INTRODUCTION

There is no health without mental health. WHO statistics shows that mental disorders are major contributors to illness and premature death, and are responsible for 13 percent of the global disease burden. With the global economic downturn – and associated austerity measures, the risks for mental ill-health are rising around the globe. By 2020, they will account for nearly 15% of disability-adjusted life-years lost to illness. The burden of mental health disorder is maximal in young adults, the most productive section of the population.

Economic cost of mental illness not only comprises of hospital services and medication but utilization of all resources of household of diseased persons in term of money, time and productive capacity.

It is important to identify vulnerable groups; the burden of mental disorders is not uniformly distributed in all sector of society. Those people living in stern conditions with poor resources face mental problems more.

By definition, mental health is a state of well-being in which every individual realizes his or her own potential, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to her or his community. It is also the absence of disability caused by a behavioral or psychological syndrome or pattern.

Many developing countries are still lagging behind in mental health services. In Pakistan mental health diseases are also not properly recognized. There is a vast practice of consulting faith healers in believing that it is some kind of possession by spirits. The treatment given is usually amulets, spiritually treated...
water, burning incense (dhooni), or reciting incantations.

The overall picture of mental ill health in 2004 in Pakistan shows prevalence of 6% depression, 1.5% for schizophrenia, 1-2% of epilepsy and 1% of Alzheimer’s disease in general population. The prevalence of depression is highest followed by schizophrenia and substance abuse. Poverty, unemployment, political instability, violence and other social evils have influenced in rise of mental ill health problems. Various studies have shown that only 5% to 40% of people have access to mental health services. Problem of drug addiction is on rise.

Since birth of Pakistan, lunacy act of 1912 was enacted. With more emphasis by WHO on mental health for its member countries and effort of Pakistani government new mental health legislation came into force on 20th, 2001.

However, Situation in Pakistan is bleak, as there is a dire need of changing whole mental health care delivery system. The emphasis should be put more on primary level rather then tertiary level, from curative to preventive one. A mental policy will be only effective if we implement it at all levels with earnest efforts.

The study was conducted with the main objective of describing the pattern of diagnosis of the patients at psychiatric illness in hospital Peshawar, and the trends of the psychiatric disorders from 2004 to 2010.

**METHODOLOGY**

**Study Design**
Simple Cross sectional. Retrospective record review was done.

**Time & Place**
Data collection was done in March-April 2011.

**Sample Size**
All the patients attending OPD service in whole year of 2004 & 2010 were included.

**METHOD**
Retrospective record review was done for year 2004 & 2010 from govt. psychiatric illness hospital. Records were retrieved from hospital record room with the permission of authorities and examined in detail. It consisted of OPD patients records. A gap of five year was chosen for comparison i.e. year 2010 was compared with year 2004, who had paid visit to hospital during 2004 & 2010.

**Statistical Analysis**
Data available was in the form of individual diagnosis, it was properly coded with the help of a psychiatrist according to the latest international classification of diseases (ICD-9) & (ICD-10). Data entry and univariate analysis was done using Microsoft Excel.

P value was calculated using “z test for two sample proportion” for comparisons of different diseases in two years.

Ethical considerations: As study was based on retrospective data collection, no informed consents were required. However, permission was taken from the hospital administration.

**RESULTS**
During the year 2004, a total of 46278 patients were seen by the hospital out patient dept. i.e. about 140 patient/day approx. We observed the retrospective records. During the year 2010, a total of 53315 patients visited the hospital.

An overall pattern of diseases were observed in table I:

In 2004, there was predominance of Schizophrenia 16188(35%) and Neurotic stress related disorders 14288(30.87%) over other diseases, then come the
Episodal & paroxysmal disorders 7408 (16%) and then Mood effective disorders 5826 (12.59%). Drug dependence showed a relatively low percentage i.e. 1111 (2.4%). Similarly, mental retardation also showed low percentage i.e. 744 (1.6%).

In 2010, there was predominance of Schizophrenia 16818 (31.55%) and Neurotic stress related disorders 16880 (31.66%) then Mood effective disorders 8626 (16.18%) and then drug dependence was 296 (0.56%) and Mental Retardation was 900 (1.69%).

In the figures 1 & 2, pattern of diseases is shown according to year 2004 and 2010, which is showing little variation in overall pattern. However, there was statistically significant difference between 2004 & 2010 patterns of diseases with p value < 0.05, only the proportion of mental retardation was same in both samples with p > 0.05. (as shown in Table I).

### DISCUSSION

In our study, data was collected for two different years to assess the consistency in pattern of diseases. It was found that in both years almost similar frequency of patients visited the hospital.

WHO data from different countries shows that depression is the most common mental disease in societies. It is the leading cause of disability worldwide, while Schizophrenic group shows relatively low percentage of incidence, but high prevalence due to chronicity. It has also been found that depression is relatively more common in developed countries with cold climate, while anxiety and neurosis are more common in under developed countries.

Data from mental hospital describes almost similar pattern. Schizophrenia showed the highest percentage followed by neurotic stress related group

<table>
<thead>
<tr>
<th>Disease</th>
<th>Year 2004</th>
<th>Year 2010</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00-09 Acute delirium</td>
<td>150 (0.32%)</td>
<td>130 (0.24%)</td>
<td>0.018</td>
</tr>
<tr>
<td>F10-19 Drug dependence</td>
<td>1111 (2.4%)</td>
<td>296 (0.56%)</td>
<td>0.000</td>
</tr>
<tr>
<td>F20-29 Schizophrenia, schizotypal ad delusional disorders</td>
<td>16188 (35%)</td>
<td>16818 (31.55%)</td>
<td>0.000</td>
</tr>
<tr>
<td>F31-39 Mood effective disorders</td>
<td>5826 (12.59%)</td>
<td>8626 (16.18%)</td>
<td>0.000</td>
</tr>
<tr>
<td>F41-48 Neurotic, stress related &amp; somatoform disorders</td>
<td>14288 (30.87%)</td>
<td>16880 (31.66%)</td>
<td>0.008</td>
</tr>
<tr>
<td>F66 Psychosexual disorders</td>
<td>50 (0.11%)</td>
<td>15 (0.028%)</td>
<td>0.001</td>
</tr>
<tr>
<td>F70-79 Mental retardation</td>
<td>744 (1.6%)</td>
<td>900 (1.69%)</td>
<td>0.320</td>
</tr>
<tr>
<td>F90 Attention deficient hyperkinetic disorder</td>
<td>225 (0.49%)</td>
<td>144 (0.27%)</td>
<td>0.000</td>
</tr>
<tr>
<td>G20-26 Extra pyramidal &amp; movement disorder</td>
<td>48 (0.1%)</td>
<td>15 (0.028%)</td>
<td>0.001</td>
</tr>
<tr>
<td>G40-47 Episodal &amp; paroxysmal disorders</td>
<td>7408 (16.01%)</td>
<td>9373 (17.58%)</td>
<td>0.000</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>240 (0.51%)</td>
<td>118 (0.22%)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>46278</td>
<td>53315</td>
<td></td>
</tr>
</tbody>
</table>

### Table I. Pattern of Mental Diseases in 2004 & 2010 (ICD-10)

*Percentages are given in nearest round figures upto two decimal.

*P-values calculations are based on z-test for two sample proportions. (At significance level of 0.05)
Mental illness not only constitutes 10.5% of the Global Burden of Disease (GBD), but also contributes 29% of the major causes of disability\textsuperscript{11}. Among top five causes of disability five are mental. Mental retardation and drug addiction are not counted in it\textsuperscript{2,13}.

When this pattern of diseases was compared with other studies in the country on institution based pattern of psychiatric morbidity it was found that most of the diseases were showing similar patterns, like schizophrenia and neurotic stress related disorders were predominant in the study followed by mood effective disorders and episodal & paroxysmal disorders.

Based on results of surveys in other low-income countries it is estimated that the prevalence of schizophrenia is between 0.14 to 0.46% and epilepsy around 1%\textsuperscript{14,15}. These studies were community based so the figures were quite diluted as compared to our study, which was institution based.

In patients treated by an NGO in Pakistan, PAMH has reported that up to 44 percent of people, the majority women, were clinically depressed. Untreated depression is also a major cause leading to suicide. Suicide rate is also alarmingly increasing in Pakistan as reported by the Human Rights Commission of Pakistan\textsuperscript{16}.

Another study conducted in 2002 in Pakistan states psychosomatic disorders to be 5-7% prevalent in Pakistan, Seizure disorder 1% in urban and 2% in rural setting. Substance use disorder: 7% in urban and 6.5% in rural, obsessive-compulsive disorder: 2% in urban and 1% in rural setting.\textsuperscript{3} while our hospital based data suggested that treatment seeking behavior are quite different from community picture as percentage of chronic mentally ill patients coming to mental hospital were higher.

According to National Survey (2000) in Pakistan,
there are 5.1 million drug abusers and 51% of them are dependent on opiates like Heroin. National assessment of opioid users in 2006 estimate 0.63 million users of opiates, out of them 77% (0.48 million) are estimated to use heroin. Overall prevalence rate in general population of Pakistan is 0.7%. Cannabis, sedatives and tranquilizers, heroin, opium and other opiates were used. It was also estimated that number of addicts has not risen significantly since 2000. In another study in nearby country Afghanistan, Substance related disorders, in particular addiction to opium, was common in the poppy growing areas in the south and east of the country. Our study was not able to significantly look into this problem due to different study design.

As compared to providing treatment at mental hospitals, intervention at community level has shown increase detection and treatment of mental illnesses. If such interventions are incorporated at primary health care level they are cost effective too.

Limitations of study
The study was hospital based, so findings can not be applied on general population. However, it provides useful information of mental disease pattern especially in Distt. Peshawar and generally in the province.

CONCLUSIONS
Hospital data is showing the overall picture of burden of disease. There is a need of culturally informed studies, which can inform us of base line data, epidemiology and people’s help seeking behaviour. There should be further need based studies with priority settings and planning for mental health problems.

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AUTHOR(S):
1. DR. RAHEELAH AMIN
FCPS (Community Medicine)  
Assistant Professor  
Department of Community Medicine,  
Khyber Girl’s Medical College, Peshawar

2. DR. RUBINA GUL  
Assistt. Professor, Community Medicine Deptt.  
Khyber Medical College, Peshawar.

3. DR. M. AKBAR KHAN  
Lecturer, Community Medicine Deptt.  
Khyber Girl’s Medical College, Peshawar.

4. DR. M. TARIQ  
Senior Specialist,  
Govt. Sarhad Hospital for Psychiatric illnesses, Peshawar.

5. Dr. Shafliaullah  
Lecturer, Community Medicine Deptt.  
Khyber Girl’s Medical College, Peshawar

6. Dr. Amina Mehrab  
4rth year MBBS Student,  
Khyber Medical College, Peshawar.

Correspondence Address:  
Dr. Raheelah Amin  
House No. 25, Street No. 2, Sector E-1,  
Phase 1, Hayat Abad, Peshawar.  
raheelahamin@yahoo.com

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