Characteristics of self referred patients attending minor injury units

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Abstract

Objective—To examine the characteristics, expectations, and use of health services of patients who self refer to minor injury units (MIUs).

Design—Preconsultation questionnaire administered to self referred patients attending with new problems.

Setting—Two MIUs in south Kent.

Main results—Of 312 self referred patients, 265 (84.9%) presented with minor injuries and 47 (15.1%) with illnesses. In most cases the illness/injury was of recent origin: 119 (38.1%) said it was of less than six hours’ duration and 115 (27.6%) between 6 and 24 hours’ duration. Most (214; 68.6%) came from home, and for 268 (85.9%) it took 10 min or less to get to the MIU. 79 patients (25.3%) had used the MIU on one to two occasions in the previous year, and 21 (6.7%) had used it on three or more occasions. In the same period, 44 (14.1%) had attended an accident and emergency (A&E) department on one to two occasions, and 17 (5.4%) has used A&E on three or more occasions, while 108 (34.6%) had been to a general practitioner on one to two occasions, and 144 (46.1%) on three or more occasions. If there had been no MIU available, 151 patients (48.4%) said they would have attended an A&E department, and 91 (29.4%) said they would have attended their general practitioner. The remainder would have self treated or were unsure.

Conclusions—While the availability of an intermediate tier of care appears to result in greater overall workload for the health service, this must be balanced against the clinical and social costs involved in different patterns of service provision. The cost-effectiveness of these services need further study.

Methods

Over a 10 and an 11 day period in January and February 1994, Folkestone and Deal MIUs saw a total of 586 new patients. A trained interviewer approached patients presenting with new problems while they waited in the waiting room. The aim was to include all the patients seen during the study period. However, 87 (14.8%) were missed because of the unavailability of the interviewer due to rest breaks which were taken at random times during the day to reduce recruitment bias. Of the remaining 499 patients, 27 (5.4%) required immediate treatment, 11 (2.2%) declined to be interviewed, and 149 (29.9%) did not meet the inclusion criteria as they were referrals, reattenders, or follow ups. As a result, 312 self referred patients attending with new problems, or their guardians in the case of children, were interviewed with a structured questionnaire. The questionnaire included reasons for the patient’s attendance, their presenting condition, and previous use of health services.
Results

As shown in table 1, the age of patients was skewed towards the young adult, with 94 (30.1%) aged 15–35 years. Additionally, 38 patients (12.1%) were under 5 years of age, 28 (8.9%) were 6–10, and 32 (10.3%) were 11–15. The majority of patients attended from home using private cars, and presented a problem of less than 24 hours’ duration. Journey times to the MIU tended to be very brief, with most being less than 10 minutes’ duration.

Two hundred and sixty five patients (84.9%) presented with a minor injury, which included 119 (36.1%) who attended with musculoskeletal conditions, including sprains, strains, dislocations, and fractures. Fifty seven patients (18.1%) presented with lacerations, and 35 (11.2%) with trauma related swelling such as bruising. Minor illnesses accounted for 47 of attendances (15.1%). This included 36 patients (11.5%) who presented with abscesses, skin infections, or rashes.

While most patients (230; 73.7%) expected an examination at the MIU, just one patient (0.3%) expected a referral to further services (table 2). Almost one third of patients anticipated requiring an x-ray, and a further one third expected sutures or a dressing (table 2).

When asked why they had not seen their own general practitioner, the commonly given reason was a perception that the MIU was more appropriate for their needs on this occasion (table 2). When asked what they would have done if there were no MIU available, 151 (48.4%) stated they would have attended an A&E department, while 91 (29.4%) stated they would have attended their general practitioner, and the remainder would have self treated or were unsure.

The patients’ reported use of health services over the previous year is shown in table 3. Their use of general practice appears to have been much more frequent than their use of either MIUs or A&E departments.

Discussion

We have previously shown that of 1472 patients who self referred to these MIUs, only 28 (1.9%) were referred for further assessment and care to a general hospital, of whom eight (0.5%) were subsequently admitted. Four of the latter admissions were for trauma related problems and required stays of less than 24 hours.

The findings presented here provide further information about who uses MIUs and why. They are locally used services, and the conditions presented appear to be predominantly minor injuries of relatively short duration, with patients having clear expectations of the management required. Most patients had decided to attend the MIU on this occasion because they perceived that urgent attention was required, rather than the full facilities of an A&E department. The ease of access, promptness of care, and patients’ perception of their needs appear to be the key determinants leading to use of the MIU in preference to other services. Most patients did not seem to be using an MIU as a substitute for their general practitioner, but only for specific needs such as when they anticipated the need for an x-ray or an intervention that was unavailable in general practice. For many patients, this appeared to reflect their previous experience of contacts with health services.

These findings are in keeping with other published work, but it should be noted that the study is based in one district, and differences in patient characteristics, expectations, and use of health services may exist elsewhere. Furthermore, the study was undertaken during winter months, and it is likely that the characteristics of patients may differ in the summer when tourists and foreign language students attend the MIUs. It is likely that the demand for MIU services also reflects the mix...
of clinical staff (general practitioners, nurses, and nurse practitioners) available at the MIU, and the accessibility of investigative and therapeutic services at the site. Garnett and Elton found that at an MIU that lacked access to x-ray facilities 5% of patients were referred to A&E and 3% were referred for x-rays.

In relation to the representativeness of the study sample, 27 patients (5.4%) could not be interviewed because they required immediate treatment. Most of these patients had sustained lacerations or were in considerable pain. As a result, there might have been a slight underestimate of the proportion of patients who present with such problems.

There is inevitably overlap between the roles played by an A&E department, an MIU, and a GP surgery. MIUs offer open access to the public, access to x-ray and treatment room facilities, and — unlike most GP surgeries — do not operate an appointments system. For some patients appointment systems appear to act as a deterrent to attending their general practitioner. There is some evidence that the structural changes that have occurred since the introduction of the new GP contract in 1990 have eroded the personal patient-doctor relationship in general practice and may be leading to less accessible care. The emphasis on increasing list size in general practice appears to run counter to patients' preferences, and may be adversely influencing satisfaction. However, the effect that these changes is having on the demand for A&E and MIU services is difficult to quantify because there are many confounding variables. For example, although larger group practices may be detrimental to the personal continuous care and flexible access for consultation which patients appear to prefer, they may offer a broader range of services, with greater access to practice nurses and treatment room facilities than smaller practices.

When patients were asked what they would have done if there were no MIU available, 159 (51.6%) said they would have gone to an A&E department and the remainder would have gone to their general practitioner or self treated. It appears, therefore, that the availability of an intermediate level of care may result in greater overall workload for the health service, but this must be balanced against the clinical and social costs for patients who might be deterred from seeking health care in the absence of a locally available service. Distance — whether based on actual measurement or travelling time — influences accessibility and is one of the most important determinants affecting choice of health care provider. Both MIUs were at least 10 miles from the nearest A&E department, and it is noteworthy that 85.9% of patients said that it took them less than 10 minutes to reach the MIU. Had these services not been available, in addition to greater use of GP and A&E services there might also have been greater use of emergency ambulance services for patients without easy access to public or private transport. It was beyond the scope of the study to examine how many patients with minor injuries were seen in local GP surgeries, community pharmacies, or by occupational health services during the same period. A broader study of minor injury care provision across the community would be required to identify the demand for the provision of such services and the overall impact of variations in local access to minor injury care.

Since this study was undertaken the role of the nurses working in the MIUs has expanded considerably and they have undergone a nurse practitioner training programme. There has been a concomitant reduction in the degree of local general practitioner involvement in service delivery, but this has not led to a reduction in patient attendances.

In conclusion, MIUs appear to fill a useful role in maintaining accessibility to minor injury care for local communities, but their cost and clinical effectiveness needs further study.

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