An assessment of mental health status of physicians working in medical college hospitals of Dhaka city

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Introduction

Mental health is a positive state in which one is responsible, displays self-awareness, is self-directive, reasonably worry free and can cope with usual daily tensions. Such individuals are accepted with in a group and function well in society and generally satisfied with their life; able to solve problems, cope with crisis, maintain a state of well-being by enjoying life, setting goals and realistic limits, becoming independent, interdependent or dependent as the need arises without permanently losing one’s independence1. Physicians working in health facilities are exposed to heavy workload, consisting but not limited to professionalism, responsibility, maintaining patient doctor relationship2. Also, they often have to work with limited support from the administration3. Working in stressful environment in turn affects health, both physical and mental4. Unfortunately, studies and investigations about mental health usually remains underestimated, it occurs due to various reasons. Unlike physical illness; where the patient mainly suffers from disease, one suffering from mental health illness also carry the burden of a mark of disgrace associated with a particular circumstance, quality, or person which is known as stigma. Many people with serious mental illness are challenged doubly. On one hand, they struggle with the symptoms and disabilities that result from the disease. On the other, they are challenged by the stereotypes and prejudice that result from misconceptions about mental illness. The impact of stigma is twofold, as patients of mental illness also have to deal with public stigma. Public stigma is the reaction that the general population has to people with mental illness. Self-stigma is the prejudice which people with mental illness turn against themselves5. Although stigmatizing attitudes are not limited to mental illness, the public seems to disapprove persons with psychiatric disabilities significantly more than persons with related conditions such as physical illness6. Even well-trained professionals from most mental health disciplines subscribe to stereotypes about mental illness7. Also, physicians seem to decidedly reluctant to address depression, a significant cause of morbidity and mortality that disproportionately affects them8. In such contexts, the purpose of this study was to assess the mental health status of physicians working in medical college hospitals.

Materials and methods

This was a cross sectional study. Study population consisted of physicians working in nine different medical colleges of Dhaka city. The establishments were MARKS Medical College, Delta Medical College, Greenlife Medical College, Dhaka Central International Medical College, Popular Medical College Hospital, Northern International Medical College, Shaheed Monsur Ali Medical College, Shahabuddin Medical College and Uttara Adhunik Medical College. This study was conducted during a period of...
12 months from January to December 2015. A total of 210 physicians were selected fulfilling the inclusion and exclusion criteria. Physicians from the clinical section of medical colleges were selected. Physicians from academic section and honorary physicians were excluded. Sampling and study place were according to convenient sampling technique. Their mental health was assessed using self-administered questionnaire developed from Four-Dimensional Symptom Questionnaire (4DSQ), a scale developed to determine depression, distress, anxiety and somatization using self-administered questionnaire. Socioeconomic and occupational information were also collected. Categorization of data were done where it was needed. SPSS were used for the statistical purposes.

Results
The results showed that the age of majority of the respondents were below 30 (81.9%). Study population comprised of 115 male and 95 female respondents. Majority of the respondents were Muslims (91%) and unmarried (68%), which was expected considering their young age. Nearly half (52.4%) of the respondent’s monthly expenditure were ranged between 10000 taka to 30000 taka.

Table 1: Distribution of the respondents according to socio-economic characteristics (n=210)

| Characteristics          | Number | Percentage |
|--------------------------|--------|------------|
| **Age (Years)**          |        |            |
| <30                      | 172    | 81.9       |
| ≥30                      | 38     | 18.1       |
| **Sex**                  |        |            |
| Male                     | 115    | 54.8       |
| Female                   | 95     | 45.2       |
| **Religion**             |        |            |
| Muslim                   | 191    | 91         |
| Non-Muslim               | 19     | 9          |
| **Marital status**       |        |            |
| Unmarried                | 143    | 68         |
| Married                  | 67     | 32         |
| **Monthly expenditure**  |        |            |
| ≤10000 taka              | 74     | 35.2       |
| >10000 taka - 30000 taka | 110    | 52.4       |
| >30000 taka              | 26     | 12.4       |

Occupational characteristics revealed that most of the respondents were interns (61.9%). Nearly half were satisfied with their salary (45%) and never experienced conflicts with their colleagues (53.8%). A good number of respondents occasionally to usually experienced high workload (77.1%) and lack of job recognition (64.3%).

Table 2: Distribution of the respondents according to occupational characteristics (n=210)

| Characteristics          | Number | Percentage |
|--------------------------|--------|------------|
| **Designated post**      |        |            |
| Interns                  | 130    | 61.9       |
| Permanent physicians     | 80     | 38.1       |
| **Salary dissatisfaction**|       |            |
| Never                    | 45     | 21.4       |
| Occasionally             | 65     | 31         |
| Often                    | 39     | 18.5       |
| usually                  | 23     | 11         |
| Very often               | 38     | 18.1       |
| **Conflict with coworkers**|       |            |
| Never                    | 113    | 53.8       |
| Occasionally             | 75     | 35.7       |
| Often                    | 11     | 5.2        |
| usually                  | 5      | 2.4        |
| Very often               | 6      | 2.9        |
| **Experiencing high workload**|      |            |
| Never                    | 26     | 12.4       |
| Occasionally             | 63     | 30         |
| Often                    | 56     | 26.6       |
| usually                  | 43     | 20.5       |
| Very often               | 22     | 10.5       |
| **Lack of job recognition**|      |            |
| Never                    | 50     | 23.8       |
| Occasionally             | 55     | 26.2       |
| Often                    | 49     | 23.3       |
| usually                  | 31     | 14.8       |
| Very often               | 25     | 11.9       |

Mental health status of the respondents was measured by using the 4DSQ, which is used to assess the level of distress, depression, anxiety and somatization. It measured the conditions as absent, moderately elevated and strongly elevated by summing up the scores from the answers. Mental health status showed that distress was highest (20%), followed by anxiety (15.7%) and depression (15.2%). Somatization were lowest (8.6%) among the respondents.

Table 3: Mental health status of the respondents (n=210)

| Characteristics          | Number | Percentage |
|--------------------------|--------|------------|
| **Level of distress**    |        |            |
| Strongly elevated        | 9      | 4.3        |
| Moderately elevated      | 33     | 15.7       |
| No elevation             | 168    | 80         |
| **Level of anxiety**     |        |            |
| Strongly elevated        | 12     | 5.7        |
| Moderately elevated      | 21     | 10         |
| No elevation             | 177    | 84.3       |
| **Level of depression**  |        |            |
| Strongly elevated        | 15     | 7.1        |
| Moderately elevated      | 17     | 8.1        |
| No elevation             | 178    | 84.8       |
| **Level of somatization**|        |            |
| Strongly elevated        | 4      | 1.9        |
| Moderately elevated      | 16     | 6.7        |
| No elevation             | 192    | 91.4       |
Discussion

The 4DSQ was used to assess the mental health status of the respondents. The scale consists of 50 items which is used to assess the level of depression, distress, anxiety and somatization. The answer for each item ranges from 0 to 2. The scores of the items are summed up for determining any of the before mentioned conditions. One item can be used to determine one condition only. Mental health status was found mostly in healthy state. However, this study was conducted on medical college hospitals and the respondents were mainly interns who did not go through as much stressful conditions as the permanent physicians due to their short tenure as physicians. Another study in 2016 involving physicians and other hospital staff yielded rather alarming results as 86.2% of the physicians were found moderately stressful 11.7% were found very stressful in their work, which in total almost consists of the entire doctor population. A study during COVID-19 pandemic showed that about half of the responding otolaryngology physicians were suffering from Anxiety, distress, burnout, and depression in 167 (47.9%), 210 (60.2%), 76 (21.8%), and 37 (10.6%) respectively. The variations of the results in different studies could be attributed to factors such as age, designated post, sex, experience, emergency situation, support from authority which differs from institute to institute. Moreover, the emergence of COVID-19 affected the mental health status of the health personnel. As a result, recent study showed worse outcomes compared to this study although they were both performed in medical college of Dhaka city. Stigma about mental health also plays a major role in revealing the real state. Stigma leads a mentally ill person to cope by concealing their illness, which may ultimately result in suicidal tendencies.

Conclusion

To find out the mental health status of physicians working in medical college hospitals and its association with their self-reported work ability, this cross-sectional study was conducted. The results showed the mental health status of the physicians. Majority of the physicians did not suffer from distress, depression, anxiety and somatization. Among the four conditions of mental health, distress was most common. The number of physicians with depression and anxiety was almost same. Somatization was least common. As mental health assessment of physicians are still relatively low, further studies are needed to assess the situation properly.

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