### THE

# JOURNAL OF HYGIENE

#### EDITED BY

### GEORGE H. F. NUTTALL, M.D., Ph.D.

LECTURER IN BACTERIOLOGY AND PREVENTIVE MEDICINE

IN THE UNIVERSITY OF CAMBRIDGE,

LATE ASSOCIATE IN HYGIENE IN THE JOHNS HOPKINS UNIVERSITY, BALTIMORE.

#### IN CONJUNCTION WITH

JOHN S. HALDANE, M.D., F.R.S.

LECTURER IN PHYSIOLOGY IN THE UNIVERSITY OF OXFORD ARTHUR NEWSHOLME, M.D., F.R.C.P.

MEDICAL OFFICER OF HEALTH
OF BRIGHTON

# Volume II. 1902



# CAMBRIDGE AT THE UNIVERSITY PRESS

LONDON: C. J. CLAY AND SONS, AVE MARIA LANE
AND H. K. LEWIS. GOWER STREET

NEW YORK: THE MACMILLAN COMPANY

LEIPSIC: BROCKHAUS

BOMBAY AND CALCUTTA: MACMILLAN & CO., LTD.

[All Rights reserved]

Cambridge :

PRINTED BY J. AND C. F. CLAY, AT THE UNIVERSITY PRESS.

### CONTENTS.

## No. 1 (January).

HAYWARD, T. E. On the Construction and use of Life-Tables from	PAGE
a Public Health point of view. (Three Diagrams)	1
STANLEY, ARTHUR. Notes on an Outbreak of Cattle-Plague in Shanghai, and its Limitation by the Gall Immunisation of Koch.	43
CROPPER, JOHN. The Geographical Distribution of Anopheles and Malarial Fever in Upper Palestine. (With Map)	47
STUDIES IN RELATION TO MALARIA.	
II. (Cont.) NUTTALL, GEORGE H. F., and SHIPLEY, ARTHUR E. The Structure and Biology of Anopheles	58
WALKER, E. W. AINLEY. On the Protective Substances of Immune	
Sera	85
No. 2 (April).	
REED, WALTER. Recent Researches concerning the Etiology, Propagation, and Prevention of Yellow Fever, by the United States Army Commission. (Three Charts)	101
BIRT, MAJOR C., and LEISHMAN, MAJOR W. B. A new Acid-Fast Streptothrix, Pathogenic to Man and Animals. (Plate I: Two	
Figures)	120
ROGERS, LEONARD. An Experimental Enquiry on the Disinfection of Floors for Plague	129
Paton, D. Noël. Observations on the Movements of the Pollutions of the Tyne Estuary during the Summer of 1901. (Two	
Figures)	141
Newsholme, Arthur. On an Outbreak of Sore Throats and of Scarlet Fever caused by Infected Milk	150
Graham-Smith, G. S. The Measures taken to check the Diphtheria Outbreak of 1901 at Colchester. (One Map and Four Charts).	170

DEAN, GEORGE, and Todd, Charles. Experiments on the Relation of the Cow to Milk-Diphtheria. (Plate II: Seven Figures)	194
HAYWARD, T. E. On the Construction and Use of Life-Tables from	
a Public Health point of view. (One Diagram)	206
RITCHIE, JAMES. A Review of Current Theories regarding Immunity	215
No. 3 (July).	
RITCHIE, JAMES. A Review of Current Theories regarding Immunity.	
(Continued)	251
Pugh, W. T. Gordon. Post-Scarlatinal Diphtheria. (One Figure) .	286
IRONS, ERNEST E. Neutral-Red in the Routine Examination of Water	314
SAVAGE, WILLIAM G. The Significance of Bacillus Coli in Drinking Water	320
HAYWARD, T. E. On the Construction and Use of Life-Tables from a Public Health point of view. (Concluded)	358
ALDRIDGE, MAJOR A. R. Enteric Fever and Sewage Disposal in Tropical Countries. (One Map)	360
STANLEY, ARTHUR. The Nature of Beri-Beri. (One Chart)	369
IN MEMORIAM: PATRICK THURBURN MANSON (With Portrait) .	383
Books Received	384
No. 4 (October).	
WRIGHT, A. E., and WINDSOR, F. N. On the Bactericidal Effect exerted by Human Blood on certain species of Pathogenic Micro-Organisms and on the Antibactericidal Effects obtained by the addition to the blood in vitro of Dead Cultures of the Micro-Organisms in question	385
HALDANE, JOHN S. The Air of Factories and Workshops	414
Tunnicliffe, F. W. The Digestibility of the Albuminous Constituents of Human Milk and that of various substitutes for it.	445
RITCHIE, JAMES. A Review of Current Theories regarding Immunity.	
(Concluded)	452
INDEX OF AUTHORS	465
INDEX OF SUBJECTS	467