There is strong evidence that people with severe and enduring mental illness have increased morbidity and mortality compared with the general population. This may be due to a combination of risk factors, including poor diet, excessive smoking, underrecognition of medical risk factors and reduced access to care.1 In recent years, treatment with antipsychotic medications has been recognised as an additional risk factor for the development of metabolic abnormalities in this group of patients.2 These abnormalities include weight gain, hyperlipidaemias, glucose dysregulation and diabetes mellitus.2

There is evidence to suggest that people with mental health problems are less likely than the general population to seek medical help for their physical problems. Reasons suggested for this include apathy, mistrust of the medical profession, and the fact that a large proportion of those patients are not registered with a general practitioner (GP).3 Kendrick found that people with long-term mental illness tend to seek medical attention only in crisis situations.4

In spite of clear clinical guidelines to monitor people receiving atypical antipsychotic medications, the health needs of this group of patients are often not addressed adequately by clinicians in specialised mental health services or in primary care settings.5 This is likely to be contributed to by continuing controversy over who should be responsible for the monitoring and management of complications of the medications prescribed by psychiatrists.5 Psychiatrists may not consider themselves adequately experienced or trained to deal with metabolic complications, whereas GPs may be reluctant to accept the increased burden of care entailed and may believe that psychiatrists should upskill to manage the complications of the medications that they prescribe.

Kendrick et al surveyed GPs on who should screen for physical problems in people with mental illness. Overall, 77% thought that GPs should do this, while a larger percentage (93%) thought GPs should manage these physical problems.6 In Ireland, O’Brien et al suggested that the high prevalence of physical illness and physical risk factors in people with mental illness warrants primary care involvement in screening for and treatment of such physical risk factors.7

The UK National Institute for Health and Clinical Excellence (NICE) guidelines recommend that primary care providers should monitor and manage the physical health aspects of people with schizophrenia.8 The American Psychiatric Association and other North American guidelines recommend that mental healthcare providers should monitor and provide some treatment if any physical health abnormalities are identified, particularly when these abnormalities occur as an adverse result of prescribed psychiatric treatment.9,10 Following a comprehensive review of major guidelines, Cohn & Sernyak concluded that monitoring of, but not necessarily medical treatment of,
metabolic disorders falls within the scope of psychiatric practice. The Royal College of Psychiatrists’ position is that monitoring is left up to local agreements between primary care and secondary mental health services; the College recommends liaison when physical assessments and the required management fall beyond the prescriber’s level of competence.11

In this study, we surveyed all GPs providing primary healthcare in Galway West catchment area to ascertain their views on who should be responsible for managing metabolic abnormalities in patients prescribed antipsychotic medications, and the most appropriate management line when such abnormalities are detected.

Method

A total of 121 GPs were identified from the local primary healthcare lists and sent the study questionnaire together with a stamped addressed envelope. Reminders were sent after 3 months.

The questionnaire was designed by the authors and primarily asked what management action is most appropriate when lipid and glucose abnormalities are detected in patients prescribed antipsychotic medications. The GPs were asked to select one of the four following options and to provide any additional comments.

A Patient should be referred to primary care for management of any metabolic complications.
B Initial simple management efforts should be made by psychiatry services (e.g. advice on nutrition/exercise), with referral to primary care only if these measures fail.
C Metabolic complications should be managed entirely by the psychiatric services. If medications are indicated, they should be prescribed by a psychiatrist, with GP input only if such management is unsuccessful.
D Metabolic complications should be managed entirely by the psychiatric services and patients referred directly to endocrinology services if needed.

Results

The initial response rate was 62% (n = 75); after reminders were sent out, the total response rate rose to 86% (n = 104). The number and percentage of respondents in each category were as follows:

A 37 (36%)
B 48 (46%)
C 6 (6%)
D 9 (9%)
Undetermined 4 (3%)

Comments from those who selected option A indicated that GPs felt that they are best placed to manage metabolic complications and refer patients to endocrinology if needed (Box 1). There was also concern about a potential reduction in primary care attendance if patients’ medical care was taken over by psychiatrists, and that this would put further pressures on the resources available in mental health services, with subsequent negative impact on other psychiatric referrals from primary care.

General practitioners selecting option B preferred a combined approach, with guidance from psychiatry on monitoring needs, according to the medications prescribed and the associated risks. They felt that they were in a better position to then explore and address other risk factors. General practitioners selecting option C commented that, as prescribers, psychiatrists have responsibility for monitoring and managing complications. General practitioners selecting option D commented that there should be direct specialist-to-specialist referral when an endocrinological or cardiovascular concern is raised, bypassing primary care.

Discussion

The study findings illustrate that the vast majority of GPs believe that the medical management of metabolic complications of prescribed antipsychotic medications should be retained in primary care. However, approximately half of the sample believed that initial simple management efforts, such as advice on diet and exercise, should be made by psychiatrists before referring back to primary care if such measures fail.
A significant minority of GPs believe that metabolic complications should be managed entirely by mental health services. One concern voiced to support this position is the lack of regular contact between some patients and their primary care service. Similar concerns were reported by Bosworth et al.22 and Nasrallah et al.18 The latter concluded that routine health monitoring for people with schizophrenia should be performed by psychiatrists, particularly when certain conditions may be adverse results of prescribed psychiatric treatment.18 Santhouse & Holloway suggested that psychiatrists should always try to identify physical problems, even if they are not expected to treat all of these problems. This is because psychiatrists are likely to be the first to notice a change in a patient’s physical condition.3

Current antipsychotic treatment guidelines recommend regular monitoring of body mass index, fasting lipid and glucose levels, and blood pressure.13 There seems to be a general consensus that such monitoring falls within the scope of mental health services,5 and therefore those services must be equipped to perform regular physical health checks and offer advice on the management of modifiable medical risk factors such as diet and lifestyle. This also necessitates establishing effective means of communicating abnormal findings to primary care providers to ensure appropriate medical management and follow-up.

Mental health teams should ensure that all patients are registered with GPs, and patients should be encouraged to present for checks of their physical health. There is a role for the education of patients about a range of lifestyle issues such as diet, exercise and smoking.3

Mental health services and local primary care providers should agree on clear guidelines outlining responsibilities and protocols for screening for and managing these serious metabolic abnormalities in a shared and integrated model of healthcare provision.14 The authors of this paper implemented a screening protocol for metabolic profile for patients receiving clozapine antipsychotic therapy at the Department of Psychiatry, University Hospital, Galway. As part of this protocol, any abnormal findings have to be reported back to GPs to decide on management options.

The strengths of the study are the high response rate, the inclusion of GPs working in rural and urban settings with various levels of deprivation. The findings are likely to be generalisable to the wider population of GPs in Ireland. However, the structure and funding of service provision in different countries are likely to necessitate variable guidelines; in particular, services that financially incentivise GPs to monitor and manage metabolic complications are more likely to meet with a positive response to shifting this burden of care from secondary to primary care.15

In conclusion, this study highlights that the majority of GPs believe they should be responsible for the monitoring and management of metabolic complications of antipsychotic medications once simple identification and perhaps non-pharmacological interventions have been implemented by mental health services. It is incumbent on mental health services to implement protocols to identify and implement care pathways for people with these serious complications.

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