

Postgraduate Medical Journal

CURRENT
COLUMBIA UNIVERSITY

MAR 24 1989

HEALTH SCIENCES
LIBRARY

EDITORIAL BOARD

B.I. Hoffbrand, *London*
Editor

D. Barltrop, *London*
P.J. Barnes, *London*
D.G. Beevers, *Birmingham*
D.J. Coltart, *London*
A.H. Crisp, *London*
I.J.T. Davies, *Inverness*
H. Ellis, *Cambridge*
R.B. Heath, *London*
T.E.J. Healy, *Manchester*
J.P. Hopewell, *London*
G.R.V. Hughes, *London*
D. Ingram, *London*
D.G. James, *London*
R.S. Kocen, *London*

J.G. Lewis, *Edgware*
J.S. Malpas, *London*
P.J.A. Moulton, *London*
M.W.N. Nicholls, *Chichester*
A. Paton, *London*
M.J. Peckham, *London*
R.E. Pounder, *London*
M.C. Sheppard, *Birmingham*
D.R.J. Singer, *London*
I. Taylor, *Southampton*
P. Turner, *London*
J.A. Vale, *Birmingham*
P.D. Welsby, *Edinburgh*

International Editorial Representatives

G.J. Schapel, *Australia*
P. Tugwell, *Canada*
J.W.F. Elte, *The Netherlands*
M. Moser, *USA*
L. Kreel, *Hong Kong*

Editorial Assistant

Mrs J.M. Coops

Volume 65, Number 761

March 1989



The **Postgraduate Medical Journal** is published monthly on behalf of the Fellowship of Postgraduate Medicine by the Scientific & Medical Division, The Macmillan Press Ltd, Houndmills, Basingstoke, Hampshire RG21 2XS, UK.

Telephone: Basingstoke (0256) 29242
Telex: 858493. fax (0256) 479476

Postgraduate Medical Journal publishes original papers on subjects of current clinical importance and welcomes review articles with extensive, up-to-date bibliographies as guides to further reading. Several symposia are published each year, each devoted to a single subject and written by specialists in different disciplines. Most issues include authoritative current surveys of clinical problems, well documented reports of cases of particular interest, and book reviews. An international Postgraduate Diary is also included each month.

The Fellowship of Postgraduate Medicine was founded by a group of London consultants after the First World War to assist postgraduates, particularly those coming to London from the Commonwealth, to pursue their studies. The Fellowship first published the **Postgraduate Medical Journal** to give information about lectures, conferences and courses and to provide a monthly review of all branches of medicine.

© 1989 The Fellowship of Postgraduate Medicine
ISSN 0032-5473

Manuscripts and all editorial correspondence, including books for review should be sent to: The Editor, Postgraduate Medical Journal, 6 St Andrew's Place, London NW1 4LB, UK. Telephone: 01-935 5556. Fax: 01-224 3219. A 'Notice to Contributors' is published on the inside back cover of this issue. The Editor reserves the right to make changes which may clarify or condense papers where this is considered desirable. The Journal is covered by *Current Contents*, *Biological Abstracts*, *ASCA*, *ISI/BIOMED* and *Science Citation Index*.

All business correspondence, reprint requests and enquiries concerning advertising space and rates should be addressed to the Scientific & Medical Division, The Macmillan Press Ltd, Houndmills, Basingstoke, Hampshire RG21 2XS.

Subscription price per volume of twelve issues UK £90.00; Rest of the World £105.00 or equivalent in any other currency. Orders must be accompanied by remittance. Cheques should be made payable to *Macmillan Press*, and sent to: The Macmillan Press Ltd, PO Box 500, Leicester LE99 0AA, UK. Where appropriate, subscribers may make payments into UK Post Office Giro Account No. 519 2455. Full details must accompany payments.

All rights of reproduction are reserved in respect of all papers, articles, illustrations, etc. published in this journal in all countries of the world.

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by The Fellowship of Postgraduate Medicine for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$01.00 per copy, plus \$0.10 per page is paid directly to CCC, 27 Congress St., Salem, MA 01970, USA. 0032-5473/89 \$1.00 + \$0.10

Publisher: Alex Williamson

Production and Editorial Services Manager: Nigel McNeil-Smith

Circulation Services: A.L. Clark

Typeset by Elite Typesetting Techniques, Southampton

Printed in Great Britain by Bell and Bain Ltd, Glasgow

Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this Journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the responsibility of the contributor or advertiser concerned. Accordingly, the publishers and The Fellowship, the editorial committee and their respective employees, officers and agents accept no liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement. Whilst every effort is made to ensure that drug doses and other quantities are presented accurately, readers are advised that new methods and techniques involving drug usage, and described within this Journal, should only be followed in conjunction with the drug manufacturer's own published literature.

Postgraduate Diary

Institute of Cancer Research

Regular programme of seminars and teaching sessions throughout the year.

Information: The Dean, Institute of Cancer Research, Haddow Laboratories, 15 Cotswold Road, Belmont, Surrey SM2 5NG, UK.

National Heart and Lung Institute

Courses leading to award of University Diplomas in Cardiology and Thoracic Medicine. Short Courses, meetings and symposia are held throughout the year.

Postgraduate Office, National Heart and Lung Institute, Dovehouse Street, London SW3 6LY. Tel: 01-351 8172.

Institute of Child Health

Short courses booklet available.

Workshop (jointly with RPMS Institute of Obstetrics and Gynaecology) 'Perinatal Care in Developing Countries'. At Queen Charlotte's Hospital and Chelsea Hospitals. Friday 17 March, 1989.

For further details please apply to: Anne Crowley, Short Courses Office (Room 6), Institute of Child Health, 30 Guilford Street, London WC1N 1EH. Tel: 01-829 8692 (direct).

Institute of Dental Surgery

Courses for M.Sc. in various aspects of dentistry, Diploma in Dental Public Health, basic medical sciences, etc.

Information: The Dean, Institute of Dental Surgery, Eastman Dental Hospital, Gray's Inn Road, London WC1X 8LD, UK.

Hunterian Institute

Long and short courses in basic medical sciences for primary FRCS (including revision courses in Anatomy/Physiology/Pathology), Primary FDS, FFA part 2 held through the year.

Courses in Clinical Surgery for final FRCS held in Spring and Autumn. Anastomosis Workshop; AO course of fracture treatment.

Short revision courses for Surgeons: anatomy/physiology/pathology, 10–28 April 1989.

Anaesthetists, 20 March–7 April 1989.

Details and applications: The Hunterian Institute, Royal College of Surgeons, Lincoln's Inn Fields, London WC2A 3PN. Tel: 01-405 3474.

Institute of Laryngology and Otolaryngology

Pre-FRCS and DLO exam courses. Advanced courses on: Temporal bone surgery – November and June. Anaesthesia for ENT – October. Rhinology and Surgery of the Nasal Cavity and Paranasal Sinuses – October. Nasal Plastic and Facial Soft Tissue Surgery – February. Pathology of the Ear, Nose and Throat – June.

Applications and enquiries: Cheryl Overington, Secretary to the Dean, Institute of Laryngology and Otolaryngology, 330/332 Gray's Inn Road, London WC1X 8EE.

Institute of Neurology

Sandoz Foundation advanced lectures on clinical and experimental neurology. Each Wednesday evening throughout academic year.

Details: Institute Registrar, National Hospital, Queen Square, London WC1N 3BG, UK.

RPMS Institute of Obstetrics and Gynaecology

Teach-in 'How to get your message across (lecturing and writing papers). Wednesday 24 May 1989.

'Theoretical and practical course on Doppler blood flow measurement in pregnancy' 13 and 14 July 1989 at Queen Charlotte's and Chelsea Hospital.

Details of symposia and courses from: Symposium Secretary, RPMS Institute of Obstetrics and Gynaecology, Queen Charlotte's Hospital for Women, Goldhawk Road, London W6 0XG, UK.

Institute of Ophthalmology

Regular courses in ophthalmology held throughout the year. 17/25 Cayton Street, London EC1 9AT, UK.

Institute of Orthopaedics

Radiodiagnosis demonstrations – Mondays at 5 p.m. during the academic year.

Lecture courses – Wednesdays at 6 p.m. during the academic year.

Management of spinal metastases – Mr T.R. Morley. Contemporary management of spondylolisthesis – Mr J.K. Webb.

Course on Radiology of Bones and Joints – 17–19 May 1989.

Details: Miss A.M. Lucas, Postgraduate Secretary, Institute of Orthopaedics, The Middlesex Hospital, London W1. Tel: 01-380 9418.

Institute of Psychiatry

Symposium: Psychiatric Neuropathology and Neurochemistry 6 and 7 April, 1989

Association for Family Therapy, Institute of Family Therapy and Institute of Psychiatry – first national conference 'Family research and family therapy: a marriage, cohabitation or divorce'. 20–21 April 1989.

One day conference 'Counselling in General Practice' 1 May 1989.

Programme of courses and lectures.

Details: Nadine Morgan, Conference Office, Institute of Psychiatry, De Crespigny Park, London SE4 8AG. Tel: 01-703 5411 ext 3170.

Institute of Urology

Short courses on aspects of urology and nephrology – throughout the year.

One year Diploma courses in urology and nephrology commencing September each year.

Advanced stone management course – held twice yearly.

Applications and enquiries: The Dean, Institute of Urology, 172–176 Shaftesbury Avenue, London WC2H 8JE, UK.

Royal Postgraduate Medical School

Regular courses on advanced topics.

School Office, Royal Postgraduate Medical School, Hammersmith Hospital, Du Cane Road, London W12 0HS, UK.

St Thomas' Hospital – Postgraduate Centre

MRCP Part 2 (Paeds) Course Saturday 29 April to 5 May, 1989.

General Practitioner Refresher Weekend Course, 29 and 30 April 1989.

Details: Secretary to Professor Scopes, Paediatric Unit, 4th Floor, North Wing, St Thomas' Hospital, London SE1 7EH

Bloomsbury Intensive Medical Course

University College and Middlesex Hospitals.

Every Tuesday morning from 4 April to 20 June 1989.

Speakers include national and international experts on intensive care. Course designed for junior medical staff of any speciality.

Details: Intensive Care Course Secretary, Room 107, 1st Floor, The Rayne Institute, University Street, London WC1E 6JJ.

XIVth International Update on Liver Disease

Royal Free Hospital, 13–15 July 1989.

Details: Professor Neil McIntyre, Academic Department of Medicine, Royal Free Hospital, Pond Street, London NW3 2QG.

Advanced Medicine Course

At The Royal South Hants Hospital, Southampton 18th – 22nd May 1989.

This Course, designed for Consultants and Senior Registrars, will discuss recent developments in: Renal Medicine, Rheumatic and Connective Tissue Diseases, Respiratory Medicine, Neurology, Gastroenterology, Dermatology, Cardiology, Diabetes and Endocrinology, Therapeutics.

Information and application forms from: The Secretary, Postgraduate Medical Centre, Royal South Hants Hospital, Southampton. Tel: (0703) 634288, Ext. 2493

University of Manchester

M.A. in Health Care Ethics.

Details: Mrs S. Ibbotson, Department of Education, University of Manchester, Oxford Road, Manchester M13 9PL, UK.

International Union Against Cancer

Details of fellowship programmes from: 3 rue du Conseil-Général, 1205 Geneva, Switzerland.

Liverpool, Newsham General Hospital

Luncheon meetings twice monthly.

Secretary, Postgraduate Centre, Belmont Road, Liverpool L6 4AF, UK.

London School of Hygiene and Tropical Medicine

MSc, diploma and research degree courses in public health and tropical medicine.

Enquiries: The Registrar, LSHTM, Keppel Street, London WC1E 7HT.

Forum on Clinical Pharmacology and Therapeutics

17 March 1989 Drug formularies – the way forward, 6 October 1989 The anxiolytic jungle: what drug for whom?

Details: Miss Barbara Komoniewska, Royal Society of Medicine, 1 Wimpole Street, London W1M 8AE. Tel: 01-408 2119 ext 301.

European Medical Research Group

Regular meetings consisting of poster session followed by guest lecture. Held at Medical Society of London, Lettsum House, 11 Chandos Street, London W1.

Next meeting 6 June 1989. Professor A.M. McGregor 'Autoimmunity and the thyroid'.

Details from: Dr D.R.J. Singer, c/o Fellowship of Postgraduate Medicine, 6 St Andrew's Place, London NW1 4LB. Tel: 01-935 5556.

European Society of Gynaecological Oncology

6th International Congress, April 27–29 1989, Palais de Congres de Versailles, France.

Details: Professor A. Gorins, Centre d'Oncologie et des Maladies du Sein, Hôpital Saint-Louis, 38 rue Bichet, 75101 Paris.

Loughborough University

Hazardous wastes: legislation, monitoring and disposal, 2–5 May 1989.

Occupational health management, 22–26 May 1989.

Brochure of short courses run by University Training Group available from: Loughborough University of Technology, University Training Group, Centre for Extension Studies, Loughborough, Leicestershire LE11 3TU, UK.

Charing Cross and Westminster Medical School

Advanced course on 'Changing concepts in children's orthopaedics', 15–17 March 1989.

Details: Postgraduate Medical Centre, Charing Cross Hospital, Fulham Palace Road, London W6 8RF.

European Society of Gynaecological Oncology (ESGO)

6th International Congress, April 27–29 1989, Palais des Congres de Versailles, France.

Details: Professor A. Gorins, Centre d'Oncologie et des Maladies Du Sein, Hôpital Saint-Louis, 38 Rue Bichet, 75010 Paris, France.

15th International Cancer Congress

Hamburg, FRG, 16–22 August 1989.

Details: c/o Hamburg Messe und Congress GmbH, P.O. Box 30 24 80, D-2000 Hamburg 36 FRG.

Alaska 89 – Cruise the Inland Passage

8–15 July 1989. Professor L. Bassett, Department of Radiological Sciences, University of California. Programme of lectures, seminars and case discussion.

Information: ALASKA 89, c/o Medical Seminars International Inc, 9800 D Topanga Canyon Blvd, Suite 232, Chatsworth Ca 91311, USA.

Anglo French Medical Society

Annual Scientific Meetings alternating between Britain and France. 1989 – Toulouse (theme, aviation medicine). Also week-long medical language courses in France.

Information: Secretary, Anglo French Medical Society, The Moat House, Lymm Hall, Lymm, Cheshire WA13 0AJ.

4th South-East European Symposium of Paediatric Surgery 'Normal and Disturbed Oesophageal Function in Childhood'. 7–9 September 1989, Graz, Austria.

Details: Professor Dr M. Hollwarth, Department of Paediatric Surgery, University of Graz, Heinrichstrasse 31, A-8010, Graz, Austria.

European Society for Clinical Investigation

23rd Annual Scientific Meeting, Athens, Greece, April 19–22 1989

Details and registration: ESCI-89 c/o Prof. Dr S. Raptis, 2nd Department Internal Medicine-Propaedeutic, Athens University, P.O. Box 14127, CR-11510, Athens, Greece.

First European CPR-Congress

November 3 and 4, 1989. Switel, Antwerp.

Information and applications: European CPR-Congress, Belgian Red Cross, Vleurgatsesteenweg 98, 1050 Brussels.

2nd European Congress of Endocrinology

Ljubljana, Yugoslavia, 1–6 July 1990.

Information: Secretariat, Kompas Jugoslavia, Congress Department, Prazakova 4, 61000 Ljubljana, Yugoslavia.

Full details of the courses, meetings and symposia listed above, and of others of interest to medical postgraduates, can be obtained from the individual organisations.

Notice to Contributors

The *Postgraduate Medical Journal* considers manuscripts prepared in accordance with the guidelines laid down by the International Committee of Medical Journal Editors (*Br Med J* 1988, **296**: 401–405). All material submitted is assumed to be submitted exclusively to the *Postgraduate Medical Journal* unless the contrary is stated.

Typescripts Two complete copies should be sent to the Editor, Postgraduate Medical Journal, 6 St Andrew's Place, London NW1 4LB. Papers must be typewritten, double-spaced, on one side of paper not larger than A4 (297 mm × 210 mm), with a 5 cm margin. The first page of the typescript should bear the names of the author(s) and the name and address of the laboratory or institution where the work has been carried out, in addition to the title of the paper. The full address of the principal author to whom proofs will be sent should be given as a footnote, as should any permanent changes of address and/or appointment. A short (running) title of not more than 45 characters should be given. All pages should be numbered including the title page. In line with many other journals, we do not normally return rejected manuscripts.

The principal author must ensure that any co-authors listed agree to submission of the typescript. Any written or illustrative material which has been or will be published elsewhere must be duly acknowledged and accompanied by the written consent of the authors and publishers concerned.

Arrangement Papers should be divided into; (a) Title page, (b) Summary, (c) Introduction, (d) Materials and methods, (e) Results, (f) Discussion, (g) Acknowledgements, (h) References, (i) Tables, (j) Figures and captions. The summary should not exceed 250 words and should state concisely what was done, the main findings and how the work was interpreted. In all sections of the paper numbered paragraphs should be avoided if at all possible.

Style Abbreviations and symbols must be standard and SI units used throughout. Acronyms should be used sparingly and must be fully explained when first used. Whenever possible drugs should be given their approved generic name. Where a proprietary (brand) name must be used, it should begin with a capital letter. Statistical analyses must explain the methods used. The use of footnotes is not permitted. Single quotation marks should be used and words to be italicized should be underlined. The *Concise Oxford English Dictionary* is used as a reference for all spelling and hyphenation.

References should follow the Vancouver format. In the text, they should appear as numbers starting at 1. At the end of the paper they should be listed (double-spaced) in numerical order corresponding to the order of citation in the text. All authors should be quoted for papers with up to six authors; for papers with more than six authors, the first three only should be quoted followed by *et al.* Abbreviations for titles of medical periodicals should conform to those used in the latest

edition of *Index Medicus*. The first and last page numbers for each reference should be provided. Abstracts and letters must be identified as such.

1. Clements, R. & Gravelle, I.H. Radiological appearances of hydatid disease in Wales. *Postgrad Med J* 1986, **62**: 167–173.
2. Greenberger, J.S. Long-term hematopoietic cultures. In: Golde, W. (ed) *Hematopoiesis*. Churchill-Livingstone, New York, 1984, pp 203–242.

Figures In the text Arabic numbers should be used and all illustrations should be specifically referred to in the text, e.g. (Figure 2). All illustrations should be submitted at about 1½ times the intended final size and should be numbered as figures whether they are photographs, representational drawings or line diagrams and graphs.

Photographs and photomicrographs should be unmounted glossy prints and should not be retouched, and should be chosen to exclude technical artefacts. Magnification is best indicated by a line representing a defined length included within the photographs. Areas of key interest and/or critical reproduction should be indicated on a flimsy overlay attached to the photograph or on a photocopy. All annotations and lettering should be indicated in the same way, and preferably not included on the original print. Clearly contrasted and focused prints are essential for adequate reproduction.

Line diagrams and graphs should be on separate sheets; they must be drawn with black Indian ink on white paper, or supplied as photographic prints of such originals. Lettering on figures should be minimal and must not duplicate the legend. The use of symbols should be consistent within papers, and explanations of symbols should be included in the caption, not on the figure.

A photocopy of all illustrations should be submitted.

Tables These should be as few as possible and should present only essential data. They should be typewritten on separate sheets, have a title or caption, and given Roman numbers.

Proofs Two marked copies of the proofs will be sent to the principal author which should be read carefully for errors. One corrected copy must be returned to the editor within 3 days. Major alterations to the text cannot be accepted.

Copyright assignment The principal author must complete and return to the Publisher the Copyright Assignment Form enclosed with the proofs.

Offprints Twenty-five offprints will be supplied free of charge to the principal author. Additional offprints may be ordered on the form accompanying proofs. The charges are necessarily higher if orders are received after the issue has gone to press.

Drug side effects Manuscripts reporting adverse drug reactions should be accompanied by evidence showing that the reaction has been reported on a 'yellow card' or to the appropriate drug licensing authority, and to the drug manufacturer.