Sociodemographic factors of Schizophrenia in Basra

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Abstract

Background and objectives: Schizophrenia is the heartland of psychiatry and the core of its clinical practice. The onsets of schizophrenia characteristically occur between the ages of 15 and 45. There are minor sex differences in age of onset. Schizophrenia is over presented among people of lower social class. The relationship of birth order to schizophrenia has been controversial.

Methods: Eighty six schizophrenic patients who were admitted to psychiatric unit of Basra General Hospital, who met DSM-1V criteria for schizophrenia were included in this study. The data was obtained by personal interview from the patients and their accompanied relatives, after taking their consent, according to the following: age, sex, marital status, social class, season of birth and birth order.

Results: This study shows high male to female ratio. Two third of the patients were single and in younger age group. The study also shows high percentage of schizophrenic patients in upper and middle social class. The season of birth of schizophrenic patients were in spring and there is no much difference between first and last born

Conclusion: There is certain factors, the young, single, season of birth ... etc have special risk in developing schizophrenia and these should provide the basis for further studies.

Key words: Sociology, schizophrenia, Demographic factors, Basra

Introduction

Schizophrenia is a serious mental illness characterized by a disintegration of the process of thinking, contact with reality, and of emotional responsiveness ¹. It is most commonly manifests as auditory hallucinations, paranoid or bizarre delusions, disorganized speech and thinking with significant social or occupational dysfunction. Onset of symptoms typically occurs in voung adulthood ², with around 0.4–0.6% of the population affected ^{3, 4}. Diagnosis is based on the patient's self-reported experiences and observed behavior. No laboratory test for schizophrenia currently exists ⁵ Studies suggest that genetics, early environment, neurobiology, psychological and social processes are important contributory factors; some are recreational and prescription drugs appear to cause or worsen symptoms. Current psychiatric research is focused on the role of neurobiology, but no single organic cause has been found. As a result of the many possible combinations of symptoms, there is debate about whether the diagnosis represents a single disorder or a number of discrete syndromes. Despite the etymology of the term from the Greek roots skhizein ("to split") and phrēn, phren- ("mind"), schizophrenia does not imply a "split mind" and it is not the same as dissociative identity disorder (previously known as multiple personality disorder or split personality), a condition with which it is often confused in public perception ⁶. Increased dopamine activity in the mesolimbic pathway of the brain is commonly found in people with schizophrenia. The mainstay of treatment is antipsychotic medication; this type of drug primarily works by suppressing

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dopamine activity. Dosages of antipsychotics are generally lower than in the early decades of their use. Psychotherapy, vocational and social rehabilitation are also important. In more serious cases-where there is risk to self and others—involuntary hospitalization may be necessary, although hospital stays are less frequent and for shorter periods than they were in previous times '. The disorder is thought to be mainly affect cognition, but it also usually contributes to chronic problems with behavior and emotion. People with schizophrenia are likely to have additional (co morbid) conditions, including major depression and anxiety disorders⁸; the lifetime occurrence of substance abuse is around 40%. Social problems, such as long-term unemployment, poverty and homelessness, are common. Furthermore, the average life expectancy of people with the disorder is 10 to 12 years less than those without, due to increased physical health problems and a higher suicide rate (about 5%)⁹,¹⁰. The aims of this study are to: 1- Give a clue to the role of social and cultural factors in schizophrenia. 2- Help us to identify the more vulnerable population, so that preventive measures can be directed accordingly.

Methods

Eighty six schizophrenic patients who were admitted to psychiatric unit of Basra General Hospital between April 2009 to February 2010, who met DSM IV criteria 5 for schizophrenia were included in this study .Data sheets concerning age, sex, marital status, and social class, season of birth, birth order, and family history of schizophrenia were obtained from patients, after obtaining their consent to participate in the study, and their accompanying relatives.Social classification was not adopted according to occupational and educational standards (British Registrar General, 1966) because this may not be ideal for our society where recent changes in various aspect of our life have been continuously taking Iplace. However, in analyzing various variables, we found that factors most helpful

in segregating social classes were occupation scale, level of education, house location and income. Accordingly social class arranged into upper, middle and lower depending on our personal judgment which based on mentioned factors. The season of birth was defined as winter (December - February), spring (March- May), summer (June -August) and Autumn (September -November). Seven patients did not know their birth dates and patients born on first July. Eight patients were excluded because their birth dates were inaccurate, according to the study sample season of birth consisted of (71) cases . For calculation of birth order, still birth and half sibling were excluded; patients who were multiple births (2 male and 1 female twins) were excluded also. The sib size was defined as small (2-4 persons), medium-sized (5-8 persons) and large (9-or more persons). The only children in their families were excluded from first and last birth positions.

Results

1. Age and sex distribution:

Table 1 shows that 52 patients (60.4%) are male and 34 patients (39.6%) are female .The range of age were between 15 and 64. About two third of all patients of both sexes were between 15-34 years of age and only 6 patients (6.9%) were above the age of 45. In all age groups the disease was more frequent in male than females. Male / Female ratio was 1.5:1.

2. Marital status:

Table 2 shows that 67.4% of the patients were single, 16.3% were married, 7.0% were divorced, 8.2 % were separated and 1.1 % was widowed. Single / Married ratio was 3.6:1.

3. Social Class:

Table 3 shows that 48 schizophrenic patients (55.8%) in the lower social class and 38 patients (44.2 %) in the upper and middle social classes.

Table 6 gives the birth position distribution 4. Season of birth: Table 4 shows that peak months for schizoof 83 schizophrenic patients .Each horizonphrenic births include March (16.9 %), tal row represents a separate sib size, the April (12.7%) and May (11.2%), while vertical columns designate the different the lower month for schizophrenic births ordinal position among families of the was August (2.8%). same size. Table 5 shows that more schizophrenic 5. Birth order Table 6 gives the birth posibirths were in spring 29 (40.8 %), followed tion distribution of 83 schizophrenic paby winter 18 (25.4 %) and less number of tients .Each horizontal row represents a schizophrenic births were in summer and separate sib size, the vertical columns desautumn, each of them was 12 (16.9 % ignate the different ordinal position among

families of the same size.

Table 1: The distribution of schizophrenic patients according to age and sex

Schizophrenic patients (86)										
Age group	Male	%	Female	%	Total	%				
15-24	12	13.9%	11	12.8%	23	26.8%				
25-34	21	24.4%	15	174%	36	41.9%				
34-44	14	16.3%	7	8.2%	21	24.4%				
45-46	5	5.8%	1	1.2%	6	6.9%				
Total	52	60.4%	34	39.6%	86	100%				

Table 2: Marital status of schizophrenic patients

Marital status	Male	Female	Total	%
Single	36	22	58	67.4%
Married	10	4	14	16.3%
Divorced	3	3	6	7.0%
Separated	3	4	7	8.2%
Widowed	-	1	1	1.1%
Total	52	34	86	100%

Table 3: Distribution of schizophrenic patients according to social class

Social Class	NO. of Patients	%		
Upper	5	5.8%		
Middle	33	38.4%		
Lower	48	55.8%		
Total	86	100%		

Table 4: Monthly distribution of Schizophrenic births

Table 5: Distribution of patients according to Season of birth

Month	No. of patients	%	Season	No, of patients	%	
January	7	9.9%	Winter			
February	7	9.9 %	(DecFeb.)	18	25.4%	
March	12	16.9%	. ,			
April	9	16.9%	Spring	29	40.8%	
May	8	11.2%	(MarMay)	29	40.070	
June	5	7.0%				
July	5	7.0%	Summer	12	16.9%	
August	2	2.8%	(June-August)			
September	4	5.7%				
October	3	4.2%	Autumn (SeptNovem.)	12	16.9%	
November	5	7.0%				
December	4	5.7%	Total	71	100%	
Total	71	100 %	i Otal	71	100%	

Table 6: Distribution of schizophrenic patients by birth rank and family size

	Birth rank												
Family size	1	2	3	4	5	6	7	8	9	10	11	12	Total
1	3												3
2	1												1
3	5	1	1										7
4	1	1	1										3
5	2	1	1		6								10
6	3		1	3	2	2							11
7		2	1	1		4	3						11
8	1	3		1	2	2	1	2					12
9	2	1	4	2	1				1				11
10			2						2	1			5
11	1					1				1			3
12				1	2					1	1	1	6
Total	19	9	11	8	13	9	4	2	3	3	1	1	83

Discussion

The incidence of schizophrenia is believed to be approximately equal among males and females ¹¹ although other studies suggest slightly excess of male patients ¹². In our study; the male to female ratio was 1.5:1. This high male preponderance could be due to either family attitude toward admission of female patients, or may be a real differnce in the ratio. Our study shows 68% of all patients of both sexes were between 15-34 year of age. This finding is similar to al – M aghazaji et al ¹³ who found two - third of patients were below age of 34. The present study results are supported by the finding of Varma et al ¹⁴ who found that most of the schizophrenic patients were young patients. Two third of patients were single and single / married ratio was 3.6: I. This finding is similar to Eaton ¹⁵ who found the incidence of schizophrenia is several times higher in single patients than in the married of similar age. This high percentage of single patients could be due to either that most of the patients were young adults and adolescents, schizophrenics may be less likely to marry even on reaching the marriage age, or marriage provides protection against development of schizophrenia .Regarding social class, several studies have shown that schizophrenia is over presented among people of lower social class ¹⁶. In our study high percentage (44.2%) of patients in upper and middle social class, this is largely due to financial policy rather than real distribution in various social classes in our society. Regarding season of birth, the present study shows more schizophrenic patients were in spring (March-May) 40.8% and the peak month for schizophrenic births was March 16.9%. The peak of the schizophrenic births is later than those found in philipin (December- Feeberuary) ¹⁷; and in England and Wales (January- March)¹⁸. But our study is similar to the peak in united state and Japan which is predominately March and April ^{19,20}. Regarding birth order, inspection of the Table 6 reveals no

much difference between first and last born .¹⁸ first born were compared to ¹⁹ who were last born . This finding is similar to the finding of Birtchnell, J.²¹ and Malama et al ²² but in contraversy with those of Hare and Price ²³ who found higher incidence of schizophrenia in the later birth orders. Present study also reveals considerable ineguality of the distribution with over presentation of first born in small families (7 first born were compared with one who was last born), and a tendency toward over presentation of last born than first born in medium -sized and large families ,16 last born were compared to 9 who were first born. This study is similar to the finding of Baryy and Barry ²⁴ but opposaite with those of Sanda rarja ²⁵, who found over presentation of first born among patients from large families in India . The explanation of our result, that in small families, the chilidren are likely to receive more individualized parental attention and to be subjected to more sever pressure of parental expectation, this pressure usually become more intense for older than younger, while last born of large families may suffer from parental rejection and competitive disadvantage in sib ship

Conclusion

This study has thrown some light on sociodemographic characteristics of schizophrenic patients There are certain factors the young, single. Season of births etc. have special risk in developing schizophrenia we hope that these factors must be taken seriously and this study should provide basis for further studies to assess the rule of these factors as a risk factors for schizophrenia

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