

contains studies of methods used to estimate M.A.C.s. Thirdly, there is a group of biological studies of M.A.C.s, and finally of the role of chemical and physical methods of analysis and of sampling in industry. The whole is somewhat disjointed, containing papers on such differing subjects as testing for dietary carcinogenicity, the metabolism of  $^{14}\text{C}$ -ethanediol (ethylene glycol), and safe levels of dustiness in cotton spinning mills.

Eighteen resolutions were passed and are published here. It is not clear to whom these resolutions were addressed, but they form a useful summary of the views of the participants under the four section headings given above. The symposium recommended the preparation and continuous revision of lists of M.A.C.s by a sub-committee of the Permanent Commission and International Association on Occupational Health. It is fortunate for those who wish to refer to papers on M.A.C.s of a wide range of toxic substances that these 56 papers are here published in one volume. There is no index, but the titles of the papers generally indicate their contents with sufficient clarity—would that this were always the case!

L. G. NORMAN.

### QUALITATIVE DATA

*Analysing Qualitative Data.* By A. E. Maxwell, M.A., Ph.D. (Pp. 163. 16s.) London: Methuen and Co. Ltd. New York: John Wiley and Sons Inc. 1961.

As the medical profession becomes more sophisticated in its use of statistical techniques there must be a growing number of research workers who have mastered the introductory texts and can use the principal analytical tests in their simpler forms. Further progress is difficult because the more recent and less well-known developments of these tests are in general to be found in statistical journals, which for most doctors are both inaccessible and difficult to comprehend without a basic training in the subject. Dr. Maxwell, who is a senior lecturer in statistics at the Institute of Psychiatry, University of London, has helped to fill this gap for workers in human sciences by this book and by his complementary *Experimental Design in Psychology and the Medical Sciences*, which deals with quantitative data.

The opening chapters discuss the  $\chi^2$  test for association, starting with the fourfold table. Dealing with larger tables the author proceeds in two particularly valuable chapters to the technique of partitioning the degrees of freedom to determine where significant differences lie and to the testing of trends in contingency tables. The section on  $\chi^2$  also covers its application in combining and comparing results from different investigations and its use as a test of goodness of fit. Rank correlation techniques are neatly summarized in a further chapter and some new tests for the analysis of serial data are reviewed. The book ends with chapters on classification and on the construction of attitude scales.

For each application of a test the author supplements his formal account by a worked example, chosen mainly, but not exclusively, from psychiatry or psychology. These are apt and clearly presented so that they serve both to enlighten the reader's understanding of the theory and to provide him with a guide for his own application. At a modest price this book is to be thoroughly recommended.

J. KNOWLEDEN.

### BOOKS RECEIVED

*Review is not precluded by notice here of books recently received.*

*Fundamental Approach to Surgical Problems.* By Lester F. Williams, jun., M.D., and Garnet F. Wynne, jun., M.D. (Pp. 216+xiv. 62s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*The Q-Sort Method in Personality Assessment and Psychiatric Research.* By Jack Block, Ph.D. (Pp. 161+ix. 54s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*The Chemical Basis of Medical Climatology.* By Professor Giorgio Piccardi. (Pp. 146+xii; illustrated. 50s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*Investigation of Carbon Dioxide Therapy.* By G. K. Yacorzyński, Ph.D., Arthur J. Atkinson, M.D., Jerome Cohen, Ph.D., and Forrest G. Shufflebarger, M.D. (Pp. 313+vi. 78s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*The Human Skeleton in Forensic Medicine.* By Wilton Marion Krogman, Ph.D., LL.D.(h.c.). (Pp. 337+xxvi; illustrated. £5 12s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*The Chemistry and Therapy of Behavior Disorders in Children.* By Herbert Freed, M.D. (Pp. 78+x. 36s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*A Doctor Looks at Toys.* By Elizabeth Lodge Rees, M.D. Illustrated by Marilyn Poore. (Pp. 188+xviii. 62s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*Uremia: Biochemistry, Pathogenesis, and Treatment.* By George E. Schreiner, M.D., F.A.C.P., and John F. Maher. (Pp. 487+xvi; illustrated. £6 8s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*Introduction to the Principles of Electroencephalography.* By Lever F. Stewart, M.Sc., M.D. (Pp. 55+vi; illustrated. 40s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*The Color Atlas of Intestinal Parasites.* By Francis M. Spencer, A.B., M.D., F.A.C.P., and Lee S. Monroe, M.S., M.D., F.A.C.P. (Pp. 142+xvii. 76s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*Diethyl Ether. Its Effects in the Human Body.* By Robert B. Dodd, M.D. Chapter on Metabolic Effects by John P. Bunker, M.D. (Pp. 120+xii. 30s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*Fungi and Fungous Diseases. A Symposium of the Section of Microbiology, New York Academy of Medicine.* Edited by Gilbert Daldorf, M.D. (Pp. 335+x; illustrated. 96s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*Genetic Mechanisms in Human Disease. Chromosomal Aberrations.* Edited by M. F. Ashley Montagu. (Pp. 592+xviii; illustrated. £7 16s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*Rheumatic Heart Disease. Pathology and Clinical Implications—a Summary of 509 Autopsied Cases.* By Jacques B. Wallach, M.D., and Edgar F. Borgatta, Ph.D., in collaboration with Alfred A. Angrist, M.D. (Pp. 174+x; illustrated. 60s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*The Roentgenological Aspect of Nonpenetrating Chest Injuries.* By John Riley Williams, M.D., and Frederick J. Bonte, M.D., F.A.C.R. (Pp. 135+x; illustrated. 60s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1961.

*Postoperative Care in Thoracic Surgery. A Manual of Practical Information for Internes, Residents, and Nurses.* By Henry J. Heimlich, M.D. (Pp. 44+xii; illustrated. 34s.) Springfield, Ill.: Charles C. Thomas. Oxford: Blackwell Scientific Publications. 1962.

*Bibliography of Medical Reviews.* Volume 6—Cumulation. 1955–1961. (Pp. 436.) Washington: National Library of Medicine, U.S. Department of Health, Education, and Welfare. 1961.

subscription is £3 3s., and further details may be obtained from C.A. Ltd., 14 Buckingham Street, London W.C.2.

### \*Family Doctor\*

The May issue of *Family Doctor* is now obtainable, price 1s. 6d. It includes articles on venereal disease, by Mr. A. J. KING; on hay fever, by Dr. E. J. TRIMMER; on children with epilepsy, by Dr. L. J. HURWITZ; on spinsterhood, by Dr. LAURA HUTTON; on keeping children in bed, by Professor R. S. ILLINGWORTH; on cataract, by Mr. M. WHITING; and on exchange transfusion, by Dr. R. A. ZEITLIN.

## COMING EVENTS

**National Society of Non-Smokers.**—Public meeting to call for carrying out of recommendations of report of Royal College of Physicians and report of Advertising Inquiry Council, May 4, 7 p.m., York Hall, Caxton Hall, Westminster, London S.W.1.

**B.B.C. Sound.**—"The Future of the Mental Health Services" (discussion on medical and social implications of Government Plan for Mental Health Services, by physician in psychological medicine at London teaching hospital; psycho-analyst; and medical superintendent of mental hospital), May 8, 8.40 p.m. (Third Programme). Dr. G. S. CLARIDGE, Ph.D., "Measuring Personality," May 10, 7.20 p.m. (Network Three).

**Society for Endocrinology.**—Annual general meeting, May 9, 10.30 a.m., Meeting House of Zoological Society of London, Regent's Park, London N.W.1. Annual dinner, 7 p.m., Restaurant. Zoological Society of London. Tickets, 21s. each, from Professor I. CHESTER JONES, Department of Zoology, The University, Sheffield 10.

**B.M.A. Lecture-discussion, Exeter.**—Mr. A. LAWRENCE ABEL, "Earlier Cancer Diagnosis" (with slides and cinematograph film), May 12, 3.30 p.m., Thornlea, New North Road, Exeter (entrance opposite Imperial Hotel). Chairman: Dr. C. J. FULLER. No ticket required. R.S.V.P. to Dr. GRAHAM-BONNALIE, Hon. Sec., South-western Branch B.M.A., 37 The Strand, Topsham, near Exeter, by one week before lecture. Tea 5 p.m.

**Regional Hospitals' Consultants and Specialists Association.**—Annual dinner, May 17, 7 p.m., Zoological Gardens, Regent's Park, London N.W.1. Chief guest: Mr. A. C. H. BELL, P.R.C.O.G.

**Osteopathic Medical Association.**—May 28, 8.30 p.m., 28 Wimpole Street, London W.1. Discussion: "Whither Osteopathy?"

**2nd Almroth Wright Lecture.**—Dr. J. L. GOWANS, "The Role of Lymphocytes in Immunological Reactions," May 14. (See advertisement p. 63.)

## New Issues of Specialist Journals

The Journals listed below are obtainable from the Publishing Manager, B.M.A. House, Tavistock Square, London W.C.1.

### BRITISH JOURNAL OF OPHTHALMOLOGY

The contents of the May issue are as follows:

- Studies on Developing Retinal Vessels. IX. N. Ashton and C. Pedler.
- Aberrant Lacrimal Gland Associated with Other Congenital Abnormalities. S. Gördüren.
- Bilateral Fulminating Endophthalmitis with Streptococcal Septicaemia. C. B. Walker and P. Fenwick.
- Hospitalized Senile Cataract in Different Jewish Communities in Israel. H. S. Halevi and J. Landau.
- Reduction in Aqueous Humour Formation as Caused by Iodate, Spirolactone, and Polyphlorethin Phosphate. D. F. Cole.
- Unusual Intra-orbital Foreign Body. I. Sacks and A. T. Matheson.
- Limbic Epithelioma with Intra-ocular Invasion. C. H. Greer.
- Adenocarcinoma of the Lacrimal Gland. F. J. Damato.
- Unilateral Retinitis Pigmentosa. K. S. Mehra.
- Iridiagnosis. P. Trevor-Roper.
- Correspondence.
- Reviews.
- Obituary.
- Notes.

Volume 46, No. 5. (Monthly; £6 yearly; with *Ophthalmic Literature and Index*, £9.)

## Societies and Lectures

For attending lectures marked ● a fee is charged or a ticket is required. Application should be made first to the institution concerned.

### Sunday, May 6

KING'S COLLEGE HOSPITAL.—At Out-patient Department, 10.30 a.m. to 12.30 p.m., clinical meeting for general practitioners.

### Monday, May 7

PLYMOUTH MEDICAL SOCIETY.—At North Friary House, 8.30 p.m., A.G.M. POSTGRADUATE MEDICAL SCHOOL OF LONDON.—4 p.m., Dr. J. Malins: Management of Diabetes.

ST. MARY'S HOSPITAL MEDICAL SCHOOL.—At Wright-Fleming Institute of Microbiology, 5 p.m., first Almroth Wright Lecture by Professor Frank Fenner, F.R.S.: Reactivation of Animal Viruses.

UNIVERSITY COLLEGE LONDON.—At Physiology Theatre, 5 p.m., Dr. I. M. Glynn: Sodium and Potassium Movements in Living Cells—I.

### Tuesday, May 8

BIRMINGHAM MEDICAL INSTITUTE: SECTION OF PSYCHIATRY.—8 p.m., Dr. Michael Shepherd: The Place of Psychiatry in Medical Education: Lessons and Warnings from the United States.

INSTITUTE OF DERMATOLOGY.—5.30 p.m., Dr. R. W. Riddell: Subcutaneous Fungal Infections.

INSTITUTE OF OBSTETRICS AND GYNAECOLOGY.—At Queen Charlotte's Maternity Hospital, London W., 8.30 p.m., general practitioners' lecture/discussion: Anaemia in Obstetrics and Gynaecology.

WEST END HOSPITAL FOR NEUROLOGY AND NEUROSURGERY.—5.30 p.m., Dr. N. G. Hulbert: Neurology.

### Wednesday, May 9

BROOK GENERAL HOSPITAL.—5.15 p.m., Dr. R. S. Bruce Pearson: Investigations of Steatorrhoea.

INSTITUTE OF DERMATOLOGY.—5.30 p.m., Dr. L. Szur: Introduction to Radiotherapy in Skin Diseases—II.

INSTITUTE OF DISEASES OF THE CHEST.—5 p.m., Sir Russell Brock: The Present Position of Heart Valve Surgery.

POSTGRADUATE MEDICAL SCHOOL OF LONDON.—2 p.m., Dr. K. R. Dumbell: Temperature and Infection.

ROYAL COLLEGE OF SURGEONS OF ENGLAND.—5 p.m., Special Lecture by Dr. Ludwik Gross: Oncogenic Viruses.

ROYAL FREE HOSPITAL.—5.15 p.m., Dr. W. E. King (Melbourne): Ulcerative Colitis.

### Thursday, May 10

ABERDEEN UNIVERSITY FACULTY OF MEDICINE.—4.30 p.m., Sir Derrick Dunlop: Addison's Disease.

HONYMAN GILLESPIE LECTURE.—At Anatomy Theatre, University New Buildings, Teviot Place, Edinburgh, 5 p.m., Professor Elliot V. Newman: Metabolic Consequences of Congestive Heart Failure.

INSTITUTE OF DERMATOLOGY.—5.30 p.m., Dr. J. O. Oliver: Autodisinfection of the Skin Surface.

NUFFIELD ORTHOPAEDIC CENTRE.—At Wingfield-Morris Orthopaedic Hospital, 8.30 p.m., Mr. E. W. Somerville: Israel.

POSTGRADUATE MEDICAL SCHOOL OF LONDON.—4 p.m., Dr. T. A. J. Prankerd: Glucose-6-phosphate Dehydrogenase Deficiency.

ROYAL COLLEGE OF SURGEONS OF ENGLAND.—5 p.m., Hunterian Lecture by Professor Gordon E. Heard: Nerve Sheath Tumours and von Recklinghausen's Disease of the Nervous System—A Clinical Study.

ST. MARY'S HOSPITAL MEDICAL SCHOOL.—At Wright-Fleming Institute Theatre, 5 p.m., Dr. D. Brinton: Neurological Complications of Pregnancy and Labour.

### Friday, May 11

INSTITUTE OF DISEASES OF THE CHEST.—5 p.m., Demonstration by Mr. J. R. Belcher: Surgical Treatment of Emphysema and Cysts.

INSTITUTE OF LARYNGOLOGY AND OTOTOLOGY.—5.30 p.m., Mr. G. H. Howells: Significance of Orbital Swellings in Nasal Accessory Sinus Disease.

LIVERPOOL SOCIETY OF ANAESTHETISTS.—At Liverpool Medical Institution, 8 p.m., annual general meeting.

MEDICAL ASSOCIATION FOR THE PREVENTION OF WAR.—At Friends' House, Euston Road, London N.W., 8 p.m., Rt. Hon. P. J. Noel-Baker: Techniques of Disarmament, Geneva, 1962.

POSTGRADUATE MEDICAL SCHOOL OF LONDON.—10 a.m., Dr. A. Duprez: Experimental Pancreatitis.

ROYAL INSTITUTION OF GREAT BRITAIN.—9 p.m., Professor G. M. Carstairs: Psychotic Illness and Artistic Production.

### Saturday, May 12

BRITISH DENTAL ASSOCIATION: NORTH SECTION, WESTERN COUNTIES BRANCH.—At Cheltenham General Hospital, 2.30 p.m., Professor T. Pomfret Kilner: Plastic Surgery, Past, Present, and Future. Followed by films and clinical cases.

CAMBRIDGE UNIVERSITY MEDICAL SCHOOL.—At Postgraduate Lecture Room, Addenbrooke's Hospital, Symposium on Paediatrics. *Morning*, 10.30 a.m., Dr. B. W. Powell: Convulsions; 11.30 a.m., Mr. T. J. Fairbank: Congenital and Neonatal Conditions in the Orthopaedic Field; 12.15 p.m., Mr. W. S. Foulds: The Young Child with Squint. *Afternoon*, 2.30 p.m., Dr. Janet Roscoe, Dr. Hugh Fleming: Clinical Cases Demonstrated; 3.45 p.m., Dr. Douglas Gairdner: Prematurity.

YORKSHIRE SOCIETY OF ANAESTHETISTS.—At Scarborough Hospital, 10.30 a.m., all-day meeting. Speakers: Dr. Sheila Anderson: Paediatric Anaesthesia; Dr. C. S. Ward: A Hypotensive Anaesthetic Technique.

## DEATHS

- Barabas.—On April 3, 1962, at his home, Ervin Barabas, M.D.
- Coldicutt.—On April 7, 1962, in Auckland, New Zealand, Claude Ernest Addison Coldicutt, M.D., D.P.H.
- Milne.—On April 11, 1962, at Oak Tree House, Willesborough, Ashford, Kent, Arthur Young Milne, M.B., Ch.B., aged 67.
- Mowat.—On April 10, 1962, at a nursing-home, Stirling, John Mowat, M.B., Ch.B., of Longrigg Cottage, Coalsnaughton, Tillicoultry, Clackmannanshire, aged 77.
- Stevenson.—On April 11, 1962, in Sheffield, Yorks, Donald Robert Louis Stevenson, M.B., F.R.C.S.Ed., M.R.C.O.G., of 81 Thorne Road, Doncaster, Yorks.
- Wrigley.—On April 9, 1962, in a nursing-home, Frank Graham Wrigley, M.D.