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# CEREBRO-SPINAL FEVER

by

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Cambridge :  
at the University Press  
1916

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**CAMBRIDGE**  
UNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom

Published in the United States of America by Cambridge University Press, New York

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning and research at the highest international levels of excellence.

[www.cambridge.org](http://www.cambridge.org)

Information on this title: [www.cambridge.org/9781107415799](http://www.cambridge.org/9781107415799)

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First published 1916

First paperback edition 2014

*A catalogue record for this publication is available from the British Library*

ISBN 978-1-107-41579-9 Paperback

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IN MEMORIAM  
M. F.      W. H. G

Some will allow no Diseases to be new, others think that many old ones are ceased, and that such which are esteemed new, will have but their time. However, the Mercy of God hath scattered the great heap of Diseases, and not loaded any one Country with all: some may be new in one Country which have been old in another.

Sir THOMAS BROWNE, *A Letter to a Friend.*

## PREFACE

THIS book has for its aim an attempt to bring together and correlate the clinical and pathological facts which we were enabled to accumulate during the epidemic of 1915. In January of that year, some of the first cases to occur in the Eastern Command were brought to the 1st Eastern General Hospital for treatment, and came under our care. The earlier cases were admitted in the first instance to different wards and were therefore under the charge of various physicians. Our thanks are due to Major Wright and Captains Curl and Haynes for allowing us every facility for studying the cases which had been admitted under their care. To Captain Curl we are especially indebted for much valuable counsel and help in dealing with these earlier cases. At the end of February the War Office appointed one of us bacteriologist to deal with the outbreak in the Western part of the Eastern Command. At the same time Colonel Griffiths arranged that a ward should be set apart for the treatment of all cases that arose. We were appointed to have charge of the cases admitted.

A laboratory, which had been equipped by the Insurance Act Committee for purposes of research at the 1st Eastern General Hospital, was given for the investigation. In addition to providing the laboratory, the Committee assisted our investigations by appointing Mr H. W. C. Vines to study special problems as they arose. We wish to express our great indebtedness to the Insurance Act Committee for the equipment so generously given. To Mr Vines our thanks are specially due as much of his work has been incorporated in the present volume. Major Hele also rendered valuable assistance when the pressure of work was extremely great. In addition to laboratory work, it was the duty of the bacteriologist to visit the place of origin of every case, and investigate the hygienic conditions in which it arose. At this visit all contacts were examined to discover carriers. All proved carriers were at once brought into the special Cerebro-Spinal Fever ward, where they were kept under observation until two consecutive throat swabs had proved negative. Every case was therefore fully investigated by us from its commencement to the termination of the illness. We have also had

the good fortune to see several of our cases some months after their discharge from hospital.

The views here set forth are the outcome of clinical and pathological observations made in the wards, the laboratory, and the post-mortem room of the 1st Eastern General Hospital. Whatever value these conclusions may have, is due to the fact that the clinical and pathological study of each particular case was carried out day by day by the same observers working in conjunction. It has been claimed that the epidemic nature of successive outbreaks differs so essentially that knowledge gained in one visitation is of but slight value in another. Whether this is the case we have no means of knowing; but we would point out that the cases which came under our care supplied examples of every variety of the disease described in the literature of the subject.

The method of treatment by repeated lumbar puncture, which was adopted in the majority of cases, has rendered possible a study of the natural history of the disease and the changes in the cerebro-spinal fluid, unmodified by the operation of any extraneous agent.

We desire to express our thanks to Colonel Griffiths for the opportunities of studying the disease which he has afforded us. We are especially indebted to Major Apthorpe Webb for his unfailing assistance in the arrangement and administration of measures which often had to be evolved in face of a sudden emergency. To our brother officers we offer our grateful thanks for their constant help. The plates illustrating this book were drawn by Mr West of the University Press from our own cases and specimens. We are however indebted to Mr Vines for the microscopical drawing shown on Plate XI, fig. 1. We desire to thank Mr G. A. Harrison, of Caius College, for the photograph illustrating head retraction. Owing to the courtesy of Messrs Longman we have been allowed to introduce three anatomical illustrations from Gray's *Anatomy*. Through the kind offices of Professor Netter, of Paris, and G. Steinheil, we have obtained permission to reproduce the figure of the lymphatic connections of the sub-arachnoid space and the upper part of the nose, published by M. le Docteur J.-Marc André in his *Thèse de Paris*. To these gentlemen we tender our grateful thanks.

M. F.  
J. F. G.

GREAT SHELFORD  
*January 1, 1916.*



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