

# *Journal of Accident & Emergency Medicine*

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- 32 GISSI (Gruppo Italiano per lo Studio della Streptochinasi nell'Infarto miocardico) A factorial randomized trial of alteplase versus streptokinase and heparin versus no heparin among 12,490 patients with acute myocardial infarction. *Lancet* 1990;336:65-71.
- 33 Chesbro JH, Knatterud G, Roberts R, Borer J, Cohen LS, Dalen J, et al. Thrombolysis in myocardial infarction (TIMI) trial, phase I: a comparison between intravenous tissue plasminogen activator and intravenous streptokinase. Clinical findings through hospital discharge. *Circulation* 1987;76:142-54.
- 34 O'Donnell M. Battle of the clotbusters. *BMJ* 1991;302:1259-61.
- 35 Global utilization of streptokinase and tissue plasminogen activator for occluded coronary arteries (GUSTO) Investigators. An international randomized trial comparing four thrombolytic strategies for acute myocardial infarction. *N Engl J Med* 1993;329:673-82.
- 36 Global utilisation of streptokinase and tissue plasminogen for occluded coronary arteries (GUSTO) investigators. The effects of tissue plasminogen activator, streptokinase or both on coronary artery patency, ventricular function and survival after acute myocardial infarction. *N Engl J Med* 1993;329:1615-22.
- 37 Lee KL, Califf RM, Simes J, Van der Werf F, Topol EJ. Holding GUSTO up to the light: global utilisation of streptokinase and tissue plasminogen activator for occluded coronary arteries. *Ann Intern Med* 1994;120:876-81.
- 38 Leizorovicz A, Boissel JP, Julian D, Castaigne A, Haugh MC (The European Myocardial Infarction Project Group). Prehospital thrombolytic therapy in patients with suspected acute myocardial infarction. *N Engl J Med* 1993;329:383-9.
- 39 Weaver WD, Cerqueira M, Hallstrom AP, Litwin PE, Martin JS, Kudenchuk PJ, et al, for the Myocardial Infarction Triage and Intervention (MITI) Project Group. Prehospital-initiated versus hospital-initiated thrombolytic therapy. *JAMA* 1993;270:1211-6.
- 40 Weaver WD, Eisenberg MS, Martin JS, Litwin PE, Shaeffer SM, Ho MT, et al. Myocardial Infarction Triage and Intervention Project—phase 1: patient characteristics and feasibility of prehospital initiation of thrombolytic therapy. *J Am Coll Cardiol* 1990;15:925-31.
- 41 Pell ACH, Miller HC. Delays in admission of patients with acute myocardial infarction to coronary care: Implications for thrombolysis. *Health Bull* 1990;48:225-31.
- 42 Rawles J. Halving of mortality at one year by domiciliary thrombolysis in the Grampian Region Early Anistreplase Trial (GREAT). *J Am Coll Cardiol* 1994;23:1-5.
- 43 Weston CFM, Penny WJ, Julian DG, on behalf of the British Heart Foundation working Group. Guidelines for the early management of patients with myocardial infarction. *BMJ* 1994;308:767-71.
- 44 Eisenberg MS. Reducing the door to drug interval for thrombolytic therapy. *Acad Emerg Med* 1995;2:579-80.
- 45 Pell ACH, Miller HC, Robertson CE, Fox KAA. Effect of 'fast track' admission for acute myocardial infarction on delay to thrombolysis. *BMJ* 1992;304:83-7.
- 46 Birkhead JS. Time delays in provision of thrombolytic treatment in six district hospitals. Joint Audit Committee of the British Cardiac Society and a cardiological committee of the Royal College of Physicians of London. *BMJ* 1992;305:445-8.
- 47 Nee PA, Gray AJG, Martin MAM. Audit of thrombolysis initiated in an accident and emergency department. *Quality in Health Care* 1994;2:29-33.
- 48 Vincent R. Advances in the early diagnosis and management of acute myocardial infarction. *J Accid Emerg Med* 1996;13:74-9.
- 49 Mulrow CD. Rationale for systematic reviews. In: Chalmers I, Altman DG, eds. *Systematic reviews*. London: BMJ publishing group, 1995.

## THE FACULTY OF ACCIDENT AND EMERGENCY MEDICINE SPECIALTY EXAMINATION

The Specialty Examination of the Faculty of Accident and  
Emergency Medicine will be held on the following dates

21/22 May 1997 at the Royal College of Surgeons of  
Edinburgh Closing date - 26 March 1997

Fee - £550

12/13 November 1997 at the Royal College of Surgeons  
of England Closing date - 17 September 1997

Fee - £600

Regulations and application forms are available from:

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appropriate, and used clinical judgement to reduce the number of radiographs requested, though not as few as the American guidelines would have indicated.

Guidelines for admission were also not followed accurately, but not to the same extent as with skull radiography. Only 2.3% of patients were inappropriately discharged but we have no evidence that they came to harm. More encouragingly, only 0.7% of patients were inappropriately admitted. Our rate of admission was 8.6% (theoretically 10.3% needed admission), compared to between 13 and 25% in other studies.<sup>6,7</sup> It is therefore apparent that no substantial savings on resources would have been made if the guidelines for admission were adhered to completely.

It also becomes apparent that the use of guidelines demands constant reappraisal especially in A&E departments where junior staff changes every six months. The use of posters as a reminder of guidelines has been advocated and tried successfully in other departments.<sup>8</sup>

#### CONCLUSIONS

We conclude that the use of the British guidelines for skull radiography in children in our A&E department creates a large demand for

radiography (63% of attenders). The use of the American guidelines appears to reduce the number of radiographs requested in children presenting with head injury, without apparent risk of missing significant injury or skull fracture. We therefore recommend the use of the American guidelines along with techniques for ensuring their uptake.

- 1 Brookes M, MacMillan R, Culley S, Anderson E, Murray S, Mendelow D, et al. Head injury in Accident & emergency departments: how different are children from adults? *J Epidemiol Community Health* 1990;44:147-51.
- 2 Briggs M, Clarke P, Crockard A, Cummins B, Galbraith S, Garfield G, et al. Guide lines for the initial management after head injury in adults. Suggestions from a group of neurosurgeons. *BMJ* 1984;288:983-5.
- 3 Teasdale GM, Murray G, Anderson E, Mendelow AD, MacMillan R, Jennett B, et al. Risks of acute intracranial haematoma in children and adults: implications for managing head injuries. *BMJ* 1990;300:363-70.
- 4 Masters SJ, McClean PM, Acarese MS, Brown RB, Campbell JA, Freed HA, et al. Skull x-ray examinations after head trauma. Recommendations by a multidisciplinary panel and validation study. *N Engl J Med* 1987; 316:84-91.
- 5 Clarke JA, Adams JE. The application of clinical guidelines for skull radiography in the accident and emergency department: theory and practice. *Clin Radiol* 1990;41: 152-5.
- 6 Boulis ZF, Dick R. Head injuries in children—aetiology, symptoms, physical findings and X-ray wastage. *Br J Radiol* 1978;51:851-4.
- 7 Miller JD. Changing patterns in acute management of head injury. *J Neurol Sci* 1991;103:33-7.
- 8 McNally E, de Lacey G, Lovell P, Welch T. Posters for accident departments: simple method of sustaining reduction in x-ray examinations. *BMJ* 1995;310:640-2.

## INJURY RESEARCH GROUP

The Annual meeting will be held in Oxford on 24-25 March 1997. There will be a session of free communications and symposia on aspects of the immunological response to trauma. For details, contact:

Dr R N Barton  
North Western Injury Research Centre  
Stopford Building  
Oxford Road  
Manchester M13 9PT  
Tel: 0161 275 5188; Fax 0161 275 5190

- 1 O'Halloran SM, Heaf DP. Accident and emergency department attendances by asthmatic children. *Thorax* 1989;44:700-5.
- 2 Kwong T, Town I, Holst PE, Beasley R. A study of management of asthma in a hospital emergency department. *NZ Med J* 1989;102:547-9.
- 3 Dales RE, Schweitzer J, Kerr P, Gougeon L, Rivington R, Draper J. Risk factors for recurrent emergency department visits for asthma. *Thorax* 1995;50:520-4.
- 4 Rossi OVJ, Kinnula VL, Huhti E. Emergency room visits for acute attacks of asthma: characterisation of patients and visits. *Respiration* 1991;58:21-5.
- 5 Chidley KE, Wood-Baker R, Town GI, Sleet RA, Holgate ST. Reassessment of asthma management in an accident and emergency department. *Resp Med* 1991;85:373-7.
- 6 Coonar AS, Nayeem N, Bowell CP, Shires SR. Adult asthma assessment in an accident and emergency department. *J R Soc Med* 1994;87:330.
- 7 Newcomb RLL, Akhter J. Outcomes of emergency room visits for asthma. *J Allergy Clin Immunol* 1986;77:309-14.
- 8 National Heart, Lung & Blood Institute, National Institutes of Health. International consensus report on diagnosis and management of asthma. Publ No 92-3091, 1992.
- 9 British Thoracic Society, British Paediatric Association, Royal College of Physicians of London, The Kings Fund Centre, The National Asthma Campaign, et al. Guidelines on the management of asthma. *Thorax* 1993;8:S1-24, and (summary charts), *BMJ* 1993;306:776-82.
- 10 Anderson HR. Increase in hospital admissions 1970-1985. *Thorax* 1989;44:614-9.
- 11 Kun HY, Oates RK, Mellis CM. Hospital admissions and attendances for asthma—a true increase? *Med J Aust* 1993;159:312-3.
- 12 Garrett JE, Mulder J, Veale A. Trends in the use of an urban accident and emergency department by asthmatics. *NZ Med J* 1988;101:253-5.
- 13 Blainey AD, Beale A, Lomas D, Partridge MR. The cost of acute asthma—how much is preventable? *Health Trends* 1991;22:151-3.
- 14 Souza WD, Crane J, Burgess C, Te Karv H, Fox C, Harper M, et al. Community-based asthma care: trial of a "credit card" asthma self management plan. *Eur Respir J* 1994;7:1260-5.
- 15 Wilson SR, Scamagas P, German DF, Hughes GW, Lulla S, Coss S, et al. A controlled trial of two forms of self management education for adults with asthma. *Am J Med* 1993;94:564-76.
- 16 Yoon R, McKenzie DK, Bauman A, Miles DA. Controlled trials evaluation of an asthma education programme for adults. *Thorax* 1993;48:1110-6.
- 17 Bailey WC, Richards JM, Brooks M, Soong S-J, Windsor RA, Manzella BA. A randomized trial to improve self management practices of adults with asthma. *Arch Intern Med* 1990;150:1664-8.
- 18 Ignacio-Garcia J, Gonzales-Santos P. Asthma self management education program by home monitoring of peak expiratory flow. *Am J Respir Crit Care Med* 1995;151:353-9.
- 19 Raynor DK, Booth TG, Blenkinsopp A. Effect of computer generated reminder charts on patients compliance with drug regimens. *BMJ* 1993;306:1158-61.
- 20 Pedersen S. Ensuring compliance in children. *Eur Resp J* 1992;5:143-5.
- 21 Partridge MR. Asthma education; more reading or more viewing? *J R Soc Med* 1986;79:326-8.
- 22 Mulloy EMT, Albazark MK, Warley ARH, Harvey JE. Video education for patients who use inhalers. *Thorax* 1987;42:719-20.
- 23 Neville RG, Clark RA, Hoskins G, Smith B. First national audit of acute asthma attacks in general practice 1991-1992. *BMJ* 1993;306:559-62.
- 24 Neville RG, Clark RC, Hoskins SG, Smith B (for the General Practitioners in Asthma Group). GPIAG National audit of asthma attacks 1994;7:142S.
- 25 Taylor MR. Asthma—audit of peak flow guidelines for admissions and discharges. *Arch Dis Child* 1994;70:432-4.
- 26 Dale J, Green J, Reid F, Glucksmann E, Higgs R. Primary care in the accident and emergency department II: comparison of general practitioners and hospital doctors. *BMJ* 1995;311:427-30.
- 27 Connert GJ, Warde C, Wooler E, Lenney W. Audit strategies to reduce hospital admissions for acute asthma. *Arch Dis Child* 1993;69:202-5.
- 28 Hendricson WD, Wood PR, Hidalgo HA, Krumer ME, Parcel GS, Ramirex AG. Implementation of a physician education intervention: the childhood asthma project. *Arch Pediatr Adolesc Med* 1994;48:595-601.
- 29 Town L, Kwong T, Holst P, Beasley R. Use of a management plan for treating asthma in an emergency department. *Thorax* 1990;45:702-6.
- 30 Duke T, Kellerman A, Ellis R, Arheart K, Self T. Asthma in the emergency department: impact of a protocol on optimising therapy. *Am J Emerg Med* 1991;9:432-5.
- 31 Hadfield JM, Yates DW, Berry A. The emergency department and the community: a model for improved cooperation. *J R Soc Med* 1994;87:663-5.
- 32 Rao JN. Follow up by telephone. *BMJ* 1994;309:1527-8.

### *Referees for the Journal of Accident & Emergency Medicine*

All papers submitted for publication in the *Journal of Accident & Emergency Medicine* undergo peer review. As a result of the continuing rise in the number of papers received the Journal seeks additional referees.

This is an interesting and stimulating activity. The Editorial Office ensures that the workload for referees is not onerous and guidelines are provided to allow a structured critique of each paper. Referees are expected to return comments within three weeks of receipt of the manuscript.

Please contact the Editor, *Journal of Accident & Emergency Medicine* at BMA House, Tavistock Square, London WC1H 9JR, telephone 0171-383-6795, fax. 0171-383-6668, stating your present appointment and any areas of special expertise. Reviewers are particularly welcome from other specialties with an interest in *Emergency Medicine* and from outside the U.K.

survival, it must be a decision that is always taken by the most experienced and in line with peer reviewed guidelines. We need to develop and evaluate criteria for admission to ICU and CCU after cardiopulmonary arrest. The decision to keep a patient on the ward will critically affect outcome. This is a decision that should be taken by a consultant. We recommend strongly that the use of intensive care facilities in the postarrest period should be monitored far more closely and recommendations developed. Our findings are to be followed up with a more detailed study to include information on the underlying disease and the nature of the cardiopulmonary arrest.

We are indebted to Wythenshawe Hospital resuscitation committee for their assistance and to the consultants for access to records of their patients; we thank Dr N H Brooks, consultant

cardiologist, Dr K Shearer, hospital practitioner in cardiology, Wythenshawe Hospital, for their valuable comments.

- 1 Redmond AD. Postresuscitation care. ABC of resuscitation. London: BMJ Publishing Group, 1991:37-9.
- 2 Hershey CO, Fisher L. Why outcome of cardiopulmonary resuscitation in general wards is poor. *Lancet* 1982;ii:31-4.
- 3 European Resuscitation Council Working Party. Adult ACLS: the European Resuscitation Council guidelines 1992. *BMJ* 1993;306:1589-93.
- 4 Gustafson I, Edgren E. Brain-orientated intensive care after resuscitation from cardiac arrest. *Resuscitation* 1992;24:245-61.
- 5 Bedell SE, Delbanco TL. Survival after cardiopulmonary resuscitation in the hospital. *N Engl J Med* 1983;309:569-608.
- 6 Tunstall-Pedoe H. The BRESUS study. *BMJ* 1992;304:1347-51.
- 7 Levy RD, Rhoden WE. An audit of drug usage for in-hospital cardiopulmonary resuscitation. *Eur Heart J* 1992;13:1665-8.
- 8 Thomassen A, Wernberg M. Prevalence and prognostic significance of coma after cardiac arrest outside ICU & CCU. *Acta Anaesthesiol Scand* 1979;23:143-8.
- 9 Doyal L, Wilsher D. Withholding cardiopulmonary resuscitation: proposals for formal guidelines. *BMJ* 1993;306:1593-6.
- 10 Ryan BP, Redmond AD. When to stop resuscitation—the significance of cuff BP. *Arch Emerg Med* 1991;8:177-81.

## ADVANCED LIFE SUPPORT GROUP

**Major Incident Medical Management and Support Courses:** to be held in various centres throughout the UK in 1997. This is a three day course in "life support style" designed to train health service personnel to provide an effective response at a major incident.

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Jenny Antrobus

Advanced Life Support Group  
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Manchester M5 2XB

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and enthusiasm of the staff at Frenchay Hospital, Bristol, and Western General Hospital, Western-super-Mare, in the making of this video, whose message is loud and clear that gone are the days when a motley crew would arrive at a cardiac arrest situation full of

adrenergic ardour but devoid of well practiced coordinated clinical skills, with the result that a life potentially saved was all too often lost.

As a former member of that motley crew I am delighted that times have changed and that advanced life support should now be within

the domain of all paramedical, nursing, and medical professionals. This video will be highly effective in promoting that message to the widest possible audience.

I W R ANDERSON  
Glasgow

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The *Journal of Accident and Emergency Medicine* publishes articles on all aspects of emergency medicine. The emphasis is on original research of a high scientific standard. Papers also include review articles, short reports, case reports, and occasional papers dealing with specific aspects of emergency care. The Journal aims to represent all specialties involved in emergency care, both in the pre-hospital and in the hospital environment. It has an international readership, and articles reflecting the global perspective are particularly welcome. Authors are invited to submit any work that will contribute to the progress of emergency medicine worldwide.

## Types of paper

*Original papers* (not normally over 3000 words for full length accounts of original research); *Review articles* (up to 4000 words, providing concise in-depth reviews of both established and new areas in accident and emergency medicine); *Editorials* (these are written or commissioned by the editors, but suggestions for possible topics and authors are welcome); *Short papers* (short reports of experimental work, new methods, or a preliminary report can be accepted as 2-page papers; maximum length 1400 words including abstract, tables and legends); *Case reports* (limited to 850 words, one table or figure, and a short unstructured abstract; they should contain a brief but comprehensive literature review); *Correspondence* (the Editor welcomes letters which should not exceed 300 words or contain more than three references; letters should be typed double spaced with wide margins and must be signed by all the authors).

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The manuscript (three copies) should be typed double spaced throughout on A4 paper using one side only, with margins of at least 30 mm at the sides and at the top and bottom. Authors are asked to submit with their manuscript the names and addresses of three people who they consider would be suitable independent reviewers. They will not necessarily be approached to review the paper. If the manuscript is accepted, both disk and typescript will be required for the final revised version; typescript alone will only suffice if the author has no access to word processing facilities.

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If requested the authors must be prepared to produce the data on which the manuscript is based for examination by the Editor.

Papers reporting results of studies on human subjects must be accompanied by a statement that the subjects gave written, informed consent and by evidence of approval from the appropriate ethics committee. Such papers should conform to the principles outlined in the Declaration of Helsinki (*BMJ* 1964,ii:177). Animal studies must be accompanied by this statement: "The investigation was performed in accordance with the Home Office Guidance on the operation of the *Animals (Scientific Procedures) Act 1986*, published by HMSO, London". Experiments performed by overseas authors must conform to equivalent animal protection legislation.

The Editor cannot enter into correspondence about papers rejected as unsuitable for publication, and the Editor's decision in these matters is final.

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The format must be as described in this section, although for reviews and letters to the Editor the use of subsections is flexible. **Abbreviations should be kept to a minimum and must always be explained.** Drugs must be referred to by their approved names.

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4 *Methods*: this section should be sufficiently detailed to permit the reader to replicate the study. Published methods should be described in brief, with appropriate citation. Statistical methods should be defined and any not in common use should be described in detail or supported by references.

5 *Results*: should be concise and should not contain repetition of the methods. Data in the text should not be replicated in tables or figures or vice versa. SI units should be used, except for fluid pressures which should be in mm Hg.

6 *Discussion*: a clear distinction should be made between deduction and speculation.

7 *Acknowledgements*, where appropriate.

8 *References*: the Vancouver style must be used (see papers in this issue) with citations numbered consecutively in the order in which they appear in the text, tables, and figures. List all authors when there are six or fewer; if there are seven or more, list the first six, followed by et al. Except in the case of review articles the total number of references should not exceed 40. Responsibility for completeness and accuracy of references rests entirely with the authors. References will not be checked in detail by the Editor but papers in which errors are detected in the references are unlikely to be accepted. Submitted work or work in preparation cannot be cited in the reference list.

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