristics of physicians in educational and non-educational hospital

Educ	ational	Non- ed	lucational	P-value							
No.	%	No.	%	P-value							
Age categories											
92	76.7	33	55.0	0.003*							
28	23.3	27	45.0	0.005							
Gender Male 77 64.2 38 63.3 a.a.											
77	64.2	38	63.3	0.91							
43	35.8	22	36.7	0.91							
ration	of worke	experienc	e								
80	66.7	28	46.7								
36	30.0	32	53.3	0.005*							
4	3.3	0	0.0								
	Job title										
79	65.8	38	63.3	0.74							
41	34.2	22	36.7	0.74							
Med	lical trai	ning									
60	50.0	11	18.3								
60	50.0	49	81.7	0.001*							
120	100.0	60	100.0								
	No. Ag 92 28 77 43 ration 80 36 4 79 41 Med 60 60	Age catego 92 76.7 28 23.3 Gender 77 64.2 43 35.8 ration of works 80 66.7 36 30.0 4 3.3 Job title 79 65.8 41 34.2 Medical train 60 50.0 60 50.0	No. % No. Age categories 92 76.7 33 28 23.3 27 Gender 77 64.2 38 43 35.8 22 ration of workexperience 80 66.7 28 36 30.0 32 4 3.3 0 Job title 79 65.8 38 41 34.2 22 Medical training 60 50.0 11 60 50.0 49	No. % No. % Age categories 92 76.7 33 55.0 28 23.3 27 45.0 Gender 77 64.2 38 63.3 43 35.8 22 36.7 ration of workexperience 80 66.7 28 46.7 36 30.0 32 53.3 4 3.3 0 0.0 Job title 79 65.8 38 63.3 41 34.2 22 36.7 Medical training 60 50.0 11 18.3 60 50.0 49 81.7							

^{*}Significant P value

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Table 2: Physicians' knowledge about medical ethics and informed consent

Knowledge statement		cational	Non-	P- value	
(Items correctly answered)	No.	%	No.	%	
Ethics oath and ethics committee				•	1
Hippocratic	75	62.5	35	58.3	0.75
Nuremberg code	4	3.3	0	0.0	0.30
Helsinki declaration	13	10.8	0	0.0	0.005*
Ethics committee role					•
To ensure standard ethical practices	114	95.0	60	100	0.22
To advise healthcare personnel when they encounter ethical/legal problem	105	87.5	57	95.0	0.23
To approve and guide research	190	75.0	20	33.3	0.001*
To settle conflicts between professional and patient relatives	92	76.7	60	100.0	0.001*
To teach medical ethics to students	108	90.0	22	36.7	0.001*
Principles of healthcare ethics					
Justice	93	77.5	15	25	0.001*
Autonomy	59	49.2	5	8.3	0.002*
Tenderness	32	26.7	15	25.0	0.004*
Beneficence	59	49.2	15	25.0	0.002*
Main purposes of consent					
Explain the benefits and probabilities of success for treatment	56	46.7	54	90.0	0.001*
Telling the patient the known possible side effects and risk of the treatment	103	85.8	48	80.0	0.32
Giving them information about the treatment only	22	18.3	14	23.3	0.43
Inform the patient about alternative treatment option	62	51.7	13	21.7	0.001*
Provide the doctor with greater protection against medical litigation	60	50.0	54	90.0	0.001*
Be able to understand the significance, risks and benefits of the procedures	86	72.3	5	8.3	0.003*
Make decision that the physician would choose	35	29.4	26	43.3	0.064
Age>18	82	68.9	16	26.7	0.001*
Stable ,mental state and conscious level	83	69.7	58	96.7	0.001*
Are you familiar with the informed consent process?	74	62.2	7	11.7	0.001*
Withholding truth and respecting confidentiality					
Suicidal treatment	80	67.2	53	88.3	0.002*
Refusing treatment	36	30.3	5	8.3	0.001*
Unstable personality with fatal disease	87	73.1	32	53.3	0.008*
Is personal information in patient medical record	76	63.9	12	20.0	0.001*
Considered confidential	64	53.7	11	18.3	0.001*
Total	120	100	60	100	

^{*}Significant P value

 Table 3: Physicians' perceptions towards healthcare ethics and consultation of ethical problems

Perception Domain Educational		Non-ed	P-value		
-	No.	0/0	No.	%	
	Are you intere	sted in knowing more about	t healthcare ethic	s	
Strongly agree/agree	45	37.5	7	11.7	0.001*
Not sure	61	50.9	53	88.3	
Disagree/strongly disagree	14	11.6	0	0.0	
Total	120	100	60	100	
		I usually keep patients priv	асу		
Strongly agree/agree	94	79.0	54	90	0.001*
Not sure	0	0	0	0.0	
Disagree/strongly disagree	25	21	6	10.0	
Total	119	100	60	100	
	Close rela	tives must know about patie	nt's condition		
Strongly agree/agree	18	15.1	2	3.3	0.052*
Not sure	33	27.7	14	23.3	
Disagree/strongly disagree	68	57.2	44	73.4	
Total	119	100	60	100	
Confidential information	can only be disclos	ed if the patient gives explic	it consent or if ex	pressly provide	d for in the law
Disagree/strongly disagree	106	89.1	16	26.7	0.001*
Not sure	9	7.6	1	1.6	
Strongly agree/agree	4	3.3	43	71.7	
Total	119	100	60	100	
Cor	nfidentiality cannot	be applied in modern care	and should be ab	andoned	
Strongly agree/agree	55	46.2	7	11.7	0.001*
Not sure	22	18.5	53	88.3	
Disagree/strongly disagree	42	35.3	0	0.0	

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Total	119	100	60	100	

^{*}Significant P value

Table 4: Physicians' observed compliance to ethical practices during physician-patient interactions

Compliance practice	Educationa		Non-educati		P-value
(Items correctly performed)	No.	%	No.	%	
Informing patient's rights		1 -		1	ı
Yes	38	31.9	11	18.3	0.011*
Informing possible consequences of treatment	1		<u> </u>		
Yes	100	84	47	78.4	0.21
Informing medical condition and treatment proceed	lures		· I		I
Yes	40	33.6	7	11.7	0.001*
Answer patient's questions	•	•	•	•	1
Yes	47	39.5	17	28.3	0.002*
Provide information on risks and possible complic	cations of trea	tment			•
Yes	76	63.9	32	53.3	0.001*
Informing length of hospital stay					
Yes	64	53.8	31	51.7	0.79
Ensured privacy during examination					
Yes	79	66.4	32	53.3	0.001*
Do you follow any guidelines in practice?					
Yes	49	41.2	22	36.7	0.001*
Complied with rules of confidentiality					
Yes	53	44.5	16	26.7	0.05*
How did you get your knowledge of healthcare eth	ics and law?				
Undergraduate lecture			_		
Yes	30	25.0	14	23.3	0.001*
During training	_				
Yes	54	45.0	28	46.7	0.83
Experience at work	•	1	_	1	ı
Yes	93	77.5	51	85.0	0.24
Lecture	T	T	1 .	1	T
Yes	24	20.0	4	6.7	0.02*
Own reading	1	T = = =	T -	Till	T = ===
Yes	36	30.0	6	10.0	0.003*
Others	1.20	1.65	T a	I = 0	0.024
Yes	20	16.7	3	5.0	0.03*
Religion	1.00	57.5	57	05.0	0.001\$
Yes	69	57.5	57	95.0	0.001*
Questions related to consent	.9				
Where did patient sign the treatment consent form In a clinic	10	8.4	0	0.0	0.07
At hospital reception	89	74.9	52	86.6	- 0.07
In a patient room	20	16.8	8	13.3	-
Who are the relatives possible to sign the consent?		10.0	0	13.3	1
Patient family	104	87.39	57	95.0	0.11
Patient fainify Patient friend	9	7.6	0	0.0	V.11
Colleague friend					
_	6	5.04	3	5.0	
Who obtain the informed consent?	T 21	17.6	Ιο	0.0	0.001*
Operating surgeon himself	75	17.6 63.0	7	0.0	0.001*
Junior doctor Stoff purse on duty	23		53	11.7	4
Staff nurse on duty Do patients receive a copy of signed consent form?		19.3	33	88.3	
• • • •	83	69.7	50	83.3	0.006*
No I don't Know	18	15.1	0	0.0	0.000
	18	15.1	10	16.7	-
Yes Total	119	100.0			-
10tai	119	100.0	60	100.0	1

^{*}Significant P value

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 Table 5: Knowledge, attitude and practice scores and percent among educational and non-educational hospitals:

	Groups	N	Mean	Std. Deviation	p value
Total knowledge score	Educational	118	31.5530	4.33938	0.001*
	Non-educational	60	28.8813	2.59435	0.001
Knowledge percent	Educational	118	70.1177	9.64307	0.001*
	Non-educational		64.1806	5.76521	0.001
Total practice score	Educational	115	28.5913	3.21972	0.012*
	Non-educational		27.6833	2.52104	0.012
Practice percent	Educational	115	63.5362	7.15493	0.012*
	Non-educational	60	61.5185	5.60231	0.012
Total attitude score	Educational	119	23.3529	2.26838	0.85
Non-educational		60	23.2333	1.49991	0.83
Attitude percent	Educational	119	72.9779	7.08870	0.85
	Non-educational	60	72.6042	4.68721	0.83

^{*}Significant P value

Table 6: Knowledge, attitude and practice score by specialties

			<u> </u>							
		Specialty								
	Surge	ry	obstetr	ic	Ophthalmolog	y& ENT	medicii	ne	P-value	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD		
Total knowledge score	29.30 b	3.39	29.46 b	3.52	32.58 a	3.94	31.28 ab	4.39	< 0.001*	
Total practice score	27.49 b	3.22	28.39 ab	2.30	29.36 a	2.16	27.96 ab	3.81	0.028*	
Total attitude score	22.71	2.05	23.60	2.64	23.68	1.47	23.27	1.71	0.098	

^{*}Significant P value

Groups sharing same letter are not significantly different by Anova test

Table 7: Regression Coefficients a for total practice score with different predictors

		Unstandardiz	zed Coefficients	Standardized Coefficients					
	Model	В	Std. Error	Beta	T	p value			
1	(Constant)	24.764	3.390		7.304	.000			
	Gender	.209	.514	.033	.406	.686			
	Age	.135	.115	.103	1.178	.241			
	Groups	-1.113-	.508	175-	-2.191-	.030			
	Specialty	.299	.234	.112	1.277	.203			
2	(Constant)	20.086	3.727		5.389	.000			
	Gender	.230	.505	.037	.455	.650			
	Age	.104	.113	.080	.926	.356			
	Groups	594-	.532	093-	-1.117-	.266			
	Specialty	.108	.240	.040	.450	.653			
	Total knowledge score	.174	.063	.228	2.778	.006*			
3	(Constant)	8.631	4.118		2.096	.038			
	Gender	.861	.485	.137	1.773	.078			
	Age	.083	.105	.063	.785	.433			
	Groups	580-	.496	091-	-1.171-	.243			
	Specialty	055-	.225	020-	242-	.809			
	Total knowledge score	.133	.059	.174	2.255	.025*			
	Total attitude score	.552	.107	.374	5.170	.000*			
	a	. Dependent	Variable: Total p	practice score					

 $[*]Significant\ P\ value$

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