Risk factors for psychiatric morbidity among bank workers in a northern city of Nigeria

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Objective. To determine the prevalence of psychiatric morbidity in bank workers in Ilorin, Nigeria, and the sociodemographic and work-related factors that may be associated with poor psychological health.

Method. This cross-sectional two-staged study conducted between March and July 1999 involved screening using the 30-item General Health Questionnaire (GHQ-30), a sociodemographic questionnaire, the Present State Examination (PSE) schedule and diagnostic criteria from the 10th edition of the International Classification of Diseases (ICD-10).

Data source. Bank workers in the three local government areas (west, east, and south) of Ilorin, a city in the middle belt of Nigeria.

Data analysis. Data were analysed using EpiInfo version 6.0. Frequency distribution, cross tabulation, and chi-square analyses were obtained. The level of statistical significance was set at 5%.

Result. Four hundred and thirty workers responded satisfactorily to the questionnaires (response rate 76%); 77 respondents (18%) were GHQ-positive and therefore had psychiatric morbidity. There was a significant association between psychiatric morbidity and age, gender, number of children, belonging to a social club, workload, promotion, and job status.

Conclusion. The implications of these findings are discussed and possible medical and administrative interventions advocated.

Various factors such as age, gender, social support, marriage, separation, promotion or demotion, poor remuneration, work pressure, family problems, unfulfilled social expectations, and job insecurity have long been identified as possible causes of psychological disturbance. Stress indicators identified among occupational groups include somatic complaints, sleep disturbances, anxiety, neurasthenia, agoraphobia, dysthymia, depression, schizophrenia, and suicide attempts.1-19

The work environment, organisational conditions, workers’ capacities, job description and needs, social and work conditions, and culture may interact with workers’ perceptions and experience to influence physical and psychological health.14 Psychological problems at work can manifest as poor work performance, absenteeism, excessive tobacco and alcohol consumption, poor lifestyle, poor interpersonal relations, and impaired social functions.14,20,22

In Nigeria it has become increasingly difficult for the majority of people to secure sustainable employment; many employers are continually reorganising and restructuring because of the dwindling economy and unstable political environment. This has particularly affected the banking industry in Nigeria.

The prevalence of mental ill health has been estimated at between 10% and 18% in Nigeria and this is consistent with estimates from other developing countries.33 This might be due to the prevailing sociopolitical and economic problems that pervade many African countries. This view is supported by the work of German,34 who reported a rapid increase in the number of people seeking assistance for mental ill health in African countries as a result of increasing sociopolitical turmoil. In this study, we attempted to determine the rate of psychiatric morbidity in bank workers in Nigeria and to identify factors that may be associated with this morbidity.
Materials and methods

The study was conducted among bank workers in Ilorin, Nigeria, between March and July 1999. The town of Ilorin was upgraded from a provincial headquarter to the state capital following the creation of Kwara State in 1967. The town covers about 690 km² and comprises three local government areas (LGAs) (west, east, and south) peopled almost exclusively by the Yoruba tribe. The population totals 566,000. The lingua franca is Yoruba. Banking is one of the major industries in the town and there are 13 commercial banks and one branch of the Apex (Central) bank. The staff complement of these banks ranges from 20 to 200, with the highest staff complement at the Central bank. An average bank worker works a minimum of 11 hours per day (from 7h30 to 18h30), and a minimum of 6 days per week (Monday to Saturday). Thus, an average bank worker works long hours, is likely to be overworked and emotionally stressed, and is at high risk for psychiatric morbidity.

Subjects for the study were invited to participate and were required to provide written, informed consent. The majority were willing to participate because they felt that it provided an opportunity to get medical advice on work-related and personal problems, and to express opinions on non-conducive work-related conditions. Confidentiality was assured. Five hundred and sixty-three bank employees consented to participate. Previous history of psychiatric illness was an excluding factor.

The study was conducted in two stages: the first stage involved screening for psychiatric morbidity using the 30-item General Health Questionnaire (GHQ-30). The GHQ-30 is a screening instrument to detect current, diagnosable psychiatric disorders and is intended for use in general practice and community settings. The GHQ scoring method (0–0–1–1) was adopted and a cutoff point of 4 was used in accordance with previous validation studies. Each questionnaire booklet was numbered serially (from 001 to 1000), and the name/bank of every subject was written against the corresponding number on the questionnaire booklet on a ‘tracer sheet’.

This facilitated contact tracing of subjects for the second stage of the study. In the second stage subjects were interviewed using the Present State Examination (PSE) schedule and diagnostic criteria from the 10th edition of the International Classification of Diseases (ICD-10), as previously used in this environment. Psychiatric diagnoses were assigned.

Results

Results of the first stage of the study are presented. The response rate was 76% (430 of 563 subjects). Seventy-seven subjects (18%) had a score of 4 or more on the GHQ (median 5.0, range 4–20) and were therefore assessed to have poor psychological health.

Sociodemographic characteristics and morbidity (Table I)

Age

The majority of respondents (N = 271, 67.4%) were between 30 and 44 years of age, with 70% of respondents with psychiatric morbidity falling into this age group. Age showed a significant
positive association with psychiatric morbidity (χ² = 3.65, df = 5, p < 0.01). Two hundred and ninety-four subjects (71%) were males and 123 (29%) were females. Sixty-three male respondents (21%) had poor psychological health compared with 13 (11%) female respondents (χ² = 6.86, df = 1, p < 0.01).

Marital and family status

The majority of respondents were married (N = 342, 80%) and had 3 children (N = 266, 65%). Fifty-five (13%) were single, and 20 (5%) widowed, separated or divorced. Sixty-six married respondents (19%) had psychiatric morbidity compared with 8 single respondents (14.5%), and 2 (10%) who were widowed, separated or divorced. Respondents with 2 or fewer children (N = 35, 24%) were significantly more likely to have psychiatric morbidity than respondents with 3 or more children (N = 38, 14%) (χ² = 6.07, df = 2, p < 0.0138).

Educational status

Twenty-eight respondents (7%) had secondary education or equivalent, 292 (72%) had higher education, and 85 (21%) had an additional qualification. Among respondents with at least secondary education or equivalent, 2 (7%) had psychiatric morbidity compared with 55 (19%) of those with higher education, and 20 (24%) of those with additional qualifications (e.g. postgraduate diploma, masters degree in business administration (MBA), Fellow of the Chartered Institute of Nigeria (ICAN)). These differences were not statistically significant.

Religious and social factors

Three hundred and six respondents (80%) belonged to a religious group, while 77 (20%) did not. Affiliation to a religious group was not significantly associated with psychiatric morbidity. Sixty (20%) of those who belonged to a religious group had poor psychological health compared with 12 (16%) who did not belong to a religious group. However, 40 (24%) of the 168 respondents (43%) who did not belong to a social club had psychiatric morbidity, compared with 35 (16%) of the 224 respondents (57%) who did belong to a social club (Yates corrected χ² = 3.64, df = 1, p < 0.05). Not belonging to a social club was therefore more likely to be associated with psychiatric morbidity.

Employment characteristics and morbidity (Table II)

One hundred and eighty-two respondents (44%) had worked 10 years or less, while 229 (56%) had worked more than 10 years. Forty-one (23%) of those in the former category had poor psychological health compared with 32 (14%) in the latter category.

<table>
<thead>
<tr>
<th>Table II. Psychosocial factors at work of respondents (N (%) )</th>
<th>GHQ negative respondents (N = 353)</th>
<th>GHQ positive respondents (N = 77)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work experience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 years or less (N = 182)</td>
<td>141 (77.5)</td>
<td>41 (22.5)</td>
</tr>
<tr>
<td>10 years or more (N = 229)</td>
<td>197 (86)</td>
<td>3 (14)</td>
</tr>
<tr>
<td>Work overtime</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Works extra hours (N = 384)</td>
<td>318 (83)</td>
<td>66 (17)</td>
</tr>
<tr>
<td>Does not work extra hours (N = 22)</td>
<td>13 (59)</td>
<td>9 (41)</td>
</tr>
<tr>
<td>Desirability of overtime</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desirable (N = 93)</td>
<td>91 (98)</td>
<td>2 (2)†</td>
</tr>
<tr>
<td>Not desirable (N = 289)</td>
<td>225 (78)</td>
<td>64 (22)</td>
</tr>
<tr>
<td>Competence at job</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Above average (N = 92)</td>
<td>74 (80)</td>
<td>18 (20)‡</td>
</tr>
<tr>
<td>Appropriate (N = 262)</td>
<td>223 (85)</td>
<td>39 (15)</td>
</tr>
<tr>
<td>Below average (N = 41)</td>
<td>28 (68)</td>
<td>13 (32)</td>
</tr>
<tr>
<td>Regularity of promotion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last promotion &lt; 5 years ago (N = 297)</td>
<td>238 (80)</td>
<td>59 (20)</td>
</tr>
<tr>
<td>Last promotion &gt; 5 years ago (N = 75)</td>
<td>70 (93)</td>
<td>5 (7)†</td>
</tr>
<tr>
<td>Promotion coming as expected (N = 162)</td>
<td>147 (91)</td>
<td>15 (9)</td>
</tr>
<tr>
<td>Promotion not coming as expected (N = 214)</td>
<td>156 (73)</td>
<td>58 (27)‡</td>
</tr>
<tr>
<td>Job status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior level (N = 59)</td>
<td>49 (83)</td>
<td>10 (17)†</td>
</tr>
<tr>
<td>Middle level (N = 186)</td>
<td>161 (87)</td>
<td>25 (14)</td>
</tr>
<tr>
<td>Junior level (N = 160)</td>
<td>118 (74)</td>
<td>42 (26)</td>
</tr>
</tbody>
</table>

* p < 0.05.
† p < 0.01.
‡ p < 0.001.
A study of psychiatric morbidity conducted at the medical outpatient department of the University of Ilorin Teaching Hospital,28 69% of the population sample had psychiatric morbidity. Factors thought to be contributory to psychological distress included the unstable political/economic conditions of the country and the attendant high level of 'tension' among the general populace. A similar study done at the general outpatient clinic (GOP) of the University College Hospital, Ibadan found a lower rate of psychiatric morbidity of 43.3% which was significantly associated with sex, age, employment status, education, and marital status.

Sociodemographic factors

This study also found significantly higher morbidity among respondents with smaller families (i.e. two or fewer children). This is surprising because intuitively one would expect higher morbidity among those with three or more children, partly because of the increased demands that go hand in hand with a larger family. Previous studies17,49 have reported more career disruption and psychiatric disorders in women who have children. However, one explanation may be that respondents with fewer children may be in the early stages of marriage. These women may have little experience in coping with both household and work demands, resulting in a greater susceptibility to psychological ill health. Having to combine care of children and family with work demands may be stressful to women especially in the event of home-work conflict.11

The finding of significantly higher morbidity among respondents in the under-30 and 30 - 44-year age categories is partially consistent with previous studies.20 Respondents in the 30 - 49-year age group are in the middle stage of their careers, which may be in transition. This is also a time of marriage and raising children, which in themselves may be problem-laden. In the under-30 age group respondents may not have the experience to cope with stressful situations, although intuitively one would have expected

Discussion

Prevalence of psychiatric morbidity

This study found an 18% rate of psychiatric morbidity in bank employees. This prevalence is lower than the 27 - 80% previously reported in studies of occupational groups that have used similar instruments (i.e. the GHQ).19,39,46-48 Extra-organisational factors might be responsible for these wide variations in prevalence observed across studies. For instance, the higher prevalence rates obtained in studies in Lagos19,20 might be due to the increasingly stressful conditions that usually characterise urban cities. Several social pressures ranging from problems of accommodation and the escalating cost of living, transportation problems with incessant traffic jams, lack of social security with a high incidence of armed robbery, air and noise pollution, to overcrowding could make workers in Lagos more vulnerable than those living in less urbanised towns such as Ilorin.
this group to have comparatively fewer social and family responsibilities.

The study observed significantly higher morbidity in male respondents, a finding similar to that of previous studies. This finding arguably suggests that male workers are more prone to developing psychiatric disorders as they are likely to be more competitive in their work disposition. Another possible explanation is the African cultural tradition of bestowing certain responsibilities or social roles on males, for example the role of headship of the family. Thus, the impact of job loss as a result of continual restructuring that characterizes the banking sector in recent times, may increase vulnerability to stress disorders among male workers. It has been reported that men in developing societies may be more exposed to stresses resulting from rapid social change than are women. However, other studies have found higher morbidity in women than men. This may be attributed to the dual roles of women in society, namely coping with the burden of the household while at the same time dealing with work and office schedules.

Work-related factors

In this study respondents who reported light workloads had the highest morbidity in contrast to those who reported heavy workloads. The lowest rate of morbidity was found among those who reported acceptable workloads. One would have expected the opposite to be true but it may well be that those respondents who reported heavy workloads have adapted better to work conditions, resulting in less deleterious mental health effects. The contribution of excessive work to mental disturbance has been reported elsewhere. Quantitative work overload has been found to be positively associated with psychological and physical health problems and researchers have suggested that qualitative and quantitative overload may produce different symptoms of psychological distress.

Moreover, contrary to previous reports, significantly lower morbidity was observed among respondents who reported working overtime. The financial benefits accrued by those working overtime in the banking sector might be contributory. Low-ranking employees were observed to have the highest rate of morbidity, while the lowest rate of morbidity was observed among middle-ranking employees. This finding is in contrast to previous reports. It may be hypothesized that junior employees adjust more easily to various organizational challenges and have fewer concerns relating to promotion and achievement.

Conclusion and recommendations

The study examined the general rate of psychiatric morbidity in a sample of bank employees, independent of specific psychiatric diagnosis. The 18% prevalence of psychiatric morbidity and the significant associations between psychiatric morbidity and sociodemographic (age, gender, number of children, membership of a social club), and work-related factors (job status, workload, work hours) suggests a need to mobilise efforts towards preventing or minimising the occurrence of psychological ill health in this sector. Bank employees and management staff need to be trained properly in the identification of psychosocial factors that may be detrimental to the wellbeing of workers.

The establishment of organizational-based daycare facilities may help to mitigate the higher morbidity in respondents with children, especially women. This may alleviate some of worries associated with childcare and may reduce emotional tension and psychiatric illness.

Corporate health promotion programmes (to be funded and implemented jointly by corporations, communities, local, state, and federal governments as well as non-governmental organisations) with an emphasis on educational seminars and stress management workshops, may be useful.

Modification of work intensity by adjusting work schedules, determining appropriate break and rest periods, possibly in consultation with employees, may further reduce work tension, and reduce psychiatric morbidity. Periodic social gatherings or meetings between management and employees should also be encouraged to allow adequate and prompt dissemination of information on work processes, organisational policy, and technological changes, as well as direct ventilation of employees’ problems. In the researcher’s view these measures may reduce the morbidity associated with ‘change’ within the organisation.

References
