

# The Quarterly Journal of Medicine

Edited by

T.R. ELLIOTT, F.R. FRASER, A.G. GIBSON, R. HUTCHISON, J.W. McNEE, H.D. ROLLESTON

with the help of

J. HILL ABRAM, E. FARQUHAR BUZZARD, JOHN COWAN, T. WARDROP GRIFFITH, G. LOVELL GULLAND,  
ARTHUR J. HALL, GORDON HOLMES, ARTHUR F. HURST, H. MACLEAN, GEORGE R. MURRAY,  
J. A. NIXON, R. A. PETERS, R. W. PHILIP, E. P. POULTON, E. I. SPRIGGS

## CONTENTS: APRIL 1931

The Blood-platelet: Its Clinical Significance. By W. MACKAY.—Some Observations on the Circulatory Mechanism in Marathon Runners. By BRIGTON BRAMWELL and REGINALD ELLIS.—Generalized Myositis Fibrosa. By J. A. G. BURTON, JOHN COWAN, and JOHN FLEMING.—Urticaria: Some Observations upon the Vascular Reactions in the Skin. By KENNETH E. HARRIS.—Inorganic Constituents of Cerebrospinal Fluid. I. Calcium and Magnesium. By ROBERT ALEXANDER McCANCE and ELSIE WATCHORN.—Arsenobenzol Purpura. With a Short Description of Four Cases. By J. BAMFORTH and J. St G. ELKINGTON.—Critical Review: The Metabolism of Calcium and Phosphorus and the Parathyroids in Health and Disease. By DONALD HUNTER.

SINGLE NUMBERS 10s. 6d. NET EACH      SUBSCRIPTION 35s. PER ANNUM  
VOLUMES 45s. NET      ,,      BOUND VOLUMES 40s. NET  
CLOTH CASES 5s. NET

Humphrey Milford, Oxford University Press, London, E.C. 4

*Subscription in India and abroad Rupees 16 per annum. Post free. Payable in advance*

## THE INDIAN JOURNAL OF MEDICAL RESEARCH

Edited by THE DIRECTOR-GENERAL, INDIAN MEDICAL SERVICE, THE PUBLIC HEALTH COMMISSIONER WITH THE GOVERNMENT OF INDIA, and THE DIRECTOR, CENTRAL RESEARCH INSTITUTE, in collaboration with LEADING AUTHORITIES ON TROPICAL MEDICINE

The Indian Journal of Medical Research is published quarterly. Each number contains about 200 pages and is illustrated with Plates in Colour and Half-tone and with Diagrams and Charts, and is the only medium publishing the results of the best medical research work being carried on by leading scientific medical men in India and the East.

THACKER, SPINK & CO. (P.O. BOX 54) CALCUTTA  
LONDON AGENTS: W. Thacker & Co., 2, Creed Lane, E.C. 4

A NEW JOURNAL

## THE JOURNAL OF DAIRY RESEARCH

EDITED FOR

The Dairy Research Committee of the Empire Marketing Board  
by R. W. STENHOUSE WILLIAMS, M.B., C.M.

Published Half-Yearly

Annual subscription, payable in advance, 15s. net

NOW READY

VOLUME II, NUMBER I, DECEMBER 1930. TEN SHILLINGS NET  
CAMBRIDGE UNIVERSITY PRESS, FETTER LANE, LONDON, E.C. 4

# CONTENTS

(All rights reserved)

	PAGE
CUMPTON, J. H. L. Birth Rates and their possible association with the prevalence of Infectious Disease. (With 12 Graphs)	291
BAKER, JOHN R. The Spermicidal Powers of Chemical Contraceptives. III. Pessaries.	309
SMITH, MURIEL M. Observations on <i>Bacillus (Haemophilus) influenzae</i> with Special Reference to Morphology and Colonial Characters. (With Plates IV and V containing 21 figures)	321
GREENWOOD, M. On the Statistical Measure of Infectiousness	336
WOLFF, J. W. Observations on the Weil-Felix Reaction in Tsutsugamushi Disease. (With 3 Charts)	352
CANN, L. W. and DE NAVASQUEZ, S. Epidemic Dysentery in the Nursing Staff due to <i>Bacillus dysenteriae</i> Sonne. (With Plate VI)	361
BARKWORTH, CAPT. H. Keeping Quality of Milk and the Age on Testing for Total Bacterial Count	373
CRUICKSHANK, ROBERT. Döderlein's Vaginal Bacillus: A Contribution to the Study of the <i>Lacto-Bacilli</i> . (With 1 Text-figure)	375
FELIX, A. Specific and Non-Specific Serum Reactions in Typhus Fever	382
GREENWOOD, M., TOPLEY, W. W. C. and WILSON, J. The Mortality of a Herd of Mice under "Normal" Conditions	403
RUSSELL, W. T. A Review of the Cancer Statistics in England and Wales and in Scotland between 1891 and 1927. (With a Diagram)	406
STUART, G. and KRIKORIAN, K. S. Appearance and Persistence in Rabbits' Blood of Rabidicidal Antibodies Produced by Various Methods of Anti-Rabies Immunisation. (With a Chart)	414
LESLIE, P. H. and GARDNER, A. D. The Phases of <i>Haemophilus pertussis</i> . (With one Figure)	423

*The Journal of Hygiene* is issued as material accumulates. A volume containing four numbers is issued annually in paper covers at the following net prices:

Volumes I—III (1901–3). 17s. 6d.

Volumes IV—XVI (1904–18), *excepting* Vol. VI, no. 4, Plague number. 25s.

Volume XVII (1918). 31s.

Volumes XVIII—XXX (1919–30). 42s. each.

Quotations can be given for buckram binding cases and for binding subscribers' sets; also for bound copies of back volumes.

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 fifty 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 £2. 2s. per volume (post-free), payable in advance; single numbers 12s. 6d. net. Subscriptions may be sent to any Bookseller, or to The Cambridge University Press, Fetter Lane, London, E.C. 4.

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 \$10.00 per volume; single numbers, \$3.00 each.

Plague Numbers, Vol. VI. no. 4 (out of print), Vol. VII. nos. 3 and 6, and Vol. VIII. no. 2, Vol. X. no. 3, Price 6s. net each.

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. and v. 7s. net each. Plague Supplements i, ii, iii can also be supplied bound in buckram, price 20s. net.