

**TRANSACTIONS OF THE
EPIDEMIOLOGICAL SOCIETY
OF LONDON. NEW SERIES.
VOL. IX. SESSION 1889-90**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649500024

Transactions of the Epidemiological Society of London. New Series. Vol. IX. Session 1889-90 by
Epidemiological Society of London

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

EPIDEMIOLOGICAL SOCIETY OF LONDON

**TRANSACTIONS OF THE
EPIDEMIOLOGICAL SOCIETY
OF LONDON. NEW SERIES.
VOL. IX. SESSION 1889-90**

TRANSACTIONS
OF THE
EPIDEMIOLOGICAL SOCIETY
OF
LONDON.

NEW SERIES. VOL. IX.

SESSION 1889-90.



LONDON:
SHAW AND SONS, FETTER LANE, E.C.

MDCCCXCI.

All rights reserved.

CONTENTS.

| | |
|---|-----|
| Inaugural Address of Session 1889-90. By Sir THOMAS CRAWFORD, K.C.B., M.D., LL.D. | 1 |
| Malaria versus more Recognisable Causes of Disease. By Sir WILLIAM MOORE, K.C.I.E. | 23 |
| Notes on an Outbreak of Typhus Fever. By OGILVIE GRANT, M.B., C.M., M.O.H. Inverness | 47 |
| Analysis of 118 Cases of Leprosy in the Tarntaran Asylum (Punjab). Reported by GULAM MUSTAPHA, Assistant Surgeon. By PHINEAS S. ABRAHAM, M.A., M.D. | 52 |
| On the Arrest and Cure of Leprosy by the External and Internal Use of the Gurjun and Chanmoogra Oils. By the Hon. J. C. PHILLIPPO, M.D., of Jamaica. With Introductory Remarks, and Abstract of Patient's Account, by P. S. ABRAHAM, M.A., M.D. | 70 |
| On Malta Fever. By A. G. P. GIPPS, Surgeon, E.N. | 76 |
| On the Use of the Oil of Eucalyptus Globulus in Scarlet Fever and other Infectious Diseases. By J. B. CUBGENVEN, M.R.C.S. | 93 |
| Epidemic Influenza in France. By JACQUES BERTILLON, M.D., Chief of the Municipal Statistical Department of Paris | 103 |
| Notes on an Outbreak of Influenza in a Poor-law School. By GEORGE RICE, M.B., C.M., Medical Officer South Metropolitan District Schools | 104 |
| Enteric Fever in India : its Increase, Causes, Remedies, and Prob- able Consequences. By ROBERT PRINGLE, M.D. Edin. ; late Sanitary Department, N.W.P., India ; Ret. Surgeon-Major, H.M.'s Bengal Army | 111 |
| On an Epidemic of Dengue Fever in Fiji in 1885. By A. J. F. SKOTTOWE, M.D. | 133 |



EPIDEMIOLOGICAL SOCIETY OF LONDON.

OFFICERS AND OTHER MEMBERS OF COUNCIL

FOR THE SESSION 1890-91.

President.

JOSEPH EWART, M.D., F.R.C.P., J.P.

Honorary Vice-Presidents.

THE RIGHT HON. LORD ABERDEEN. THE RIGHT HON. LORD MEATH.
SIR EDWIN CHADWICK, K.C.B.

Vice-Presidents.

SIR JOHN SIMON, K.C.B., D.C.L., F.R.S.
SIR HENRY W. ACLAND, K.C.B., M.D., F.R.S., Regius Professor of Medicine in the University of Oxford.
SIR WILLIAM JENNER, Bart., G.C.B., M.D., D.C.L., F.R.S., Physician in Ordinary to Her Majesty the Queen.
BENJAMIN W. RICHARDSON, M.D., F.R.S.
ROBERT LAWSON, LL.D., Inspector-General of Hospitals, Royal Army (retired).
SIR JOSEPH FAYRER, K.C.S.I., LL.D., M.D., F.R.S., Q.H.P.
JOHN MURRAY, M.D., Surgeon-General (retired).
GEORGE BUCHANAN, M.D., F.R.S.
J. BURDON SANDERSON, M.D., F.R.S.
SIR THOMAS CRAWFORD, K.C.B., M.D., LL.D.
WALTER DICKSON, M.D., R.N.
J. NICHOLAS DICK, C.B., R.N., Director-General Navy Medical Department.
R. THORNE THORNE, M.B., F.R.C.P., F.R.S.
W. A. MACKINNON, C.B., Director-General Army Medical Department.
CHARLES A. GORDON, C.B., M.D., Q.H.P., Surgeon-General.

Treasurer.

R. D. B. SWEETING, 39, Addison Gardens, W.

General Secretaries.

LOUIS C. PARKES, M.D., 61, Cadogan Square, S.W.
E. O. HOPWOOD, M.D., London Fever Hospital, N.

Secretaries for Navy.

WALTER DICKSON, M.D., R.N., Medical Officer to the Hon. Board of Customs, Custom House, E.C.
A. TURNBULL, M.D., Deputy Inspector-General R.N.

Secretary for Army.

ROBERT LAWSON, LL.D., Inspector-General of Hospitals (retired),

Foreign and Colonial Secretaries.

| | |
|--|-----------------------------|
| <i>France, Italy, and Spain</i> ... | B. A. WHITELEGGE, M.D. |
| <i>Germany and Russia</i> ... | ALEXANDER COLLIE, M.D. |
| <i>Sweden, Norway, and Denmark</i> ... | J. W. MOORE, M.D. |
| <i>Portugal and the Brazils</i> ... | J. J. L. DONNET, M.D., R.N. |
| <i>East Indies</i> ... | { JOHN MURRAY, M.D. |
| | { J. B. SCHUYEN. |
| <i>West Indies and South America</i> ... | G. C. HENDERSON, M.D. |
| <i>China and Australia</i> ... | WILLIAM SQUIRE, M.D. |
| <i>Indian Ocean and East Africa</i> ... | J. CHRISTIE, M.D. |
| <i>North America</i> ... | JOSEPH EWART, M.D. |
| <i>Polynesia</i> ... | BOLTON G. CORNEY. |

Other Members of Council.

| | |
|--|----------------------------------|
| J. WORTLEY AXE, F.R.C.V.S. | JOHN MACCOMBIE, M.D. |
| W. H. CORFIELD, M.D. (S. 1871-2.) | Sir W. MOORE, M.D., K.C.I.E. |
| Surg.-Gen. W. R. CORMISH, C.I.E. | SHIRLEY F. MURPHY. (S. 1877-89.) |
| ROBERT CORY, M.D. | Surg.-Major B. PRINGLE, M.D. |
| Sir W. GUYER HUNTER, K.C.M.G., M.D., M.P. | E. C. SEATON, M.D. |
| G. B. LONGSTAFF, M.B. | MICHAEL TAYLOR, M.D. |
| | HERMANN WEBER, M.D. |
| | C. E. PAGET. (S. 1883-90.) |

LIST OF MEMBERS.*

(p) *President*; (t) *Treasurer*; (s) *Secretary*.

HONORARY MEMBERS.

- Elected.*
1888. Abbate Pacha, Cairo.
1867. Acland, Sir Henry W., K.C.B., M.D., F.R.S., Oxford.
1888. Amado, J. J. da Silca, M.D., Lisbon.
1888. Bacelli, Guido, M.D., Rome.
1888. Billings, J. S., M.D., War Dept. Surg.-Gen.'s Office, Washington.
1888. Brouardel, S., M.D., 195, Boulevard St. Germain, Paris.
1888. Carsten, B., M.D., The Hague.
1888. Colin, Léon, M.D., 17, Boulevard St. Germain, Paris.
1868. Guipon, D. J., M.D., Laon Aisne, France.
- c. 1888. Hirsch, A., M.D., 113, Potsdamer Strasse, Villa 2, Berlin.
1885. Humphreys, Noel, General Register Office, Somerset House, W.C.
1888. Hunt, Ezra M., M.D., Trenton, New Jersey, U.S.A.
1888. Koch, R., M.D., 36, Klosterstrasse, Berlin.
1888. Larrey, F. H., M.D., 91, Rue de Lille, Paris.
- c. 1868. MacLaurin, H. A., M.D., Macquarie Street, Sydney, N.S.W.
1888. Meijer, van Overbeck de, M.D., Utrecht.
- c. 1888. Moleschott, J., M.D., Rome.
1888. Pettenkofer, Max von, M.D., Munich.
1888. Proust, A., M.D., 9, Boulevard Malesherbes, Paris.
1852. Richardson, B. W., M.D., F.R.S., 25, Manchester Square, W.
1860. Simon, Sir John, K.C.B., D.C.L., F.R.S., 40, Kensington Square, W.
- c. 1883. Sossino, Prospero, M.D., 11, Via San Lorenzo, Pisa.

* Members are requested to inform the Secretaries of any corrections when necessary.

Elected.

1863. Stark, J., M.D., Bridge of Allan, Stirlingshire, N.B.
 1888. Sternberg, Geo. M., M.D., Johns Hopkins University, Baltimore, U.S.A.
 1888. Stokvis, B. J., M.D., 26, Sarphatstraat, Amsterdam.
 1889. Tholozan, J. Désiré, M.D., Teheran, Phys. to H.M. the Shah.
 1888. Vallin, E., M.D., 5, Avenue de Messine, Paris.

ORDINARY MEMBERS.

1887. Abraham, P. S., M.D., 2, Henrietta Street, W.
 1878. Airy, Hubert, M.D., Local Government Board, Whitehall, S.W.
 1889. Aitkin, Sir William, M.D., F.R.S., Netley.
 1882. Armstrong, Henry E., Town Hall, Newcastle-on-Tyne.
 1888. Ashby, Alfred, M.B., Town Hall, Reading, Berks.
 1884. Atkinson, F. E., Whitefriars, Settle, Yorkshire.
 1881. Aze, J. Wortley, F.B.C.V.S., Veterinary College, Camden Town, N.W.
 1882. Barry, F. W., M.D., Local Government Board, Whitehall, S.W.
 1849. Beardmore, G. R., Upper Street, Islington, N.
 1889. Boobyer, Philip, M.B., Municipal Offices, Nottingham.
 1889. Brock, J. H. E., M.D., 115, Adelaide Road, Hampstead, N.W.
 1889. Bruce, David, M.B., Netley.
 1870. Buchanan, George, M.D., F.R.S., 24, Nottingham Place, W. (P. 1881-83. T. 1871-81.)
 1889. Bulstrode, H. T., M.B., South-Western District Hospital, Stockwell, S.W.
 1867. Butterfield, Harria, Sevenoaks, Kent.
 1888. Caiger, Frederick, M.D., South-Western District Hospital, Stockwell, S.W.
 1886. Cameron, James, M.D., Guildford House, Hendon, N.
 1868. Cock, Fred., M.D., 1, Porchester Houses, Porchester Square, W.
 1875. Collie, Alexander, M.D., Eastern District Hospital, Homerton, E.
 1887. Collins, G. W., 66, Adelaide Road, N.W.
 1889. Cooper, C. H., A.M.I.C.E., Local Board Offices, Wimbledon.
 1871. Corfield, W. H., M.D., 19, Savile Row, W. (S. 1871-72.)
 1865. Cornish, W. R., Surg.-Gen., C.I.E., 8, Crosswell Gardens, South Kensington, S.W.
 1888. Corrie, A. T., F.R.C.S., Staff-Surgeon, H.M.S. *Agamemnon*, Med. Station.
 1879. Cory, Robert, M.D., 73, Lambeth Palace Road, S.E.
 1863. Crawford, Sir Thomas, K.C.B., M.D., 5, St. John's Park, Blackheath. (P. 1889-90).
 1884. Cullimore, D. H., M.D., 27, Welbeck Street, W.
 1888. Dick, J. N., C.B., R.N., Director-General, Navy Medical Department, The Admiralty, Northumberland Avenue, S.W.
 1863. Dickson, Walter, M.D., R.N., Fairfield, Belvedere Road, Upper Norwood. (President 1885-87.)
 1886. Donovan, Justin F., M.D., R.N., Malta.
 1890. Drummond, E., M.D., 7, Bath Terrace, Blythe, Northumberland.
 1880. Duke, Theodore, M.D., 55, Nevern Square, S.W.
 1879. Ewart, Joseph, M.D., Dep. Surg.-Gen. Ind. Med. Dept. (retired), Montpelier Hall, Brighton.
 1875. Fayer, Sir Joseph, K.C.S.I., M.D., LL.D., F.R.S., Surg.-Gen. Ind. Med. Dept. (retired), 53, Wimpole Street, W. (P. 1879-81.)

Elected.

1890. Garrett, J. H., Lordship Terrace, Stoke Newington, N.
 1880. Gordon, C. A., C.B., M.D., Q.H.P., Surg.-Gen., 25, Westbourne Square, W.
 1889. Gruggen, W., Wandsworth Prison, S.W.
 1875. Hare, C. J., M.D., Berkeley House, 16, Manchester Square, W.
 1885. Harris, A. E., L.R.C.P., 14, The Avenue, Sunderland.
 1884. Harris, F. W. H. D., Station Hospital, Madras.
 1883. Hopwood, E. O., M.D., Hon. Secretary, London Fever Hospital, Islington, N.
 1880. Hunter, Sir W. Guyer, K.C.M.G., M.D., M.P., Surg.-Gen. Ind. Med. Dept., 21, Norfolk Crescent, W.
 1887. Hyslop, T. B., Bethlem Royal Hospital, S.E.
 1887. James, C. A., 24, Cazenove Road, Stoke Newington, N.
 1883. James, A. W., 24, Cazenove Road, Stamford Hill, W.
 1863. Jenner, Sir William, Bart., K.C.B., M.D., F.R.S. (P. 1866-68.)
 1890. Lang, W. Scott, M.D., F.R.C.S., 1, Leopold Place, Edinburgh.
 1889. Lawless, E. J., M.D., Victoria Dock Dispensary, R.
 1863. Lawson, Robert, Inspector-Gen., 20, Lansdowne Road, Notting Hill, W. (P. 1871-73.)
 1884. Ligertwood, Thomas, M.D., Dep. Surg.-Gen., Royal Hospital, Chelsea, S.W.
 1880. Longstaff, G. B., M.B., Highlands, Putney Heath, S.W.
 1887. Low, R. Bruce, M.D., Local Government Board, Whitehall, S.W.
 1882. Manifold, M. F., Surg.-Gen., Twyford Lodge, 215, Upper Richmond Road, Putney, S.W.
 1885. Martin, Sydney, M.D., 10, Mansfield Street, W.
 1890. Mason, J. Wright, M.B., Town Hall, Hull
 1878. MacCumbie, John, M.D., South-Eastern District Hospital, Deptford, S.E.
 1880. McKellar, A. Oberlin, 22, George Street, Hanover Square, W.
 1890. M'Neill, Roger, M.D., Gests Hospital, Edinbane, Skye.
 1885. Moir, John, Hack Road, Victoria Docks, E.
 Moore, Sir W. J., M.D., K.C.I.E., 15, Portland Place, W.
 1889. Morris, W. A., Sherwood House, Watford.
 1872. Murray, John, M.D., Surg.-Gen. Ind. Med. Dept. (retired), 17, Westbourne Square, W. (P. 1877-79.)
 1875. Murphy, Shirley Forster, 41, Queen Anne Street, Cavendish Square, W. (S. 1877-89.)
 1889. Niven, James, M.D., Sanitary Office, Oldham.
 1889. Notter, J. Lane, M.B., Prof. of Military Hygiene, Netley.
 1883. Paget, Charles E., Town Hall, Salford. (S. 1883-1890.)
 1858. Paine, H. J., M.D., Elmsfield, Newport Road, Cardiff, South Wales.
 1884. Parkes, Louis, M.D., Hon. Secretary, 61, Cadogan Square, S.W. (S. from 1889.)
 1883. Parsons, H. Franklin, M.D., Local Government Board, Whitehall, S.W.
 1880. Payne, J. F., M.D., 78, Wimpole Street, W.
 1887. Penny, J. C., M.D., Dep. Insp.-Gen., Glen Cairn, Kew Gardens.
 1889. Preston, Theodore J., Staff Surg. R.N., Avenue House, Northumberland Avenue, W.C.
 1884. Pringle, R., Surg.-Major, M.D., 4, Granville Park, Blackheath, S.E.
 1885. Redmayne, Hugh, Ambleside, Westmorland.
 1875. Reynolds, J. Russell, M.D., F.R.S., 38, Grosvenor Street, W.
 1889. Roberts, Arthur, M.D., 85, Shipton Road, Keighley, Yorks.