THE CAMBRIDGE PUBLIC HEALTH SERIES

Under the Editorship of

G. S. GRAHAM-SMITH, M.D., AND J. E. PURVIS, M.A.

Flies in Relation to Disease. Bloodsucking Flies. By Edward Hindle, B.A., Ph.D., Assistant to the Professor of Biology, Cambridge. Demy 8vo. With 88 text-figures. 12s. 6d. net.

The author's main object in writing this book has been to collocate the more important observations concerning the part taken by biting flies in the transmission of disease. In doing this it seemed advisable to include notes on the classification of the flies concerned and also descriptions of the infections transmitted, but no attempt has been made to give any account of the clinical symptoms of the various diseases, whether of man or animals. Special attention has been devoted to the modes of life of the more important insects mentioned, to the manner in which the infection is transmitted from one host to another, and also to any preventive measures directed either against the flies or the infections themselves.

- Flies in Relation to Disease. Non-Bloodsucking Flies. By G. S. GRAHAM-SMITH, M.D., Lecturer in Hygiene in the University of Cambridge. Demy 8vo. Second edition, revised and enlarged, With 27 plates, 32 text-figures and 20 charts. 12s. 6d. net.
- Sewage Purification and Disposal. By G. Bertram Kershaw, M.Inst.C.E., Consulting Engineer, Engineer to the Royal Commission on Sewage Disposal. Demy 8vo. With 4 tables and 56 text-figures and plans. 12s. net.
- The Chemical Examination of Water, Sewage, Foods and other Substances. By J. E. Purvis, M.A., University Lecturer in Chemistry and Physics as applied to Hygiene and Public Health, Cambridge, and T. R. Hodgson, M.A., Public Analyst for the County Boroughs of Blackpool and Wallasey. Demy 8vo. 9s. net.
- The Bacteriological Examination of Food and Water. By WILLIAM G. SAVAGE, B.Sc., M.D., D.P.H., County Medical Officer of Health, Somerset. Demy 8vo. With 16 illustrations. 7s. 6d. net.
- Infant Mortality. By Hugh T. Ashby, B.A., M.D., B.C. (Camb)., M.R.C.P. (London). Demy 8vo. With 9 illustrations. 10s. 6d. net.
- Isolation Hospitals. By H. Franklin Parsons, M.D., D.P.H., formerly First Assistant Medical Officer of the Local Government Board. Demy 8vo. With 55 text-figures. 12s. 6d. net.
- Post-mortem Methods. By J. Martin Beattie, M.A., M.D., Professor of Bacteriology, University of Liverpool. Demy 8vo. With 8 plates and 3 text-figures. 10s. 6d. net.

A list of volumes in preparation will be sent on application

CAMBRIDGE UNIVERSITY PRESS, FETTER LANE, LONDON
C. F. CLAY, Manager

THE HOUSE=FLY

Musca domestica Linn.

ITS STRUCTURE, HABITS, DEVELOPMENT, RELATION TO DISEASE AND CONTROL

By

C. GORDON HEWITT, D.Sc., F.R.S.C.

Dominion Entomologist of Canada, formerly Lecturer in Economic Zoology in the University of Manchester

Cambridge Zoological Series. Demy 8vo. Pp. xvi + 382 With 104 illustrations and a map. Price 15s. net

The world-wide interest which has been created during the last few years in the relation which the house-fly bears to the hygienic state of the individual and of the community, as a product of insanitary conditions and as a potential and not infrequent disseminator of certain common and preventable infectious diseases, has rendered the presentation of our knowledge of this insect, its habits and relation to disease most desirable and, indeed, necessary as a means of appreciating its significance from the entomological and medical standpoint and as a basis for further investigation.

Although the present volume contains the whole of the original matter published in the Quarterly Journal of Microscopical Science, the extent of subsequent work by investigators in all the continents has necessitated the preparation of a completely new work.

HOUSE-FLIES AND HOW THEY SPREAD DISEASE

By

C. GORDON HEWITT, D.Sc., F.R.S.C.

Cambridge Manuals Series. Cloth, 1s. net; leather, 2s. 6d. net

"Dr Hewitt's little volume is especially comprehensive and well arranged. The book contains a bibliography and is sufficiently indexed and illustrated, making altogether, perhaps, as good a manual on the subject as could at the present state of our knowledge be produced in similar compass."—Times

OBSERVATIONS UPON THE NATURAL HISTORY OF EPIDEMIC DIARRHOEA

By

O. H. PETERS, M.D., D.P.H.

Large Royal 8vo. With 38 tables and 9 charts. 7s. net

"Dr Peters has done his work in a thoroughly scientific manner....It is a valuable addition to the literature of a subject which yearly demands a toll of many thousand lives."—Athenaeum "This monograph is a thoughtful and valuable contribution to the literature of a devastating disease, and deserves careful consideration by all who are concerned in its study."—Lancet

CAMBRIDGE UNIVERSITY PRESS, FETTER LANE, LONDON C. F. CLAY, Manager

A REPORT ON RESEARCHES ON SPRUE IN CEYLON

1012-1014

By P. H. BAHR

M.A., M.D., D.T.M. and H. (Cantab.), M.R.C.P. (Lond.), M.R.C.S. London School of Tropical Medicine Horton-Smith prizeman, Cambridge, 1914

Large Royal 8vo. pp. x + 156. With 8 plates and a map. Price 7s 6d net

The frequent occurrence during recent years of sprue amongst the planting community of Ceylon, together with the lack of trustworthy information on the subject, made it advisable, from an economic, as well as from a humanitarian point of view, that the subject should be investigated in the light of modern research. At the request of the government of Ceylon, therefore, the London School of Tropical Medicine appointed Dr Bahr to undertake such an investigation and in these pages he has recorded the results of his efforts to unravel the etiology of one of the least understood, but nevertheless one of the most insidious diseases known to Tropical Medicine.

> CAMBRIDGE UNIVERSITY PRESS, FETTER LANE, LONDON C. F. CLAY, Manager

OXFORD UNIVERSITY PRESS

Quarterly Journal of Medicine

Edited by

Sir WILLIAM OSLER, J. ROSE BRADFORD, R. HUTCHISON, A. E. GARROD, H. D. ROLLESTON AND W. HALE WHITE.

8s. 6d. net per number. Annual Subscription, 25s. Vols. I-VII (Nos. 1-28). 35s. net per volume.

The Anatomy of the Human Eye; 67 stereoscopic photographs,

in a box, with letterpress and key-plates. By ARTHUR THOMSON. £2. 2s. net. English Medicine in Anglo-Saxon Times: the Fitz-Patrick Lectures for 1903. By J. F. PAYNE. 8vo, with 23 illustrations. 8s. 6d. net.

The Study of Medicine in the British Isles: the Fitz-Patrick Lectures for 1905-6. By NORMAN MOORE. 8vo, with 13 Collotype plates. 10s. 6d. net.

First Principles of Hygiene. By W. D. Sturrock. Crown 8vo.

Healthy Dwellings. By Sir D. GALTON. Second edition. 8vo. 10s. 6d.

Healthy Hospitals. By the same, with illustrations. 8vo. 10s. 6d. An Account of the Morisonian Herbarium in the possession of the University of Oxford, together with Biographical and Critical Sketches of Morison and the two Bobarts and their Works, and the early history of the Physic Garden, 1617-1720. By S. H. Vines and G. Claridge Druce. Crown

8vo, with 5 plates. 15s. net. Plague and Pestilence in Literature and Art. By R. CRAWFURD. With 32 plates. 8vo. 12s. 6d. net.

Times:- 'Dr Crawfurd's new book is admirable.'

London: HUMPHREY MILFORD, https://doi.org/10.1017/2004/01/2004/01/2/Rublished online by Cambridge University Press P. E.C.

CONTENTS

(All rights reserved)

	PAGE
Hewlett, R. T. and Revis, C. On a Complement-stimulating	
Substance in Cow's Milk	1
Brownlee, J. Studies in the Meaning and Relationships of Birth	
and Death Rates	
II. Density of Population and Death Rate (Farr's Law)	11
III. The Constitution of a Death Rate. (With one	
Chart)	17
IV. On the Range of Instances in which Geometrical Progressions describe numerically processes of life, i.e. those processes which might be explained by a	
monomolecular reaction	25
V. On the difficulty that in applying the laws of physical	
chemistry to life processes, indices occur which	0.0
suggest the actions of fractions of a molecule .	33
RADCLIFFE, J. A. D. Complement Fixation in Pulmonary	-
Tuberculosis	36
Mackintosh, J., Pennington, S. and Williams, R. S. The	
Supply of Non-tuberculous Dairy Stock	51
HAFFKINE, W. M. Concerning Inoculation against Plague and	
Pneumonia and the Experimental Study of Curative Methods	64
FLETCHER, W. The Wassermann and Luetin Reactions in	
Leprosy	102
EWART, R. J. The Influence of Age of the Grandparent at the	
Birth of the Parent on the Number of Children born and their	
Sex. (With one Text-figure)	127
TAYLOR, F. E. The Sterilisation of Vaccines; and the Influence	141
of the Various Methods Employed on their Antigenic Pro-	
	169
perties. (With one Chart)	163

The Journal of Hygiene is issued as material accumulates. A volume containing about 500 pages, with plates and figures, is issued annually.

Volumes I—III (1901-3) complete. In Four Parts, paper covers, 15s. net per volume. Bound in buckram, 18s. 6d. net per volume.

Volumes IV—XIV (1904-14) complete. In Parts, paper covers,

21s. net per volume. Bound in buckram, 25s. net per volume.

Papers for publication may be sent to Prof. Geo. H. F. NUTTALL, F.R.S., Longfield, Madingley Road, Cambridge, or to the associate Editors. Other communications should be addressed to the University Press, Cambridge.

Papers forwarded to the Editors for publication are understood to be offered to *The Journal of Hygiene* alone, unless the contrary is stated.

Contributors receive seventy-five copies of their papers free. Additional copies may be had at cost price: these should be ordered when the final proof is returned.

The subscription price is £1. 1s. per volume (post-free), payable in advance; single numbers 7s. net. Subscriptions may be sent to any Bookseller, or to MR C. F. CLAY, MANAGER, Cambridge University Press, Fetter Lane, London, E.C.

The Cambridge University Press has appointed the University of Chicago Press agents for the sale of *The Journal of Hygiene* in the United States of America and has authorised them to charge the following prices: Subscription

\$5.25 per volume; single numbers, \$1.75 each.

Plague Numbers, Vol. VI. no. 4 (not sold separately), Vol. VII. nos. 3 and 6, and Vol. VIII. no. 2, Vol. X. no. 3, Price 6s. net each. Bound volumes containing all five numbers, with Index, are also

issued, price 20s. net.

A series of Plague Supplements has been issued; the first four of these contain Reports VI—IX on Plague Investigations in India. They are, in pagination, completely independent of the Journal although subscribers to the latter receive copies without extra cost. Price of Plague Supplements, i. and ii. 7s. net each; iii. 10s. net; iv. 7s. net. Plague Supplements i, ii, iii can also be supplied bound in buckram, price 20s. net. Further reports are in preparation.