Physician extenders in the emergency department

J R Hedges

Data on cost-effectiveness and outcomes are required before physician extenders can become an integral part of the ED team in the UK health service

Smith and Tevis have provided a helpful comparative overview of the background, training, and practice environment of physician’s assistants (PAs) working in US and UK emergency departments (EDs). However, they leave unanswered a number of questions about the role and relative value of PAs. This commentary highlights many of the issues that remain to be addressed and their wider implications.

As an emergency physician who has practised in EDs for nearly 30 years, I have witnessed the evolution of emergency medicine as a specialty in the USA and observed the more recent introduction of physician extenders (nurse practitioners (NPs) and PAs) in ED practice. The notion of physician extenders has important implications for meeting workforce needs, specialisation within ED practice, and defining the specialty. The comments that follow are based on more than seven years of work with physician extenders in the Oregon Health and Science University (OHSU) ED and five years as a lecturer for the OHSU PA training programme.

WHAT ARE “PHYSICIAN EXTENDERS”?
The underlying concept of a physician extender is that of a non-medical healthcare provider who sees patients on behalf of or in conjunction with a lead physician or physician(s). This provider generally has a narrower knowledge base and skill set than the lead physician. In the USA, the commonest types of physician extender are PAs and NPs. The PA generally completes a 2+ year programme, including up to 14 months of clinical rotations, after receiving a college undergraduate degree. The NP generally completes a two year master’s level course after a four year registered nurse degree programme. Clinical exposure is generally interspersed with didactic courses during the second year of the NP programme. The PA trainee’s classes more closely resemble medical school classes and often are taught by the same physician faculty members who teach medical students. The emphasis of these didactic courses is upon applied clinical knowledge with a modicum of basic science. The NP trainee courses are generally taught by clinically experienced NPs who often put emphasis on nursing models of care delivery and also provide limited procedural training.

In both models, the trainee emerges with a knowledge base that has significantly less breath and depth than that of a newly qualified doctor. However, they will have key skills and knowledge in a narrow field. The depth of this skill set is dependent upon the trainee’s clinical training opportunities and prior clinical exposure (which could be extensive if the trainee was a nurse or paramedic).

The key message is that neither the hospital administrator nor the emergency medicine consultant should equate the physician extender with a fully trained specialist in a particular field of medicine, especially in the area of emergency medicine.

WHAT IS THE ROLE OF THE PHYSICIAN EXTENDER IN THE ED?

Physician extenders (both PAs and NPs) most commonly deliver care by following protocols in settings where, through triage or an innate component of the overall care protocol, the high risk or more complex patients are directed to the consultant and/or registrar in the ED. Although this approach makes sense as a rational use of limited human resources, there are economic and quality related issues that we have only begun to address. We have much to learn about the relative efficiency of physician extenders in the ED with regard to patients requiring minor care (that is, the number of patients seen per hour per unit of salary for PAs v house officers, general practitioners, registrars, or consultants).

Byrne and colleagues noted that NPs tended to process patients with minor injuries less rapidly, although the patients received more thorough instructions. Interestingly, when Sakr and colleagues compared their experience with an NP-led minor injury unit with similar care provided in their ED, the cost per case and frequency of post-visit follow up care were higher for patients seen in the NP-led minor injury unit. However, even if throughput (and resultant cost) efficiency is lower than when care is provided by doctors, physician extenders can provide vital extra staff during peak periods, evenings, weekends, and holidays, when minor care needs may be disproportionately high.

Similarly, we have limited information about the relative quality measures of physician extenders. Given that minor care patients should be carefully screened prior to evaluation by a physician extender, the inherent risk of an adverse outcome should be small. Sakr and colleagues noted that NPs and junior doctors had similar accuracy of examination, adequacy of treatment, and optimal minor illness or injury conditions remain to be determined.

Extended care provider

Although observation services are only beginning to evolve in the UK, more extended evaluation and management of well screened patients has been shown to be feasible, the relative efficiency of this practice and optimal minor illness or injury conditions remain to be determined.
WHAT ARE THE WIDER IMPLICATIONS?

Emergency medicine has been carved out of the acute care aspects of multiple clinical disciplines, often concentrating on those conditions that present an acutely evolving threat to a patient’s life or limb. Despite this focus on acutely evolving illness or injury, EDs serve as portals for patients to access general medical care. Patients, and indeed other health professionals, cannot always determine whether their symptoms represent a serious health problem. Therefore, staff in EDs spend much of their time evaluating and managing less serious conditions. As Smith and Tevis suggest, physician extenders can provide much of the assessment of minor injury and minor illness.6 Although data evaluating relative efficiencies and quality of care are limited, years of experience suggest that physician extenders have an important role to play.

Were physician extenders to assume responsibility for all the less complex patient presentations, how would the consultant’s practice be affected? Although the registrar may welcome this opportunity to forego the mundane in favor of the more challenging cases, the consultant may be less enamoured with a relentless body of complex cases from beginning to end of a clinical ED shift. For those who are 5+ years past their training, having an occasional straightforward case that can be assessed and resolved in 10–15 minutes can do much to “recharge one’s batteries” during a clinical shift. Emergency physicians must think carefully about the practice environment they may create for themselves with the introduction, and growth of physician extenders.

If the UK is to move towards greater use of physician extenders in the ED, what are the implications for the creation of PA training programmes in the UK? Are there special licensing concerns that must be addressed and practice restrictions or hospital credentialing limitations to be established? Establishment of the working relationship of the PAs with house staff, off-service consultants, and nurses will be critical.

It is difficult for me to ascertain whether the experiment reported by Smith and Tevis (see reference 1) is a true success. They do not detail the type of care provided by the PAs, the outcomes of that care, the cost of delivering care by PAs compared with other providers, or the acceptance of these physician extenders by patients or other hospital personnel. Yet, based upon the empirical application of physician extenders to emergency practice in American EDs, I anticipate that greater application of PAs will evolve in EDs in the UK, provided that the economics are favorable and the outcomes acceptable.

As this phenomenon evolves, I strongly encourage my colleagues in the UK to define carefully the PA’s scope of practice and to make special effort to:

- provide close review of the practice on-site
- educate nurses, house staff, off-service consultants, and the public about the PA’s scope of practice
- report efficiency and safety data associated with such a conjoint practice.

REFERENCES

Physician extenders in the emergency department

J R Hedges

doi: 10.1136/emj.2004.022996

Updated information and services can be found at:
http://emj.bmj.com/content/22/5/314

**References**

This article cites 10 articles, 3 of which you can access for free at:
http://emj.bmj.com/content/22/5/314#BIBL

**Email alerting service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

**Notes**

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/