Characteristics of in-patients without psychosis

Implications for service provision and the recognition of personality disorder

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In a study of a population over 13 months, ratings were made from medical records of adults who were admitted to short-stay, non-secure (acute) psychiatric beds. Of 197 patients, 126 fulfilled DSM-IV criteria for specified psychoses; 57 of the 71 remaining non-psychotic patients had a history of repeated self-harm, or threats of self-harm, and/or a substance-related disorder. Both these behaviours can be a manifestation of, and be associated with, personality disorder. It was considered that personality disorder made an important contribution to the psychopathology in the non-psychotic patients. The findings suggest a need to evaluate the alternative to in-patient care in a standard acute unit for such patients.

The objective of the present study was to investigate characteristics of in-patients without psychosis, to consider the role of personality disorder in such patients, and to assist the planning of services. The management of some non-psychotic patients in standard in-patient units is often problematic because of aggressive and other anti-social behaviour, which can be manifestations of personality disorder. 'Psychoses' are currently defined as specified DSM-IV axis I disorders which can lead to severe incapacity and are often associated with delusions and/or hallucinations. The inadequate availability of psychiatric in-patient facilities in the UK invites an evaluation of the use of relatively expensive and scarce in-patient care.

A personality disorder consists of maladaptive patterns of motivated behaviour that are usually evident over a period of at least several years and are not considered to be part of other mental disorders (Dowson, 1995a). Patients with personality disorders are associated with many demands on health care provision, including in-patient care (Merikagas & Weissman, 1986).

Adult psychiatric acute admissions to relatively short-stay, non-secure beds, from a part of the Cambridge Health District, were studied during a 13-month period. Patients were identified with or without a history of the following DSM-IV psychoses: schizophrenia and other psychotic disorders (except a history of psychotic disorder due to a general medical condition or substance-induced psychotic disorder, which did not exclude the patient from the non-psychotic group); bipolar disorders; and depressive disorders with psychotic features (with delusions and/or hallucinations).

The study

In-patients of a psychiatric service for adults aged 16-65, from a geographically defined sector with a UK urban population of 52,000, were prospectively studied during a 13-month period. These patients included those of no fixed abode who were referred to the service from within the sector. The majority of patients were admitted to a 22-bed acute unit which catered for the range of disorders. Also, a minority of patients were admitted to specialised acute in-patient facilities for detoxification in relation to substance-related disorders or for the management of eating disorders.

Medical records provided the data for clinical ratings, based on DSM-IV, in relation to specified mental disorders. Consensus ratings were made by two of the authors, an experienced psychiatrist and an experienced graduate research assistant. The ratings were applied to each patient's adult lifetime, from the age of 16 to the end of the index admission or, if the index admission exceeded 26 weeks, ratings were applied to the period up to 26 weeks after the start of the index admission. (The index...
admission for each patient was the first period of in-patient management in an acute bed, at least part of which occurred during the study period of 13 months.)

In relation to the evaluation of self-harm, 'recurrent' was defined as two or more episodes. However, more than one incident during any 24-hour period was considered to be just one episode.

Statistical analyses were carried out with the SPSS/PC programme (Norusis, 1988; Dowson, 1992) using a significance level of $p < 0.05$. Chi-square analyses were applied to categorical variables, except where expected values were $\leq 5$, when the Fisher exact test was used.

Findings

The sector population consisted of 52,000 residents of part of the City of Cambridge, UK of whom 35,000 were between the ages of 16 and 65. The sector populations in various age bands according to the 1991 National Census Profile were: 6% (15–19), 9.9% (20–24), 24.5% (25–39), 21.2% (40–59) and 4.8% (60–64). The ethnic group was classified in the Census as 'White' for at least part of which occurred during the study period of 13 months.)

Sixty-four of the 71 non-psychotic patients had at least one DSM-IV axis I mental disorder, other than a substance-related disorder, within the 12 weeks prior to the start of the index admission. These involved mood disorder (mainly a depressive disorder) in 61 patients, of which 28 also had a substance-related disorder, while 13 had a recent history of an axis I disorder other than a mood disorder or a substance-related disorder.

Comment

Many studies have noted a high prevalence of personality disorder among in-patients with a variety of axis I mental disorders (Cutting et al, 1986) and in the present study, 80% of the non-psychotic patients had a history of repeated self-harm and/or a substance-related disorder, while 13 had a recent history of an axis I disorder other than a mood disorder or a substance-related disorder.

It is likely that the present findings, for a service which has frequent unavailability of admission beds, reflect service patterns in similar urban areas. Many non-psychotic in-patients present management problems because of substance mis-
Table 1. Characteristics of 197 patients aged 16-65 who received in-patient psychiatric management during a 13-month period

| Gender | Psychotic (n=126) | Non-psychotic (n=71) | Significance |
|--------|------------------|-----------------------|--------------|
| Male   | 65               | 45                    |              |
| Female | 61               | 26                    |              |
| In-patient days during study period | **776 (76% of total)** | **2450 (24% of total)** |              |
| Mean of in-patient days/patient during 26 weeks after start of index admission | 56.0 (s.e.m 4.4) | 28.3 (s.e.m 4.6) | *f=4.1*
| Compulsory detention during index admission | 57 (45.2%) | 10 (14.1%) | *χ²=19.6*
| History of repeated self-harm behaviour | | | |
| Any    | 12 (9.5%)        | 34 (47.8%)            | *χ²=37.3*
| Overdose | 12 (9.5%)        | 23 (32.4%)            | *χ²=16.3*
| Self-mutilation | 12 (9.5%)        | 11 (15.5%)            | NS          |
| Self-harm (other) | 1 (0.8%)        | 9 (12.7%)             | (Fisher)     |
| Threats of self-harm | 7 (5.6%)        | 11 (15.5%)            | *χ²=5.4*
| History of substance-related disorder | | | |
| Any    | 30 (23.8%)       | 38 (53.5%)            | *χ²=17.7*
| Alcohol misuse | 15 (11.9%)       | 32 (45.1%)            | *χ²=27.5*
| Illicit drug misuse | 18 (14.3%)      | 18 (23.3%)            | *χ²=3.7*
| IV Drug use | 3 (2.4%)        | 5 (7.0%)              | NS          |
| Transferred to start of index admission from General hospital facilities | 15 (11.9%) | 18 (25.4%) | *χ²=5.9*
| Police custody | 14 (11.1%) | 7 (9.9%) | NS          |
| Accommodation prior to index admission | | | |
| No fixed abode3 | 11 (8.7%) | 8 (11.3%) | NS          |
| Hostel | 41 (32.5%) | 8 (11.3%)            | *χ²=11.0*
| Rented housing | 53 (42.1%) | 48 (67.6%)            | *χ²=11.8*
| Other | 21 (16.7%) | 7 (9.9%)              | NS          |

1. In-patient days in relation to acute (i.e. short-stay, non-secure) in-patient facilities; these did not include the in-patient care for two patients who received medium-stay or secure in-patient facilities during the study period.
2. In-patient days which included admissions of two patients to medium-stay or secure in-patient facilities.
3. The following criteria were met in relation to the 28 days before index admission: had ‘slept rough’ at least one night and/or had moved accommodation at least once; and future accommodation was uncertain at start of index admission.

*P<0.05.

use and/or frequent aggressive behaviour which can adversely affect the care provided for other patients. Various alternatives to a standard acute in-patient unit for such patients have included an 8-bed brief-stay unit for the range of psychiatric emergencies, including those involving patients for whom personality disorder is the most apparent diagnosis (Breslow et al, 1993). Another arrangement, which was provided for patients selected on the basis of personality disorder, also involved a structured time-limited in-patient programme (Silk et al, 1994). This regime was part of an otherwise standard psychiatric unit which accepted referrals of compliant patients from other units. Also, complementary or alternative provision for patients with personality disorder may involve medium- or long-term support in a range of out-patient, day-care, hostel and hospital-hostel facilities (Linehan et al, 1993; Kurian et al, 1994). Medium- or long-term individual supportive psychotherapy can be particularly important for patients with borderline personality disorder.

The findings show that patients admitted with non-psychotic disorders have a high incidence of repeated self-harm and substance-related disorders: it is considered likely that personality disorder made an important contribution to their psychopathology and that these patients make significant demands on in-patient psychiatric services in the UK. There is a need to evaluate a range of alternatives to their in-patient care in a standard acute unit.

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The Psychotherapy of Psychosis
Edited by Chris Mace and Frank Margison

This book provides an unusually comprehensive survey of the current state and prospects of psychological methods of treatment for people with schizophrenia and other psychotic illnesses. It will be an invaluable resource for mental health professionals and clinical managers involved in their care, and essential reading for psychiatrists at all levels of experience.

The three traditions of psychotherapy and integrated approaches are covered. Recent research in the process and outcome of psychotherapy is reviewed and summarised. Clear advice is also given on treatment techniques and settings with reference to national policies. As with other titles in the series, there is frequent use of boxes, tables and figures to set out important points and key information.

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