

The Journal of Laryngology and Otology

EDITED BY
G. H. BATEMAN

ASSISTANT EDITOR
LIONEL TAYLOR

Contents

FAMILIAL OSTEOMA OF THE MIDDLE EAR	R. THOMAS ✓
EPITHELIAL MIGRATION ON THE TYMPANIC MEMBRANE	P. W. R. M. ALBERTI ✓
SOME CASES OF FISTULA OF THE LABYRINTH	WILLIAM G. EDWARDS ✓
CONDUCTIVE DEAFNESS FOLLOWING HEAD INJURY	VALENTINE HAMMOND ✓
THE USE OF VEIN HOMOGRAFTS IN TYMPANOPLASTY— A PRELIMINARY NOTE	Wing Commander P. F. KING ✓✓
TYMPANOTOMY FOR "GLUE" EARS	STUART R. MAWSON ✓
EXPERIENCE WITH FAT GRAFTING IN STAPEDECTOMY	L. R. S. TAYLOR ✓
CLINICAL RECORDS—	
FASCIA GRAFT FOR MYRINGOPLASTY	URPO SIIRALA ✓
TRUE VERTIGO AND SMOKING	L. WISLICKI ✓
BILATERAL CHOANAL ATRESIA	N. K. APTE ✓
NON-MALIGNANT EXPANSION OF THE ANTRUM	J. RANSOME
COMMENTS—	
CRITICISMS OF DR. NAFTALIN'S THEORIES	A. TUMARKIN
THE TRANSMISSION OF ACOUSTIC ENERGY FROM AIR TO THE RECEPTOR ORGAN IN THE COCHLEA	J. D. GRAY
SOCIETIES' PROCEEDINGS—	
ROYAL SOCIETY OF MEDICINE—SECTION OF OTOLOGY	
GENERAL NOTES	

London
Headley Brothers
109 Kingsway WC2

The Journal of Laryngology and Otology

(FOUNDED in 1887 by MORELL MACKENZIE and NORRIS WOLFENDEN)

EDITED BY

G. H. BATEMAN

ASSISTANT EDITOR

LIONEL TAYLOR

1. Original articles which have not been published elsewhere are invited and should be sent to the Editor. They are considered for publication on the understanding that they are contributed to this *Journal* solely. Reproduction elsewhere, in whole or in part, is not permitted without the previous written consent of the Author and Editor and the customary acknowledgement must be made.

2. Manuscripts should be typewritten, on one side only of the paper, and well spaced. Captions to illustrations should be typed on a separate sheet and sent at the same time as original photographs, etc.

The Harvard system of recording references should be used, e.g. GREEN, C., and BROWN, D. (1951) *J. Laryng.*, 65, 33. Abbreviations of Journals should follow the style recommended in *World Medical Periodicals*, published by World Health Organization, 1952.

It is most important that authors should verify *personally* the accuracy of every reference before submitting a paper for publication.

3. Galley proofs and engraver's proofs of illustrations are sent to the author. Corrections, which should be kept to a minimum, must be clearly marked, and no extra matter added. Proofs should be returned within 5 days.

4. Illustration blocks are provided free up to the limit of £10 per article; beyond this authors are expected to pay half the cost. Coloured illustrations will be charged in full to authors.

Blocks will normally be held by the Printers for three years after which they will be destroyed. Any author who has borne a part of the cost of his blocks is entitled to have these returned to him, but a request for this must be sent within three years of the appearance of the article, to HEADLEY BROTHERS, 109 Kingsway, London, WC2.

5. Orders for reprints must be sent when returning galley proofs, and for this purpose special forms are supplied.

6. Authors of original communications on Oto-Laryngology in other journals are invited to send a copy, or two reprints, to the *Journal of Laryngology*. If they are willing, at the same time, to submit their own abstract (in English, French, Italian, or German) it will be welcomed.

7. Editorial communications may be addressed to THE EDITOR, *Journal of Laryngology*, c/o HEADLEY BROTHERS, 109 Kingsway, London, WC2.

8. The annual subscription is five guineas sterling (U.S.A. \$15) post free, and payable in advance.

9. Single copies will be on sale at 12s. 6d. each; copies of parts up to Vol. LXIII which are available may be purchased at 7s. 6d. each.

10. All subscriptions, advertising and business communications should be sent to the publishers, HEADLEY BROTHERS, 109 KINGSWAY, LONDON, WC2.

United States of America

Orders for this *Journal* may be sent through local bookseller, or to STEGHERT-HAFNER, INC., 31-33 East 10th Street, New York, or direct to the publishers, HEADLEY BROTHERS, 109 KINGSWAY, LONDON, WC2, England.

© *Journal of Laryngology and Otology*, 1964

Please mention *The Journal of Laryngology and Otology* when replying to advertisements

CONTENTS

	PAGE
FAMILIAL OSTEOMA OF THE MIDDLE EAR. R. Thomas (Carlisle)	805
EPITHELIAL MIGRATION ON THE TYMPANIC MEMBRANE. P. W. R. M. Alberti (Newcastle upon Tyne)	808
SOME CASES OF FISTULA OF THE LABYRINTH. William G. Edwards (London)	831
CONDUCTIVE DEAFNESS FOLLOWING HEAD INJURY. Valentine Hammond (London)	837
THE USE OF VEIN HOMOGRAFTS IN TYMPANOPLASTY—A PRELIMINARY NOTE. Wing Commander P. F. King (London)	849
TYMPANOTOMY FOR "GLUE" EARS. Stuart R. Mawson	853
EXPERIENCE WITH FAT GRAFTING IN STAPEDECTOMY. L. R. S. Taylor (London)	855
CLINICAL RECORDS—	
FASCIA GRAFT FOR MYRINGOPLASTY. Urpo Siirala (Helsinki)	856
TRUE VERTIGO AND SMOKING. L. Wislicki (Jerusalem)	860
BILATERAL CHOANAL ATRESIA. N. K. Apte (Bombay)	863
NON-MALIGNANT EXPANSION OF THE ANTRUM. J. Ransome (London)	866
COMMENTS—	
CRITICISMS OF DR. NAFTALIN'S THEORIES. A. Tumarkin (Liverpool)	874
THE TRANSMISSION OF ACOUSTIC ENERGY FROM AIR TO THE RECEPTOR ORGAN IN THE COCHLEA. J. D. Gray (Sheffield)	877
SOCIETIES' PROCEEDINGS—	
ROYAL SOCIETY OF MEDICINE—SECTION OF OTOLGY	879
GENERAL NOTES	885

When
the patient
needs a
hearing aid—
**whom do
you recommend?**

INGRAMS, of course,
the firm with the different makes
to choose from.

INGRAMS, 2 Shepherd Street, London, W.1

Please mention *The Journal of Laryngology and Otology* when replying to advertisements



Staphylococci

cannot live with



Orbenin

Orbenin is recommended for the immediate treatment of all Hospital Staphylococcal infections

Orbenin, an oral penicillin stable to penicillinase, is bactericidal to resistant and sensitive staphylococci



Orbenin (regd.) (cloxacillin sodium) is a product of British research at
Beecham Research Laboratories

Please mention *The Journal of Laryngology and Otology* when replying to advertisements

House-Urban equipment for all Zeiss operating microscopes

Observation tubes
with upright image

35mm camera unit with
automatic film wind-over and
operated by either a hand
or foot pedal switch

Cine-photography with normal
binocular viewing

Closed circuit television



Sole UK agents

Degenhardt & Co Ltd
Carl Zeiss House
20/22 Mortimer Street
London W1
Langham 6097 (9 lines)

Scottish enquiries to

Degenhardt & Co
(Scotland) Ltd
22 Burnbank Gardens
Glasgow NW
Douglas 0520

 **Degenhardt**

Please mention *The Journal of Laryngology and Otology* when replying to advertisements



PENBRITIN

is outstanding in the treatment
of Urinary Tract infections ...

... because it satisfies the criteria more
completely than other antibacterial agents:

- High activity against the infecting organisms
- Bactericidal action
- High urine level
- Effective tissue level

that is why Penbritin achieves
outstanding clinical success rates
in Urinary Tract infections

Oral dosage: 500mg (2 capsules) 8 hourly.



Penbritin (regd) (ampicillin) is a product of British research at
BEECHAM RESEARCH LABORATORIES

Please mention *The Journal of Laryngology and Otology* when replying to advertisements

THE LARYNGOSCOPE

A Monthly Journal
devoted to the disease of
EAR, NOSE AND THROAT

*Official organ for the American Laryngological
Rhinological and Otological Society*

Price \$16.00 per year Canada \$16.50 per year
Foreign \$17.00 per year

MAX A. GOLDSTEIN, M.D.
FOUNDER

THEODORE E. WALSH, M.D.
EDITOR

517 SOUTH EUCLID AVENUE
SAINT LOUIS 10, MO 63110.

For advertisement space in this Journal

apply to:

HEADLEY BROTHERS LTD.

109 Kingsway London WC2

Please mention *The Journal of Laryngology and Otology* when replying to advertisements

IN ALL
INDICATIONS
FOR LOCAL
ANAESTHESIA
CITANEST*

Citanest is a new local anaesthetic possessing all the excellent features of lignocaine with additional advantages. Its superiority to other agents has been repeatedly confirmed during many years of clinical trials.

- Citanest is 40% less toxic than lignocaine.
- Citanest exerts no cumulative action on repeated injections.
- Citanest has only slight effect on blood pressure and respiration.



ASTRA - HEWLETT
WATFORD HERTS.

*(Registered Trade Mark)



Please mention *The Journal of Laryngology and Otology* when replying to advertisements



The Hallpike-Blackmore Ear Microscope

This unique instrument was developed in collaboration with the M.R.C. Otolological Research Unit. It has been introduced to overcome the disadvantages of other existing instruments. Such defects included too high a magnification, ($\times 10$ or $\times 20$) for stability in routine examination, a field of view too small to include the entire tympanic membrane, scattered light which impaired critical vision, or inadequate illumination.

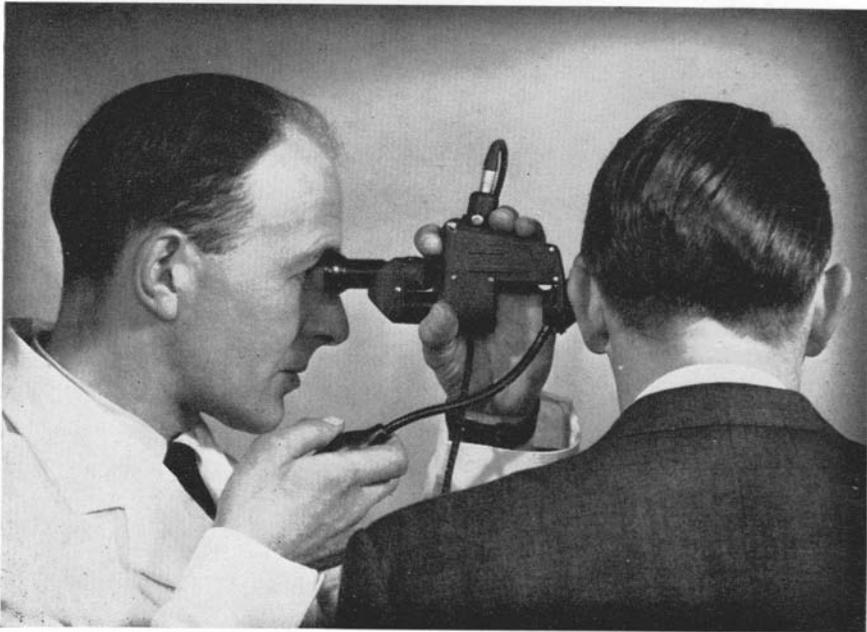
The Hallpike Blackmore Ear Microscope provides intense light, a very wide field of view, dazzle-free vision and optimum magnification. It is not intended for fenestration work, but it is an invaluable and truly portable instrument that facilitates precise surgery and more accurate diagnosis.

The excellent optical performance of the Hallpike Ear Microscope gives the user greatly increased confidence in the diagnosis of abnormal conditions; and many disorders may be recognized at an earlier stage than has hitherto been possible with "headlamp and speculum" techniques. For example, slight pulsation of swellings and vascular tumours—of high diagnostic significance and almost impossible to detect by conventional methods—can readily be detected under this microscope.

Use of the Siegle attachment permits observation of small bubbles present in fluid collections within the tympanum; it is also invaluable for demonstrating minute perforations. Where defects of the tympanic membrane are present, the intra-tympanic region can be scrutinized minutely; the detailed structure of the stapes, stapedium tendon, round window and Eustachian orifice—not normally visible by ordinary methods of examination—are seen with quite remarkable clarity when the Ear Microscope is used.

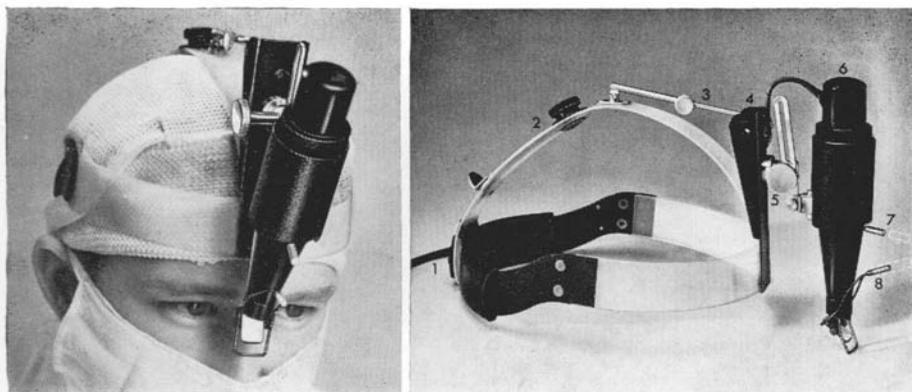
FEATURES

- (1) Homogeneous, double intensity illumination from hemispherically silvered, precentred, 12 watt lamp.
- (2) Patented optical system provides a critically defined dazzle-free image of the entire tympanic membrane at the optimum magnification— $\times 6$.
- (3) Depth of focus includes anterior and posterior limits of membrane.
- (4) Variable field of view controlled by iris diaphragm ensures total exclusion of troublesome reflexions from speculum walls.
- (5) Specula, 2.5, 3.5, 4.5, 5.5 and 8 mm., are specially designed for greater comfort and efficiency.
- (6) Ample space for convenient manipulation of surgical instruments. Robust, small (18 cm. overall) light and well-balanced.



Please mention *The Journal of Laryngology and Otology* when replying to advertisements

The Hallpike Operating Headlamp



This new Operating Headlamp has been based upon designs and experimental constructions put at our disposal by Mr. C. S. Hallpike, F.R.C.S., F.R.S., of the Otological Research Unit, Medical Research Council, at the National Hospital, Queen Square, and provides the high performance and novel design associated with many Keeler instruments.

The optical system, with its 6 volt 18 watt lamp, is made of light-weight materials and incorporates a heat absorbing filter. It projects, at a convenient working distance, a brilliant and homogeneous circle of light of 65 mm. diameter which may be reduced to 12 mm. by means of a built-in iris diaphragm.

The location of the reflector between the surgeon's eyes ensures that his visual axes lie very close to the light beam. In this way it provides for very satisfactory optical penetration when working in small narrow-necked cavities.

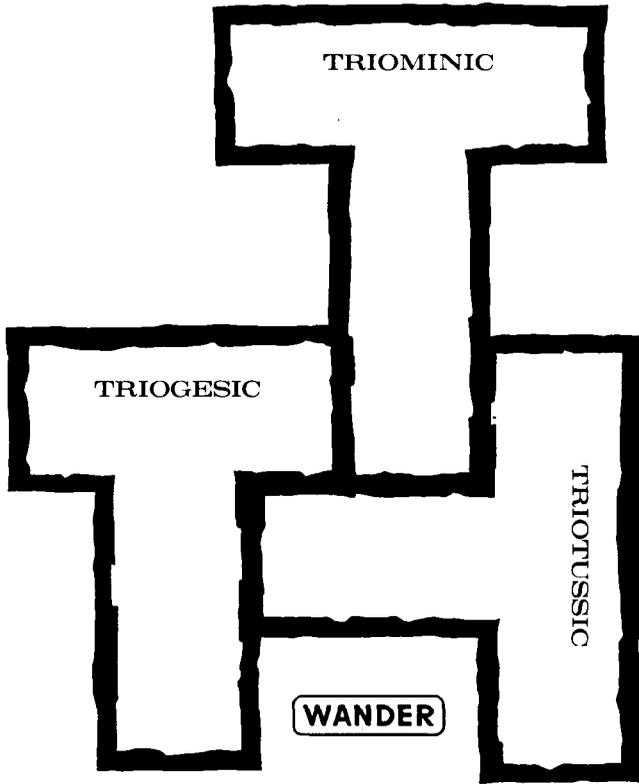
FEATURES

- (1) Convenient screw adjustment for fibre/polythene headband.
- (2) Adjustable "over-band" for increased comfort during long operations.
- (3) Fully adjustable support strut for maximum rigidity of optical system.
- (4) Convenient finger grips for removal of headlamp.
- (5) Vertical and angular adjustment of lamp unit, with positive locking action.
- (6) Pre-centred, compact filament, 6 v. 18 watt lamp.
- (7) Iris diaphragm control, with removable sterilizable sleeve.
- (8) Control knob, with sterilizable sleeve, for adjustment of mirror angle and lateral rotation of lamp.



39 Wigmore St., London, W.1. Tel. WELbeck 8512

Please mention *The Journal of Laryngology and Otology* when replying to advertisements



Triominic
for oral relief of
rhinorrhoea and
nasal congestion

Formula per
Timed-Release Tablet
Phenylpropanolamine-HCl 50 mg.
Mepyramine maleate B.P. 25 mg.
Pheniramine maleate 25 mg.
S2. Part 1

Formula per 4 ml. Syrup
Phenylpropanolamine-HCl 12.5 mg.
Mepyramine maleate B.P. 6.25 mg.
Pheniramine maleate 6.25 mg.
[1 teaspoonful (4 ml.) = ½ Tablet]
S2. Part 1

Triofussic
for colds
complicated
by cough

Formula per
Timed-Release Tablet
'Triominic' 25 mg.
Noscapine 20 mg.
Terpin hydrate B.P.C. 90 mg.
Paracetamol B.P. 160 mg.
S2. Part 1

Formula per 4 ml. Suspension
'Triominic' 25 mg.
Noscapine 20 mg.
Terpin hydrate B.P.C. 90 mg.
Paracetamol B.P. 160 mg.
[1 teaspoonful (4 ml.) = 1 Tablet]
S2. Part 1

Triogesic
for relief of
painful sinus and
aural congestion

Formula per Tablet
'Triominic' 25 mg.
Paracetamol B.P. 500 mg.
S2. Part 1

Formula per 4 ml. Suspension
'Triominic' 12.5 mg.
Paracetamol B.P. 250 mg.
[1 teaspoonful (4 ml.) = ½ Tablet]
S2. Part 1

Literature and samples gladly sent on request

M431A

A. WANDER LIMITED · 42 UPPER GROSVENOR ST · LONDON W.1

Please mention *The Journal of Laryngology and Otology* when replying to advertisements

AMPLIVOX

are pleased to announce
that they have been appointed
EXCLUSIVE SALES AGENTS
in the United Kingdom & Eire
for the following Companies:

GRASON-STADLER

MODEL E800 BÉKÉSY AUDIOMETER . . . an automatic audiometer for sweep-frequency or single-frequency operation, presenting a continuous or pulsed pure tone with intensity controlled by the patient. Valuable in differential diagnosis of auditory disorders, experimentation on auditory fatigue and adaptation, and study of temporary threshold shift.

TRACOR-RUDMOSE

MODEL ARJ-4 RECORDING AUDIOMETER . . .
a Békésy type audiometer programmed to determine and record a subject's hearing threshold at the six most important frequencies automatically.

MODEL ARJ-5 . . . a more comprehensive version providing twelve discrete frequencies automatically programmed or manually selected, with facilities for optional tone conduction, noise generator, etc.

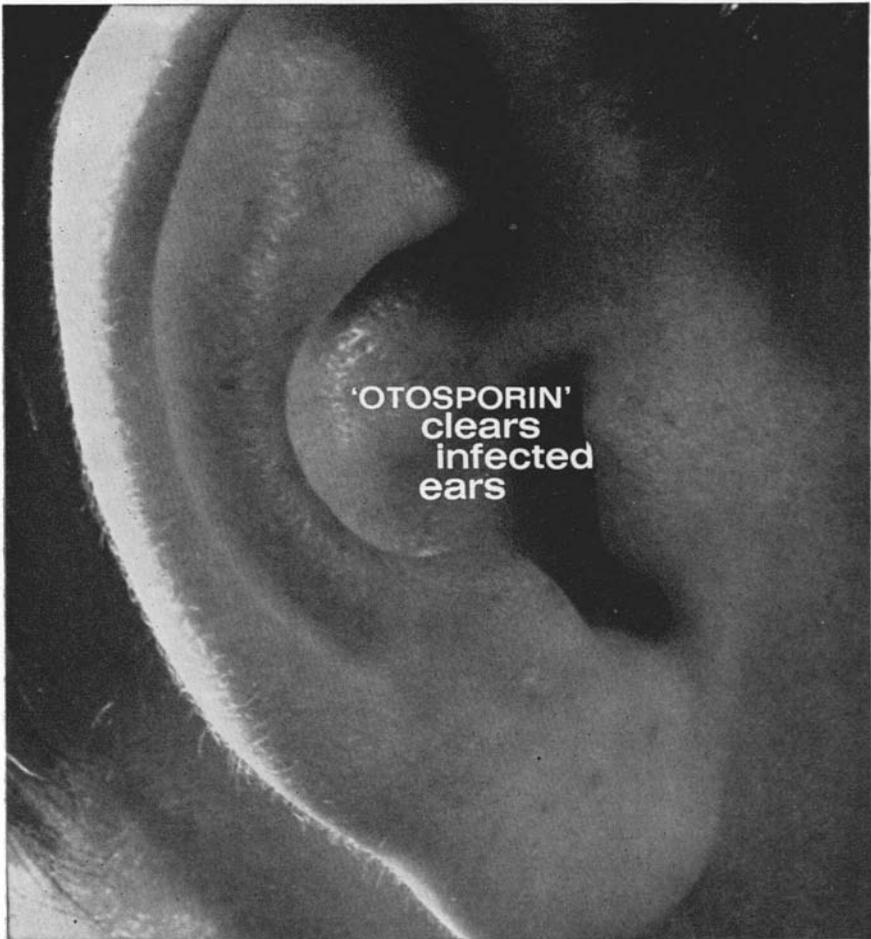
All enquiries for **GRASON-STADLER & TRACOR-RUDMOSE**
Automatic Audiometers should be addressed to:

AMPLIVOX *Hearing Advisory Service Ltd.*

MEDICAL ACOUSTIC DIVISION

80 New Bond Street, London, W.1. Tel: HYDe Park 9888

Please mention *The Journal of Laryngology and Otology* when replying to advertisements



'OTOSPORIN'

The modern method of treatment in otitis externa, chronic suppurative otitis media, and infected mastoid cavities, is 'Otosporin' Drops. 'Otosporin' is an aqueous suspension containing neomycin and polymyxin B which are together effective against practically all the bacteria found in ear infections. In addition, it contains hydrocortisone to reduce inflammation and swelling, thereby providing easier access for the antibiotics.

'OTOSPORIN' BRAND Drops ISSUED IN BOTTLES OF 5 ml.



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

Please mention *The Journal of Laryngology and Otology* when replying to advertisements