with the accompanying 195 superb colour photomicrographs covering most of the normal and abnormal aspects of cervical cytology and its histological bases. The choice of the illustrations, the standard of photography, and the attention to detail are admirable, and for that reason the book should be acquired and consulted by every cytological centre and all histological laboratories engaged in gynaecological pathology.

E. WACHTEL

The Pathology of the Heart By E. G. J. Olsen. (Pp. 240; illustrated. \$22.50.) New York: Intercontinental Medical Book Corporation. 1973.

Dr Olsen's book avowedly sets out to fill the gap between the very detailed books on cardiac pathology and the necessarily relatively short chapters in standard textbooks. He succeeds in his aims admirably. A prominent feature is the very clear way in which the topics are laid out with headings and sub-headings which make the book ideal for anyone wanting a rapid and balanced survey of the subject. Each of the 20 chapters has between 30 and 60 well chosen references and the illustrations, although perhaps in places a little murky, excellently complement the text. The author's hopes that it will be of value to candidates for postgraduate examinations should be more than justified. It will also be excellent for preparing lectures on special pathology, and it is the sort of book that university teachers secretly hope their students will not discover.

Factually one can criticize little. However, as so often happens with specialist textbooks, when it gives a summary of a general disease affecting the system in question it leaves a little to be desired. For example, the section on amyloidosis manages to get away without mentioning the words 'light chains' or even 'immunoglobulins', omissions that may well be a relief to non-chemically orientated morbid anatomists but potentially misleading to students.

A. C. HUNT

Tumours of the Esophagus and Stomach (Atlas of Tumour Pathology, Fascicle, Second Series) By Si-Chun Ming. (Pp. 279; 251 figures. No price given.) Washington: Armed Forces Institute of Pathology. 1973.

All professional surgical pathologists keep up to date their personal set of the Armed Forces Institute of Pathology Atlas of Tumour Pathology, though the work is largely unknown to surgeons, more's the pity. Though the Editor denies the intention of 'a second edition of the first Atlas', in fact this volume will supersede the combined fascicles 20 and 21 of the old series, and we shall miss the approach and style of Stout and Lattes. Fresh information abounds. There is a welcome amplification in the section on conditions associated with malignant epithelial tumours of the oesophagus, but a confusing account of carcinosarcoma and pseudosarcoma. We look to a work of this significance for guidance and considered opinion in difficult areas. On the stomach, the section on benign polyps is expanded, but I doubt whether any reader of this book would approve of the no less than seven illustrations of signet ring cell carcinoma. The space released by sacrificing six of them, with other otiose illustrations, would have been better devoted to problems in the interpretation of gastric biopsies. I am a little concerned that the practical aspects of diagnosis, stressed in say Rappaport's fascicle on the haemopoietic system or in the first edition of the fascicle on the central nervous system by Kernohan and Sayle, may be giving way to mere encyclopaedic information, and that this invaluable series may pass by degrees from the bench to the coffee table.

ARNOLD LEVENE

The Kidney An Outline of Normal and Abnormal Structure and Function, 4th ed. By H. E. de Wardener. (Pp. viii + 432; illustrated. £5.00.) Edinburgh and London: Churchill Livingstone. 1973.

This is the fourth edition of this monograph since its first appearance 15 years ago, clear testimony of its popularity. It is, indeed, a considerable achievement for one man to write a comprehensive account of the normal and abnormal structure and function of the kidney. It is probable that no one could be equally successful in all aspects of this considerable task although Professor de Wardener comes near to that goal.

The account of the physiology of the kidney is clear and straightforward. There is a good account of the immunological mechanisms of renal disease. The

clinical manifestations of the various forms of renal disease, their diagnosis and treatment, are also well presented as are the functional disorders in disease.

The accounts of the normal and abnormal structure are, however, disappointing and in some respects incorrect. Nowadays there is really no good reason, other than economy, for illustrating structural changes by line drawings rather than electron micrographs or photomicrographs. With modern techniques they should be as clear or clearer than line drawings. Unfortunately several of the line drawings in this book contain errors of fact as do the written accounts. The glomerular basement membrane is 3000 to 5000 Å thick not 800 Å. The description of the blood supply of the juxtamedullary glomeruli and the medulla is incorrect. Virtually the entire blood supply to the medulla is postglomerular.

The book is an excellent summary of the clinical and functional aspects of renal disease but as an account of the structural aspects it cannot be recommended.

D. B. BREWER

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 2 Some Inorganic and Organic Metallic Compounds. (Pp. 181. £1.50.) Lyon: International Agency for Research on Cancer. 1973. Distributed for the IARC by the World Health Organization, Geneva. Available through HMSO, London.

The contents of this small paperback volume are based on the findings of two recent International Agency for Research on Cancer working groups. The substances considered are asbestos, arsenic, cadmium, chromium, nickel, tetra-ethyl and tetra-methyl lead, and iron-carbonyl complexes. For each, a detailed survey is presented: chemical and physical data, the uses and occurrence of the various materials, biological data on carcinogenicity tests, and human observations (mainly epidemiological). Kept commendably separate, in each case, is a section of comments and evaluation. There are full bibliographies. The contemporary concern with industrial and environmental pollutants means that clinical pathologists are likely to be increasingly confronted with problems relating to the carcinogenic risks of some of the compounds discussed here—particu-

larly asbestos; they will find this book a useful and inexpensive source of current information.

RICHARD CARTER

Mammography, Thermography and Ultrasonography in Breast Disease (Radiology in Clinical Diagnosis Series) By Kenneth T. Evans, and I. Huw Gravelle. (Pp. x + 148; illustrated. £4.45.) London: Butterworth Group. 1973.

Strictly speaking for the radiologist, describing new advances in the use of important techniques. Mammohistologists may be interested.

H. E. M. KAY

Hemoglobinopathies Edited by G. Astaldi, G. Gusso, L. Tentori, and G. Torlontano. CISMEL Publications. (Pp. 142; illustrated. Lire Ital. 2.000.) Foggia, Italy: Archivio 'Casa Sollievo Della Sofferenza'. 1972.

This 142-page book (in English) is the record of a conference held in Italy in September 1971. All but one contributor are Italian and, because of their experience with thalassaemia, their views on the haemoglobinopathies are always of especial interest. In addition to articles on thalassaemia, there are a number of well written review articles covering such topics as the unstable haemoglobins and the M haemoglobins.

R. G. HUNTSMAN

Standardization in Haematology and Clinical Pathology Edited by G. Astaldi, G. Gusso, L. Tentori, and G. Torlontano. CISMEL Publication. (Pp. 254; illustrated. Lire Ital. 3.500.) Foggia, Italy Archivio 'Casa Sollievo Della Sofferenza'. 1972.

This book (254) pages) records a conference held in Italy in September 1971. The book is published totally in English although the majority of the contributors to both sections (haematology and clinical pathology) are Italian. The standard of translation is rough but adequate.

The section on haematology is concentrated around the prevention of errors due to electronic counters, with supporting articles on cytochemistry, radioisotopes, and the testing of transfusion equipment.

The section of 100 pages devoted to standardization in clinical pathology is of necessity extremely patchy. It opens with a broadside entitled 'Total quality control for the medical laboratory' and ends with indiscriminate sniping at such scattered targets as the diagnosis of alloalbuminaemia and the estimation of thyroxine.

Information on standardization tends to be scattered in the literature and therefore hard to obtain. It is a pity that this book does not cover the subject comprehensively. Nevertheless, it may be of value to haematologists with responsibility for running a routine laboratory.

R. G. HUNTSMAN

Notices

Association of Clinical Pathologists General Meetings 1974

The 92nd general meeting will be held at the University of Warwick, Coventry, on 3 to 5 April 1974, and the 93rd general meeting will be held at Imperial College, London, on 18 to 20 September 1974. All enquiries concerning these meetings should be addressed to Professor H. A. Sissons, Meetings Secretary, Association of Clinical Pathologists, Royal National Orthopaedic Hospital, 234 Great Portland Street, London W1N 6AD.

Ninth International Congress on Clinical Chemistry

The 9th International Congress on Clinical Chemistry will be held in Toronto from 13 to 18 July 1975 at the Four Seasons Sheraton Hotel.

Information may be obtained from Dr F. H. Sims, Chairman of the Publicity Committee, Women's College Hospital, Toronto, Ontario, Canada.