Medicolegal Aspects of Mental Disorders: A Retrospective Study during the Period 2005-2010

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Abstract The World is suffering from an increasing burden of mental disorders and a widening treatment gap; about 450 million people worldwide suffer from a mental disorder or behavioral disorders. This study evaluate the size of the mental disorder problem in Assuit Governorate during the period from 2005 to 2010 through collection of cases of mental disorders files from archive of Assuit Medico-Legal Department of Ministry of Justice during the period from 2005 to 2010. Methods: Data of cases suffering from mental disorders was collected from the archive of Assiut Medico-Legal Department of Ministry of Justice during the period from 2005 - 2010. The collected data included number of mental disorders cases, age, sex, and residence, sociodemographic factors, type of complaint of the plaintiff, the common types of mental disorders, and types of the problems with mental disorders civil or criminal. Results: The total number of the cases with mental disorders in the period from 2005 to 2010 was 163 cases, the highest percent of mental disorders cases occurred in the year 2008 with a percent of 19, 64 % from all mental disorders cases during the period from 2005 to 2010 followed by the year 2009 with a percent of 19 % while the lowest number of cases was in 2006 with a percent of 11.66 %. The highest frequency of mental disorders occurred in the middle age group from 20 - < 30 years, with male predominance. Males represent about triple the number of females. The frequency of mental disorders was the highest in Assiut City (65) cases (39.88 %) while the least percentage was 2 cases (1.23 %) in El Ghanaime. Most of the cases (61.59 %) had with primary mental disorders while only (37.43 %) had secondary mental disorders and both of them were more common in males. The Classification according to psychiatric consultants who contracting with the Assuit Medico-Legal Department of Ministry of Justice. The majority of cases (159 cases) in this study were presented with civil problems and only 4 cases were presented with criminal problems. Conclusion: the problem of mental disorder is considered one of the challenges that face the Egyptian community so all efforts must cooperate to eliminate and treat all the problems associated with it.

Introduction

Mental disorder is a legal term and an important category in the various mental health acts (John and Pamela, 1993). It is like any disease or condition affecting the brain that influences the way a person thinks, feels, behaves and/or relates to others and to his or her surroundings. Although the symptoms of a mental disorder can range from mild to severe and are different depending on the type of mental disorder, a person with an untreated mental disorder is unable to cope with life's daily routines and demands (Peck and Scheffler, 2002).

The recognition and understanding of mental health conditions have changed over time and across

cultures, and there are still variations in the definition, assessment, and classification of mental disorders (Insel and Wang, 2010).

The definition and classification of mental disorders are key issues for mental health and for users and providers of mental health services. Most international clinical documents use the term "mental disorder". There are currently two widely established systems that classify mental disorders The International Classification of Diseases (ICD- 10), part of this classification produced by the World Health Organization (WHO), and the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)

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produced by the American Psychiatric Association (APA) (Clark, 2007).

The prevalence of mental disorders in Europe is about 14% of the population (Demyttenaere et al., 2004). In the United States, about 26.2% of Americans ageing 18 years and older (about one in four adults) suffer from a diagnosable mental disorder in a given year (Kessler et al., 2005).

In Egypt, it has been found that 16.93 % of the adult population suffers from mental disorders. A National Survey of Prevalence of Mental Disorders in Egypt found that most common disorders were mood and anxiety disorders. The least common were alcohol or drug dependence and adjustment disorders (Carr, 2009).

The forensic expert may be asked to give his opinion on the state of mind of the accused at the time of the committed offence. He may be also asked to comment on the present state of the person awaiting trial. The forensic expert should be cautioned not to venture his opinion in the court of law without understanding the full implications of his opinion and the bearing it has on the social, legal and moral issues involved (Tirpude et al., 2006).

A forensic psychiatrist is asked to determine the responsibility of the person in committing a crime, or his fitness for trial in case of criminal proceedings. In case of civil proceedings, he evaluates the fitness of the person for performing all civil affairs. In some countries, general psychiatrists can practice forensic psychiatry as well (e.g. Egypt). Others require training of the general psychiatrists in forensic psychiatry. Some countries require a specific certification to do this type of work (e.g. Japan) (Bursztajn, 2007).

Aim of the study

This study has been designated to:

- Assessment the cases of mental disorders in Assiut Governorate according to the number of cases referred to Assuit Medico-Legal department of ministry of Justice during the period from 2005 – 2010.
- 2- Compare the cases of mental disorders among different age groups, and among different sexes.
- 3- Spotlight on some legal and civil problems associated with mental disorders.
- 4- Identification of the sociodemographic data of the persons with mental disorders and malingering with medicolegal problems.

Subjects and methods

This study is a retrospective study.

Preparation of the study

- 1- Communications with the personnel who could facilitate performing the practical part of the study, this included official approval for reviewing the medico-legal Department of Ministry of Justice at Assuit governorate in which the practical part of the study was done.
- 2- Analysis of the data

Ethical consideration

Ethical considerations were taken regarding the consent of the legal authorities and the confidentiality of the obtained data.

Data collection and analysis

Data of cases suffering from mental disorders was collected from the archive of Assiut Medico-Legal Department of Ministry of Justice during the period from 2005 – 2010. The collected data included number of mental disorder cases, age, sex, and residence and sociodemographic data of the cases of mental disorders, type of complaint of the plaintiff, the common types of mental disorders, and types of the problems with mental disorders civil or criminal.

Statistical analysis of data

Data was verified, coded and statistically analyzed. Frequencies with number and percent and descriptive statistics with graphical presentation of the results were done.

Results

The results are summarized in the following tables and figures:

Table (1) reveals that the total number of cases of mental disorders in this period was 163 cases representing 0.04 % of all cases.

The greatest number of cases was recorded in 2008 (32) cases (19.64%) and the least number was in 2006 (19 cases 11.65%)

Table (2) shows the distribution of cases suffering from mental disorders according to their different age groups and duration. The highest percentage of the cases was in the age group from 20 - < 30 years (37.43%) then from 30 - < 40 years (29.45%) then from 40 - 50 years (16.57%) followed by 50 - < 60 years (7.37%) and above 60 years (3.68%). While the lowest percentage of cases was observed from 10 - < 20 years (2.46%).The age ranged from 10 to > 60 years

Figure (1) shows the distribution of cases suffering from mental disorders according to their sex per year. The highest number of males was in year 2008 (26 cases, 15.95%) while the highest number of females were found in 2010 (10 cases, 6.14%).

Table (3) shows the distribution of cases suffering from mental disorders according to their residence in the period from 2005 - 2010. It reveals that the greatest percentage of cases was found in Assiut City (65 cases, 39.88%) while the least percentage was (2 cases, 1.23%) in El Ghanaiem

Table (4) shows the association of sociodemographic factors with mental disorders cases in men and women. It reveals that the majority of cases ware illiterate (126) cases while 110 cases were unskilled and no cases diagnosed as mental disorder among retired or unemployed and the majority of cases were single (126 cases) followed by married persons (27 cases).

Table (5) shows the distribution of cases suffering from mental disorders according to the diagnosis in the period from 2005-2010. The greatest

number of cases suffering from primary mental disorders was found in 2005 and the least in 2006 while the greatest number of cases suffering from secondary mental disorders was found in 2007 and 2008 and the least in 2005. In addition, it reveals that males represented higher percentage than females of both primary and secondary mental disorders. It shows also that primary mental disorders exceeded secondary mental disorders in the studied cases.

Table (6) shows the distribution of the cases suffering from primary mental disorders according to the cause in the period from 2005–2010. The highest percentage of the cases was diagnosed as mongolism, followed by moron, imbecile, cretinism and idiot respectively.

Table (7) shows the distribution of the cases of primary mental disorders according to sex in the period from 2005-2010. Males represent a higher percentage of the cases than females during the years of the study

Table (8) shows the distribution of the cases suffering from secondary mental disorders according to

the cause in the period form 2005–2010. The highest percentage of the cases was diagnosed as schizophrenia, followed by posttraumatic psychosis, malingering, dementia, and post infection respectively.

Table (9) shows the distribution of the cases of secondary mental disorders according to sex in the period from 2005-2010. Males represented the higher percentage of the cases than females during the period of study

Table (10) shows the distribution of the cases suffering from mental disorders according to the type of the problems civil or criminal in the period from 2005 - 2010. It reveals that most of the cases (159 cases) presented with civil problems and only 4 cases with criminal problems

Table (11) shows the distribution of the cases suffering from mental disorders according to the complaint of the plaintiff in the period from 2005 - 2010. It reveals that the most common complaint was eligibility for pension while custody of children was the least one.

 Table (1): The annual frequency of the cases of mental disorders
 referred to Assuit Medico-Legal Department of Ministry of Justice in the period from 2005–2010.

Year	No of all cases	No of cases of mental disorders	(%)
2005	586	25	0.05
2006	721	19	0.03
2007	706	27	0.04
2008	892	32	0.04
2009	972	31	0.04
2010	1008	29	0.03
Total	4885	163	0.04

Table (2): The distribution of cases suffering from mental disorders according to age groups referred to Assuit Medico-Legal Department of Ministry of Justice in the period from 2005–2010.

Age group	Year	2005	2006	2007	2008	2009	2010	Total
0 - < 10 years	No.	_	_	_	_	_	_	
o i o yourb	%	-	-	-	-	-	-	-
10 < 20 years	No.	-	-	-	-	3	1	4
5	%	-	-	-	-	9.6	3.4	2.45
20 - < 30 years	No.	10	6	13	15	8	14	61
	%	40	31	48	46.9	25.8	48.3	37.4
30 - < 40 years	No.	9	10	5	10	9	5	48
	%	36	52	18.5	31.2	29	17.2	29.4
40 - < 50 years	No.	3	1	5	3	10	5	27
	%	12	5.2	18.5	9.4	32.2	17.2	16.55
50 - < 60 years	No.	3	1	2	2	1	3	12
	%	12	5.2	7.4	6.2	3.2	10.3	7.36
> 60 years	No.	-	1	2	2	-	1	6
	%	-	5.2	7.4	6.2	-	3.4	3.7
Total	No.	25	19	27	32	31	29	163
	%	15.33	11.65	16.56	19.63	19	17.79	

or while y or sustice act	Year							
Residence		2005	2006	2007	2008	2009	2010	Total
Assiut City	No.	11	7	12	11	12	12	65
2	%	44.0	36.85	44.45	43.38	38.71	41.38	39.87
Assiut's Center	No.	2	3	6	5	4	5	25
	%	8	15.79	22.23	15.63	12.9	17.25	15.33
Abnoub and Elfath	No.	2	-	2	1	1	3	9
	%	8	-	7.41	3.13	3.23	10.35	15.33
Sedfa	No.	2	1	-	2	-	1	6
	%	8	5.27	-	6.25	-	3.45	3.68
Abutieg	No.	2	1	1	2	3	1	10
	%	8	5.27	3.71	6.25	9.68	3.45	6.1
El-Badary	No.	2	1	1	-	-	-	5
	%	8	5.27	3.71	-	-	-	3.0
Sahel Selim	No.	1	-	-	1	1	2	5
	%	4.0	-	-	3.23	3.23	6.9	3.0
Manfalout	No.	2	-	1	2	2	1	8
	%	8.0	-	3.71	6.25	6.46	3.45	4.9
El-Quosia	No.	-	2	2	3	2	1	10
	%	-	10.54	7.41	9.34	6.46	3.45	6.1
Dayrout	No.	1	3	2	4	6	2	18
	%	4.0	15.79	7.41	12.5	19.36	6.9	11.0
El-Ghanaime	No.	-	-	-	1	-	1	2
	%	-	-	-	3.13	-	3.45	1.23
Total	No.	25	19	27	32	31	29	163
	%	15.33	11.65	15.56	19.63	19.0	17.79	

 Table (3): The distribution of the cases suffering from mental disorders referred to Assuit Medico-Legal Department of Ministry of Justice according to their residence in the period from 2005–2010.

Table (4): Association of sociodemograpic factors with the mental disorder cases referred to Assuit Medico-Legal
Department of Ministry of Justice cases in males and females in the period from 2005-2010.

Year	200)5	20)6	20	07	20	08	20)9	20	10	Tatal
Variable	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Total
Education	18	4	12	3	14	6	16	6	14	6	17	10	126
Not Educated													
Below secondary	-	-	1	-	4	-	1	-	2	2	2	-	12
Secondary	3	-	1	1	2	1	7	-	5	1	-	-	21
University	-	-	1	-	-	-	2	-	1	-	-	-	4
Occupation: Professional	1	-	1	-	1	-	3	-	4	-	-	-	10
House wife	-	2	-	2	-	4	-	3	-	3	-	1	15
Skilled	4	-	3	-	5	-	5	-	3	1	7	-	28
Unskilled	16	2	11	2	14	3	18	3	14	6	12	9	110
Retired	-	-	-	-	-	-	-	-	-	-	-	-	-
Unemployed	-	-	-	-	-	-	-	-	-	-	-	-	-
Marital status: Married	1	-	3	1	4	3	6	1	3	1	3	1	27
Divorced	-	1	-	-	-	-	-	-	-	-	-	-	1
Widowed	-	-	-	1	1	1	-	2	1	-	1	-	7
Single	20	3	12	2	15	3	20	3	15	9	15	9	126

M: Male; F: Female

Diagnosis and sex	Pri	mary men	tal disor	ders*	Se	condary me	ental diso	rders		
	N	Iale	Fe	emale	Ν	/lale	Fe	Total		
Year	No. %		No.	%	No.	%	No. %			
2005	18	72	2	8	3	12	2	8	25	
2006	11	57.9	2	10.53	4	21.06	2	10.53	19	
2007	14	51.86	4	12.5	13	40.63	4	12.5	32	
2008	11	34.38	4	12.5	13	40.63	4	12.5	32	
2009	13	41.94	5	16.13	8	25.81	5	16.13	31	
2010	11	37.94	8	27.59	7	24.14	3	10.35	29	
Total	78	47.86	24	14.73	41	25.16	20	12.27	163	

Table (5): The distribution of the cases suffering from mental disorders referred to Assuit Medico-L	egal
Department of Ministry of Justice according to the diagnosis and sex in the period from 2005–2010.	

* The Classification was done according to the psychiatric consultants who were working for the Assuit Medico-Legal Department of Ministry of Justice.

Table (6): The distribution of the cases suffering from primary mental disorders referred to Assuit Medico-Legal
Department of Ministry of Justice according to the cause in the period from 2005–2010.

Year	20	2005 2006		006	20	007	2008		2009		20	010	Total	
Cause	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Mongolism	6	13.6	7	15.9	9	20.5	6	13.7	9	20.5	7	15.9	44	43.1
Cretinism	2	15.4	1	7.7	3	23.0	3	23.0	2	15.4	2	15.4	13	12.8
Moron	5	21.7	3	13.1	3	13.1	4	17.4	2	8.7	6	26.1	23	22.6
Imbecile	3	20.0	1	6.67	1	6.67	1	6.67	5	33.3	4	26.7	15	14.7
Idiot	4	57.2	1	14.3	1	14.3	1	14.3	-	-	-	-	7	6.87
Total	20	19.6	13	12.8	14	13.7	15	14.7	18	17.7	19	18.6	1	02

Table (7): The distribution of the cases of primary mental disorders referred to Assuit Medico-Legal Department of Ministry of Justice according to sex in the period from 2005 – 2010.

Year and sex	2005		200	2006		2007		2008		2009		10	Total
Cause	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Totai
Mongolism	5	1	6	1	8	1	4	2	7	2	4	3	44
Cretinism	2	-	1	-	1	2	2	1	1	1	1	1	13
Moron	4	1	3	-	3	-	4	-	1	1	3	3	23
Imbecile	3	-	-	1	1	-	-	1	4	1	3	1	15
Idiot	4	-	1	-	1	-	1	-	-	-	-	-	7
Total	18	2	11	2	14	3	11	4	13	5	11	8	102

M: Male; F: Female

 Table (8): The distribution of the cases suffering from secondary mental disorders referred to Assuit Medico-Legal Department of Ministry of Justice according to the cause in the period form 2005–2010.

Year	20	2005		2006		2007		2008		2009		2010		otal
Cause	No.	%												
Schizophrenia	4	9.8	2	4.9	6	14.6	10	24.4	9	22.0	10	24.4	41	67.2
Malingering	-	-	-	-	-	-	3	60.0	2	40.0	-	-	5	8.2
Post-traumatic psychosis	1	14.3	1	14.3	2	28.6	1	14.3	2	28.6	-	-	7	11.5
Dementia	-	-	1	25.0	2	50.0	1	25.0	-	-	-	-	4	6.6
Post-infection	-	-	2	50.0	-	-	2	50.0	-	-	-	-	4	6.6
Total	5	8.2	6	9.8	10	16.4	17	27.9	13	21.3	10	16.4	6	51

Table (9): The distribution of the cases suffering secondary mental disorders referred to Assuit Medico-Legal Department of Ministry of Justice according to sex in the period from 2005–2010.

Year and Sex	2005		2006		2007		2008		2009		2010		Total	
Cause	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Totai	
Schizophrenia	2	2	1	1	3	3	8	2	5	4	7	3	41	
Malingering	-	-	1	-	-	1	2	1	1	1	-	-	5	
Post-traumatic psychosis	1	-	1	-	2	-	1	-	2	-	-	-	7	
Dementia	-	-	-	1	1	1	-	1	-	-	-	-	4	
Post-infection	-	-	2	-	-	-	2	-	-	-	-	-	4	
Total	3	2	4	2	6	4	13	4	8	5	7	3	61	

M: Male; F: Female

 Table (10): The distribution of the cases suffering from mental disorders referred to Assuit Medico-Legal

 Department of Ministry of Justice according to the type of the problems civil or criminal

 in the period from 2005 – 2010.

Year Type of problems	2005	2006	2007	2008	2009	2010	Total
Civil problems	25(16%)	19(12%)	27(17%)	29(18%)	30(19%)	29(18%)	159(97.5%)
Criminal problems	- (0%)	- (0%)	- (0%)	3(75%)	1(25%)	- (0%)	4(2.5%)
Total	25(15.3%)	19(11.7%)	27(16.5%)	32(19.6%)	31(19%)	29(17.9%)	163(100%)

Table (11): The distribution of the cases suffering from mental disorders referred to the Assuit Medico-Legal Department of Ministry of Justice according to the complaint of the plaintiff in the period from 2005 – 2010.

Year	2005		2006		2007		2008		2009		2010		Total	
Complaint	No.	%	No.	%										
Eligibility for pension	14	20.9	10	14.9	8	11.9	11	16.4	13	19.4	11	16.4	67	41.1
Heritage	7	18.4	3	7.9	4	10.5	9	23.7	5	13.2	10	26.3	38	23.3
Management of funds	4	8.3	4	8.3	10	20.8	12	25.0	10	20.8	8	16.7	48	29.5
Divorce	-	-	1	14.3	4	57.2	1	-	2	28.6	-	-	7	4.3
Custody of children	-	-	1	33.3	1	33.3	1	-	1	33.3	-	-	3	1.8
Total	25	15.3	19	11.7	27	16.6	32	19.6	31	19.0	29	17.8	1	63

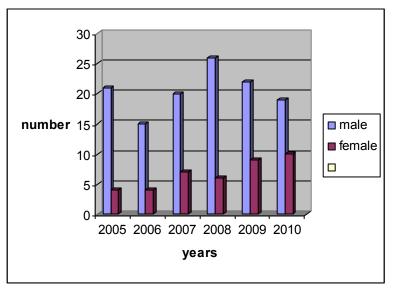


Fig (1): The distribution of the cases suffering from mental disorders according to their sex referred to Assuit Medico-Legal Department of Ministry of Justice in the period from 2005–2010.

Discussion

The World is suffering from an increasing burden of mental disorder and a widening treatment gap; about 450 million people worldwide suffer from a mental disorder or behavioral disorder, yet only a small minority receives even the most basic treatment. Mental disorder cases are likely to increase due to ageing of the population and deterioration in infrastructure and public health services (Bulletin of the World Health Organization, 2000).

Although surveys of mental disorders have been carried out since the end of World War II, little is known about the extent or severity of untreated mental disorders, especially in developing countries like Egypt. Health care delivery in Egypt still faces many problems. Both facilities and staff tend to be unevenly distributed, clustering mainly in urban areas, such as Cairo and Alexandria. The total number of available beds for psychiatric cases is inadequate: less than 10 000 beds, around 13 per 100 000 populations. The number of professionals specialized in mental health is far below international standards. The main obstacle facing the services, however, is that they are hospital-based rather than community-based (Ghanem, 2004).

The current study aimed to evaluate the size of the problem of mental disorders referred to the medicolegal authorities in Assiut Governorate during the period from 2005-2010, list of the most common types of mental disorders and estimation of the prevalence of legal and civil problems among cases suffering from mental disorders. Meanwhile to provide a set of recommendations to decrease the problems associated with mental disorders

The total prevalence of mental disorder cases among population in Assiut Governorate (163 cases) was, 0.4%. In Egypt, Ghanem et al., (2009) found the prevalence 16.93% while Noorbala et al., (2004) did a survey in Iran in which the prevalence was 21%. This difference may be explained by that Ghanem did his survey on five areas in Egypt. Prevalence was generally lower than corresponding European figures. The rate of prevalence varies a lot among different countries especially among children depending on diagnostic systems, the age of the child, and source of the administrative data; for example, using clinical guide lines based on more comprehensive adaptive behavior and psychological assessment (King et al., 2009).

In developing countries, most studies are based on clinical assessment, making it difficult to compare such studies with each other. Using a simple set of questions followed by clinical evaluation, Stein et al., (1987) found that the prevalence of mental retardation (IQ < 70) among 3-9 years old in eight developing countries (including some populous countries like India, Brazil, Bangladesh, and Pakistan) varied from 911000 in Pilippines to 15611000 in Bangladesh.

In this study the highest percentage of mental disorders occurred in the year 2008 (19.64 %) followed by the year 2009 with a percent of (19%) while the least percentage was in 2006 (11.66 %). This indicates that the problem of mental disorders shows an upward trend. This increase may be a result of the poorer health services, which may be reflected in the greater numbers of undiscovered and /or untreated cases.

Regarding the relationship between the age and mental disorders, it was found that the highest frequency of mental disorders occurred in the age group from 20-<30 years with a percent of (37-43%), while the least percentage was from 10-<20 years 26.46%.Mental disorder cases are likely to decrease in young age because of ageing and deterioration in infrastructure.

Child and adolescent psychiatry sometimes uses specific manuals in addition to the DSM and ICD. The Diagnostic Classification of Mental Health and Developmental Disorders of Infancy and Early Childhood (DC: 0-3) classified mental health and developmental disorders in the first four years of life. It has been published in nine languages (Alicia et al., 1997).

The French Classification of Child and Adolescent Mental Disorders, operational since 1983, is the classification of reference for French child psychiatrists (Mises et al., 2002).

As regards the relationship between sex and mental disorders, it was found that the frequency of mental disorders in males was nearly triple that of females (75.46 % in males compared to 24.54 % in females). In contrast, Ghanem (2004) reported that women with mental disorders were over 2 times higher than men and they explained this finding by that women bear the burnt of the adversities associated with poverty: less access to education, physical abuse from husband, forced marriage, fewer job opportunities and, in some societies, limitation of participation in activities outside the house. Bijl et al., (1998) in their study in Netherland found that women had higher prevalence rates of mood and anxiety disorders than men, which is consistent with earlier epidemiologic studies. Men had higher rates of alcohol and drug abuse but there were no gender differences when all disorders were taken together.

In this study, males were more than females because the risk factors for mental disorders were similar for both men and women with the exception of occupation and smoking, these increased the risk of mental disorders in men and this may have been because the majority of the women in this study were housewives. In addition, differences in lifestyle and ability to tolerate stress of the work may also result in increased risk of mental disorders in some persons (Tirpude et al., 2006).

The frequency of mental disorders was higher in Assiut City (65 cases, 39.88 %) while the least percentage was 2 cases (1.23 %) in El Ghanaime. In contrast, Mumford et al., (2000) reported in their study that higher prevalence rate of mental disorders was found in the rural populations in Pakistan. Also, an early study in Egypt showed that depressive disorders were more prevalent in rural residents (Okasha et al., 1988). The result of this study agreed with Canino et al., (1987) who found in Latin America lower rates in rural villages than in urban areas. However, in a similar study in the Islamic Republic of Iran, the authors assured in their study that no difference was found between urban and rural areas. This may be because due to many rural residents migrate to urban areas and this may create two matching communities with same socioeconomic standards; consequently the urban-rural difference found by others may be masked. Both rural and urban residents have specific problems, however and this may also contribute to mask the difference. For instance, in urban areas, over crowding, polluted environment and high levels of violence may affect the rates of mental disorders. Rural residents may face problems such as lack of proper infrastructure and low socioeconomic standards (Noorbala et al., 2004).

The mental disorders were found among illiterate 126 cases and this is also in agreement with Noorbala et al., (2004) that carried out their study in Iran and concluded that with increasing educational level the risk of mental disorders decreases.

As regarding the relationship between occupation and mental disorders, it was found that mental disorders were more common in unskilled (110) cases followed by skilled (28 cases) and no cases among retired or unemployed. In contrast Hodiamont et al (1987), Behar et al. (1992), Murthy and Burns (1992), Stansfeld and Marmat (1992), and Noorbala et al (1998) found higher rates of mental disorders among housewives and unemployed persons.

In this study the frequency of mental disorders was more common in single (126 cases) than married

persons (27 cases) and this may be explained by limited social relations and monotonous lifestyle. In contrast to Noorbala et al. (2004) who found in their surveys in Iran higher prevalence rates of mental disorders among the married.

Most of cases 102 (61.59 %) had primary mental disorders and 61 cases (37.43 %) had secondary mental disorders and both of them were more common in males. The majority of primary cases of mental disorders was diagnosed as Mongolism (44 cases) followed by Moron (23 cases) and Idiot was the least number of cases (7) and all of them were more common in males. In contrast to studies from area such as USA, Europe, Lebanon and Japan that revealed that mood and anxiety disorders were the commonest disorders reported (WHO, 2004). Also, Carr in (2009) did national survey on mental disorders in Egypt and found that most common disorders were mood and anxiety disorders. The least common disorders detected in the survey were alcohol or drug dependence and adjustment disorder.

As regarding secondary mental disorders the majority of cases were diagnosed as Schizophrenia (67.2 %) and the least number as Dementia and Post-Infection (6.6 %) for each one. Schizophrenia is the most common disorder and this may be explained by that it is the most common psychosis in Egypt and accounts for the majority of in-patients in mental hospitals (Okasha et al., 1993). Secondary mental disorders were higher in 2008 (17 cases) than in 2005 (five cases). This is in agreement with (Ghanem et al.,2009) who studied in selected regions (Alexandria, Giza, Qaliubia, Fayoum and Ismailia) and found that psychiatric disorders represented only in 0.19 % which is less than what has been reported from Dubai (0.7 %)(Abou-Saleh et al., 2004). The low figure may be the result of the stigma related to that disorder.

About the problem of mental disorders, it was found that the majority of cases (159 cases) presented with civil problems and only four cases with criminal problems. This may be explained by that there are many civil problems associated with mental disorders as management of property and affairs of insane, illegal detention, insanity and contract, insanity and marriage contract, the competence of insane to be a witness, and insanity and testamentary capacity and these problems forced the people to complain (Tirpude et al., 2006).

In this study, no problems were found associated with alcohol or drug dependence. This is also in agreement with Ghanem et al., (2009) who found that the least common disorders indicated in their survey were alcohol or drug dependence.

In contrast ,Okasha, (1996) mentioned that the 1980s witnessed a sharp rise in morbidity due to drug misuse, since then, Egyptian community leaders at all levels have demonstrated intense concern over this problem.

Although epidemiological data on drug misuse in Egypt are scarce, health professionals report

a multiple of reasons for such concern, including an increase in the rate of addicts seeking psychiatric treatment (Al Azayem and Ez Eldin, 1996), and alarming drop in age at initiation of drug use, with a consequent rise in adolescent addicts (Amer et al, 1986).

Conclusion

The problem of mental disorder is considered one of the challenges that face the Egyptian community so all efforts must cooperate to eliminate and treat all the problems associated with it.

Recommendations

Regular statistics and collection of all data and information should be done about the cases of mental disorders in our country to know the size of the problem of mental disorders, as community surveys in the field of psychiatry because such informations as a base for future mental health planning, development, training and incorporation of mental health in primary health care. The forensic expert should caution if he asked to determine the responsibility of the person in committing a crime, or his fitness for trial in case of criminal proceeding. In case of civil proceeding, he evaluates the fitness of the person for performing all civil affairs, further analysis of these risk factors to contribute towards primary prevention of mental illness in our culture.

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الملخص العربي

الوجهة الطبية الشرعية للاضطرابات العقلية من في أسيوط: دراسة مرجعية في الفترة من 2019 إلى 2010

 2 وفاء محمد عبد المنعم و زغلول ثابت محمد و صفاء ماهر جورج 1 و فهد عبد العظيم محمد

تعتبر الاضطرابات العقلية واحدة من المشكلات الكبرى التي تعتبر الاضطرابات العقلية أو السلوكية. اني أكثر من 450 مليون شخص في العالم من إحدى الاضطرابات العقلية أو السلوكية. وتمت الدراسة من خلال دراسة مرجعية لسجلات الاضطرابات العقلية من أرشيف مصلحة الطب باسيوط والتابعة لوزارة العدل في الفترة من 2005 إلى 2010 وشملت الدراسة 163 حالة تعاني من بات عقلية وقد تم تحليل البيانات من حيث العمر والنوع ومحل الإقامة والتشخيص للحالات التي تعاني طرابات عقلية ونوع المشكلات المصاحبة لهم، وسبب عرضهم على مصلحة الطب العرض حيث يعاني أكمثر الشرعي بأسبوط والتاد لهم، وسبب اله الذي من اج

ة أن أعلى نسبة من الحالات المعروضة على مصلحة الطب الشرعى و التي 2008 م بنسبة 19.64 % من إجمالي الحالات خلال الفترة من 2005 إلى %، في حين أن أقل عدد من الحالات كان في عام 2006م بنسبة 66.11% رابات العقلية في المجموعة العمرية من20 إلى اقل من 30 عاما، كما وجد في الذكور ثلاثة أضعاف الإناث تقريباً (66.75 % من الذكور ، 24.54 اسة أن أعلى نسبة من الحالات المعروضة علم 2009م 2010 ي لَر أبات العقلية في عي مصور بديه اصعاف الإنات تقريبا (46.76 %) هذا وقد نبين من دراسة العلاقة ما بين محل إقامة الحالات التي تعاني من اضر سجلت أعلى نسبة (88 20%) من أسلسانيا التي تعاني من اضر ان نسبة ح ً ♦ من الإناث) من إجمالً

مَنْ أَضْطَر إبات عقلية أن مدينة هذا وقد تبين من دراسة العلاقة ما بين محل إقامة الحالات التي تعانى من اضطر آبات عقلية أن مدينة أسيوط سجلت أعلى نسبة (39.88%) من إجمالي الحالات ومركز الغنايم أقل نسبة (1.23 %). واظهرت الدراسة أن الحالات التي تعاني من اضطر آبات عقلية أولية كانت بنسبة 1.59 % والحالات التي كانت تعانى من أضطر آبات عقلية تانوية كانت بنسبة 37.43 % من إجمالي الحالات وكلاهما نسبته بالذكور أعلى من

وأظهرت الدراسة أبضا أن معظم المشكلات التي تصاحب حالات الاضطرابات العقلية والتي من أجلها وأخلهم على مصلحة الطب الشرعي هي مشكلات مدنية وقدر عددها بحوالي 5.97% من إجمالي عدد الحالات وحوالي5.2% حالات كانت مصاحبة بمشاكل جنائية. وَخَدِداً فِنْكَلْطَطْلِبْتَ اللَّهُ تَوْبُوطُ هَيْهُ فَيْكَلُطُطْلِبْتَ اللَّهُ تَوْبُوطُ هَيْهُ فَي الْمُ فَ يجب أن تتضافر جميع الجهود للحد منها ومعالجة وحل جميع المشاكل المتعلقة بها

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