

Screening of Alleged Medical Malpractice in Egypt (Fayoum Governorate)

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Abstract

Background and Objectives: Medical malpractice is a legal cause of action that occurs when a physician deviates from required substandard and causes deterioration, disability, harm or death to a patient. This study documented all the reported malpractice cases according to the forensic medicine authority in Fayoum Governorate in the in the course of regular and proper health service

Methods: All cases of medical malpractice claims of several medical specialties referred to the Forensic Medicine Authority, in 2012-2016 were checked (n=55).

Results: The present study shows that 87.3% of the study group were adults, and 12.7% of them were children, 50.9% of them were males and 49.1% were females, and as regards to the place of residence, 47.3% of the victims were from urban places. The study has also pointed out that the majority of malpractices occurred in general hospitals (67.3%), more than in clinics and private hospitals. The 40% of malpractice were complications of surgery, then 23.6% of them were due to negligence, then 21.8% of patients had medication errors, and the least percentage of 14.5% had forgotten gauze and the majority of malpractices occurred in obstetrics and gynaecology which represent (36.4%) of the cases.

Conclusion: It is extremely essential to analyse the errors properly in order to get the medical malpractice under control to avoid incidence of litigation and to propose professional standards as well as accurate references in connection with medico-legal procedures.

Keywords: Forensic medicine; Malpractice; Fayoum; Egypt

Introduction

Medical malpractice has been an important social issue. Physicians have complained about the large number of malpractice claims and have insisted on legal reforms to reduce compensation for damage, whereas tort attorneys have argued that negligence claims are an effective way of compensating victims of negligence and of protecting the medical profession [1]. Medical Law is witnessing a huge change; significantly our attitude towards our health, health services, and the medical professions is changing. Physicians used to be considered above reproach and held in the highest respect. Recently, however, doctors are no longer regarded as impeccable and beyond questioning [2].

Malpractice cases are used to refer to defective acts done during the process of providing healthcare services. In the words of the World Medical Organization, adopted at the 44th World Medical Assembly in 1992, medical malpractice has been looked upon as "the failure of the physician to provide the standard care for treatment of the patient's condition, a lack of skill, or negligence in providing care to the patient, which is the direct cause of harm to the patient" [3]. A person who alleges negligent medical malpractice must confirm four elements: (A) a duty of care owed by the physician, (B) the physician violated the applicable standard of care, (C) the person suffered a compensable injury, and (D) the injury was actually caused by the substandard

conduct. Adopting these elements is central for a successful medical malpractice [4].

Physicians owe an ethical duty of care to those who request their treatment. This element is scarcely an issue in a malpractice case; because once a doctor agrees to treat a patient, he has a professional duty to provide competence care. Another main issue is that the plaintiff must show actual and compensable injuries, which are originally the result of the negligent care. Proof of injury may include not only the physical effects of the treatment performed by the physician but also psychological effects [5]. The average of medical malpractice allegation against healthcare professionals, healthcare centers, and general hospitals is continually increasing in recent years. The causes for this increase include continuous renewal in medical field due to progressive discovered new technology, rapid allocation of these innovations, and rise in education and knowledge of the public and media coverage [6].

Aim of the Research

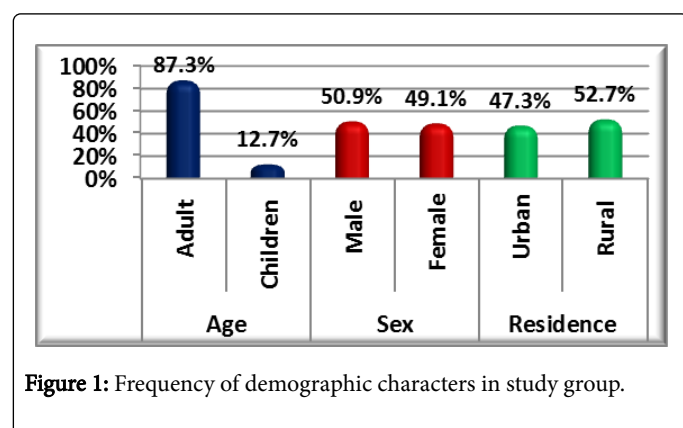
The current research mainly aims to register the cases of medical negligence in Fayoum governorate and raising the awareness of the most common specialties in which negligence occurs. Another important goal is to explore the recurrence of these cases in both rural and urban areas and from which area most of the reported cases are located, rural or urban, and finally setting successful strategies to avoid the recurrence of these practices.

Material and Methods

All cases of medical malpractice claims referred to the Forensic Medicine Authority, between March 2012 and March 2016 were reviewed retrospectively and included into the present study (n=55). The cases were evaluated according to the following factors: age, gender, residence, complaints upon admission, healthcare institutions providing the treatment, failure or harm claimed to result from faulty care and treatment, their field of medical major, and the conclusions of the Forensic Medicine Authority.

Statistical Analysis

- Data were gathered and coded to facilitate data processing and double entered into Microsoft Access and data analysis was performed using SPSS software version 18 under windows 7;
- Simple descriptive analysis, in the form of numbers and percentages for qualitative data, was used together with arithmetic means as central tendency measurement, standard deviations as measure of dispersion for quantitative parametric data, and inferential statistic test for qualitative data;
- Chi square test was used to compare two of more than two qualitative sets;
- The level $P \leq 0.05$ was considered the cut-off value for significance.



Results

From the 55 cases with medical malpractice litigation from March 2012 to March 2016, 27 cases were females and 28 were males.

The present study shows that 87.3% of the study groups were adults and 12.7% of them were children less than 10 years old, 50.9% of them were males and 49.1% were females, and as regards the place of residence, 47.3% were from urban places as in Figure 1. This study shows that the majority of malpractices occurred in general hospitals (67.3%), more than in clinics and private hospitals. The 40% of malpractice were complications of surgery, 23.6% of them were due to negligence, 21.8% of patients had medication errors and the least percentage of 14.5% had forgotten gauze as in Table 1.

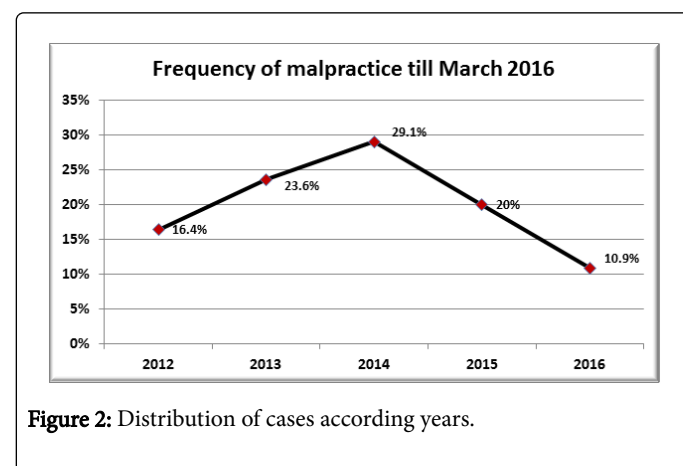
This study also shows that the occurrence rate of malpractice throughout the years has increased from 16.4% in 2012 to 23.6% in 2013, then reached its peak 29.1% in 2014, then started to decrease to 20% in 2015 and decreased further in 2016 to become 10.9% as in Figure 2.

The present study shows that the majority of malpractices occurred in obstetrics and gynaecology which represent (36.4%) of the cases, followed by (14.5%) for orthopaedic practice, then other majors as shown in Table 2. The present study shows that there is no statistically significant difference with p-value >0.05 between age group and residence as regards the types of medical malpractice in Table 3.

Conversely, there is a statistically significant difference with p-value <0.05 in Figure 3 between gender and types of malpractice with high percentage of negligence (69.2%), and medication error (83.3%) among males, and high percentage of complication of surgery (59.1%), and forgotten gauze (100%) among females (Figures 1-3 and Tables 1-3).

Variables	Number (n=55)	Frequency %
Place of malpractice		
General hospital	37	67.30%
Clinic	10	18.20%
Private hospital	8	14.50%
Type of malpractice		
Complication of surgery	22	40%
Negligence	13	23.60%
Medication error	12	21.80%
Forgotten gauze	8	14.50%

Table 1: Types of medical malpractice accusations and distribution of expert opinion by the health centers.



Variables	Number (n=55)	Frequency %
Obstetrics and gynecology	20	36.40%
Orthopedic	8	14.50%
General surgery	6	10.90%
Urology	5	9.10%
Ophthalmology	3	5.50%
Anesthesia	2	3.60%

Neurologist	2	3.60%
Andrology	1	1.80%
Burn	1	1.80%
Circumcision	1	1.80%
Dentistry	1	1.80%
Ear, nose, and throat	1	1.80%
Liver sample	1	1.80%
Nephrology	1	1.80%
Nursery	1	1.80%
Plastic surgery	1	1.80%

Table 2: Proportion of physicians facing malpractice claim according to speciality.

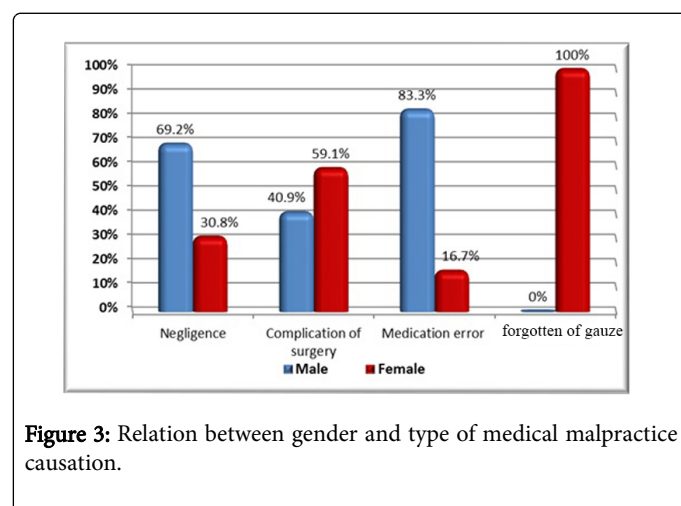


Figure 3: Relation between gender and type of medical malpractice causation.

Variables	Negligence (n=13)	Complication of surgery (n=22)	Medication error (n=12)	Forgotten of gauze (n=8)	p-value
Age					
Adult	10 (76.9%)	18 (81.8%)	12 (100%)	8 (100%)	0.2
Children	3 (23.1%)	4 (18.2%)	0 (0%)	0 (0%)	
Sex					
Male	9 (69.2%)	9 (40.9%)	10 (83.3%)	0 (0%)	0.001*
Female	4 (30.8%)	13 (59.1%)	2 (16.7%)	8 (100%)	
Residence					
Urban	5 (38.5%)	7 (31.8%)	9 (75%)	5 (62.5%)	0.07
Rural	8 (61.5%)	15 (68.2%)	3 (25%)	3 (37.5%)	

Table 3: Comparison of malpractice types in different demographic characters among study gender.

Discussion

A study conducted in Fayoum Governorate, Egypt, has shown that 87.3% of the study group were adults, and 12.7% of them were children, 50.9% of them were males and 49.1% were females, this agrees with the results of another study in Istanbul, Turkey, which reported that the three hundred and thirty cases with medical malpractice issue within a period of 11 years between 2000 and 2011, one hundred and sixty-five cases were females; one hundred and sixty-four were males [7]. The most frequent medical malpractice issue has been against gynaecology and obstetrics (36.4%), followed by orthopaedic (14.5%) and general surgery (10%), this agrees with the findings of the study in Istanbul which has documented that the most frequent medical malpractice claims have been against gynaecology and obstetrics (16.8%), followed by general Surgery [7]. Another study in Saudi Arabia reported that gynaecology and obstetrics fields are in the lead with 27% followed by general surgery [8].

Also the present study shows that the occurrence rate of medical malpractice is common in general hospitals (67.3%) against clinics (18.2%) and private hospitals (14.5%), this agrees with another study conducted in Italy which has reported that litigation has been against public institutions in 88% and against private clinics in 12% of the cases [9].

This study shows that the complication of a surgery makes up a great part of adverse events by “40%”, then proceeded by negligence with 23.6%, and this disagrees with another study in Egypt which showed that the negligence percentage was 31%, followed by complication with surgical intervention with 15.4% [10]. The results also show that the frequency of malpractice throughout the years has increased from 16.4% in 2012 to 23.6% in 2013, then reached its peak to 29.1% in 2014, then started to decrease to 20% in 2015 and decreased again up till March 2016 to become 10.9%. This result conforms to the findings of another research done in showed an increasing trend of medical error reporting from 2007 to 2013 [11].

In conclusion; the present study focuses on some elements of the problem and the systemic causes; such as malpractice, negligence and medical errors.

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