Physician assistants – a missed opportunity in the British Army?

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Introduction
The severe shortage of medical specialists in the Defence Medical Services has been highlighted recently, including the continued loss of trained clinical staff at a rate of more than 700 per year (1). The British Medical Association estimates that it would be more than 10 years before replacement staff could be adequately trained to work unsupervised, particularly with the drive towards consultant delivered care. Although reliance is placed on the reserve forces, volunteer strength is only 65% of required establishment and the Ministry of Defence do not expect ‘that Reserve establishment targets will be reached for at least the next couple of years’ (2).

These difficulties are by no means limited to the United Kingdom, and the United States developed a non-physician health care provider called the Physician Assistant (PA) in response to a similar problem. Although designed to fill a shortfall of medical staff in armed forces, the popularity of PAs has grown in the United States, and they now practice in both civilian and military health care.

A difference between the British and American medical systems is the blurred boundary between medical practitioners and professions allied to medicine (PAMS). In the USA it is particularly true of the physician assistant, which has no equivalent counterpart in the United Kingdom. In the eventuality of British Forces being deployed with US allies, it is probable that British medical and nursing staff will find themselves working in parallel with physician assistants from the United States. The aim of this article is to introduce physician assistants to readers who may find themselves in such a situation, and try and dispel attempts at categorizing PAs as ‘consultant nurse’, ‘super CMT’ or ‘semi-doctor’. PAs are none of these things and a combination of all of them!

Key words: Physician assistant, army

History
In the late 1960s the physicians draft was abolished, creating a shortage of doctors for front line combat units. To address the shortcoming Dr. Eugene Stead, of the Duke University Medical Center in North Carolina, developed a non-physician health care provider called the physician assistant.

The first class was selected in 1965 from Navy corpsmen with considerable medical training during their military service and during the Vietnam conflict, but with no medical experience in civilian practice. Between 1973 & 1977 eight classes of PA were trained with the intention of employing them as a temporary stop gap for physician shortages. However, they were enormously successful with commanding officers who requested further PAs in front line units. The courses were, therefore, recommenced in 1979 and have continued ever since.

Education & training
The curriculum developed for Dr Stead's PA programme was in part based on the fast-track training of doctors that was necessary during World War II. The emphasis was on intensive practical issues of medical practice rather than ‘minutiae’ and this remains the backbone of PA programmes. PAs are educated in a fashion designed to complement medical practitioner training and facilitate an easy working relationship. A typical PA education programme is usually 25-27 months in length and is taught by physicians, PAs, and basic scientists. Entrance stipulations for most courses require applicants to have previous health care experience (usually 4 years as a nurse, CMT or paramedic) and some form of educational qualification, typically a Bachelor's degree. The first year provides broad grounding in medical principles with a focus on their clinical applications. Teaching consists of classroom and laboratory instruction in basic medical sciences amounting to 1600 hours over twelve months. In the second year, students receive hands on clinical training through a series of clerkships in a variety of inpatient and outpatient settings. Rotations include general medicine, general surgery, pediatrics, obstetrics and gynaecology and accident and emergency medicine.

Physician assistant students complete an average over 2000 hours of supervised clinical practice prior to graduation, which is probably more than most UK medical graduates.

Accreditation
In the United States there are currently
more than 120 courses leading to accreditation, but increasing interest in PAs has led to establishment of many new programmes. Upon completion of a course physician assistants must pass a National Certification Examination. To maintain their certification, PAs are required to log 100 hours of continuing medical education (CME) every two years and re-sit the National Certification Examination every six years, regardless of their area of practice. In addition, a number of postgraduate courses have been developed in medical and surgical specialties.

Functions & responsibilities
In the United States, PAs are licensed to practice medicine only with physician supervision. As part of their responsibilities PAs undertake patient admission, diagnosis and treat illnesses, order and interpret tests, counsel on preventive health care, assist in theatre and, in most parts of the United States, write prescriptions (47 out of 52 states). A PA may be employed in any setting authorized by the supervising doctor, including, but not limited to, GP surgeries, hospitals, mobile surgical units, patient's homes, nursing homes and other institutional settings such as prisons. Although over 50% work in primary care, 20% work in surgical disciplines where they assist in theatre in the same manner as a surgical trainee. Surgical PAs provide post-operative care, managing patients on the intensive care unit or ward. They are trained to insert and remove vascular access and monitoring devices (including Swan-Ganz catheters, CVP lines, arterial lines, Foley catheters); insert and remove drains (including intra-thoracic drainage catheters); regulate the pharmacological needs of the patient (including analgesics, antibiotics, anticoagulants, insulin, etc.); remove temporary pacemaker wires, casts, sutures or skin clips in addition to other tasks delegated by the surgeon. Surgical PAs also oversee dictation of discharge summaries and arrange out patient follow-up appointments.

Regulation
The American Academy of Physician Assistants (AAPA) is responsible for collecting and auditing data to track the growth and changes in the profession. These audits are published annually and are available on the Academy's web site (http://www.aapa.org). It is responsible for ensuring that professional standards are maintained, but has no executive authority. A separate body, the National Commission on Certification of Physician Assistants (NCCPA) has certain censorial powers including the ability to revoke or suspend the PAs national certification. Without national certification, the PA's license may be suspended or revoked depending on the State in which the PA is licensed. The State medical board can require a PA to attend counseling as needed and impose corrective measures. In common with medical practitioners, PAs are required to be licensed by the State in which they work. Even if nationally certified, a State can refuse permission to practice in common with the rules governing medical practitioners.

Malpractice
Information from the National Practitioner Data Bank (NPDB) reveals that PAs incur a low rate of malpractice judgments and reduce the risk of malpractice liability. Although PAs are supervised in the same way as non-consultant grade junior doctors in the UK, they remain liable for their actions. Even in the case of being covered by the employer's insurance, they may still be liable to the employer who has paid compensation to the claimant. The Health Care Quality Improvement Act (1986) requires that all malpractice payments made on behalf of any clinician (doctors or PAs) must be reported to the NPDB, with the details of who was at fault. The most recent data suggests that 272.8 physicians and 11.7 PAs exist for every 100,000 people, and 23.4 physicians for every PA. All things being equal, physician relative negligence recorded by the NPDB should be 23.4 times that involving PAs. In reality, the number of physician relative claims is 420 times that involving PAs. Since the data bank began collecting statistics in 1990, a total of 100,750 claims were settled against physicians, with an average paid claim of $188,773. During the same period, a total of 240 claims were settled on behalf of PAs, with an average claim of $83,625 (3, 4). The reasons for this difference are unclear although effective communication with patients is demonstrable in avoidance of litigation and PA education focuses strongly on this element of training (5, 6). It has also been suggested that employing a PA could reduce the risk of malpractice judgments by allowing the supervising physician to concentrate on more demanding elements of patient care (7). Employing a PA reduces waiting time and provides patients with greater attention, which enhances patient rapport and satisfaction.

The findings of a Hurley Medical Center (HMC) research project, recently published in the Journal of Trauma, re-enforce the value of physician assistants (8). The Michigan-based medical center has employed PAs as members of the surgical staff since 1985. In 1994, HMC began a formal trauma program staffed by surgeons and PAs, who worked as surgical residents. In the programme's first two years there was a 43% reduction in the time taken for acti...
Physician Assistants in the US Army

The US Army has its own PA School, based at Fort Sam Houston, in San Antonio, Texas. At present there are 517 PAs in the US army, which equates to one for each combat unit. As the ethos is of an intensely practical occupation, PAs are sent from Certification straight to front line units rather than being ‘interned’ in a hospital. A mentor system operates, to ensure that newly qualified PAs are not left in situations that may leave them feeling isolated or out of their depth.

US Army PAs differ greatly from those in the Navy & Air Force and also their civilian counterparts, in that they are based with their battalion, compared to a more hospital and primary care role for those in the other forces. There are no US Army PAs in field or general hospitals, except for those in training. In war time, US Army PAs are based at the regimental aid post where they provide BATLS-type care, but have the ability to move forward if needed. In peace time however, they have a primary health care role at battalion level. They are responsible for the day to day health care of the soldiers and their families, act as teachers for battlefield trauma training and are responsible for ensuring adequate medical supplies are available. As such they are a fully accepted part of the health care system and their work load is considerable; for example, over a 3 months period the 18 US Army PAs stationed in Germany saw 16,250 patients.

Conclusions

Physician assistants are not likely to develop rapidly in the United Kingdom. At present there is no legislative framework that would allow PAs to practice and changes to the Medical Act would be required. In addition, with a drive towards consultant delivered care rather than consultant led care, PAs may not be accepted, or viewed with suspicion, by the British public.

In the United States however, PAs are a tried and tested part of medical practice for the last 30 years. They are used extensively throughout the Armed Forces of our major NATO partner, and future deployment will inevitably lead to contact between British Forces and physician assistants. Although perceived as a threat by some doctors, they are proven advantages in employing these individuals, and PAs have been embraced as a solution to chronic shortages of suitably qualified, motivated, medical practitioners.

Acknowledgement

We would like to thank LTC Louis H Smith III, Chief, Physician Assistant Section, US Army Medical Command, for his advice in preparing this paper.

This work was made possible in part by an Award from the Drummond Foundation.

References

4. The National Practitioner Data Bank Research File of September 30, 1997, as maintained by the Division of Quality Assurance, Bureau of Health Professions, Health Resources and Services Administration, US Department of Health and Human Services.
5. Frankel RM. Communicating with patients: Research shows it makes a difference. AAMPE NEWS 1993;16(2):8.