Psychiatric Comorbidity in Droup Out from Educational Attainment Attending Tertiary Care Hospital

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Abstract

Background: Studies of the impact of mental disorders on educational attainment are rare. Mental disorders, those beginning in childhood or adolescence may increase the risk of early droup out from education. The latter has been shown to have adverse life-course consequences on individuals such as greater demand on social welfare entitlements.

Objective: To find out socio-demographic status and psychiatric comorbidity profile of patients with education droup out.

Design: Descriptive cross sectional study.

Setting: All cases were selected from patients attending at Comilla Medical College hospital and Tertiary Care hospitals in Comilla City from August 2014 to April 2015.

Methods: A total of 50 droup out patients aged 10 to 30 years who fullfiled the enrolment criteria included in the study. A semi structural questionnaire, DSM-5 and ICD-10 have been used as research instruments. The Frequency tables, summary tables and appropriate graphs were prepared to describe the population characteristics and study finding.

Result: Total 62 participants were approach for interview. Considering inclusion and exclusion criteria finally 50 patients were selected for the study. In this study, anxiety disorders was 8%, behaviour/impulse control disorders was 8%, mood disorders was 16%, substance use disorders was 24%, schizophrenia spectrum disorders was 12% and composite psychiatric disorders was 32%. Among droup out patient's non-completion of primary education was 14%, non-completion of secondary education was 20%, non-completion of higher secondary education was 24%, not entry to tertiary education was 12% and non-completion of tertiary education was 30%. Among behaviour.impulse control disorders non-completion of primary education was 6%, substance use disorders non-completion of higher secondary education was 10%, mood disorder both non-completion of higher secondary education and non-completion of tertiary education were 6%. Among composite psychiatric disorders non-completion of secondary education, non-completion of higher secondary education and non-completion of tertiary education were 8%, 6% and 12% respectively. Socioeconomic status represented the homogenous result in this study. Most of the psychiatric morbidity was male (62%) and age group of 18-24 years (54%).

Conclusion: Onset of mental disorder and subsequent droup out from education that was found in this study. Further multi-centered prospective and population-based studies should be desined to fint out the exact situation.

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Key words: Dropout, defense mechanism, vulnerable temperament and personality, adaptive function, childhood adversities, educational attainment.

Limitation of the study: This study was done in a single setting and by the same interviewer. So, there may be a chance of biasness. This study did not represent the natural scenario of Bangladesh due to its selective and small sample size.

Introduction

Studies of mental disorders may underestimate the long-term adverse consequences of such disorders owing to a dominant focus on disability contemporaneous with the acute phases of disorder. Of particular concern is the impact of mental disorders on educational attainment, an important determinant of adult life chances in both high-income and low- and middle-income families.1

Early-onset mental disorders, those beginning in childhood or adolescence may increase the risk of early termination of education. The latter has been shown to have adverse life-course consequences on individuals, such as poor health, as well as societal consequences, such as greater demand on social welfare entitlements. Early termination of education also affects the standard of living, social mobility and upbringing of citizenship. Because of these connections between mental disorders and educational attainment, mental health should be a focus of concern in the discussion of policy on education and workforce development.2,5

Studies of mental disorders and subsequent educational attainment have been limited to the USA and New Zealand. The mental disorders and subsequent early termination of education affect at all levels from primary through tertiary education.11

Material and Methods

This was a descriptive type of cross sectional study conducted in the Comilla Medical College Hospital and Private Chamber of Comilla City. Duration of study was 6 month. Of 50 educational dropout patients who fulfilled the enrolment criteria (normal intelligence, not diagnosed as epilepsy) included in the study. Data were collected between August 2014 to April 2015. The study was a national probability sample of 50 patients aged 10 to 30 years living in households or in hostel accommodation. All racial and ethnic groups were represented. Semi structural questionnaire, WMH CIDI, DSM-5 and ICD-10 were were used for assessing mental disorders and collecting detailed information about the risk factors, psychiatric comorbidities, impairment, consequences sociodemographic and diagnostic information, as well as an account of educational dropout during the interviews. Following categories of mental disorders were considered: anxiety disorders, mood disorders, behaviour or impulse control disorders, substance use disorders and schizophrenia spectrum disorder. All collected data would be checked and verified thoroughly for consistency as well as for completeness. Finally appropriate statistical tests were done to see the trends of the data. Frequency tables, summary tables and appropriate graphs would be prepared to describe the population characteristics and study finding.

Results

Total 62 participants were approach for interview. Considering inclusion and exclusion criteria finally 50 patients were selected for the study. In this study, most of the psychiatric morbidity presents in male (62%) and age group of 18-24 years (54%). Age range was 9-30 years.

Figure-1: Broad category of psychiatric disorders among dropout patients
Table 1: Psychiatric disorders among drop out patients (n=50)

| Psychiatric disorders                      | n (%) |
|--------------------------------------------|-------|
| OCD                                        | 2 (4%)|
| Adult or childhood separation anxiety      | 1 (2%)|
| Adjustment disorder                        | 1 (2%)|
| Bipolar disorder                           | 4 (8%)|
| Any mood disorder                          | 4 (8%)|
| Conduct disorder                           | 1 (2%)|
| Oppositional defiant disorder              | 2 (4%)|
| Any Impulse control disorder               | 1 (2%)|
| Schizophrenia                              | 5 (10%)|
| Schizoaffective disorder                   | 1 (2%)|
| Cannabis use disorder                      | 3 (6%)|
| Alcohole use disorder                      | 4 (8%)|
| Yaba or CNS stimulant                      | 1 (2%)|
| Poly substance use disorder                | 3 (6%)|
| Any substance use disorder                 | 1 (2%)|
| Composite psychiatric disorders            | 16 (32%)|

Table 2: Category of specific psychiatric disorder and educational drop out (n=50)

| Disorders                        | Educational drop out | n (%) |
|----------------------------------|----------------------|-------|
| Anxiety disorders                | non-completion of secondary education | 2 (4%) |
|                                  | non-completion of tertiary education | 2 (4%) |
| mood disorders                   | non-completion of primary education | 1 (2%) |
|                                  | non-completion of higher secondary education | 3 (6%) |
|                                  | not entry to tertiary education | 1 (2%) |
|                                  | non-completion of tertiary education | 3 (6%) |
| substance use disorder           | non-completion of primary education | 1 (2%) |
|                                  | non-completion of secondary education | 1 (2%) |
|                                  | non-completion of higher secondary education | 5 (10%) |
|                                  | not entry to tertiary education | 2 (4%) |
|                                  | non-completion of tertiary education | 2 (4%) |

Table 3: Distribution of respondents by sociodemographic characteristics (n=50)

| Characteristics | Respondents n (%) |
|-----------------|-------------------|
| Age (in years)  |                   |
| <18             | 14 (28%)           |
| 18-24           | 27 (54%)           |
| >24-30          | 9 (18%)            |
| Sex             |                   |
| Male            | 31 (62%)           |
| Female          | 19 (38%)           |
| Religion        |                   |
| Islam           | 40 (80%)           |
| Hindu           | 9 (18%)            |
| Buddis          | 1 (2%)             |
| Educational status |                 |
| Below PSC       | 7 (14%)            |
| PSC             | 9 (18%)            |
| SSC             | 16 (32%)           |
| HSC             | 18 (36%)           |
| Occupation      |                   |
| Unemployed      | 25 (50%)           |
| Farmer          | 5 (10%)            |
| House wife      | 4 (8%)             |
| Business        | 6 (12%)            |
| Others          | 10 (20%)           |
| Marital statu   |                   |
| Unmarried       | 30 (60%)           |
| Married         | 15 (30%)           |
| Divorce         | 5 (10%)            |
| Family pattern  |                   |
| Single          | 40 (80%)           |
| Joint           | 10 (20%)           |
| Habitat         |                   |
| Rural           | 29 (58%)           |
| Semiurban       | 8 (16%)            |
| Urban           | 13 (26%)           |
| Socioeconomical status |  |
| Low class       | 18 (36%)           |
| Middle class    | 26 (52%)           |
| High class      | 6 (12%)            |

Discussion

Educational drop out is not a disease, rather it is the result of a mental difficulties such as substance use disorders, behavior/impulse control disorders, mood disorders, anxiety disorders and schizophrenia spectrum disorders. Based on some research evidence as well as consensus, common associated cause of educational drop out is often
identified and the consequences become evident by educational difficulties and living skills.11,12

It was important to understand and focus probable mental disorders of educational dropout persons. Reviewing different literature on educational dropout, we tried to understand the distress of huge burden of psychiatric problem on persons with educational dropout. Considerable evidence indicates that substance use disorder and behavior/impulse control disorders are more frequent among dropout persons than other disorders. We observe psychiatric disorders among persons with educational dropout. Socioeconomic status represented the homogenous result in this study. This result is consistent with the previous study. 11

We found different specific types of anxiety, mood, behaviour/impulse control disorders, substance use disorders and schizophrenia spectrum disorders. Of 50 educational dropout patients OCD was 4%, adult or childhood separation anxiety was 2%, adjustment disorder was 2%, bipolar mood disorder was 8%, any mood disorder was 8%, conduct disorder was 2%, oppositional defiant disorder was 4%, any impulse control disorder was 2%, schizophrenia was 10%, schizoaffective disorder was 2%, cannabis use disorder was 6%, alcohol use disorder was 8%, yaba s or CNS stimulant was 2%, poly substance use disorder was 6%, any substance use disorder was 2% and composite psychiatric disorder was 32%. All of these have higher incidence among person with educational dropout.5

The present study showed that alcohol use disorder, cannabis use disorder, bipolar mood disorder and schizophrenia were more common disorders among persons with educational dropout. Among dropout patient’s non-completion of primary education, non-completion of secondary education, non-completion of higher secondary education, not entry to tertiary education and non-completion of tertiary education were 14%, 20% 24%, 12% and 30% respectively. In case of anxiety and mood disorders, large number of patient inter to tertiary education. We found that the largest group of patients’ dropout in composite psychiatric disorders, substance use disorders, schizophrenia, mood disorders and behavior/impulse control. These studies found significant associations between mental disorders and subsequent early dropout from education at all levels from primary through tertiary education. These finding also consistent with the previous study.5

In Bangladesh, generally substance use disorder and behavior/impulse control disorders are the commonest cause of educational dropout. We found that the largest group of patient’s attend outpatient and inpatient department of tertiary level of this zone. This may be due to protective factors of Bangladesh theses may have reflected in the present study. The findings emphasize the necessity to evaluate psychiatric problems in persons with educational dropout. We suggest that assessment of the vulnerable temperament and personality, mood and emotional problem can make the persons proper function in future life.5

We recommended making awareness among family members, health workers, agencies who work for psychiatric disorders, pediatricians, neurologist, psychologist, social workers, school teachers, psychiatric nurses. They will work together as a multidisciplinary team for children, adolescents and adults on the management of psychiatric disorders.6,7,8

The findings emphasize the necessity to evaluate psychiatric problems in persons with educational dropout for early diagnosis and proper management to improve the quality of life of those persons. Early diagnosis and referral to a psychiatrist or psychologist for treatment of the underlying psychopathology with individual and family therapy is the mainstay of successful management of educational dropout.10,11,12

Conclusion
Onset of mental disorder and subsequent dropout from education that was found in this study. Further multi-centered prospective and population-based studies should be desired to find out the exact situation.
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