Can nurse practitioners offer a quality service? An evaluation of a year’s work of a nurse led minor injury unit

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Abstract

Objective—To evaluate activities of a nurse led minor injuries unit based in a community hospital situated eight miles away from its sister district hospital in Crawley to demonstrate whether nurses can provide an alternative service.

Design—‘Walk-in’ service provided by emergency nurse practitioners (ENPs) working within protocols and parameters with supervision from the accident and emergency consultant during the period of May 1995 to April 1996.

Results—Within the 12 month period, ENPs treated 6944 new patients. Al-though 2344 patients were transferred to Crawley Hospital for further treatment. The ENPs reviewed 1611 patients and the consultant 1342; 1945 patients required radiographs and 793 were given medication; 553 patients were referred to other health care professionals. Almost all patients were happy to see a nurse and all were satisfied with the treatment they received.

Conclusion—With careful planning, adequate supervision, and support from multidisciplinary teams nurses can provide a worthwhile and effective service for the community.

Methods

A public awareness campaign was conducted before the start of the service. All local general practitioners were informed of the change in service. Leaflets were distributed to households in the local area stating the types and extent of injuries the ENPs could treat. Posters were distributed to schools, clinics, and to general practitioner surgeries. The local papers and radio station also played their part in educating the local community as to the type of service the ENPs would provide.

Concerns about the “casualty unit” at Horsham Community Hospital working in isolation without senior medical supervision made it necessary to review the service being provided. A survey of the facilities, attendances, and activities of the unit was conducted. This showed that 80% of injuries treated were minor trauma. The survey also revealed a need to retain a service at Horsham as the large numbers of attendances would create an extra workload for the accident and emergency (A&E) department at Crawley Hospital situated eight miles away. Several options were considered as to how best to maintain the service including the possibility of a nurse unit as minor injuries could be assessed and treated by nurses.

The concept of nurse practitioners is not a new one.1 For many years senior nurses in outlying community hospitals for all intents and purposes have carried out the role when using their clinical judgment to decide when and where to refer patients to medical personnel. In recent years this role has been utilised in various ways in A&E departments for the benefit of patients.2,3 Current developments in the provision of minor injury care showed that nurses could successfully provide such a service.4 In the light of this Crawley Horsham NHS Trust took the decision to overcome current difficulties and to continue providing a minor trauma service at Horsham by using emergency nurse practitioners (ENPs) supervised by the A&E consultant based at Crawley Hospital. The senior house officer on call for care of the elderly would be called upon in an emergency. This service started in May 1995.

The decision to use ENPs to deliver the service provoked considerable pressure from the local community who wanted the status quo maintained. Both lay persons and professionals questioned the ability of nurses to deliver an adequate service. The local ambulance service expressed concerns of possible increased demands to transfer patients to Crawley Hospital and the on site outpatient departments feared that an increased number of referrals to their clinics would create an overload to the already very busy clinics. It was therefore important to closely monitor the new service to ascertain whether nurses could provide an alternative worthwhile service for the community.

Keywords: nurse practitioners; minor injury unit; quality

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Patients treated were referred by local general practitioners and 169 were referred by other professionals, for example physiotherapists, opticians, and other hospitals. All children under 1 year were referred to the paediatric department at Crawley Hospital. Other referrals from the unit included 352 patients to the physiotherapy department, 159 to their general practitioner, seven to their dentist, 68 to the eye clinic, and 25 to the ear, nose, and throat clinic. Of the 6944 new patients treated 234 were transferred to Crawley A&E department for further management. These included head injuries, fractures with displacement, lacerations involving deep structures, Achilles tendon rupture, compartment syndrome, deep venous thrombosis, facial injuries, and chest pains. Transportation by ambulance was required for 28 of the referrals to Crawley A&E department. Of the 760 fractures treated, 70 were referred to Crawley A&E department by the ENPs; 690 fractures were treated by ENPs and were followed up in the unit by the consultant during the twice weekly clinic sessions. Seventy four of the ENP follow up fractures were referred to the fracture clinic by the consultant.

Of the 8555 patients treated by ENPs 1945 required radiography investigations. There were 22 missed fractures and 57 false positive readings. The misinterpreted radiographs were 10 fracture fractures of fingers, six fracture fractures of toes, two fracture fractures of ankle, two possible crack fracture of head of radius, one possible greenstick fracture of clavicle, and one possible crack fracture of epiphysial plate ofibia.

A patient satisfaction questionnaire was conducted over a period of three weeks, six months after the start of the service. From 313 questionnaires handed out 269 were returned. Analysis of the returned questionnaires indicated that 263 patients examined by a nurse were satisfied with the treatment or advice given and had no objections to being treated by a nurse. Six patients stated that they would have preferred to be treated by a doctor, although they had no complaints about the treatment they received. There were no written complaints during the first year.

Discussion

Careful planning and preparation have been key factors to the apparent success of the nurse-led unit. Using information based on previous service provision and existing nurse units, a service based on the needs of the local community and facilities available was established. This is reflected in the wide range of previously agreed protocols that determine the scope of practice and level of intervention. Allowing the ENPs to request radiographs and to administer certain medications within the agreed protocols were major factors in determining the apparent effectiveness of the service as these allowed the nurses to treat and discharge the majority of patients who attended without the need for referral to medical personnel. During its first year the unit has provided treatment for 9897. The level and breath of activities show that the local com-
munity has used the service, and interestingly clients of all ages attended for treatment. Altogether 98% of the patients surveyed were happy to be seen by a nurse and were satisfied with the treatment they received. The level of transfers, referrals to clinics, and the number of clients treated by the ENPs suggest that all the fears and scepticism expressed before the start of the service appear to be unfounded.

The authors conclude that this study has demonstrated that given suitable training, protocols, and close liaison with a neighbouring A&E department, nurses can provide an effective and worthwhile locally based service.


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