

- Dausset, J., Colombani, J., and Colombani, M. (1961). Study of Leukopenias and thrombocytopenias by the direct antiglobulin consumption test on leukocytes and/or platelets. *Blood*, **18**, 672-690.
- Harrington, W. J., Minnich, V., Hollingsworth, J. W., and Moore, C. V. (1951). Demonstration of a thrombocytopenic factor in the blood of patients with thrombocytopenic purpura. *J. Lab. clin. Med.*, **38**, 1-10.
- Harrington, W. J., Sprague, C. C., Minnich, V., Moore, C. V., Aulvin, R. C., and Dubach, R. (1953). Immunologic mechanisms in idiopathic and neonatal thrombocytopenic purpura. *Ann. intern. Med.*, **38**, 433-469.
- McKenna, J. L., and Pisciotta, A. V. (1962). Fluorescence of megakaryocytes in idiopathic thrombocytopenic purpura stained with fluorescent antiglobulin serum. *Blood*, **19**, 664-675.
- Martin, C. H., Nowicki, L., Schubert, J. C. F., and Schubert, H. (1967). Treatment of I.T.P. with actinomycin C. *Germ. med. Mth.*, **12**, 574-578.
- Morgan, M. C., and Szafr, J. J. (1961). Separation of platelets from whole blood by the use of silicone liquids. *Blood*, **18**, 89-94.
- Moulinier, J. (1955). Le test de consommation d'antiglobuline appliqué à la recherche des anticorps anti-thrombocytes. *Sang*, **26**, 811-821.
- Najean, Y., Ardaillou, N., Dresch, C., and Bernard, J. (1967). The Platelet destruction site in thrombocytopenic purpura. *Brit. J. Haemat.*, **13**, 409-426.
- Richmond, J., Woodruff, M. F. A., Cumming, R. A., and Donald, K. W. (1963). A case of idiopathic thrombocytopenia and autoimmune haemolytic anaemia treated by thymic irradiation and by administration of imuran and actinomycin-C. *Lancet*, **2**, 125-128.
- Shulman, N. R., Marder, V. J., and Weinrach, R. S. (1964). Comparison of immunologic and idiopathic thrombocytopenia. *Trans. Ass. Amer. Phycns*, **77**, 65-78.
- van de Wiel, W. M., van de Wiel-Dorfmeier, H., and van Loghem, J. J. (1961). Studies on platelet antibodies in man. *Vox Sang. (Basel)*, **6**, 641-668.

The September 1971 Issue

THE SEPTEMBER 1971 ISSUE CONTAINS THE FOLLOWING PAPERS

- Simplified organ cultures of human embryo trachea in the diagnosis of viral respiratory disease of children A. P. C. H. ROOME, VALERIE DICKINSON, AND E. O. CAUL
- Observations on *Aeromonas hydrophila* septicaemia in a patient with leukaemia E. ABRAMS, C. H. ZIERDT, AND J. A. BROWN
- Colorimetric determination of serum acid phosphatase activity using adenosine 3'-monophosphate as substrate GRAHAM ELLIS, ALAN BELFIELD, AND DAVID M. GOLDBERG
- Use of peroxidase-conjugated antiglobulin as an alternative to immunofluorescence for the detection of antinuclear factor in serum J. DORLING, G. D. JOHNSON, JANET A. WEBB, AND MAVIS E. SMITH
- Use of unabsorbed radioactive marker substances in a re-assessment of the radioactive triolein test of fat absorption R. K. DITCHBURN, A. N. SMITH, AND C. J. HAYTER
- Bisalbuminaemia in a Spanish family: characterization of the albumin variant J. M. IZQUIERDO, PILAR SOTORRÍO, B. DOWDING, AND A. L. TÁRNOKY
- 2,3-Diphosphoglycerate in acute asthma P. J. GALLAGHER
- Ultrastructure of a glomus tumour M. HARRIS
- Lymphangiosarcoma arising in chronic congenital and idiopathic lymphoedema D. H. MACKENZIE
- Haemangiosarcoma of breast E. KESSLER AND I. L. KOZENITZKY
- A micro-method for peripheral leucocyte migration in tuberculin sensitivity K. FEDERLIN, R. N. MAINI, A. S. RUSSELL, AND D. C. DUMONDE
- Phenacetin-induced haemolytic anaemia R. J. L. DAVIDSON
- Laboratory control of heparin therapy M. J. O'SHEA, P. T. FLUTE, AND G. M. PANNELL
- Single-sample diagnosis of recent rubella by fractionation of antibody on Sephadex G-200 column J. D. GUPTA, V. PETERSON, MARILYN STOUT, AND A. M. MURPHY
- Manpower in pathology 1969-1975 C. L. GREENBURY
- Technology of a regional Guthrie test service R. L. NEWMAN AND D. J. T. STARR
- Technical methods*
- Estimation of blood phenylalanine from a dried blood spot using the Guthrie test LEMAG WORKING PARTY.
- A rapid silver impregnation technique for oligodendrocytes, microglia, and astrocytes T. SCOTT
- A rapid method for the detection of ferritin in serum M. R. BEAMISH, P. LLEWELLIN, AND A. JACOBS
- Book reviews

Copies are still available and may be obtained from the PUBLISHING MANAGER,
BRITISH MEDICAL ASSOCIATION, TAVISTOCK SQUARE, WC1H 9JR price 105p.

antisera but these organisms were readily distinguished by their size and typical morphology.

Immunofluorescence applied to identification of bacterial colonies showed complete agreement with the results of biochemical methods. This method would appear to be as reliable as and more rapid and economical than fermentation and other biochemical reactions for diagnosis of bacterial species, although inapplicable to the recognition of toxigenic strains.

The authors wish to thank Miss Violet Armour MSc and the technicians of Bexar County Hospital Bacteriology Laboratories for their assistance.

References

- Allen, J. C., and Cluff, L. E. (1963). Identification of toxigenic *C. diphtheriae* with fluorescent antitoxin: demonstration of non-specificity. *Proc. Soc. exp. Biol. (N.Y.)*, **112**, 194-199.
- Cary, S. G., and Blair, E. B. (1964). New transport medium for shipment of clinical specimens. *J. Bact.*, **88**, 96-98.
- Elek, S. D. (1949). The plate virulence test for diphtheria. *J. clin. Path.*, **2**, 250-258.
- Ghag, N. K., and Sant, M. V. (1966). Rapid laboratory diagnosis of diphtheria by fluorescent antibody technique. *Ind. J. med. Sci.*, **20**, 914-919.
- Jones, W. L., and Moody, M. D. (1960). Staining toxigenic *Corynebacterium diphtheriae* with fluorescent antitoxin. *Bact. Proc.*, 141.
- Moody, M. D., and Jones, W. L. (1963). Identification of *Corynebacterium diphtheriae* with fluorescent antibacterial reagents. *J. Bact.*, **86**, 285-293.
- Whitaker, J. A., Nelson, J. D., and Fink, C. W. (1961). The fluorescent antitoxin test for immediate diagnosis of diphtheria. *Pediatrics*, **27**, 214-218.

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 Administrative Office, Association of Clinical Biochemists, 7 Warwick Court, Holborn, London, WC1R 5DP. The prices include postage, but airmail will be charged extra. Overseas readers should remit by British Postal or Money Order. If this is not possible the equivalent of 50p is the minimum amount that can be accepted.

SCIENTIFIC REPORTS

3 Automatic Dispensing Pipettes. An assessment of 35 commercial instruments 1967 P. M. G. BROUGHTON, A. H. GOWENLOCK, G. M. WIDDOWSON, and K. A. AHLQUIST 85p (\$2)

4 An Evaluation of five Commercial Flame Photometers suitable for the Simultaneous Determination of Sodium and Potassium March 1970 P. M. G. BROUGHTON and J. B. DAWSON 85p (\$2)

SCIENTIFIC REVIEWS

1 The Assessment of Thyroid Function March 1971 F. V. FLYNN and J. R. HOBBS 62½p (\$1.50)

TECHNICAL BULLETINS

9 Determination of Urea by AutoAnalyzer November 1966 RUTH M. HASLAM 42½p (\$1)

11 Determination of Serum Albumin by AutoAnalyzer using Bromocresol Green October 1967 B. E. NORTHAM and G. M. WIDDOWSON 42½p (\$1)

13 An Assessment of the Technicon Type II Sampler Unit March 1968 B. C. GRAY AND G. K. MCGOWAN 42½p (\$1)

14 Atomic Absorption Spectroscopy. An outline of its principles and a guide to the selection of instruments May 1968 J. B. DAWSON and P. M. G. BROUGHTON 42½p (\$1)

15 A Guide to Automatic Pipettes (2nd edition) June 1968 P. M. G. BROUGHTON 42½p (\$1)

16 A Guide to Automation in Clinical Chemistry May 1969 P. M. G. BROUGHTON 62½p (\$1.50)

17 Flame Photometers (2nd edition) 1969 P. WILDING 62½p (\$1.50)

18 Control Solutions for Clinical Biochemistry (4th edition) March 1970 P. M. G. BROUGHTON 62½p (\$1.50)

19 Spectrophotometers. A comparative list of low-priced instruments readily available in Britain May 1970 C. E. WILDE and P. SEWELL 62½p (\$1.50)

20 Quantities and Units in Clinical Biochemistry June 1970 P. M. G. BROUGHTON 62½p (\$1.50) More than 30 copies in units of 10 at 20p

21 Filter Fluorimeters: A comparative list of 18 instruments September 1970 H. BRAUNSBURG and S. S. BROWN 62½p (\$1.50)

22 Bilirubin standards and the Determination of Bilirubin by Manual and Technicon AutoAnalyzer Methods. January 1971 BARBARA BILLING, RUTH HASLAM and N. WALD 62½p (\$1.50)

23 Interchangeable Cells for Spectrophotometers and Fluorimeters September 1971 E. S. BROWN and A. H. GOWENLOCK 62½p (\$1.50)

operating hours' should be acceptable to large departments such as theirs but would scarcely be tolerable to the majority of NHS histopathologists, often working single-handed and giving cover to more than one hospital. Conceding that toluidine blue and aqueous mounting media save minutes, time, despite the frenetic age we live in, is not now so critical and the extra couple of minutes required to complete a rapid haemalum and eosin preparation would be acceptable to any surgeon. The advantages are obviously a permanent slide and an easier adaptation from paraffin to frozen sections for the inexperienced. The book would have been improved by beginning each section with a discussion of the important pitfalls and difficulties: florid sclerosing adenosis versus carcinoma of the breast, viral lymphadenitis versus malignant lymphoma, chronic pancreatitis versus sclerosing carcinoma of the pancreas, proliferative fibromatosis versus fibrosarcoma, and juvenile melanoma in the adult are a few examples that readily spring to mind. Granted that many of these diagnostic difficulties can be gleaned from the illustrations and their captions they nonetheless require special emphasis if therapeutic disasters are to be avoided by the enthusiastic, inexperienced histopathologist. The authors are to be congratulated on using their routine toluidine blue sections for illustration, showing them warts and all and resisting the temptation to indulge in window dressing. With few exceptions the colour reproductions are of high quality though I would not recommend a practice of picture matching to the histopathologist faced with a difficult frozen section.

W. B. ROBERTSON

Cytology Automation. Proceedings of Second Tenovus Symposium Edited by D. M. D. Evans. (Pp. 275; illustrated. £3.00). Edinburgh and London: E. & S. Livingstone Ltd. 1970.

The proceedings of the 1968 conference published two years later is still interesting reading although many of the hopes expressed have not been realized. The importance of the conference and the report is that the participants were interested in developing the subject from the 'hack screening' which so often produces the moribund, frustrated departments of cytology into active, interested laboratories continually developing the

subject. First to establish the accepted criteria for abnormality, then to find methods of scanning for such cells by any automated method is an admirable goal and should be pursued if any progress is to be made in the understanding of cervical cytology. None of the methods have so far borne much fruit.

A. G. SIGNY

Laboratory Diagnosis of Kidney Disease Edited by F. W. Sunderman and F. W. Sunderman, Jr. (Pp. xv + 587; illustrated. £12.60). St Louis, Missouri: Warren H. Green, Inc. London: Adam Hilger Ltd. 1971.

In the preface this book is described as containing '... the edited proceedings of an Applied Seminar on the Laboratory Diagnosis of Kidney Diseases held in Washington, D.C. under the auspices of the Association of Clinical Scientists'. The 50 chapters in this book presumably therefore comprise the papers read at that seminar and as such the title is misleading. The material covered ranges widely over the fields of normal renal function and structure to the biochemical and histopathological changes associated with kidney disease. However, as with the published proceedings of any symposium, the subject implied by the title is not covered comprehensively and there are many notable gaps. The more detailed information which is in this book is readily available in the standard texts on renal physiology, histopathology, and chemical pathology, and, therefore, especially at the price, the book cannot be recommended.

M. R. WILLS

Interpretation of Diagnostic Tests. A Handbook Synopsis of Laboratory Medicine By Jacques Wallach. (Pp. xxxii + 441; 5 figures; 60 tables. £3.00). Boston: Little, Brown and Co. London: J. and A. Churchill Ltd. 1970.

Despite disclaimers in the preface this synopsis contains many esoteric or outmoded tests, a number of surprising omissions, and some inaccuracies. It will not 'make it simpler for the physician to select the most useful laboratory test' but is a powerful argument for an interpretative clinical pathology service.

A. E. GREEN

The Blood Supply of Bone By Murray Brookes. (Pp. ix + 338; 219 Figures.

£6.50). London: Butterworth and Co. Ltd. 1971.

This book is to be welcomed as a brief and well illustrated account of the subject. It is based on a review of the literature and the author's extensive personal research.

It is essentially an anatomist's account of the subject. There are chapters on haemodynamics and on other physiological aspects of the intra-osseous circulation, but the main emphasis is given to the morphological study of blood vessels when visualized using microscopic, radiographic, and other injection techniques.

Most of the book describes the normal anatomy of the larger and smaller blood vessels in bone, but there are also brief sections on the role of vascular factors in disease processes, including occlusive vascular disease, avascular necrosis of bone, fracture repair, and osteoarthritis. The author regards circulatory factors as having a central position in the control of bone growth and renewal, and this point of view is elaborated in the final section of the book.

H. A. SISSONS

Intestinal Absorption and its Derangements

The proceedings of the symposium on 'Intestinal absorption and its derangements' organized by The Royal College of Pathologists and delivered in London in February 1971 will be published on 21 October as a supplement to the *Journal of Clinical Pathology*, price £2.00 including postage. Members of The Royal College, members of the Association of Clinical Pathologists, and subscribers to the *Journal of Clinical Pathology* will be able to buy the supplement at the concessionary price of £1.75, including postage. Copies may be obtained from the Publishing Manager, BMA House, Tavistock Square, London WC1H 9JR.