Calcium for hyperkalaemia in digoxin toxicity

In their article on the management of hyperkalaemia, Dr Ahee and Dr Crowe recommend, “hyperkalaemic patients taking digoxin should be given calcium as a slow infusion over 20 to 30 minutes.” I would caution against this advice.

Hyperkalaemia is usual in acute digoxin toxicity, and not uncommon in chronic digoxin poisoning. Additionally, because it undergoes significant renal clearance, digoxin toxicity is probable in a patient with acute renal failure. Therefore, patients taking digoxin who present with ECG changes and hyperkalaemia should be considered digitoxic.

It is widely held (though at times hotly debated) that calcium administered in the setting of digoxin toxicity will probably induce arrhythmia or cardiac arrest. Immediate reversal of digoxin toxicity with digoxin antibody (Fab) fragments will rapidly reduce the serum potassium and is the treatment of choice. In the absence of Fab fragments, treatment with magnesium sulphate rather than calcium should be considered. Magnesium sulphate has been shown to be effective for digoxin induced arrhythmias and there is laboratory and some clinical evidence to suggest that magnesium exerts similar effects to that of calcium on the trans-membrane potential in the setting of hyperkalaemia.

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What about patient satisfaction following acute ankle sprains?

Investigation of the effectiveness of double Tubigrip for acute grade 1 and 2 ankle sprains through a randomised controlled trial is commendable. However, I feel compelled to comment on aspects of this study. It is interesting that 85 (17.5%) of the 485 patients approached to take part in this study expressed a treatment preference and therefore were not randomised. Given that only 197 patients completed the study, the 85 expressing a treatment preference is equivalent to a third arm of the study. The implication of their reluctance is that patients attending the accident and emergency (A&E) department after ankle injuries expect and want treatment. This confirms what is a commonly held belief in the A&E department—that a double Tubigrip, or a similar other treatment option is supportive to the patient. While this support may not be of a physical nature, it probably leads to improved patient satisfaction. To that end, I would suggest that the addition of a “patient preference” limb to the study would be as important as the existing two limbs.

It is equally interesting that the authors did not measure patient satisfaction as an outcome in this study. One important facet of any clinical treatment is that it is acceptable to patients—and the application or not of a double Tubigrip after ankle sprain is no exception. Although the authors found the application of a double Tubigrip did not shorten recovery time or number of days off work, it would be helpful to identify whether patient preference and satisfaction would have affected outcome, both in terms of actual recovery time, but also during the recovery period itself.

While in agreement that patient education might reduce reliance on this type of treatment, in the context of a busy A&E department, this may not be practical, and the current approach probably provides sufficient patient satisfaction.

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Author’s reply

We thank Miss Mason for her comments on our paper. Firstly, we certainly agree that the investigation of patient preference for a treatment is an important and interesting factor in a study such as ours and indeed we set out to include this group in our research. Patients who expressed a treatment preference and agreed to the follow up telephone questionnaire were enrolled and were given the treatment of their choice. The aim was to compare their outcomes and satisfaction scores (see below) with those who were randomised to treatment. However, because of a communication error at one of the study sites, a large number of the preference group were not followed up, making comparison with the randomised group impossible.

Secondly, we did attempt to measure patient satisfaction as an outcome measure in our study. Patients were asked how strong their preference for treatment with or without a double Tubigrip bandage was on enrolment, using a 0 (no preference) to 10 (very strong preference) scale. When telephoned a week after entry, patients were asked to rate their overall satisfaction with the treatment they had received from 1 (very dissatisfied) to 10 (very satisfied). However, when we came to analyse the data we found that both these questions were poorly answered and we therefore did not include this information in our final paper. The raw results are shown in table 1.

It would seem from these raw data that of those patients who expressed a treatment preference (while agreeing to randomisation), the majority would have preferred to be treated with a double Tubigrip bandage, as expected by most clinicians. However, when asked to rate their overall satisfaction with treatment, there is no difference between the groups.

We feel that provided patients are given comprehensive information about their injury and what they should do to hasten recovery, satisfaction can be maintained without the reflex application of a bandage that adds nothing to recovery and may increase the need for analgesia.

B Watts
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Table 1

<table>
<thead>
<tr>
<th>Preference for DTG (%)</th>
<th>DTG group</th>
<th>No DTG group</th>
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<tr>
<td>73 (76.8)</td>
<td>77 (77.8)</td>
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<tr>
<td>22 (23.2)</td>
<td>22 (22.2)</td>
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References


If you have a burning desire to respond to a paper published in EMJ, why not make use of our “rapid response” option? Log on to our web site (www.emjonline.com), find the paper that interests you, and send your response via email by clicking on the “eLetters” option in the box at the top right hand corner. Providing it isn’t libellous or obscene, it will be posted within seven days. You can retrieve it by clicking on the “read eLetters” on our homepage. The editors will decide as before whether to also publish it in a future paper issue.

References

Two cases of near asphyxiation in children, using non-releasing plastic garden ties

We read with interest the emergency casebook featuring two cases of near asphyxiation.1 It is our practice to admit all cases of near strangulation who present early with signs or symptoms in keeping with the history for a period of observation. We adopt this policy on the basis that it is possible to miss occult, significant upper airway pathology in victims of near strangulation2 and airway obstruction can present as late as 36 hours after such an event.3 In addition it is possible to overlook visual impairment in such patients as subtle changes in visual acuity may not initially be apparent.4 Cases of near asphyxiation in children are not widely reported in the literature and therefore it is difficult to have an evidence based admission/discharge policy. Are we being over cautious?

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References

Author’s reply

We agree entirely, the experience with asphyxiation in children is limited and therefore there is no evidence base as to what is the most appropriate admission/discharge policy. At the Birmingham Children’s Hospital we are fortunate in being able to observe less sick children in an accident and emergency based observation bay, in case they get delayed respiratory symptoms, and therefore do not need to admit many children to the paediatric wards.

We were interested to note the reference to subtle changes in visual acuity by Baldwin et al.4 This suggests it would be wise to consider visual acuity testing a few weeks after such an incident and we would certainly look towards arranging ophthalmological follow up with these patients in the future.

N Makkwana
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Reference

Tuberculous osteomyelitis

Yuen and Tung describe a case of tuberculous osteomyelitis of the foot.5,6 The case report illustrates the potential difficulties in making the diagnosis. The authors were fortunate enough to have typical histological biopsy findings that subsequently cultured Mycobacterium tuberculosis (TB), providing diagnostic confirmation and estimations of sensitivities. However, in many instances, the diagnosis of tuberculosis is difficult to verify. For instance, acid fast bacilli may not be identified on biopsy or may be non-tuberculous in origin. Additionally, subsequent culture confirmation can take several weeks or may fail completely, because of the fastidious nature of TB. Although the reliance on clinical suspicion is the basis for the diagnosis of many cases of TB, definitive confirmation is desirable in view of the long term nature of treatment. It is also important to ensure that the organism is not resistant to the chemotherapeutic regimen being used, particularly with the increasing incidence of multidrug resistant TB strains. A number of molecular techniques have been developed to facilitate this. The use of the polymerase chain reaction to amplify specific TB DNA sequences permits a rapid confirmation of the diagnosis and an estimation of drug sensitivity.7 These techniques have been successfully used on both clinical specimens and culture material.8 Thus, acid fast bacilli can rapidly be identified as Mycobacterium tuberculosis and an estimation of rifampicin sensitivity can be obtained in a matter of days, free from the constraints of waiting up to several weeks for the standard culture to grow. These techniques should therefore be considered particularly if the clinical findings are subtle or atypical.

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References

Authors’ reply

We thank Dr Ho for his comment on our article reporting a young patient with tuberculous osteomyelitis.7 We wrote the article from the perspective of emergency medicine. Although polymerase chain reaction (PCR) is a good adjunct to microbiological culture for diagnosing mycobacterium tuberculosis, it is not available to the majority of emergency physicians in Hong Kong. None the less, we should discuss it briefly so that our article is more informative to readers.

Without argument, PCR provides an opportunity for early diagnosis and treatment. However, we should also note the limitation of the PCR especially when the PCR result is negative.

In 1998 Shah et al reported the accuracy of the AMPLICOR PCR test in diagnosing mycobacterium tuberculosis in tissue and body fluid specimens.8 In this study, culture proof was adopted as the gold standard for diagnosing tuberculosis. Although 1032 patients were included in this study, only 34 specimens were positive for tuberculosis. Therefore, the sample size was too small and the 95% confidence interval of the sensitivity was too wide to suggest that PCR would not miss the diagnosis of mycobacterium tuberculosis. In this study, the PCR had a sensitivity of 76.4%, a specificity of 98%, and an accuracy of 78% when results were compared with the gold standard. With the high specificity, PCR is a good “rule in” test. However, PCR should not be used as a “rule out” test because of the high false negative rate.

In 2000 Lim et al reported the accuracy of the AMPLICOR PCR test in diagnosing pulmonary tuberculosis in smear negative respiratory tract specimens.9 The PCR test had a low sensitivity of 44% and a high specificity of 99%.10

With evidence from both studies, a positive PCR test result facilitates early diagnosis, but a negative PCR test result cannot exclude mycobacterium tuberculosis. At the moment, microbiological culture remains the gold standard for diagnosing tuberculosis and a high index of suspicion for tuberculosis is the key to diagnosis.

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References

Journal clubs in clinical medicine

Journal clubs in clinical medicine have long been recognised as a useful tool for keeping up to date with new developments.9 More recently they have been used as a tool for teaching of critical appraisal,10 which for emergency medicine trainees in the UK is an important part of their further fellowship examination.

Since the inception of our journal club we have noticed a subtle change in both the quality and quantity of papers in the journals that we chose to review. This made it more difficult to combine both the educational value of critical appraisal and keeping up to date with the relevant advances in our specialty so that we can apply our practice of evidence based medicine.

To address this we undertook to review our choice of journals to try to increase our yield of relevant articles. After finding a complete journal list from Medline a consensus opinion was reached on the basis of relevance to practice, past experience of quality of papers, and personal choice. The number of times per year that the journals, or groups of journals, are reviewed depends on the number of issues per year and the likelihood of finding papers relevant to emergency medicine in them.

The complete list of journals and their review rates is shown in table 1.

We believe that all departments with a journal club should regularly revise their selection of journals in order to increase the value of this important educational process.

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Correspondence to: Professor K. Mackway-Jones
A misdiagnosed fracture of the calcaneum

I am writing in response to the interesting case report of “A misdiagnosed fracture of the calcaneum.” The author, having accepted the original diagnosis of partial Achilles tendon rupture was incorrect, suggested on expanding the criteria for radiological assessment in doubtful clinical cases. It was obvious from the history that the injury was sustained as a result of minimal trauma, in a patient with significant risk factors for osteoporosis. Coupled with an examination finding of a palpable gap in the Achilles tendon/calcaneal complex, the incorrect diagnosis was made solely on a negative Simmonds test. With these clinical findings and the published lateral radiograph of the calcaneum, I do not accept the original opinion of a negative Simmonds test. Simmonds or similarly Thompson’s test, has been shown to be a reliable sign for complete Achilles disruption, with a diagnosis of partial rupture being a rare occurrence!

The lesson to be learnt from this case is not how to increase our diagnostic accuracy with radiology, but the importance of taking a good history and performing a sound clinical examination. The last thing we need is to generate protocols and criteria to make up for our shortcomings. Please note the correct spelling for Simmonds!

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References

Screening for alcohol misuse

The Paddington Alcohol Test (PAT) confers considerable advantage over the CAGE as the accident and emergency (A&E) screen for alcohol misuse. Hadida et al’s commendable study identified 28% (out of 413) A&E attendees as having an alcohol related problem. A pilot study using the CAGE, run in our department a decade ago, had a very low pick up rate, which was one of the reasons behind the development of the PAT. Our recent study, using the PAT, had an overall detection rate of 6.4% rising to 9.8% in the third month after intensive audit and feedback.

Four features could explain the discrepancy:

(1) in the PAT study only 61.1% of patients had presenting complaints mandating the test. The detection rate for this group (in month 3) was 14.3%.
(2) in this group, 62 patients (of 286) were missed—that is, did not have the test applied.
(3) the Hadida et al study identified a number of misusers by “staff assessment”. The basis of this assessment is unclear. Two questions are paramount: (a) Was an alcohol history taken?, (b) Did the patient agree with the doctor/nurse’s assessment?
(4) the Hadida et al study effectively had an extra member of staff run the screening protocol—whereas PAT usage simply reflects our own routine practice, with no extra staffing.

Studies suggest the CAGE detects dependent rather than hazardous drinkers, a point rightly discussed by Hadida et al, and emphasised elsewhere. Compared with dependent drinkers, hazardous drinkers (earlier on in their drinking history) are more likely to respond to brief interventions.

The PAT is designed specifically for use by A&E practitioners to detect hazardous as well as dependent drinkers. Detection is not indiscriminate but guided by “The Top Ten” presenting conditions, whereby screening is targeted and most effective. Furthermore, question 3 of the PAT—“do you feel your current attendance in A&E is related to alcohol?”—helps reinforce the idea that their presenting problem may be alcohol related, even if the patient were to refuse help on this occasion.

As the number of A&E departments that work with alcohol health workers increases it is hoped that the worth of the PAT will be further recognised.

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Correspondence to: Mr R Touquet

References

Authors’ reply

We thank Huntley and colleagues for their comments on our paper. They make the point that the Paddington Alcohol Test “is a better instrument for screening for alcohol problems in the emergency department than the CAGE.” We would not take issue with this.

The main aim of our study was not to investigate the sensitivity and specificity of
different screening tests, but rather to show the feasibility of screening high proportions of patients as a first step towards intervention. We successfully screened 413 of 429 patients (96%), a much higher proportion than other studies. As Huntley et al pointed out, this may reflect the fact that we effectively had an extra member of staff to run the screening. In addition we chose to recruit a representative flow sample of patients rather than consecutive attenders.

A further aim of our study was to ascertain whether different screening instruments identified different groups of patients. Our results suggested that they did, and we suspect that this would have been the case regardless of the precise screening instrument used in the study. The main point is that patients presenting to the emergency department with alcohol problems are a complex and heterogeneous group. Blanket approaches to treatment are unlikely to work and we need to target specific interventions to those patients who might most benefit.

As regards assessment tools, a brief alcohol history was taken by the researcher interviewing the patients. The staff assessment consisted simply of the interviewer asking the member of emergency department staff who had seen the patient whether they thought the patient agreed with the staff assessment in their decision as to whether the patient had alcohol problems or not. The patient agreed with the staff assessment in 29 of 76. There was a higher level of agreement between the patient and the CAGE assessment, with agreement in two thirds of cases (49 of 75).

We would strongly support the use of such tools as the PAT and the CAGE to screen for alcohol problems in the emergency department. However, for this to be a useful process all emergency department attenders need to be screened. Screening programmes that miss significant numbers of patients are unlikely to be worthwhile.

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References


Save lives, save limbs


“Save lives save limbs” by Hans Husum and his colleagues is a book that is attractive, full of information, and, although at times it reads like a heart tugging novel, retains its educational value. In a concise and well illustrated manner the book describes the total care of the victims of anti-personnel weapons. It should appeal to everyone interested in prehospital care and is, in my opinion, one of the few books those who find themselves working outside the luxurious resources of Western hospitals. The authors have substantial experience of working in adversity and they try to offer a solution to the inadaptable resources usually found where most of these injuries occur.

It begins with a well illustrated description of the types of mines and the injuries they cause—a vital but common form of prehospital care. ATLS techniques are described in detail and there is an excellent theme of control in trauma care. Technical details are supported by the simple layout. One can learn the basic techniques of life and limb preservation and once learnt it is our duty to pass on the knowledge. The simple statements and clear illustrations, often in cartoon form, prove that the author themselves followed this ideal and urge the concept of the “Village University”.

There is an academic quality to this book as well as practical advice on prehospital care, surgical techniques, anaesthesia, and nutrition. The physiological importance of fear is emphasised with an example of how to calm a patient while organising their removal from a minefield—a vital but common form of prehospital care in the real world. Every subject is illustrated by, inspiring, examples of ordinary people—some qualified in medicine or nursing and others not—who have saved life and limbs by using their skills.

Trauma specialists are no use if they are three days travel away from the casualty. The possession of higher surgical qualifications at a distance count for nothing compared with limited but immediately. An impressive proof of this fact is the use of limited laparotomy when isolated from a major hospital. The book describes how to stop bleeding and leave the complex visceral repair to the “experts” after transfer. There is an excellent example of an Afghanistn nurse successfully undertaking imperative “damage control” laparotomy for intra-abdominal bleeding; movement of the casualty to a hospital was then possible because of the likelihood of aerial fighter attack during daylight hours! Quite possibly this type of treatment would lead to a reduction in the incidence of the increasingly recognised “abdominal compartment syndrome”.

Very few engaged in trauma care would fail to gain some new knowledge or insight from this excellent, “one sitting read”. Despite its simple format the book is an excellent text for UK trainees and demonstrates universally applicable methods while using common sense to underline theory.

The book confirms that “knowledge is power”, especially when it is shared. It is
obviously aimed at developing countries but I would recommend that this book find a place in all NHS hospital libraries. Perhaps when junior doctors in the United Kingdom are feeling overworked and consultants believe that they are underpaid a review of this book would lead them to ponder on their good fortune.

J P Beavis

Key topics in accident and emergency medicine, 2nd edn

This is the second edition of a book that will be already familiar to most trainees and consultants in emergency medicine. Speaking from personal experience this excellent text index related topics are arranged at the start of the book. It is not intended as a comprehensive textbook but refreshingly focuses on specific clinical areas of common subjects. The book takes the reader alphabetically through a progression of 94 topics covering everything from “adder bites” to “whist injuries” with each topic covering more than five to six pages. Each section covers the essential facts, clearly presented with a strong emphasis on the clinical aspects relevant to emergency medicine practice. The format is easy readable with each section subdivided to include the salient features of epidemiology, clinical symptoms and signs, investigations, treatment and procedures as well as the medicolegal aspects. Pertinent references and index related topics are available at the end of the book. One might expect residents to carry it around in their pockets, referring to it with decreasing frequency as their confidence grows. Many published handbooks reflect the practice in a given unit, designed to be used in that unit with all the protocols for that unit documented and expanded upon. As such they will probably travel badly.

The new edition has been updated to reflect the changing practice of emergency medicine in the UK including greater coverage of paediatric issues. New sections have been written on current issues such as ecstasy and γ-hydroxybutyrate use and on controversial clinical techniques such as rapid sequence intubation. The new text reflects the development of the specialty including chapters referring to the BAEM guidelines on the management of radiation casualties and chemical incidents. There is even a chapter listing the FFAEM core curriculum to act as a sobering reminder to any trainee preparing to sit the exit examination.

Much of the content will be revision for many of us but the design and layout allows the text to be used for rapid access to important facts. The book fits easily into a locker or cupboard in the emergency department and can be used as an immediate reference during busy clinical days. During my time as an SpR I have found this text to be particularly useful as a teaching aid for SHOs (especially for those occasional sessions on outpatients and anaesthetics).

This latest edition to the successful Bios series provides an excellent reference and revision text for busy clinicians, especially anyone preparing for postgraduate examinations.

J M Butler

Resuscitation in primary care

I have a thing about “whinging” GPs (despite the fact that my three children believe that it is me). I get really irritated by the person who stands up at a clinical meeting and tells his hospital colleagues “that’s all right for you in your ivory tower but out there in the real world”. So when I saw this book I thought is this another attempt by primary care to demonstrate its need to be independent of our hospital colleagues? We have an excellent resuscitation manual produced by the Resuscitation Council—why do we need this? Then I sat down, took my cynic’s hat off, and looked at the situation once again. I got out my Advanced Life Support Course Manual and went up against this. The book could easily be used as a manual for an ALS Course—specifically for out of hospital practitioners. I will resist the temptation—it may however be worth thinking about.

“Resuscitation in primary care” not only goes over all the relevant material with regard to prehospital cardiac resuscitation but also covers resuscitation of infants, children, and the newly born—in my experience areas that give rise to a lot of worries in prehospital care practitioners. It does all this in 132 A5 size pages of reasonably large type therefore it is not a long read. It contains all the European Resuscitation Council Algorithms relevant to pre-hospital care. Resuscitation and covers all the aspects of resuscitation in relevant detail and also covers anaphylaxis. Therefore this book could easily be used as a manual for a prehospital ALS Course.

My only criticism would be the method of LMA insertion described in the book. This is not the method recommended by the manufacturers.

This book is worth keeping in mind for all those who teach cardiac resuscitation in prehospital care.

J Colville Laird

Eye know how

Ophthalmology is a tricky area for many staff in accident and emergency (A&E). There are few true ophthalmic emergencies but many semi-urgent conditions that could benefit from early diagnosis and treatment. Unfortunately, ophthalmology is increasingly being squeezed from the undergraduate curriculum and many in A&E will be relatively unfamiliar with this important topic.

“Eye know how” is certainly a catchy title for a book aimed at the non-opthalmologist dealing with ocular problems. It claims to concentrate on the common complaints seen in primary care and A&E. The structure of the book has something to commend it as the authors have adopted a presentation lead approach to ocular problems with decision trees to aid diagnosis. Unfortunately, these, as with the rest of the books content, appear to be based on the authors current practice and opinions rather than any published evidence. There are no references and I would argue that there is published evidence in direct contradiction to the authors opinions for common conditions such as corneal abrasions.

However, the greatest criticism of this book must be the lack of pictures and diagrams. Ophthalmology is, by any reckoning, a visual specialty and despite the authors premise that pictures are not required to learn the basics I cannot agree with this. The black and white photographs in the book are generally of an extremely poor quality. While they point out that other texts with colour photos are more expensive, they are in my opinion worth it as so much of ophthalmological diagnosis is aided by pattern recognition.

Would I buy this book? Personally I would not. I would save up a little longer for a text with colour illustrations and slides.

S D Carley

Handbook of pediatric emergencies, 3rd edn

“We have really everything in common with America nowadays, except, of course, language.”

Oscar Wilde, “The Canterville Ghost”, 1887

A good handbook should provide ready access to relevant information in a readable format. One might expect trainees to carry it around in their pockets, referring to it with decreasing frequency as their confidence grows. Many published handbooks reflect the practice in a given unit, designed to be used in that unit with all the protocols for that unit documented and expanded upon. As such they will probably travel badly.

There are many areas in which this book is commendable. The chapters have relevant headings and follow a logical pattern. Flow diagrams are well presented. Protocols are logical and relevant to most practices, as are the references at the end of the chapters and sections. These, however, have a significant bias to North American publications, ignoring publications from other geographical areas. Is their Medline different to ours?!

Now, however, we come to Oscar Wilde (see above). This book is driven by North American practice, associated with North American phraseology, terminology and usage. Those of us who get most of our CME from watching “ER” and “Chicago Hope” will probably be familiar with much of the terminology (CVC, BUN, etc). While this is little more than an irritant it does detract from the relevance to United Kingdom practice.

I tried to gain some insights in to the management of some of the children in the casualty department by delving into the book, after I had seen the patients. In the main I agreed with the principles of care described, but there were areas where I would not agree with the authors. I was particularly disappointed not to be able to find anywhere in the book a description of how to perform a femoral nerve block. Surely this would be much more important to include than fig 15.2 showing how to remove a foreign body from an ear?
How does this book fare? The clinical data are good, but the style (and North American slant in particular) detracts from its appeal on this side of the pond. Other than that, Oscar Wilde says it all!

**T F Beattie**

**Injury control: a guide to research and program evaluation**


This book aims to catalogue the research designs available for all those involved in injury control and research. It is aimed particularly at those who wish to improve their understanding, review injury research or conduct research in the field, so essentially it is a reference text. It is a hard backed book, 280 pages long, written by a group of epidemiologists and trauma surgeons from Harbourview Medical Center in Seattle.

To a large extent this book is successful in its aim. It has 20 chapters and begins with a historical review of what injury research has achieved to date. The future challenges of improved management for traumatic brain injury, multi-organ failure prevention and the measurement of disability are laid before us.

The first half of the book lays the baseline and describes injury scoring systems, the use of secondary databases, how to select the correct study design and issues such as sampling. Some of these first 10 chapters are useful, others, such as that on rates and epidemiological principles, lack worked examples that would have helped when explaining issues, such as the difference between direct and indirect standardisation and the different forms of regression analysis.

Despite its omissions this book is a useful reference text for those undertaking research in injury and those wishing to broaden their knowledge and understanding with some focused reading. Injury control needs a clinician’s as well as an epidemiological perspective.

**F Lecky**

**999 EMS Research Forum Board**

The 999 EMS Research Forum Board is accepting abstracts for presentation at AMBEX 2002. Papers are invited on all areas of prehospital emergency healthcare. Papers for consideration should be submitted by 6 May 2002.

To obtain an official submission form email Anne Surman at a.g.surman@swan.ac.uk or write to Anne at the Clinical School, University of Wales Swansea, Singleton Park, Swansea SA2 8PP.

**Submissions**

Authors of the most original and interesting scientifically based work in the prehospital arena will be invited to present their study in either an oral or poster presentation during sessions at AMBEX 2002.

All work must be original and must not have appeared in a national journal or have been presented at a national meeting prior to the submission deadline.

All abstracts accepted by peer review will be published in the **Emergency Medical Journal**.

**Awards**

Cash awards will be given for:
- research most likely to impact on patient care
- most original research
- best poster

**CORRECTION**

An editorial error occurred in this article by Tewary and Cawte (January 2002;19:81). The illustration was used by permission from Disney Enterprises, Inc. We apologise that this statement was omitted from the article.