



VOL. XXVIII.—1913.

THE  
JOURNAL OF LARYNGOLOGY,  
RHINOLOGY, & OTOLOGY;

A RECORD OF CURRENT LITERATURE

RELATING TO

THE THROAT, NOSE, AND EAR.

---

PUBLISHED MONTHLY.

---

London:

ADLARD AND SON, BARTHOLOMEW PRESS  
BARTHOLOMEW CLOSE, E.C.

---

ENTERED AT STATIONERS' HALL.



# THE JOURNAL OF LARYNGOLOGY RHINOLOGY, AND OTOTOLOGY.

Founded in 1887 by **MORELL MACKENZIE** and **NORRIS WOLFENDEN**.

## EDITORIAL COMMITTEE :

H. CHEATLE, F.R.C.S. ( <i>Pres. Otol. Sect. Internat. Cong.</i> ).	D. R. PATERSON, M.D., M.R.C.P. ( <i>Pres. Laryng. Sect. R.S.M.</i> ).
ANDAS GRANT, M.A., M.D., F.R.C.S. ( <i>London</i> ).	SIR STCLAIR THOMSON, M.D., F.R.C.S. ( <i>London</i> ) ( <i>Pres. Laryng. Sect. Internat. Cong.</i> ).
CHARD LAKE, F.R.C.S. ( <i>Pres. Otol. Sect. R.S.M.</i> ).	LOGAN TURNER, M.D. ( <i>Edinburgh</i> ).
MACINTYRE, M.B., C.M., ( <i>Glasgow</i> ).	P. WATSON-WILLIAMS, M.D. ( <i>Bristol</i> ).
MILLIGAN, M.D., M.Ch. ( <i>Manchester</i> ).	MACLEOD YEARSLEY, F.R.C.S. ( <i>London</i> ).

## EDITOR :

DAN MCKENZIE, M.D., F.R.C.S.E. (*London*).

## WITH THE CO-OPERATION OF THE STAFF OF ABSTRACTORS :

DRS. J. STODDART BARR (*Glasgow*), H. S. BIRKETT (*Montreal*), BRADY (*Sydney, N.S.W.*), JOHN DARLING (*Edinburgh*), DONELAN (*London*), CLAYTON FOX (*London*),  
J. S. FRASER (*Edinburgh*), PERRY GOLDSMITH (*Toronto*),  
THOS. GUTHRIE (*Liverpool*), A. HUTCHISON (*Brighton*), J. D. LITHGOW (*Edinburgh*),  
A. MCCALL (*Bournemouth*), CHICHELE NOURSE (*London*), W. G. PORTER (*Edinburgh*),  
PRICE-BROWN (*Toronto*), KNOWLES RENSHAW (*Manchester*),  
LINDLEY SEWELL (*Manchester*), ALEX. R. TWEEDIE (*Nottingham*),  
RAYMOND VEREL (*Aberdeen*), C. E. WEST (*London*), G. HAROLD L. WHALE  
(*London*), WRIGHT (*Bristol*), and WYLIE (*London*).

## AND THE ASSISTANCE OF

MR. GEORGE BADGEROW (*London*), DR. J. BARR (*Glasgow*), HUGO FREY (*Vienna*),  
A. A. GRAY, (*Glasgow*), GRAZZI (*Florence*), MIDDLEMASS HUNT (*Liverpool*),  
A. BROWN KELLY (*Glasgow*), E. LAW (*London*), MASSEI (*Naples*),  
D. PATERSON (*Cardiff*), URBAN PRITCHARD (*London*), F. A. ROSE (*London*),  
A. SANDFORD (*Cork*), SENDZIAK (*Warsaw*), H. TILLEY (*London*),  
E. WAGGETT (*London*), R. WOODS (*Dublin*).

## LIST OF PLATES.

	TO FACE PAGE
COLOURED PLATE TO ILLUSTRATE DR. T. W. E. ROSS'S ARTICLE ON THE NERVE SUPPLY OF THE INFERIOR TURBINAL	57
COLOURED PLATE OF NERVE-ENDINGS IN INFERIOR TURBINAL	66
MORELL MACKENZIE	393
GARCIA; LENNOX BROWNE	395
SIR GEO. JOHNSON; SIR FELIX SEMON; DR. F. DE HAVILLAND HALL; DR. T. J. WALKER	396
WILDE; HINTON; TOYNBEE	399
JAMES YEARSLEY	400
SIR WILLIAM DALBY; DR. PRITCHARD; DR. LAIDLAW PURVIS	400

## ILLUSTRATIONS IN TEXT.

	PAGE
SEROUS OTITIC MENINGITIS. E. MALCOLM STOCKDALE.	
CEREBELLAR HERNIA	3
PATIENT AFTER EXCISION OF HERNIA	4
DIFFUSE OSTEOMYELITIS. DAN MCKENZIE.	
SECTIONS THROUGH FRONTAL SINUS	12
DIFFUSE OSTEOMYELITIS OF FRONTAL BONE	16
NERVE SUPPLY OF INFERIOR TURBINAL. T. W. E. ROSS.	
SECTION OF TURBINAL SHOWING NERVE-TRUNK	58
SECTION SHOWING NERVE-FIBRES	59
SECTION SHOWING SUPERFICIAL NERVE-FIBRES	60
SECTION SHOWING BRANCHING NERVE-FIBRES	61
SECTION SHOWING NERVE-FIBRILS	62
SECTION SHOWING FIBRES FORMING A PLEXUS	63
SECTION SHOWING NERVE-FIBRILS TO CAPILLARY	64
SECTION SHOWING WIDE-MESHED PLEXUS OF NERVE- FIBRILS	65
SECTION SHOWING MEDULLATED AND NON-MEDULLATED FIBRES	66
SECTION SHOWING FIBRILS TO CAPILLARIES	67
ILLUSTRATIONS OF MR. HUGH E. JONES'S PERIOSTEO-MEATAL FLAP	90, 91
STEREOSCOPIC PHOTOGRAPH OF DR. WALKER DOWNIE'S CASE OF OSTEOMYELITIS	132
ILLUSTRATION OF MR. J. H. GIBBS'S ARTICLE: SOME DENTAL ASPECTS OF RHINOLOGY	143

	PAGE
CHONDRO-SARCOMA OF NOSE. MR. H. TILLEY . . . . .	200
WIRE SKEWER IN RIGHT SECONDARY BRONCHUS. DR. H. J. DAVIS . . . . .	203
PATIENT AFTER DR. WATSON-WILLIAMS'S DOUBLE RADICAL FRONTAL SINUS OPERATION . . . . .	261
MALIGNANT DISEASE OF THE ŒSOPHAGUS. DR. A. LOGAN TURNER.	
SQUAMOUS EPITHELIOMA OF ŒSOPHAGUS AND HYPO- PHARYNX . . . . .	296
SQUAMOUS EPITHELIOMA OF UPPER END OF ŒSOPHAGUS . . . . .	296
SQUAMOUS EPITHELIOMA OF MOUTH OF ŒSOPHAGUS . . . . .	299
RADIOGRAM FROM CASE OF EPITHELIOMA OF UPPER END OF ŒSOPHAGUS . . . . .	299
DIAGRAMS BY DR. WM. HILL OF OPERATIONS ON THE PITUITARY BODY.	
THE ENDO-NASAL OPERATION . . . . .	363
SUB-LABIAL INCISION IN THE ROUGE-HALSTED OPERATION . . . . .	364
ROUGE'S UPWARD DISPLACEMENT OF THE NOSE . . . . .	364
BRUNS' LATERAL OSTEOPLASTIC DISPLACEMENT OF THE NOSE . . . . .	365
PROUST'S ILLUSTRATIONS OF SCHLOFFER'S OPERATION . . . . .	365
VISUAL FIELDS IN CYST OF PITUITARY FOSSA. MR. C. I. GRAHAM . . . . .	370
THE SIGNIFICANCE OF THE TONSILS AND THE SUPRA-TONSILLAR FOSSA. DR. D. R. PATERSON.	
SCHEME OF TONSIL FORMATION . . . . .	455
SECTION OF WALL OF BRANCHIAL CYST, SHOWING LYMPHOID STRUCTURE . . . . .	457
SECTION OF SUPRA-TONSILLAR FOSSA TO SHOW SENILE CHANGE . . . . .	462
SECTION OF SUPRA-TONSILLAR FOSSA . . . . .	464
SAGITTAL SECTION OF UPPER PART OF TONSIL . . . . .	466
TRANSVERSE SECTION OF UPPER PART OF TONSIL . . . . .	467
TRANSVERSE SECTION THROUGH SUPRA-TONSILLAR FOSSA . . . . .	468
TRANSVERSE SECTION THROUGH SUPRA-TONSILLAR FOSSA . . . . .	469
TEMPERATURE CHART OF ERYSIPELAS FOLLOWING RADICAL MASTOID OPERATION. DR. J. S. FRASER . . . . .	474
TWO CASES OF SUB-GLOTTIC TUMOUR. SIR ROBERT H. WOODS.	
SKIAGRAM BEFORE OPERATION . . . . .	510
SKIAGRAM AFTER OPERATION . . . . .	511
GRANULOMA OF TRACHEAL WALL . . . . .	512
MALIGNANT TUMOUR OF TRACHEA . . . . .	513
MALIGNANT TUMOUR OF TRACHEA . . . . .	514
NASAL THERMOMETRY. DR. A. BROWN-KELLY.	
NASAL THERMOMETER . . . . .	516
CHART OF EXCURSUS OF TEMPERATURE OF AIR IN NORMAL NOSE . . . . .	518
CHART OF EXCURSUS IN NORMAL NOSE . . . . .	519
CHART OF EXCURSUS IN DEVIATION OF SEPTUM . . . . .	521
CHART OF EXCURSUS IN ENLARGEMENT OF RIGHT TURBINAL . . . . .	522
CHART OF EXCURSUS IN ATROPHIC RHINITIS . . . . .	523

	PAGE
EPITHELIOMA OF THE HELIX. DR. H. J. DAVIS.	
BEFORE OPERATION . . . . .	533
AFTER OPERATION . . . . .	533
PROMINENT AURICLES TREATED BY OPERATION. DRs. DUNDAS GRANT AND DAN MCKENZIE.	
BEFORE OPERATION . . . . .	530
AFTER OPERATION . . . . .	530
DIRECT EXAMINATION OF THE EUSTACHIAN TUBE AND NASO- PHARYNX. DR. J. WALKER WOOD.	
NORMAL EUSTACHIAN ORIFICE . . . . .	569
NORMAL EUSTACHIAN ORIFICE . . . . .	569
GRANULAR SALPINGITIS . . . . .	570
HYPERTROPHY OF LIP OF EUSTACHIAN ORIFICE . . . . .	570
ATROPHY AND HYPERTROPHY OF LIPS OF EUSTACHIAN ORIFICE . . . . .	570
ATROPHIC SALPINGITIS . . . . .	571
VARICOSE VEINS OF EUSTACHIAN ORIFICE . . . . .	571
BAND IN ROSENMÜLLER'S FOSSA . . . . .	571
MUCOUS POLYPUS IN MOUTH OF TUBE . . . . .	572
FIBROMA OF CUSHION . . . . .	572
POST-NASAL POLYPUS . . . . .	572
ADENOID REMAINS IN ROSENMÜLLER'S FOSSA . . . . .	573
BILOBED POSTERIOR LIP . . . . .	573
MULTIPLE BANDS ACROSS ROSENMULLER'S FOSSA . . . . .	573
POST-NASAL POLYPI . . . . .	574
HYPERTROPHY OF MUCOUS MEMBRANE OF VAULT, ETC. . . . .	574
ALUMINIUM PROTHESIS FOR THE LOWER JAW. DR. J. V. D. HOEVEN LEONHARD . . . . .	583
SKIAGRAM SHOWING PROTHESIS . . . . .	585
CEREBRO-SPINAL RHINORRHEA, ETC. DR. P. WATSON-WILLIAMS . . . . .	
PHOTOGRAPH OF PATIENT . . . . .	624
PHOTOGRAPH OF ANTERIOR CRANIAL FOSSA . . . . .	625
TOXIC EXHAUSTIVE INSANITY ASSOCIATED WITH CHRONIC SUPPURATIVE LABYRINTHITIS. DR. D. K. HENDERSON, DR. WINIFRED MUIRHEAD, AND DR. J. S. FRASER. FOUR PLATES SHOWING SECTIONS OF HEALTHY AND DISEASED EARS . . . . .	629-632

# THE JOURNAL OF LARYNGOLOGY, RHINOLOGY, AND OTOLOGY.

Founded in 1887 by **MORELL MACKENZIE** and **NORRIS WOLFENDEN**.

PUBLISHED UNDER THE DIRECTION OF THE EDITORIAL COMMITTEE:

**A. CHEATLE, F.R.C.S.** (Pres. Otol. Sect. Internat. Cong.).  
**DUNDAS GRANT, M.A., M.D., F.R.C.S.** (London). (Pres. Otol. Sect. R.S.M.).  
**W. MILLIGAN, M.D., M.Ch.** (Manchester).  
**J. MACINTYRE, M.B., C.M.** (Glasgow).  
**Sir StCLAIR THOMSON, M.D., F.R.C.S.** (London). (Pres. Laryng. Sect. Internat. Cong.).  
**H. TILLEY, F.R.C.S.** (Pres. Laryng. Sect. R.S.M.).  
**LOGAN TURNER, M.D.** (Edinburgh).  
**P. WATSON-WILLIAMS, M.D.** (Bristol).  
**MACLEOD YEARSLEY, F.R.C.S.** (London).

EDITOR:

**DAN MCKENZIE, M.D., F.R.C.S.E.** (London),  
*To whom all communications should be addressed.*

WITH THE CO-OPERATION OF THE STAFF OF ABSTRACTORS:

**DRS. J. STODDART BARR** (Glasgow), **H. S. BIRKETT** (Montreal), **BRADY** (Sydney, N.S.W.),  
**JOHN DARLING** (Edinburgh), **DONELAN** (London), **CLAYTON FOX** (London),  
**J. S. FRASER** (Edinburgh), **PERRY GOLDSMITH** (Toronto), **THOS. GUTHRIE** (Liverpool),  
**A. HUTCHISON** (Brighton), **J. D. LITHGOW** (Edinburgh), **A. MCCALL** (Bournemouth),  
**CHICHELE NOURSE** (London), **W. G. PORTER** (Edinburgh), **PRICE-BROWN** (Toronto),  
**KNOWLES RENSHAW** (Manchester), **LINDLEY SEWELL** (Manchester),  
**ALEX. R. TWEEDIE** (Nottingham), **C. E. WEST** (London), **WRIGHT** (Bristol),  
and **WYLIE** (London).

AND THE ASSISTANCE OF

**DRS. J. BARR** (Glasgow), **HUGO FREY** (Vienna), **A. A. GRAY** (Glasgow),  
**GRAZZI** (Florence), **MIDDLEMASS HUNT** (Liverpool), **A. BROWN KELLY** (Glasgow),  
**E. LAW** (London), **MASSEI** (Naples), **D. PATERSON** (Cardiff),  
**URBAN PRITCHARD** (London), **F. A. ROSE** (London), **A. SANDFORD** (Cork),  
**SENDZIAK** (Warsaw), **E. WAGGETT** (London), **R. WOODS** (Dublin).

## CONTRIBUTORS TO THIS NUMBER.

<b>MR. E. MALCOLM STOCKDALE.</b>	<b>MR. ALEX. R. TWEEDIE.</b>	<b>DR. KNOWLES RENSHAW.</b>
<b>DR. E. JUNCA.</b>	<b>MR. MACLEOD YEARSLEY.</b>	<b>MR. THOMAS GUTHRIE.</b>
<b>DEODATO DE CARLI.</b>	<b>DR. J. S. FRASER.</b>	<b>MR. J. B. HORGAN.</b>
	<b>DR. JAMES DONELAN.</b>	

---

## MEDICAL GRADUATES' COLLEGE AND POLYCLINIC,

**22, Chenies Street, Gower Street, London, W.C.**

HONORARY PRESIDENT:

**Sir JONATHAN HUTCHINSON, F.R.S., LL.D.**

PRESIDENT:

**THEODORE WILLIAMS, M.D., F.R.C.P., M.V.O.**

The teachers include members of the Staffs of the General and Special Hospitals and Medical Schools of the Metropolis and elsewhere.

The Demonstrations on Friday afternoons at 4 p.m. are devoted to Diseases of the Throat, Nose, Ear and Eye.

Annual Subscription, admitting to all Lectures and Demonstrations, One Guinea.

Special Practical Classes are conducted in Otology (Dr. DAN MCKENZIE), Laryngology (Mr. J. GAY FRENCH), and Rhinology (Mr. STUART-LOW), etc.

Pathological Investigations of all kinds are carried out in the Laboratory.

Further Particulars may be obtained from the Medical Superintendent,

**MAJOR VINT, M.B., 22, Chenies Street, Gower Street, London, W.C.**



# CONTENTS.

Special Articles—	PAGE
Some Observations on the Nerve Supply of the Inferior Turbinal as shown by Vital Staining.—T. W. E. ROSS ... ..	57
Report for the Year 1912 from the Ear and Throat Department of the Royal Infirmary, Edinburgh. Part I.—An Analysis of 76 Consecutive Operations on the Frontal, Maxillary, Ethmoidal and Sphenoidal Sinuses.—J. S. FRASER and RAYMOND VEREL ... ..	69
Diffuse Osteomyelitis from Nasal Sinus Suppuration—DAN MCKENZIE	79
<b>Societies' Proceedings—</b>	
BRITISH MEDICAL ASSOCIATION.—SECTION OF LARYNGOLOGY AND RHINOLOGY.—Communication by L. HAJEK ... ..	84
ROYAL SOCIETY OF MEDICINE.—OTOLOGICAL SECTION.—Communications by RICHARD LAKE, A. FERGUSON PENNY, HUGH E. JONES, C. ERNEST WEST, H. J. DAVIS, DAN MCKENZIE, H. A. KISCH, E. A. PETERS, R. S. COCKE, URBAN PRITCHARD ... ..	88
<b>Abstracts—</b>	
LARYNX.—The Clinical Aspect of Laryngeal Tuberculosis... ..	103
NOSE AND NASO-PHARYNX.—The Recurrence of Adenoids.—The Opening of the Cranial Cavity and Exposure of the Brain from the Accessory Sinuses of the Nose.—Report on Surgical Treatment of Frontal Sinus: a Critical Study of Post-operative Complications ... ..	105
EAR.—A New Mastoid Retractor.—On the Pathological and Clinical Aspect of Otogenous Aseptic Sinus Thrombosis.—Otogenic Pachymeningitis interna purulenta.—A New Method of Examination of the Labyrinth (Bárány's Pointing Test).—On Recent Traumatic Lesions of the Labyrinth.—The Vertigo of Vestibular Paralysis ...	106
PHARYNX.—Pharyngeal Suppuration: Course and Direction of Various Types.—Pulmonary Embolism as a Sequel of Diphtheria.—The Value of Temperature Readings in Administration of Diphtheria Antitoxin, and the Value of Large Antitoxin Dosages ... ..	110
<b>Reviews—</b>	
The Skiagraphy of the Accessory Nasal Sinuses.—A. LOGAN TURNER and W. G. PORTER ... ..	111
Pye's Surgical Handicraft: A Manual of Surgical Manipulations, Minor Surgery, and other matters connected with the Work of House Surgeons and Surgical Dressers.—W. H. CLAYTON-GREENE ... ..	111
<b>Correspondence</b> ... ..	112
<b>Book Received</b> ... ..	112

## GUIDE TO ADVERTISEMENTS.

	PAGE		PAGE
Adlard & Son ... ..	vii, ix	Lambert Pharmacal Co. ... ..	ii
Burroughs Wellcome & Co. ... ..	vi	Mayer and Meltzer ... ..	xi, xii
Central London Throat and Ear Hospital ... ..	ix	Medical Publishing Company, Ltd. ... ..	viii
Down Bros. ... ..	i	Medical Graduates' College and Polyclinic ... ..	iii
Golden Square Throat Hospital ... ..	x	Parke, Davis & Co. ... ..	v
Green, W., & Sons—Dr. A. Logan Turner ... ..	v	Rogers, Frank A. ... ..	vii
		Wright, J., & Sons ... ..	vii

# THE JOURNAL OF LARYNGOLOGY, RHINOLOGY, AND OTOTOLOGY.

Founded in 1887 by MORELL MACKENZIE and NORRIS WOLFENDEN.

PUBLISHED UNDER THE DIRECTION OF THE EDITORIAL COMMITTEE:

A. CHEATLE, F.R.C.S. (Pres. Otol. Sect. Internat. Cong.). Sir StCLAIR THOMSON, M.D., F.R.C.S. (London). (Pres. Laryng. Sect. Internat. Cong.).  
DUNDAS GRANT, M.A., M.D., F.R.C.S. (London). H. TILLEY, F.R.C.S. (Pres. Laryng. Sect. R.S.M.).  
W. MILLIGAN, M.D., M.Ch. (Manchester). LOGAN TURNER, M.D. (Edinburgh).  
J. MACINTYRE, M.B., C.M. Glasgow. P. WATSON-WILLIAMS, M.D. (Bristol).  
MACLEOD YEARSLEY, F.R.C.S. (London).

EDITOR:

DAN MCKENZIE, M.D., F.R.C.S.E. (London),  
To whom all communications should be addressed.

WITH THE CO-OPERATION OF THE STAFF OF ABSTRACTORS:

DRS. J. STODDART BARR (*Glasgow*), H. S. BIRKETT (*Montreal*), BRADY (*Sydney, N.S.W.*),  
JOHN DARLING (*Edinburgh*), DONELAN (*London*), CLAYTON FOX (*London*),  
J. S. FRASER (*Edinburgh*), PERRY GOLDSMITH (*Toronto*), THOS. GUTHRIE (*Liverpool*),  
A. HUTCHISON (*Brighton*), J. D. LITHGOW (*Edinburgh*), A. MCCALL (*Bournemouth*),  
CHICHELE NOURSE (*London*), W. G. PORTER (*Edinburgh*), PRICE-BROWN (*Toronto*),  
KNOWLES RENSHAW (*Manchester*), LINDLEY SEWELL (*Manchester*),  
ALEX. R. TWEEDIE (*Nottingham*), RAYMOND VEREL (*Aberdeen*),  
C. E. WEST (*London*), WRIGHT (*Bristol*), and WYLIE (*London*).

AND THE ASSISTANCE OF

DRS. J. BARR (*Glasgow*), HUGO FREY (*Vienna*), A. A. GRAY (*Glasgow*),  
GRAZZI (*Florence*), MIDDLEMASS HUNT (*Liverpool*), A. BROWN KELLY (*Glasgow*),  
E. LAW (*London*), MASSEI (*Naples*), D. PATERSON (*Cardiff*),  
URBAN PRITCHARD (*London*), F. A. ROSE (*London*), A. SANDFORD (*Cork*),  
SENZIAK (*Warsaw*), E. WAGGETT (*London*), R. WOODS (*Dublin*).

## CONTRIBUTORS TO THIS NUMBER.

DR. P. McBRIDE.	DR. KNOWLES RENSHAW.	DR. LINDLEY SEWELL.
MR. J. H. GIBBS.	DR. BIRKETT.	MR. ALEX. R. TWEEDIE.
DR. W. S. SYME.	MR. MACLEOD YEARSLEY.	DR. A. J. WRIGHT.

## MEDICAL GRADUATES' COLLEGE AND POLYCLINIC,

22, Chenes Street, Gower Street, London, W.C.

HONORARY PRESIDENT:

Sir JONATHAN HUTCHINSON, F.R.S., LL.D.

PRESIDENT:

THEODORE WILLIAMS, M.D., F.R.C.P., M.V.O.

The teachers include members of the Staffs of the General and Special Hospitals and Medical Schools of the Metropolis and elsewhere.

The Demonstrations on Friday afternoons at 4 p.m. are devoted to Diseases of the Throat, Nose, Ear and Eye.

Lecture.—Monday, March 10th; Dr. J. DUNDAS GRANT, "Nasal Disease in relation to Asthma."

Annual Subscription, admitting to all Lectures and Demonstrations, One Guinea.

Special Practical Classes are conducted in Otology (Dr. DAN MCKENZIE), Laryngology (Mr. J. GAY FRENCH), and Rhinology (Mr. STUART-LOW), etc.

Pathological Investigations of all kinds are carried out in the Laboratory.

Further Particulars may be obtained from the Medical Superintendent,

MAJOR VINT, M.B., 22, Chenes Street, Gower Street, London, W.C.