

## Editorial Board

H. E. M. Kay } (Joint Editors)  
G. Slavin }  
R. A. B. Drury  
M. S. Dunnill  
G. L. Gibson  
N. R. Grist  
L. Å. Hanson (Sweden)  
M. S. R. Hutt  
W. J. Jenkins  
D. M. Jones  
E. J. L. Lowbury  
B. Naylor (USA)  
M. G. Rinsler  
M. Sandler  
A. I. Spriggs  
J. Stuart  
C. Sultan (France)  
A. Voller  
H. B. Goodall (Publications Secretary, Association of Clinical Pathologists)  
Joan F. Zilva (representing the Association of Clinical Biochemists)  
I. C. M. MacLennan (representing the British Society for Immunology)  
EDITOR *British Medical Journal*  
Beryl Flitton (Technical Editor)

## General Advisory Board

E. N. Allott  
Rosemary Biggs  
Sir Frank M. Burnet (Australia)  
Sir John Dacie, FRS  
W. M. Davidson  
M. Hynes  
N. H. Martin  
Dorothy S. Russell  
E. Joan Stokes  
M. M. Wintrobe (USA)

## Officers of the Association of Clinical Pathologists

President: N. H. Ashton  
Vice-Presidents: C. Giles  
I. Rannie  
President-Elect: Sir Robert Williams  
Chairman of Council: A. C. Hunt  
Honorary Secretary: G. W. Pennington  
Honorary Treasurer: J. Burston  
Meetings Secretary: Rosalinde Hurley

**COMMUNICATIONS** Papers submitted for publication should be sent in duplicate to the Editor, *Journal of Clinical Pathology*, BMA House, Tavistock Square, London, WC1H 9JR. They should be in double-spaced typewriting on one side of the paper only. On the paper the name of the author should appear with initials (or distinguishing Christian name) only, and the name and address of the laboratory where the work was performed. A definition of the position held by each of the authors in the hospital or laboratory should be stated in a covering letter to the Editor. All papers with joint authorship should be accompanied by the signatures of all the authors. Results should not be shown as both tables and graphs.

**ACKNOWLEDGMENT** A stamped addressed postcard should be enclosed for return to the author as acknowledgment of receipt of the manuscript. Overseas authors should enclose international reply paid coupons.

**ILLUSTRATIONS** Diagrams should be drawn in Indian ink on white paper, Bristol board, or blue-squared paper. The legends for illustrations should be typed on a separate sheet. Photographs and photomicrographs should be on glossy paper, unmounted.

**CHEMICAL FORMULAE** should as far as possible be written in a single horizontal line.

**ABBREVIATIONS** In general, symbols and abbreviations should be those used by the *Biochemical Journal*.

**SI UNITS** The units in which the author's work was measured should be cited first followed by either the traditional units if SI units were used or by SI units if traditional units were used. Such conversion is the responsibility of the author. In the tables a conversion factor should be added as a footnote. Authors are referred to *J. clin. Path.*, 27, 590-597.

**ETHICS** The critical assessment of papers submitted will include ethical considerations. Authors are referred to publications on ethics of human experimentation by the Medical Research Council in Britain and to the code of ethics of the World Medical Association known as the Declaration of Helsinki (see *Brit. med. J.*, 1964, 2, 177).

**REFERENCES** These should be given in the text thus: Jones and Smith (1970). If there are more than two authors they should be cited as Jones *et al.* (1970) even the first time that they appear. The list of references

should be typed in double spacing and in alphabetical order on a separate sheet. Such references should give the author's name, initials, year of publication in brackets, the title of the article quoted, *the full name of the journal* in which the article appeared, the volume number in arabic numerals followed by the numbers of the first and last pages of the article.

**REPRINTS** Twenty-five reprints will be supplied free of charge. Further reprints will be available on payment of the necessary costs; the number of reprints required should be sent to the Publishing Manager on the form provided with the proofs.

**NOTICE TO ADVERTISERS** Applications for advertisement space and for rates should be addressed to the Advertisement Manager, *Journal of Clinical Pathology*, BMA House, Tavistock Square, London, WC1H 9JR.

**NOTICE TO SUBSCRIBERS** The *Journal of Clinical Pathology* is published monthly. The annual subscription rates including postage by surface mail are £30 in the UK and the Republic of Ireland and US\$70.50 in all countries overseas. Payment for overseas subscriptions should be made in US dollars, ie, US\$70.50, or in your national currency based on the prevailing exchange rate to the US dollar of that currency, payable to the British Medical Association. Orders can also be placed locally with any leading subscription agent or bookseller. (For the convenience of readers in the USA subscription orders, with or without payment, can also be sent to *British Medical Journal*, 1172 Commonwealth Avenue, Boston, Mass. 02134. All enquiries, however, must be addressed to the Publisher in London.) All enquiries regarding air mail rates and single copies already published should be addressed to the Publisher in London.

**COPYRIGHT** © 1979 *Journal of Clinical Pathology*. This publication is copyright under the Berne Convention and the International Copyright Convention. All rights reserved. Apart from any relaxations permitted under national copyright laws, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the copyright owners. Permission is not, however, required to copy abstracts of papers or of articles on condition that a full reference to the source is shown. Multiple copying of the contents of the publication without permission is always illegal.

ment 2, 24, 398.

Weiss, H. J., Hoyer, L. W., Rickles, F. R., Varma, A., and Rogers, J. (1973). Quantitative assay of a plasma factor deficient in von Willebrand's disease that is necessary for platelet aggregation. *Journal of Clinical*

*Investigation*, 52, 2708-2716.

Requests for reprints to: Dr R. A. Hutton, Haemophilia Centre and Haemostasis Unit, The Royal Free Hospital, Pond Street, Hampstead, London NW3 2QG, UK.

## Reports and Bulletins prepared by the Association of Clinical Biochemists

The following reports and bulletins are published by the Association of Clinical Biochemists. They may be obtained from The Publishing Department, British Medical Journal (ACB Technical Bulletins), B.M.A. House, Tavistock Square, London WC1H 9JR. Overseas readers should remit by British Postal or Money Order.

### SCIENTIFIC REVIEWS (price £1.00/\$2.00 each)

- 1 The assessment of thyroid function March 1971  
F. V. FLYNN and J. R. HOBBS
- 2 Renal function tests suitable for clinical practice  
January 1972 F. L. MITCHELL, N. VEALL, and R. W. E. WATTS
- 3 Biochemical tests for the assessment of fetoplacental  
function May 1975 C. E. WILDE and R. E. OAKEY
- 4 Test of exocrine pancreatic function March 1977  
A. H. GOWENLOCK

### TECHNICAL BULLETINS (price £1.00/\$2.00 each)

- 22 Bilirubin standards and the determination of bilirubin  
by manual and technicon AutoAnalyzer methods  
January 1971 BARBARA BILLING, RUTH HASLAM, and N. WALD
- 23 Interchangeable cells for spectrophotometers and  
fluorimeters September 1971 S. S. BROWN and A. H. GOWENLOCK
- 24 Simple tests to detect poisons March 1972 B. W. MEADE *et al.*
- 25 Blood gas analysers May 1972 K. DIXON
- 26 Kits for enzyme activity determination September  
1972 S. B. ROSALKI and D. TARLOW
- 27 Assessment of pumps suitable for incorporation into  
existing continuous flow analytical systems November  
1972 A. FLECK *et al.*

- 28 Routine clinical measurements of transferrin in  
human serum September 1973 K. DIXON
- 29 Control materials for clinical biochemistry (5th  
edition) September 1973 J. F. STEVENS
- 30 Notes on the quality of performance of serum  
cholesterol assays September 1973 S. S. BROWN
- 31 Determination of uric acid in blood and in urine  
July 1974 R. W. E. WATTS
- 32 A survey of amino acid analysers readily available in  
the United Kingdom September 1974 J. E. CARLYLE and  
P. PURKISS
- 33 Definitions of some words and terms used in auto-  
mated analysis November 1974 A. FLECK, R. ROBINSON,  
S. S. BROWN, and J. R. HOBBS
- 34 Measurement of albumin in the sera of patients  
January 1975 LINDA SLATER, P. M. CARTER, and J. R. HOBBS
- 35 Investigation of the validity of temperature correction  
factors for serum aspartate and alanine transaminases  
March 1975 S. B. ROSALKI *et al.*
- 36 Factors influencing the assay of creatinine November  
1975 J. G. H. COOK
- 37 A survey of enzyme reaction rate analysers readily  
available in the United Kingdom July 1977 R. A. SAUNDERS and R. F. BURNS
- 38 Transport of specimens for clinical chemistry an-  
alysis November 1977 P. WILDING, J. F. ZILVA, and  
C. E. WILDE
- 39 A scheme for the evaluation of diagnostic kits May  
1978 P. H. LLOYD

Price, L. A., and Hill, B. T. (1977). A kinetically based logical approach to the chemotherapy of head and neck cancer. *Clinical Otolaryngology*, **2**, 339-345.

Ramsey, H. J. (1966). Fine structure of hemangiopericytoma and hemangioendothelioma. *Cancer*, **19**, 2005-2018.

Rosai, J., Sumner, H. W., Kostianovsky, M., and Perez-Mesa, C. (1976). Angiosarcoma of the skin: a clinicopathologic and fine structural study. *Human*

*Pathology*, **7**, 83-109.

Steiner, G. C., and Dorfman, H. D. (1972). Ultrastructure of hemangioendothelial sarcoma of bone. *Cancer*, **29**, 122-135.

Requests for reprints to: Dr R. M. Williams, University Department of Pathology, Gibson Laboratories, Radcliffe Infirmary, Oxford OX2 6HE, UK.

## The April 1979 Issue

### THE APRIL 1979 ISSUE CONTAINS THE FOLLOWING PAPERS

Identification of the paraproteins and clinical significance of more than one paraprotein in serum of 56 patients MARTIN E. GORE, PAMELA G. RICHES, AND J. KOHN

Serum cystyl aminopeptidase activity in the 36th week of pregnancy B. H. DURHAM AND R. E. REWELL

Total and free thyroid hormone concentrations after elective surgery R. W. G. PRESCOTT, P. P. B. YEO, M. J. WATSON, I. D. A. JOHNSTON, J. G. RATCLIFFE, AND D. C. EVERED

Studies of plasma zinc, copper, caeruloplasmin, and growth hormone G. S. ANDREWS

A case of  $\gamma 3$  heavy chain disease with vacuolated plasma cells: a clinical, immunological, and ultrastructural study WALTER FEREMANS, MICHEL CAUDRON, AND CLAUDE BIEVA

Evaluation of T and B lymphocytes in liver infiltrates of patients with chronic active hepatitis SILVIA FARGION, GABRIELE SANGALLI, GUIDO RONCHI, AND GEMINO FIORELLI

Progression of hepatitis non-A, non-B to chronic active hepatitis STEN IWARSON, JOHAN LINDBERG, AND PER LUNDIN

Haematological features of angioimmunoblastic lymphadenopathy with dysproteinaemia R. L. BREARLEY, J. CHAPMAN, M. H. CULLEN, M. A. HORTON, A. G. STANSFELD, AND A. H. WATERS

Rapid cytological diagnosis of basal cell carcinoma of the skin CHRISTOPHER L. BROWN, MICHAEL R. KLABER, AND M. GILLIAN ROBERTSON

An immunohistochemical study of the significance of HCG secretion by large bowel adenocarcinoma C. H. BUCKLEY AND H. FOX

Alpha-1-antitrypsin deficiency and hepatocellular carcinoma J. K. KELLY, J. S. DAVIES, AND ALED W. JONES

Viral exposure and abnormal liver function in haemophilia B. A. MCVERRY, M. G. R. ROSS, WENDY A. KNOWLES, AND JENNIFER VOKE

Limits to progressive reduction of resident skin bacteria by disinfection H. A. LILLY, E. J. L. LOWBURY, AND M. D. WILKINS

Particle size distribution analysis for the rapid detection of microbial infection of urine C. S. DOW, A. D. FRANCE, M. S. KHAN, AND T. JOHNSON

Detection of bacterial phosphatase activity by means of an original and simple test G. SATTÀ, G. GRAZI, P. E. VARALDO, AND R. FONTANA

Classification of staphylococci isolated from ocular tissues V. M. MAHAJAN

Antibodies to germinating and yeast cells of *Candida albicans* in human and rabbit sera Y. M. HO, MUN H. NG, AND C. T. HUANG

#### Technical methods

A simplified rapid method for purification of glomeruli J. L. PORTIS, S. S. WIKEL, AND F. J. MCATEE

A modified device for replica plating KENT CROSSLEY AND KAREN MEAD

#### Letters to the Editor

#### Book reviews

Association of Clinical Pathologists: 102nd Scientific Meeting

Copies are still available and may be obtained from the PUBLISHING MANAGER, BRITISH MEDICAL ASSOCIATION, TAVISTOCK SQUARE, LONDON WC1H 9JR, price £3.00, including postage

high-power microphotograph is excellent as is the section on neuropathology, and in the latter more natural tones have been used. Because of this the pathological changes in the brain are more realistic, so it is frustrating that with the artistic efforts that have gone into the whole book this success could not be more widespread.

The captions and text are brief and functional, if occasionally misleading. As the atlas is designed for students and junior clinicians I would not quarrel too much with the selection of material. However, at this level few will be able to afford this undoubted 'work of art'. It is a book for collectors, alternatively one to receive as a prize or be given to review.

A. B. PRICE

**Immunisation.** By George Dick. (Pp. 152; illustrated; £3.50.) London, Fort Lee, NJ: Update Publications. 1978.

This book is a sound concise guide to all who need advice on immunisation. There are two introductory chapters on vaccines and schedules followed by nine chapters on specific diseases including the epidemiology and the history of immunisation against each disease. Each vaccine is discussed with details of efficacy, contraindications, and future developments. The book concludes with four chapters on vaccines for travel, vaccines for selective use, passive immunisation, and immunisation in tropical countries.

Professor Dick considers the scientific background critically and states the reasons for his personal views where they differ from official policy. This is one of those rare books that will appeal equally to the consultant, student, microbiologist, and clinician. I suggest that you keep your personal copy under 'lock and key' otherwise it is likely to be 'borrowed' forever.

H. B. VALMAN

**Tumours. Basic Principles and Clinical Aspects.** By C. J. Louis. (Pp. vi + 334; illustrated; £4.95.) Edinburgh, London, New York: Churchill Livingstone. 1978.

This is yet another in the current trend to produce specialist introductory booklets for medical students.

The book is well written and is broadly divided into two sections, the first half dealing with introductory definitions and a comprehensive synopsis of current knowledge in the fields of both experimental and human cancer biology. The

latter section covers some of the salient histopathological features of the more common human tumours.

Both science and medical graduates wishing to enter either clinical or experimental oncology will find the first half of the book a very good introduction to current trends with adequate up to date references for further reading. The 'average' medical student, however, would find the majority of the text, although of great interest, of excessive factual content, and this section makes the book unsuitable for recommendation as a standard undergraduate text.

The final chapters provide the reader with a concise account of some of the more common tumours and would provide the medical student with a more than adequate knowledge of the subject with which to satisfy the examiners.

In general, the book fails in its aim to be suitable for the average medical student but must be recommended for those graduates in multiple disciplines intending to make a career in oncology.

B. GUSTERSON

**Immunobiology of *Neisseria gonorrhoeae*.** Edited by G. F. Brooks, E. C. Gotschlich, K. K. Holmes, W. D. Sawyer, and F. E. Young. (Pp. xii + 400; illustrated; \$15.) Washington: American Society for Microbiology. 1978.

This volume comprises 71 papers given at a conference in San Francisco in 1978. They cover a wide field, which includes genetics and susceptibility to antibiotics, cellular antigens, pathogenicity mechanisms, serotyping, the immune response and prospects for the development of a vaccine, and serological methods of diagnosis. Many are by leading investigators and they provide an excellent guide to present knowledge of a rapidly developing field. Some are of specialised interest, but many, especially those on sensitivity to antibiotics, will be of interest to general microbiologists. The book is inexpensive and well produced and should be a useful addition to departmental libraries.

A. E. WILKINSON

## Notice

### Technicon Award 1979

Technicon Instruments Company at Basingstoke are pleased to announce their intention to make awards to the total value of £1,000 in 1979. There will be two awards: (a) for open competition, value £750, and (b) for candidates under 35, value £250. The topic for the 1979 awards is: 'Pathology measurements closer to the patient?'

Candidates must be working in the United Kingdom on 15 September 1979. Candidates may be of any age or nationality, and joint submissions will be accepted.

The final date for receipt of submissions will be Saturday 15 September 1979.

Application forms are obtainable from: Miss Gillian Haynes, Technicon Instruments Co. Ltd, Evans House, Hamilton Close, Basingstoke, Hants. (0256) 29181.

# Broadsheets prepared by the Association of Clinical Pathologists

- 31 Investigation of haemorrhagic states with special reference to defects of coagulation of the blood 1961 (Revised 1967) E. K. BLACKBURN
- 33 The laboratory detection of abnormal haemoglobins 1961 H. LEHMANN and J. A. M. AGER (revised 1975 by H. Lehmann and R. G. Huntsman as The laboratory detection of haemoglobinopathies)
- 39 Investigation of haemolytic anaemia 1961 (Revised 1968) J. G. SELWYN
- 41 Serological test for syphilis (Revised 1969) A. E. WILKINSON
- 42 Determination of red cell enzymes (Revised 1970) C. A. WEST and T. A. J. FRANKERD
- 43 Mycological techniques 1962 (Reprinted 1966) R. W. RIDDELL
- 54 The investigation of blood transfusion reactions 1966 (Revised 1974) G. H. TOVEY and W. A. GILLESPIE
- 55 Antibiotic sensitivity tests by diffusion methods 1966 (Revised 1972) E. JOAN STOKES and PAMELA M. WATERWORTH
- 56 Haemoglobinometry by the cyanmethaemoglobin method 1967 S. M. LEWIS
- 57 Compatibility test for blood transfusion 1967 G. H. TOVEY and W. J. JENKINS
- 59 Techniques for the histological examination of the eye 1967 N. ASHTON
- 61 Screening tests for inborn errors of amino acid metabolism 1967 D. C. CUSWORTH
- 62 Preparation of undecalcified bone sections 1968 H. A. SISSONS
- 63 Tests of combined bactericidal action 1969 L. P. GARROD and PAMELA M. WATERWORTH
- 64 Histochemical enzyme techniques 1969 I. M. P. DAWSON and M. I. FILIPE (This Broadsheet is illustrated by eight colour transparencies which can be obtained from Dr J. Burston, Department of Histopathology, Central Laboratory, St Mary's General Hospital, Milton Road, Portsmouth PO3 6AG. Price £3.00, including postage.)
- 65 The immunofluorescent test for serum antinuclear factor 1969 E. L. HOLBOROW and G. D. JOHNSON
- 66 Cytological techniques for serous fluids 1970 A. I. SPRIGGS and O. A. N. HUSAIN
- 67 The laboratory investigation of muscular dystrophy 1970 V. DUBOWITZ, J. N. WALTON, B. P. HUGHES, and J. N. CUMINGS
- 68 Simplified radial immunodiffusion 1970 J. R. HOBBS
- 69 Immunofluorescence techniques in immunopathology and histopathology 1971 J. SWANSON BECK
- 70 (Revised Broadsheet 36) Quantitative determination of porphobilinogen and porphyrins in urine and porphyrins in faeces and erythrocytes 1971 C. RIMINGTON
- 71 The British comparative thromboplastin: The use of the national thromboplastin reagent for uniformity of laboratory control of oral anticoagulants and expression of results 1970 L. POLLER
- 72 The preparation of ultra-thin sections for light microscopy 1970 C. E. LUMSDEN and S. R. APARICIO
- 73 Nervous system techniques for the general pathologist 1970 J. HUME ADAM and LEONARD MILLER
- 74 Techniques for chromosomal analysis 1971 SYLVIA D. LAWLER
- 75 Quality control in haematology 1973 I. CAVILL and A. JACOBS
- 76 A guide to the choice of optical equipment and reagents for immunofluorescence techniques 1973 C. E. D. TAYLOR, A. H. TOMLINSON, and G. V. HEIMER
- 77 Diagnosis of vitamin B<sub>12</sub> deficiency 1973 I. CHANARIN
- 78 Radioisotopic assay of vitamin B<sub>12</sub> in serum 1973 J. L. RAVEN and P. BARKHAN
- 79 Diagnosis of folate deficiency 1973 A. H. WATERS and D. L. MOLLIN
- 80 Estimation of bacteria and white cells in the urine 1973 W. BRUMFITT, A. PERCIVAL, and J. D. WILLIAMS
- 81 Blood culture technique 1974 E. JOAN STOKES
- 82 Estimation of catecholamine metabolites in urine 1974 M. SANDLER and C. R. J. RUTHVEN
- 83 Platelet function tests 1975 J. H. SANDERSON
- 86 Photomicrography 1977 R. S. FAWKES and A. C. LENDRUM
- 87 Estimation of plasma cholinesterase activity and the use of inhibitors for the determination of phenotypes 1977 MARY WHITAKER
- 88 Examination of cerebrospinal fluid protein 1978 G. H. GRANT
- 89 Handling and clinical use of blood products 1978 JOHN WALLACE and JOHN F. DAVIDSON
- 90 Practical aspects of anti-D prophylaxis of haemolytic diseases of the newborn 1978 W. WAGSTAFF
- 91 Examination of a decomposed body 1979 D. J. GEE
- 92 Diagnosis of amyloidosis 1979 C. R. TRIBE and V. A. PERRY

*Notes on sterilization No. 1* Sterilization and disinfection of cytosopes 1967

*Notes on establishment of a hospital radioactive tracer service* 1969

*Reprint No. 1 (J. clin. Path., 22, 383)*

The histology and cytology of changes in the epithelium of the cervix uteri 1969 A. D. T. GOVAN, R. M. HAINES, F. A. LANGLEY, C. W. TAYLOR, and A. S. WOODCOCK

*Reprint No. 2 (J. clin. Path., 24, 159)*

The perinatal postmortem examination 1971 F. A. LANGLEY

*Reprint No. 3 (J. clin. Path., 27, 590)*

The use of SI units in reporting results obtained in hospital laboratories 1974 D. N. BARON, P. M. G. BROUGHTON, M. COHEN, T. S. LANSLEY, S. M. LEWIS, and N. K. SHINTON

## Prices

INLAND One copy, £1.00; 2-10 copies (of any one broadsheet or reprint), 80p each; 11-100 copies (of any one), 60p each; 101 plus copies (of any one), price to be agreed; Authors (over 50 free copies), 60p each.

OVERSEAS One copy, \$2.00; 2-10 copies (of any one broadsheet or reprint), \$1.60; 11-100 copies (of any one), \$1.20; 101 plus copies (of any one), price to be agreed. Authors (over 50 free copies), \$1.20. Prices include postage but air mail will be charged extra. Trade discount 10%.

All orders (and all changes of address of regular subscribers) should be sent to the Publishing Manager, *Journal of Clinical Pathology*, BMA House, Tavistock Square, London, WC1H 9JR.