Anaesthetic training in accident and emergency

EDITOR,—I read with interest the comments of Boyle et al regarding anaesthetic training for accident and emergency (A&E) specialist registrars. They suggest that there is a definite advantage of spending six months as a “true” anaesthetic SHO as part of the A&E specialist registrar scheme, rather than as a supernumerary extra in theatre. As someone who initially undertook a training in anaesthesia with a view to entering higher training in A&E via this route, I would agree that it offers much more than the opportunity to become confident and competent at advanced airway management in the relatively controlled theatre setting. The possession of an SHO qualification in anaesthesia offers the chance to gain many other skills that are extremely useful to the A&E trainee, particularly in the resuscitation setting, including the assessment and management of critically ill patients, providing ventilatory and circulatory support where necessary, the use of anaesthetic equipment, invasive haemodynamic monitoring techniques and transportation of critically ill patients. The opportunity to become proficient at the various regional anaesthetic techniques and to gain an understanding of pain management is also very relevant to A&E practice.

The possession of the FRCA, which requires at least 2.5 years of training in anaesthesia, is one of the established ways to enter the A&E specialist registrar grade. Surprisingly, in the current membership list of the British Association of A&E Medicine, only 60 (0.05%) members possess the DA (or old FRCA), with only 12 (0.01%) possessing the FRCA or equivalent.1 As our specialty continues to develop and accepts more responsibility for early advanced airway management, ventilatory and circulatory support and rapid sequence inductions, both within the A&E department and in the pre-hospital setting, I feel that we should encourage more of our junior trainees interested in a career in A&E to enter the specialist registrar grade via this route.

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Rapid sequence intubation

EDITOR,—All emergency medicine specialists should be competent in rapid sequence intubation (RSI). We thank the authors for their commitment to training this essential skill.1

The simulator experience with video playback could be an extremely powerful teaching aid and has the potential to revolutionize this skill. Currently, only a few accident and emergency (A&E) departments in the United Kingdom have access to this expensive tool. RSI is a skill that is used with short notice and requires confidence and competence to perform appropriately. The cognitive and psychomotor skills needed are unlikely to be retained from a single course. RSI should therefore be taught as part of an integrated training programme. This should include protracted exposure to intubations during an anaesthetic attachment, a short course similar to the National Emergency Airway Management Course from the USA covering core knowledge, and a process of revalidation and quality assurance.

We feel that the use of simulators would not be practicable for the primary training of the large numbers of UK A&E specialists in RSI. The use of simulators could, however, play a vital part in the regular appraisal and revalidation of individual practitioners once they have completed their training programme. This revalidation of skills and the regular audit of results should form the basis for the essential quality assurance, which this programme would need.

In summary, if we follow the airline pilot analogy, training occurs in the classroom and in the air, and revalidation is the work of the simulator.

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Emergency cranial computed tomography

EDITOR,—Harris et al2 apply Rothrock’s criteria3 to a UK population of non-trauma patients. Their abstract concludes “Successful criteria can be used clinically to select patients presenting to an A&E department in this country to target patients most likely to have clinically significant findings on urgent cranial computed tomography”. We believe that the method and findings of the study do not justify the change in practice implied by this conclusion.

Our methodological concerns are threefold. Information gathered retrospectively from notes and request forms casts doubt over the accuracy and completeness of the symptoms and signs (particularly the symptom of nausea). The inclusion criterion is ill defined (patients who are referred for cranial computed tomography). There is no explanation for the inclusion of nausea (it is not one of Rothrock’s original criteria).

There are also theoretical objections. To be useful, a clinical filter must be applied to unselected patients and include criteria that have a high inter-observer reliability. There is no logic in applying a clinical filter after the decision to investigate has been made.

Furthermore, both studies acknowledge that they do not tackle the problem of subarachnoid haemorrhage in young patients presenting with isolated headache. Surely this is a major consideration in formulating any criteria for computed tomography (CT)? We applied Harris’ criteria to our prospective series of patients attending A&E with non-traumatic headache (248 patients). Seventy-two CT scans could have been performed. The criteria would have missed three (1.2%) patients with an abnormal CT scan.

Judging from the differing rates of CT abnormality in the two studies (33% vs 6%), CT rates in the UK are well below those in the USA. Given that we accept a detection rate of 1 of 80 for patients with skull fracture and GCS 15, perhaps we should be scanning more patients with non-traumatic headache not fewer.


The irritable hip

We welcome the interest shown by Bridges et al in our paper. They state that a history and clinical examination are sufficient to select those children, presenting with atrumatic limp, who require further inpatient investigations. They suggest that the routine screening of blood is unnecessary for such children who are discharged, and imply that we are subjecting children to needless venepuncture. However, no objective evidence is offered to substantiate their statement. In addition, Bridges et al misquote our paper. Our paper states “no one clinical finding or investigation can be used in managing the limping child who attends the A&E department”. Our protocol was not aimed at identifying “septic arthritis”, but identifying children who may be safely discharged home. Our paper demonstrates that this protocol does not appear to miss significant pathology in children presenting with hip pathology. However, there is evidence demonstrating the pitfalls of relying on history and clinical examination alone. Taylor et al reported in a series of 509 cases of “irritable hip” that history is unreliable in this condition. A recent study identified four cases of occult osteomyelitis, at various sites in the distal limb, presenting to a paediatric A&E department with atrumatic limp. Clinical findings were unreliable with further investigation and the subsequent diagnosis resulting from the identification of a markedly increased erythrocyte sedimentation rate. Finally, Aston et al reported identification of neuroblastoma by detection of anaemia on investigation of the limping child.

Therefore, we would advise caution in discharging children presenting to A&E departments with atrumatic limp based on history, clinical examination and imaging alone.

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Topical anaesthesia use in the management of children's lacerations, a postal survey

EDITOR,—The suturing of lacerations of children is often difficult. Infiltration with 1% plain lignocaine (lidocaine) is commonly used to make the suturing more comfortable. This infiltration may cause pain and render the child uncooperative for the rest of the procedure. Topical anaesthesia (TA) has been described since 1980.1 The agent commonly used is a mixture of 0.5% tetracaine, 0.05% adrenaline (epinephrine) and 11.8% cocaine (TAC). This method has a similar efficacy to infiltration but is less painful to apply2 and is used widely in the United States.

All 597 accident and emergency (A&E) departments in the UK were sent a questionnaire about their use of TA in children's lacerations. There was a 71% response rate. Of the 34% of all responders who used TA, 33% used Emla, 31% used lignocaine and 26% used Ametop. Less than half of these felt TA was preferable to injection. Only 8% used a cocaine and adrenaline mixture but 91% of those preferred it. TAC was used in 3%.

Most (66%) departments did not use TA. There were many reasons given. The commonest reasons were “no experience” (28%), “TA ineffective” (20%), “slow onset” (10%) and “department protocol” (10%). Three per cent of responders were concerned about absorption.

This survey has shown that only a minority of UK A&E departments use TA for suturing children's lacerations and, of these, few use agents for which there is evidence. TAC use has been associated with prolonged fitting2 and mortality;3 it is expensive and contains a controlled drug. The rare catastrophes to-
Feigning dystonia to feed an unusual drug addiction

EDITOR,—We recently had a patient attend our department repeatedly feigning acute dystonia in an attempt to obtain procyclidine medication. The case illustrates the fact that many medications are abused.1 Patients are knowledgeable and may be willing to go to some lengths to obtain them fraudulently. Accident and emergency staff should be alert to this possibility when faced with unusual stories or situations. The psychotropic drug directory is a brief handy reference, which may help in such situations and can be obtained free of charge from Lundbeck pharmaceuticals.2

A 19 year old man of normal appearance, presented on three occasions complaining of neck pain and holding his neck in full extension. Examination revealed a full range of passive neck movements, with no other associated neurological or ocular abnormalities. The patient admitted to previous crack cocaine and marijuana misuse. He further stated that he had recently taken a substance he believed to be diazepam. A putative diagnosis of acute dystonia was made and he was treated with 5 mg intramuscular procyclidine. He made a recovery within a few minutes and was discharged.

The patient attended on two further occasions in the following month with the same presenting complaint. On his last visit he was aggressive, demanding an injection and “something to take home to stop this happening again”. Our suspicions were aroused by his demeanour and further discrete observation revealed that his posture normalised when he was unaware of being watched. He was warned of the abuse potential of procyclidine and offered the opportunity of consultation with the community psychiatric nurse. A note was made that he should have no further treatment without psychiatric evaluation. Acute dystonia can be a side effect of certain medications. It is treated with anticholinergic or antihistaminic medication. Procyclidine (Kemadrine) is the usual drug used.3 Procyclidine is an anticholinergic drug whose potential for misuse, although described, is not widely recognised.4 5 It is believed to have an euphorant effect. Indicators of misuse include absence of symptoms when a patient is unaware of being observed, dystonia of a static form, the presence of non-organic neurology, evidence of a secondary gain, or symptoms of somatisation disorder.6 If simulation is suspected a call to the patients’ general practitioner or to local emergency departments may reveal, that the patient is “shopping”.7

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NOTICES

13th Annual Congress of the European Society of Intensive Care Medicine

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Books received


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