(one myocardial infarction; one atrial fibrillation). At four hours postadmission, 14 more patients tested positive (13 myocardial infarction and one angina). At 12 hours postadmission, a further seven patients tested positive (five myocardial infarction; two angina).

Of the 19 patients diagnosed as myocardial infarction, a positive troponin T was only present in one patient on admission, and in 13 patients at four hours postadmission. All patients with myocardial infarction had a positive troponin t test at 12 hours postadmission.

The TropT slides may be useful at 12 hours to exclude myocardial injury but do not offer improved diagnosis in the diagnosis of myocardial infarction in the first hours after presentation at an accident and emergency department.

Through the trial we made some observations which should be carefully considered when using TropT slides, especially in cardiac care. One is that it is essential to ensure that 20 minutes elapse before reading the slide, as the positive line can often be faint and the stick needs to be carefully assessed. This point is especially important when using the slide, as the negative control line often develops within 10 minutes and this could lead to the stick result being misinterpreted in the absence of careful timing. These factors are likely to lead to problems in busy clinical areas, where necessary care with the timing and interpretation of the result may not always occur. (Sample handling is also important, and well mixed blood free from haemolysis is required. Since whole blood is used, haemolysis is only a concern on causing a red/brown colouration of the reading area.

We believe that when designing slide tests for use outside the laboratory, manufacturers should ensure that the strength of signal line for a positive result is clear, especially at low levels of the measured analyte. The strength of the negative control line should be equivalent to the signal line obtained by a weakly positive test and should appear after the assay reaction time has been reached to ensure that slides are not read inappropriately early.

In summary, the use of slide test results appears to be very simple but valid results are only obtained with careful and consistent use. The crucial role of the laboratory in the safe use of glucose meters outside of the laboratory is vital. Clinicians are even cattleing slide based tests for use at the patient’s bedside they should seek the advice of their laboratory in the choice, evaluation, and training of staff in the use of these systems. Only with such collaboration will such assay systems lead to improvements in patient care.

Management of major trauma

EDITOR,—With major trauma comprising 1 per 1000 emergency cases in Britain there is limited opportunity to develop expertise in the management of this condition. Many of these patients arrive at hospital during unsociable hours when accident and emergency (A&E) departments are often staffed by inexperienced junior doctors. It would be helpful if initial resuscitation there should be instant availability of experienced doctors from A&E, anaesthesia, general surgery, and orthopaedic surgery as required, and adequate radiology facilities including 24 hour computerised tomography. Unfortunately many district general hospitals are unable to provide an appropriate service from these specialties. The problem is compounded by the general apathy to trauma shown by many senior surgeons.

While we would agree with Leaman et al. that all hospitals involved in trauma care should submit data to MTOS, we would not expect the results to be encouraging. Recent analysis of data submitted both to MTOS and to the Scottish Trauma Audit Group showed mediocre results, with delays in treatment despite senior staff involvement in initial resuscitation.

It is obvious that Leaman is not a protagonist of aeromedical helicopter transport; however, in his local region 22% of the Country Ambulance missions over the last five years involved interhospital transfers. We suggest this service should continue to be used for transfers involving significant distances, where severe traffic congestion on motorway networks may result in prolonged journeys by land ambulances and for those patients whose clinical condition benefits from this method of transport, for example spinal injuries. The Glasgow Clinical Shock Study Group provides the gold standard for interhospital transportation; however, as they point out, the development of an integrated transport system involving experienced doctors is unlikely to become a realistic option in Britain due to the financial implications involved between different hospital Trusts.

C MacKay
Accident and Emergency Department, Sally Oak Hospital, Birmingham

K M PORTER
Trauma and Orthopaedics, Sally Oak Hospital, Birmingham


Management of status epilepticus with lignocaine

EDITOR,—We report a patient with status epilepticus following generalised tonic status epilepticus, who was successfully treated with intravenous lignocaine after treatment with diazepam plus phenytoin.

A 68 year old man admitted with a tonic generalised convulsion. He had a 40 year history of heavy alcohol intake and recurrent minor head trauma, although computerised tomography did not show anything untoward. Tonic generalised convulsions, each lasting for about one minute, occurred repeatedly. The interval between attacks was about 15 minutes, during which he was unresponsive to verbal stimuli. Diazepam 10 mg was given intravenously with no effect. Phenytoin 750 mg intravenously was then given and the level of consciousness improved within two hours. However, a right tonic hemiconvulsion persisted, although the interval was prolonged to three to four hours on the day after admission. Despite of the additional anticonvulsant therapy, the right tonic hemiconvulsion recurred.

An intravenous bolus of 100 mg lignocaine was therefore given during the attack, and the convulsion completely disappeared within about 30 seconds. The patient was then given a continuous intravenous infusion of lignocaine, 1 mg/min, and oral phenytoin, 300 mg/day. Status epilepticus did not recur. On day 10, the lignocaine was discontinued and convulsions did not recur thereafter. The electroencephalogram on day 12 revealed no epileptic findings.

Currently, lignocaine is considered as the third line agent in the treatment of status epilepticus when first line agents, such as diazepam and phenytoin, and second line agents, such as barbiturates, fail to control seizures.1 However, the best treatment of status epilepticus has not yet been established, although barbiturates, carbamazepine, and phenytoin are recommended.2 We gave lignocaine because of the indication of the guideline for first line agents and the possibility of respiratory depression by second line agents. A search of the literature revealed one case report of focal status epilepticus treated with lignocaine.3 This report emphasised that lignocaine does not cause sedation and rarely depresses the cardiovascular or respiratory systems when given in therapeutic dosage. The obvious effectiveness of lignocaine in our case suggests that this is a drug of choice in the treatment of status epilepticus with focal seizures.

H KATO
K HISHIKAWA
T TAKASHIMA
K OHMORI
Department of Internal Medicine, Saga Medical School, Saga 849, Japan


Decision support for telephone advice

EDITOR,—We read with interest the paper by Srinivas et al.1 Since we started researching telephone advice in A&E and general practice and have developed approaches to standardising patient assessment and advice. This includes piloting a telephone consultation training skills task package using a computer based decision support system.2 Our findings, based on an analysis of 340 calls to an A&E department, concur with those of Srinivas et al.3 We achieved 73% of calls being classified as A&E, 21% to attend their GP, and 31% given home care advice. We found similar support from the nursing staff using the system. We also found at 75% of GPs were aware that the nurse was using a computer, and the majority (75%) believed it to be a good idea to use computers to provide clinical...