# THE TRANSACTIONS OF THE EDINBURGH OBSTETRICAL SOCIETY. VOL. XXIX. SESSION 1903-1904

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# **EDINBURGH OBSTETRICAL SOCIETY**

# THE TRANSACTIONS OF THE EDINBURGH OBSTETRICAL SOCIETY. VOL. XXIX. SESSION 1903-1904



# THE TRANSACTIONS

OF THE

# EDINBURGH OBSTETRICAL SOCIETY.

VOL. XXIX.

SESSION 1903-1904.

EDINBURGH: OLIVER AND BOYD PUBLISHERS TO THE SOCIETY 1904.



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## PREFACE.

This, the twenty-ninth volume of the Society's Transactions, contains a record of its proceedings during the Session 1903-1904.

In it, as in former volumes, the views brought forward in the Papers are to be considered as those of the writers themselves, and not as those of the Society as a body.

THE EDITOR.

October 1904.

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1897 1901 1882 1886 1891 1901 1898 1898	Cattle, Cc Bantock, Dr Upper H. don, N. W Bsr, Prof. P. Bottle, P. Barucs, Dr Eastbours Bozensan, D. Avenne, Sudin, Prof., 54, Pavis. Chrobak, Prof. Chrobak, Prof. Cullingworth D.C. L., t London, Doyen, C., Paris.	be, M. b. Dubl Georg amiltor f. sul. M. ris. Robert le, r Nath New Y. Rue 4 fessor I enry C. th St., Char 4 Man W. M.D.,	D., Moukstown in. To Granville, 14 Torrace, Lon- D., 122 Rue la E., Bernersmede, han, 296 Fifth ork. to la Faisanderic E., University of M.D., 27 East New York. clus J., M.D., chustor Square, Rue Piccini 6,	1892 1898 1892 1898 1895 1903 1892 1859 1901	Hagar, P. Univer Kelly, P. Johns nore, Koeberle, Leopold, Strass Martin, wald. Morisuni, a. Plaz Miller, Switze Olshause Artille Ott, Profe fessor of St I. Pasquali, Vittor Rome,	rofessor, rofessor, rofessor, rofessor	burg. ard A., M.D. Hospital, Balti be, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Petar, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- rics, University r Ercole, Corse manuele 305
1897 1901 1882 1886 1891 1901 1898 1898	Cattle, Cc Bantock, Dr Upper Hi don, N. W Bar, Prof. Pl Boëtie, Pl Barnes, Dr Eastbourr Bozeman, D Avenne, Badin, Prof., 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D. C. L., t London, Doyen, C., Paris. Emmet, Dr,	bs, M. Dubl Georg amiltor  Sul. M. Sul. M. Sul. M. New Y. Rue 1 feasor I feasor I cnry C. th St., Char Man W. M. D.  93 Ms	D., Moukstown in.  p. Granville, 14  i Terrace, Lon-  D., 122 Rue la  t, Bernersmede,  nan, 296 Fifth  ork.  e la Faisanderie  R., University of  M.D., 27 East  New York.  cles J., M.D.,  chastor Sunare	1892 1898 1892 1898 1895 1903 1892 1859 1901	Hagar, P Univer Kelly, P Johns niore, Koeberle, Leopold, Wald. Morisuni, a Plaz Miller, Switze Olshausen Artille Ott, Profe fessor of St I Pasquali, Vittor Rome, Pestalozze	rolessor, rolessor, rolessor, rolessor, rolessor, rolessor rolesso	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina dem. A., N. Greifs O., San Felice 10, Naples. Peter, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro rics, University
1897 1901 1882 1886 1891 1901 1898 1898 1898	Cattle, Ce Bantock, Dr Upper H. don, N. W Bar, Prof. P. Bruces, Dr Eastboure Bozensan, D. Avenus, Se Budin, Prof. 54, Pavis. Chrobak, Prof. Vienna. Coe, Prof. He Sixty-four Cullingword, C. Doyen, C., Paris. Emmet, Dr. New Yorl	be, M. Dubl Georg sandtor  Sul. M. Sull M. Sul	D., Moukstown in. general formal form	1892 1898 1892 1898 1895 1903 1892 1859 1901 1899	Hagar, P. Unive Kelly, P. Johns more, Koeberle, Leopold, Strass Martin, wald. Morisuni, a Piaz Miller, Switze Olshansen of St I. Pasquali, Vittor Rome, Pestalozza Floreu	rofessor, rofessor, rofessor, Freiro, Freiro, Freiro, How Hopkina U.S.A. Dr Euger Prof. G., a 25, Dres Professor Za Dante ; Professor Professor Drand. , Professor Drand. Go Obstet Petersburg Professor Drand. , Professor Drand. , Professor Drand. , Professor Drand. Gest Professor Drand. Gest Professor Drand. , Professor Drand. , Professor Drand. , Professor Gest Professor Gest Professor Gest Drand Brofessor Gest Drand Brofesso	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Peter, Berne r, Frauenklinik a 13, Berlin. ron, M.D., Pro rics, University r Ercole, Corse manuele 305, r, Via Alfani 60,
1897 1901 1882 1886 1891 1901 1898 1898 1898	Cattle, Ce Bantock, Dr Upper H. don, N. W Bsr, Prof. P. Bottle, P. Barucs, Dr Eastboure Bozensan, D. Avenne, St. St., Paris. Chrobak, Prof., St., Paris. Coe, Prof. He Sixty-four Cullingworth D.C. L., t London, Doyen, C., Paris. Emmet, Dr. New Yorl Fehling, Pro	bs, M. Doble George amilton for the control of the	D., Moukstown in. To Granville, 14 in Terrace, London, 122 Rue la E., Berneramede, han, 296 Fifth ork. The Essanderie E., University of M.D., 27 East New York. Cles J., M.D., chestor Square, Bue Piceini 6, idison Avenue, Herman, M.D.,	1892 1898 1892 1898 1895 1903 1892 1859 1901 1899	Hagar, P. Univer Kelly, P. Johns nore, Koeberle, Leopold, Strass Martin, a. Piaz Miller, Switze Olshauseu Artille Ott, Froef fessor of St I Pasquali, Yittor Rome, Pestalozza Floreu Pinand, P.	rofessor, rosity, Frei rosity,	burg. ard A., M.D. Hospital, Balti be, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Petar, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- rics, University r Ercole, Corse manuele 305
1897 1901 1882 1886 1891 1901 1898 1898 1898	Cattle, Cc Bantock, Dr Upper Hi don, N. W Bar, Prof. Pl Boëtie, Pl Barnes, Dr Eastbourr Bozeman, D Bodin, Prof., 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D.C.L., t London, Doyen, C., Paris. Emmet, Dr, New Yorl Fehling, Pro Kaiser W	be, M. D. Dubl Georg amiltor J. Sul. M. Aris. Robert ne. r Nati New Y. Rue 1 fessor I enry C. th St., Char W. M. D.  93 Ms J. Fessor Vilhelm	D., Moukstown in. general formal form	1892 1898 1892 1895 1903 1892 1889 1901 1899 1902	Hagar, P Univer Kelly, P Johns Koeberle, Leopold, Strass Martin, I Wald. Morismi, a Piaz Miller, Switze Olshausen Artille Ott, Profe fessor of St I Pasquali, Vittor Rome, Pestalozza Floren Pinard, P.	rofessor, rofessor, rostry, Frei rot, Frei rot, Frei rot, Frei Roy, Frei Roy, Frei Roy, Roy, Roy, Roy, Roy, Roy, Roy, Roy,	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina den. A., N. Greifs O., San Felice 10, Naples. Peter, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- rics, University r r Ercole, Corse manuele 305, r, Via Alfani 60, ., 10 Rue Cam-
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898	Gathe, Ce Bantock, Dr Upper H, don, N, W Bar, Prof. P. Boute, P. Barues, Dr Eastboure Bozeman, D. Avenus, S. Budin, Prof., 54, Pavis. Chrobak, Prof. He Sixty-fout Cullingword D.C.L., 1 London, J. London, J. London, C., Paris. Emmet, Dr. Kew Yorl Fehling, Pro Kaiser W Strassburg	be, M.  Deblie George  L.  L.  L.  L.  L.  L.  L.  L.  L.  L	D., Moukstown in. general control of the following the fol	1892 1898 1892 1895 1903 1892 1889 1901 1899 1902	Hagar, P. Unive Kelly, P. Johns more, Koeberle, Leopold, Strass Martin, a Piaz Miller, Switze Olshauseur of St I. Pasquali, Vittor Rome, Pestalazza Floren Pinard, P. bacere Pozzi Pre-	rofessor, rofessor, rofessor, Freiro, Freiro, Freiro, How Hopkina U.S.A. Dr Euger Prof. G., a 25, Dres Professor Dr. Trofessor Professor Dr. Trofessor Dr. T	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Peter, Berne r, Frauenklinik a 13, Berlin. ron, M.D., Pro rics, University r Ercole, Corse manuele 305, r, Via Alfani 60,
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898	Cattle, Cc Bantock, Dr Upper Hi don, N. W Bar, Prof. Pl Boëtie, Pl Barues, Dr Eastbourr Bozeman, D Bodin, Prof., 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D.C.L., t London, Doyen, C., Paris. Emmet, Dr, New Yorl Fahling, Pro Kaiser W Strassburg Fraund. Em	be, M. Duhlin, Duhlin, George amiltor George amiltor George Robert Re. T Natt New Y Rue 1 Fessor I Fry G. M. M. D.  93 Ms C. George Geo	D., Moukstown in. re Granville, 14 in Terrace, London, 222 Rue la comment, 296 Fifth ork. R., University of New York. Cles J., M.D., chester Square, Rue Piccini 6, idison Avenue, Herman, M.D., 18 University. Professor. W.	1892 1898 1892 1893 1893 1893 1899 1901 1899 1892 1898	Hagar, P. Univer Kelly, P. Johns nore, Koeberle, Leopold, Strass Martin, unid. Morisuni, unid. Morisuni, unid. Morisuni, unider Artille Ott, Profe fessor of St I. Pasquali, Vittor Rome, Festalozza Floren Pinard, P. baserre Pozzi Pro	rofessor, rosity, Frei rose, Frei rose, Frei Royal Roy	burg. ard. A., M.D. Hospital, Balti be, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Petar, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- ric, Cuniversity r Ercole, Corse manuele 305, r, Via Alfani 60, ., 10 Rue Cam. M.D., Hôpita
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898 1898	Castle, Ce Bantock, Dr Upper H. don, N. W Bar, Prof. Pl Boëtie, Pl Barnes, Dr Eastbourr Bozeman, D Avenne, Sadin, Prof., 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D.C.L., 1 London, 7 Paris. Emmet, Dr, New Yorl Fehling, Prof. Kaizer V Strassbur, Freund, Em Kleiststra	be, M. Dublin,	D., Moukstown in. re Granville, 14 in Terrace, 10a. D., 122 Rue la it, Bernersmede, han, 296 Fifth ork.  R., University of M. D., 27 F. Sactor Square, Rue Piccini 6, adison Avenue, Herman, M.D., 1's University.  Professor, W. Berlin.	1892 1898 1892 1893 1893 1893 1899 1901 1899 1892 1898	Hagar, P Univer Kelly, P Johns Koeberle, Leopold, Strass Martin, J Wald. Morisuni, a Piaz Miller, Switze Olshausen Artille Ott, Profe fessor Pasquali, Vittor Rome, Pestalozza Floren Pinard, P. bacérie Pozzi Pre-	rofessor, rofessor, rofessor, Frei rofe, Frei Roy, Frei rofessor Professor Dantel Professor Andrews of Obstet reteraburg Professor Andrews of Professor Andrews of Professor Andrews of Professor Andrews of Roy	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina den. A., N. Greifs O., San Felice 10, Naples. Peter, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- rics, University r r Ercole, Corse manuele 305, r, Via Alfani 60, ., 10 Rue Cam-
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898 1898	Gathe, Ce Bantock, Dr Upper H, don, N, W Bar, Prof. P. Boëtie, P. Barues, Dr Eastboure Bozeman, D. Avenna, Bodin, Prof., 54, Paris. Chrobak, Prof. He Sixty-four Cullingworth D.C.L., 1 London, Doyen, C., Paris. Emmet, Dr, New Yorl Fahing, Pro Kaiser V Strasslurg Freund, Em Kleistatra Fritsch, Prof.	be, M. Dublin,	D., Moukstown in. re Granville, 14 in Terrace, London, 222 Rue la comment, 296 Fifth ork. R., University of New York. Cles J., M.D., chester Square, Rue Piccini 6, idison Avenue, Herman, M.D., 18 University. Professor. W.	1892 1898 1892 1898 1895 1993 1899 1901 1899 1902 1895 1898	Hagar, P. Univer Kelly, P. Johns more, Koeberlé, Leopold, Strass Martin, a Piaz Miller, Switze Olshauseu Artille Ott, Profe fessor of St I Pasquali, Vittor Rome, Pestalozze Floreu Pinard, P. bapérie Pozzi Prof. Hroca, Schauta, Vienna	rofessor, rofessor, rofessor, rofessor, rofessor, rofessor rofesso	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina dem. A., N. Greifs O., San Felic 10, Naples. Peter, Berne r, Frauenklinik a 13, Berlin. ron, M.D., Pro- rics, Universit r Ercole, Corss manuele 305, r, Via Alfani 60, ., 10 Rue Cam M.D., Hôpita Kochgasse 16,
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898 1898 1882 1900	Cattle, Cc Bantock, Dr Upper Hi don, N. W Bar, Prof. Pl Boëtie, Pl Barues, Dr Eastbourr Bozeman, D Bodin, Prof., 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D.C.L., 1 London, Doyen, C., Paris. Emmet, Dr, New Yorl Fehling, Pro Kaiser W Strassburg Freund, Em Kleistava Fritsch, Pro Bonn.	be, M. Dehlibe, M. Obellibe George Antitor  Color of the	D., Moukstown in. re Granville, 14 a Terrace, 10n- D., 122 Rue la r. Bernersmede, 14 ann. 296 Fifth ork. le la Faisanderie R., University of New York. Cles J., M.D., chester Square, Rue Piccini 6, idison Avenue, Herman, M.D., le University, Professor, W. Berlin.	1892 1898 1892 1898 1895 1993 1899 1901 1899 1902 1895 1898	Hegar, P. Unive Kelly, P. Johns nore, Koeberle, Leopold, Strass Martin, a Plaz Miller, Switze Olshausen Artille Ott, Frofe fessor of St I Pasquali, Victor Rome, Pestalozza Floren Plozzi Pre Hroea, Schauta, Vienns Schultze, Schauta,	rofessor, rofessor, rofessor, rofessor, rofessor, rofessor rofesso	burg. ard. A., M.D. Hospital, Balti be, Strassburg. M.D., Semina den. A., N. Greifs O., San Felic 10, Naples. Petar, Berne r, Frauenklinik a 18, Berlin. ron, M.D., Pro- ric, Cuniversity r Ercole, Corse manuele 305, r, Via Alfani 60, ., 10 Rue Cam. M.D., Hôpita
1897 1901 1882 1886 1891 1901 1898 1898 1898 1898 1898 1882 1900	Cattle, Ce Bantock, Dr Upper H. don, N. W Bar, Prof. Pl Boëtie, Pl Barnes, Dr Eastbourr Bozeman, D Avenne, 54, Paris. Chrobak, Pro Vienna. Coe, Prof. He Sixty-four Cullingworth D.C.L., 1 London, 7 Paris. Emmet, Dr, New Yorl Fehling, Prof. Kaizer V Strassbur, Freund, Em Kleiststra Fritsch, Pro Bonn. Garrigues, P	be, M. Dehill George George amiltor C. Sacul M. Maria Hohert Rohert F. Nath New Y. Gessor Ges	D., Moukstown in. re Granville, 14 in Terrace, 10a. D., 122 Rue la it, Bernersmede, han, 296 Fifth ork.  R., University of M. D., 27 F. Sactor Square, Rue Piccini 6, adison Avenue, Herman, M.D., 1's University.  Professor, W. Berlin.	1892 1898 1892 1898 1893 1993 1899 1901 1899 1902 1895 1898 1903 1898	Hagar, P Univer Kelly, P Johns more, Koeberle, Leopold, Strass Martin, Wald. Morisuni, a Piaz Miller, Switze Olshauseu Artille Ott, Frofe fessor of St I Pasquali, Vittor Rome, Pestalozza Floren Pinand, P. bacerie Pozzi Pro Broca, Schutza, Vienna Schutze, I Jona.	rofessor, rofessor, rofessor, Frei rofessor, Frei rofessor Professor As,	burg. ard A., M.D. Hospital, Balti ne, Strassburg. M.D., Semina dem. A., N. Greifs O., San Felic 10, Naples. Peter, Berne r, Frauenklinik a 13, Berlin. ron, M.D., Pro- rics, Universit r Ercole, Corss manuele 305, r, Via Alfani 60, ., 10 Rue Cam M.D., Hôpita Kochgasse 16,

1901 Sneguireff, Professor W., University 1897 Williams, Sir John, Bart., M.D., of Moscow. LL.D., Plas Llanstephan, Carof Moscow.

1882 Tibone, Professor, Turin.
1876 Turner, Principal Sir W., K.C.B., Li.D., D.C.L., 6 Eton Terrace, milian's University, Munich. Edinburgh.

marthenshire.

### CORRESPONDING FELLOWS.

1884 Arnott, Brig. Surg.-Liout.-Col. Jas., 1871 Lambert, Dr., Paris.
8 Rothesay Place. 1887 Limont, Dr. J., Newcastle-on-Tyne.
1886 Lord, Dr. Richard, London.

1867 Baumgartner, Dr H. S., Newcastle-on-Tyne. 1892 Beilby, Dr J. H., Bromsgrove. 1863 Belgrave, Dr, Sydney. 1888 Bentley, Dr Arthur J., Cairo. 1880 Bosch, Dr Van Den, Liège. 1880 Brock, Dr W J., Edinburgh. 1863 Brown, Dr R. C., Preston.

1887 Chepmell, Dr C. W. J., London. 1894 Curatule, Prof. G. E., Rome.

1869 Davies, Mr Thos., Whittleses. 1873 Donovan, Mr W., Birmingham.

1877 Engelmann, Dr G., Kreuznach. 1896 Kyres, Hugh, Richmond.

1864 Finlay, Sir R. B., M.D., LL.D., K.C., M.P., London.
 1888 Fraser, Dr Dyce, London.
 1892 Fraser, Dr Hugh E., Dundee.

1879 Glaister, Prof., Glasgow. 1877 Grassett, Dr F., Toronto. 1868 Grenser, Dr Paul W. T., Dresden.

1864 Grévé, Dr. Norway. 1875 Groesbeck, Dr. Hermann J., New York.

1897 Günsberg, Charkow, Russia.

1853 Hall, Dr D., Montreal.

1803 Hall, Ir Jr., Montreal.
1870 Haynes, Dr Stanley L., Malvern.
1880 Helme, Dr J. M., Carnforth.
1885 Helme, Dr T. A., Manchester.
1865 Henderson, Dr E., Chine.
1883 Howard-Jones, Dr J., Newport.
1887 Hume, Dr T., Surgeon-Major, India.
1882 Husband, Dr H. Aubrey, Manitoba.
1882 Husband, Dr H. Aubrey, Manitoba.

1893 Hutchison, Dr Robert, London.

1894 Jennings, Dr David D., New York. 1871 Johnston, Dr A. C., R.N., Ediaburgh.

1882 Johnston, Sur.-Maj. Wilson, India.

1845 Keith, Dr George S., Currie. 1867 Kingston, Dr, Montreal. 1874 Kleinwächter, Prof. L., Grätz.

1859 Macdonald, Dr F. R., Inversray.
1878 Macdougall, Dr John A., Cannes.
1879 Machattie, Dr Thomas A., Australia.

1862 Mackay, Dr M. A., Canada. 1870 M'Kendrick, Prof., Glasgow. 1869 M'Millan, Dr T. L., Australia. 1879 Marshall, Dr Thomas, London. 1866 Martin, Dr Karl, Berlin.

1860 Milburn, Dr George, London.
1833 Mille, Dr B. Langley, India.
1897 Minchin, Dr, Charkow, Russia.
1861 Mitchell, Sir Arthur, LL.D., Edin-

burgh.

1877 Moolman, Dr Henry, South Africa. 1869 Mossop, Mr Isaac, Bradford. 1859 Myrtle, Dr A. S., Harrogate.

1884 Neve, Dr E. F., Kashmir. 1849 Norrie, Mr H., Petherton.

1857 Parker, Dr. Nova Scotia. 1869 Paton, Dr J. W., Wansford. 1840 Peddie, Dr Alexander, Edinburgh,

1885 Puckle, Dr S. Hale, Bishop's Castle,

1880 Reid, Or James More, Aldershot.

1878 Serdukoff, Dr A., St Petersburg. 1887 Shiels, Dr G. F., San Francisco. 1866 Skinner, Dr T., London. 1870 Smith, Dr D., Montrose. 1890 Smith, Dr William, America. 1861 Stephenson, Prof. W., Aberdeen. 1888 Stevenson, Mr E. Sinclair, Cape of Graph Hone. Good Hope.

1864 Storer, Dr H., Boston, U.S.A. 1875 Sutugin, Dr V., St Petersburg.

1884 Thom, Dr Alexander. 1867 Thomson, Mr W., Wrenbury. 1880 Turner, Dr William, Gibraltar.

1861 Veale, Dr H. R. L., London.

1864 Whiteford, Dr James, Greenock. 1886 Whitton, Dr A. B., Aberchirder. 1865 Wollowicz, Dr C., St Peters-

burg.