

# The Journal of Laryngology and Otology

EDITED BY  
G. H. BATEMAN

ASSISTANT EDITOR  
LIONEL TAYLOR

## Contents

✓ AUDITORY ADAPTATION CLINICAL EVALUATION . . . . .	TAUNO PALVA and ANTTI PALVA
PATHOLOGY OF THE EAR IN THE CARDIOAUDITORY SYNDROME OF JERVELL AND LANGE-NIELSEN (RECESSIVE DEAFNESS WITH ELECTROCARDIOGRAPHIC ABNORMALITIES) . . . . .	
	I. FRIEDMANN, G. R. FRASER and P. FROGGATT
HUMAN STAPES AND ITS VARIATIONS. II. FOOTPLATE . . . . .	RAMJI DASS, B. S. GREWAL and S. P. THAPAR
BEHÇET'S DISEASE . . . . .	A. YASSIN and ISKANDER H. GIRGIS
THE CAUSES OF DEAFNESS IN CHILDHOOD . . . . .	A. G. D. MARAN
✓ INTRATURBINATE USE OF STEROIDS IN NASAL ALLERGY . . . . .	B. S. GILL
OTOSCLEROSIS AND VERTIGO . . . . .	MICHAEL M. PAPARELLA and WERNER D. CHASIN
CLINICAL RECORDS—	
BICKERSTAFF'S ENCEPHALITIS . . . . .	A. G. D. MARAN
UNUSUAL FEATURES OF SCLEROMA . . . . .	A. YASSIN and F. SAFWAT
THE MANAGEMENT OF NASOPHARYNGEAL CHORDOMA BY REPEATED IRRADIATION . . . . .	T. M. BOYLE and H. G. FRANK
HISTIOCYTOSIS OF THE TEMPORAL BONE . . . . .	N. K. APTE
BLINDNESS DUE TO OTITIC HYDROCEPHALUS . . . . .	KENNETH G. MALCOMSON
AN EXTENSIVE DENTIGEROUS CYST WITH ANTROCUTANEOUS FISTULA . . . . .	P. N. AGARWAL
A CASE OF MUCO-PYOCELE OF THE MAXILLARY ANTRUM SIMULATING MALIGNANT NEOPLASM . . . . .	S. K. DE
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 acknowledgment 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 will normally be held by the Printers for three years, after which they will be destroyed. Any author 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. Coloured illustrations will be charged to authors, unless a special grant is authorized by the Editor.

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 booksellers, or to STECHERT-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*, 1966

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

# CONTENTS

	PAGE
AUDITORY ADAPTATION CLINICAL EVALUATION. Tauno Palva and Antti Palva (Oulu, Finland) . . . . .	437
PATHOLOGY OF THE EAR IN THE CARDIOAUDITORY SYNDROME OF JERVELL AND LANGE-NIELSEN (RECESSIVE DEAFNESS WITH ELECTROCARDIOGRAPHIC ABNORMALITIES). I. Friedmann (London), G. R. Fraser (Oxford) and P. Froggatt (Belfast) . . . . .	451
HUMAN STAPES AND ITS VARIATIONS. II. FOOTPLATE. Ramji Dass, B. S. Grewal and S. P. Thapar (Patiala) . . . . .	471
BEHÇET'S DISEASE. A. Yassin and Iskander H. Girgis (Cairo) . . . . .	481
THE CAUSES OF DEAFNESS IN CHILDHOOD. A. G. D. Maran (Edinburgh) . . . . .	495
INTRATURBINATE USE OF STEROIDS IN NASAL ALLERGY. B. S. Gill (Chandigarh, India) . . . . .	506
OTOSCLEROSIS AND VERTIGO. Michael M. Paparella (Columbus, Ohio) and Werner D. Chasin (Boston, Mass.) . . . . .	511
 CLINICAL RECORDS—	
BICKERSTAFF'S ENCEPHALITIS. A. G. D. Maran (Edinburgh) . . . . .	520
UNUSUAL FEATURES OF SCLEROMA. A. Yassin and F. Safwat (Cairo) . . . . .	524
THE MANAGEMENT OF NASOPHARYNGEAL CHORDOMA BY REPEATED IRRADIATION. T. M. Boyle and H. G. Frank (Leeds) . . . . .	533
HISTIOCYTOSIS OF THE TEMPORAL BONE. N. K. Apte (Bombay) . . . . .	536
BLINDNESS DUE TO OTITIC HYDROCEPHALUS. Kenneth G. Malcomson (Bristol) . . . . .	540
AN EXTENSIVE DENTIGEROUS CYST WITH ANTRO-CUTANEOUS FISTULA P. N. Agarwal (Kanpur) . . . . .	544
A CASE OF MUCO-PYOCLE OF THE MAXILLARY ANTRUM SIMULATING MALIGNANT NEOPLASM. S. K. De (Glasgow) . . . . .	548
 GENERAL NOTES . . . . .	 553

For advertisement space in  
this journal

apply to

**HEADLEY BROTHERS  
LIMITED**

**109 Kingsway London WC2**

**THE PHONETIC  
TEST AND  
MEASUREMENTS  
IN AUDIOLOGY**

*by Jean-Claude Lafon, Institut  
d'Audiophonologie, Faculté de  
Medecine, Lyon*

A work in two parts, the first concerned with hearing sounds and words, and the second with the phonetic test and the identification of speech. The author clarifies the difficulties involved in the measurement of hearing, especially the spoken word, and critically classifies the audiometric methods actually used.

*240 pages    28 illustrations    57s 6d*

*published by*

**MACMILLAN**

**Little Essex Street London WC2**

For the longest-  
lasting, gentlest  
relief of  
**HAY-FEVER**

A combination of a long-acting yet gentle decongestant with a topically-effective antihistamine, to provide prompt and sustained relief in all seasonal and perennial nasal allergies. One application at bedtime will usually maintain clear nasal airways until the morning.

Nasal Spray or Drops:  $\frac{1}{2}$  fl. oz. Basic NHS price 3s.8d.

**Otrivine<sup>®</sup>-Antistin<sup>®</sup>**

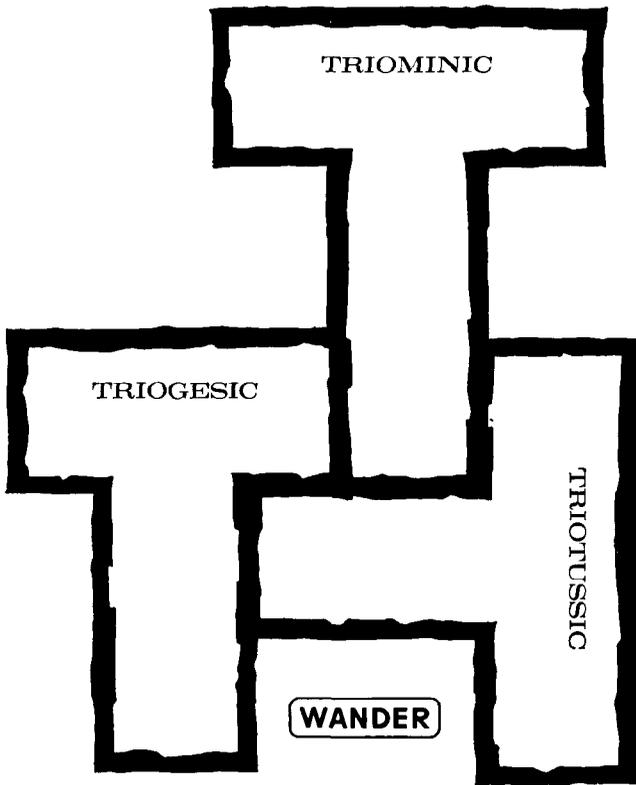
xylometazoline hydrochloride 0.05% antazoline sulphate 0.5%



C I B A

OA/1

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.  
S7

Formula per 4 ml. Syrup  
Phenylpropanolamine-HCl 12.5 mg.  
Mepyramine maleate B.P. 6.25 mg.  
Pheniramine maleate 6.25 mg.  
[4 ml. (1 teaspoonful) =  $\frac{1}{4}$  Tablet]  
S7

**Triotussic**  
for colds  
complicated  
by cough

Formula per  
Timed-Release Tablet  
'Triominic' 25 mg.  
Noscapine B.P. 20 mg.  
Terpin hydrate B.P.C. 90 mg.  
Paracetamol B.P. 160 mg.  
S7

Formula per 4 ml. Suspension  
'Triominic' 25 mg.  
Noscapine B.P. 20 mg.  
Terpin hydrate B.P.C. 90 mg.  
Paracetamol B.P. 160 mg.  
[4 ml. (1 teaspoonful) =  $\frac{1}{4}$  Tablet]  
S7

**Triogesic**  
for relief of  
painful sinus and  
otitic congestion

Formula per Tablet  
'Triominic' 25 mg.  
Paracetamol B.P. 500 mg.  
S7

Formula per 5 ml. Elixir  
'Triominic' 6 mg.  
Paracetamol B.P. 125 mg.  
Alcohol (95%) 0.5 ml.  
S7

*Literature and samples gladly sent on request*

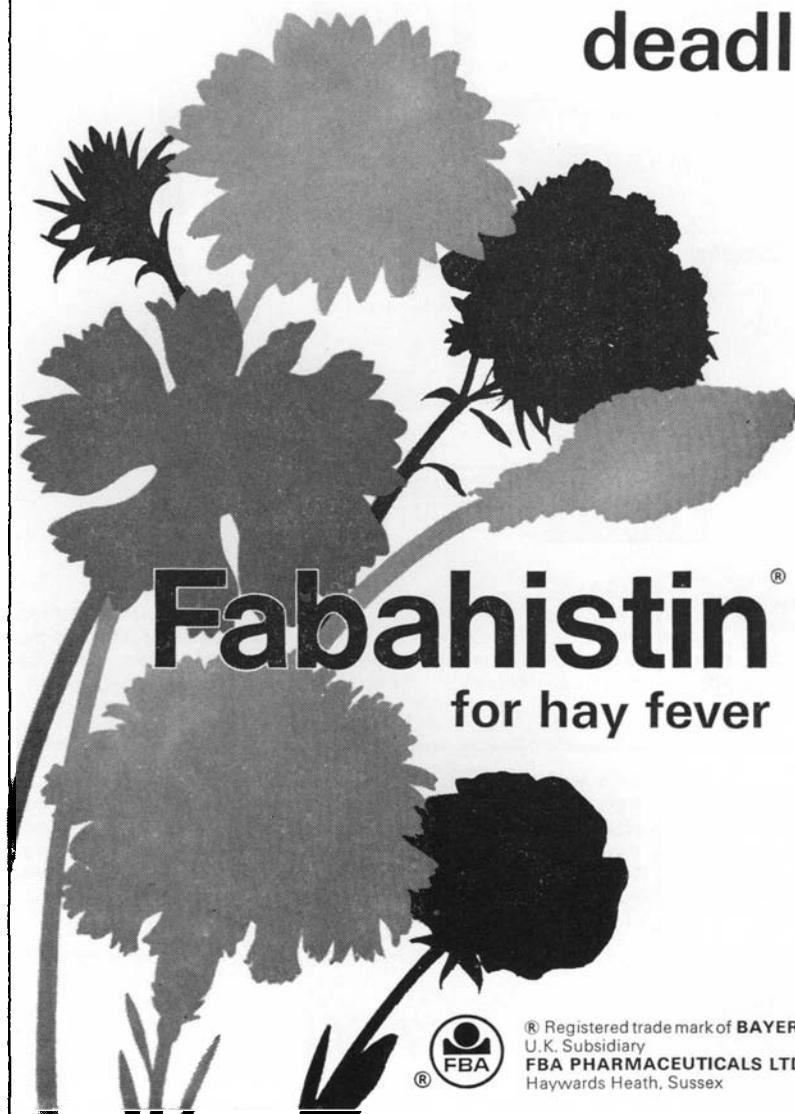
M431C

**A. WANDER LIMITED** • 42 UPPER GROSVENOR ST • LONDON W.1

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

1B

when everything in the garden's —  
**deadly!**



**Fabahistin**<sup>®</sup>  
for hay fever

 <sup>®</sup> Registered trade mark of **BAYER GERMANY**  
U.K. Subsidiary  
**FBA PHARMACEUTICALS LTD**  
Haywards Heath, Sussex

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

NEW  
SYSTEMIC  
HAEMOSTATIC

# Dicynene

ethamsylate

ENSURES  
A CLEAR FIELD  
FOR SURGERY



Clinical studies of DICYNENE have shown its efficacy in the prevention and treatment of haemorrhage due to the rupture of small vessels. DICYNENE exhibits low toxicity. The drug is well tolerated and there are no known contra-indications. For further details write to BAXTER LABORATORIES LTD., Thetford, Norfolk. Tel. Thetford 2081

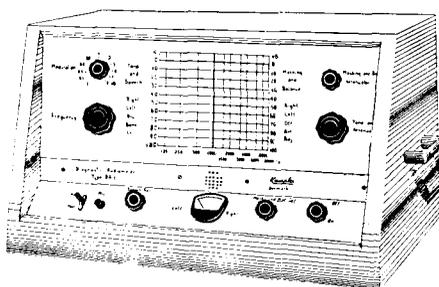
 BAXTER

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

# KAMPLEX

## AUDIOMETRIC EQUIPMENT

### AUDIOMETERS



CLINIC AUDIOMETER DA1

SCREENING PORTABLE TA16  
DIAGNOSTIC PORTABLE TA15

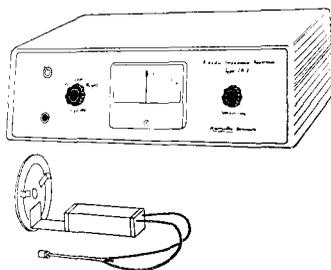
CLINIC AUDIOMETER DA1  
DOUBLE CHANNEL DA2

AUTOMATIC AUDIOMETER  
AB1

ACOUSTIC IMPEDANCE  
APPARATUS ZA2

PNEUMOMETER ZP1

SKIN RESISTANCE  
APPARATUS RA4



SOUND LEVEL METER GA6

VISIBLE SPEECH APPARATUS

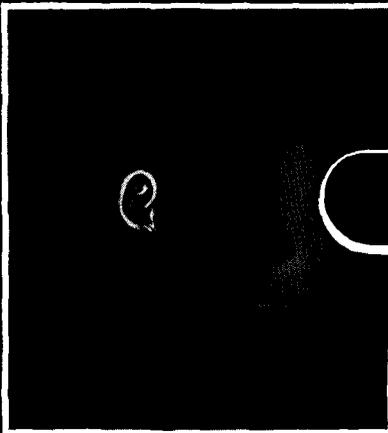
AUDITORY TRAINERS

*Write for full catalogue and detailed descriptions to:*

**ALFRED PETERS & SONS LTD**  
51 GELL STREET, SHEFFIELD 3

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


**5 drops**  
**remove**  
**ear wax**  
**easily**  
**rapidly**  
**safely**



**CERUMOL<sup>®</sup>**

Active ingredients per 100 ml.  
 P-dichlorobenzene B.P.C 2 G  
 Benzocaine B.P. 2.7 G.,  
 Chlorbutol B.P. 5 G.,  
 Ol. Terebinth 10 ml.

In convenient dropper vial for surgery use. Also in 2 oz. Hospital pack.



**LABORATORIES FOR APPLIED BIOLOGY LTD**

91 Amhurst Park London N 16

Tel: STAmford Hill 2252

*Sole distributors in the Irish Republic*

**MESSRS. SEROVACCINE LTD** 25-28, Great Strand Street, Dublin 1, Eire.

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

# WINCO

## AUDITORY TRAINING UNIT

- ★ Robust Construction—high grade components
- ★ Portable, Battery Operated
- ★ Modern transistor circuitry
- ★ Versatile with many facilities
- ★ Improved Performance
- ★ Treble and Bass Tone Controls
- ★ Loop Drive
- ★ Reasonably priced—£55 Ex. Works



PROFESSIONAL MODEL

For further details please write to:

**G. C. JOHNSON,**  
**LEYTON INSTRUMENT CO. LTD.,**  
**54 ALBERT ROAD,**  
**CAVERSHAM,**  
**READING, BERKS.**

Telephone: READING 72293

# 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 \$18.00 per year      Canada \$19.00 per year  
Foreign \$19.00 per year

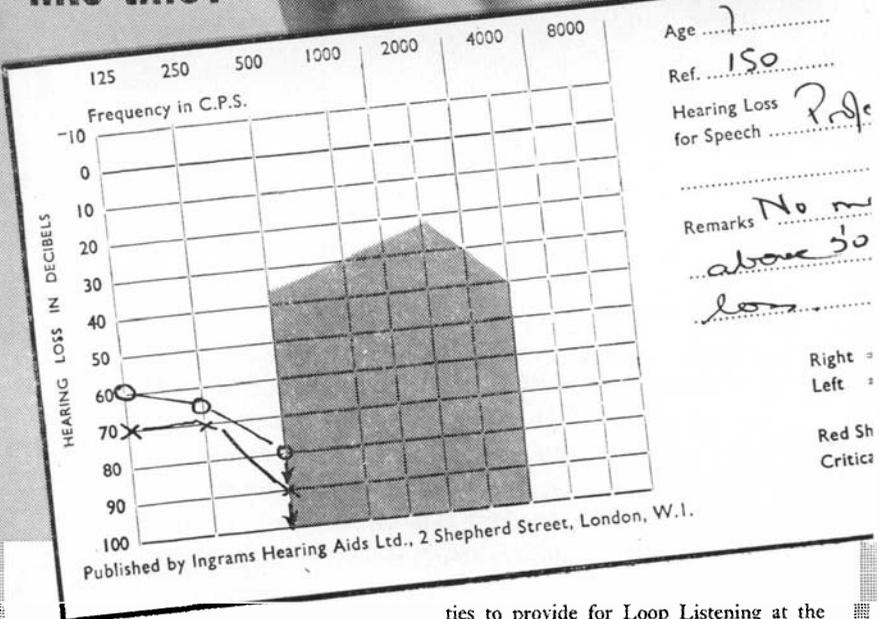
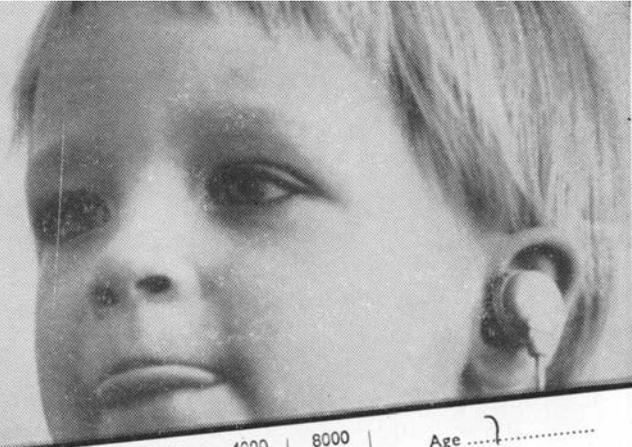
ESTABLISHED 1896

THEODORE E. WALSH, M.D.  
EDITOR

517 SOUTH EUCLID AVENUE  
SAINT LOUIS MO. 63110.

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

What do you do about a case like this?



Now, for the profoundly deaf child and the adult with a severe fragmentary loss—a completely new hearing aid. Available only from Ingrams, the new Zenith 'Vocalizer' enables hearing correction to be maintained down to frequencies previously beyond the scope of all but desk appliances. Because of its low frequency response (the 'Vocalizer' actually amplifies down to one hundred cycles), it can prove helpful for children and adults with some residual hearing for low frequencies but a total loss for the medium high frequencies. It incorporates new facili-

ties to provide for Loop Listening at the same time that the child can hear his own voice for speech training. Because the 'Vocaliser' is light yet robust, he can continue to use the same aid at home as he uses at school.

**WRITE TO INGRAMS**, sole agents for Zenith hearing aids throughout Britain, who will gladly provide full details of this and any other hearing aid from their comprehensive range of 26 different makes. Even if the case seems hopeless—Ingrams could have the answer. You can refer your patient to Ingrams with confidence.

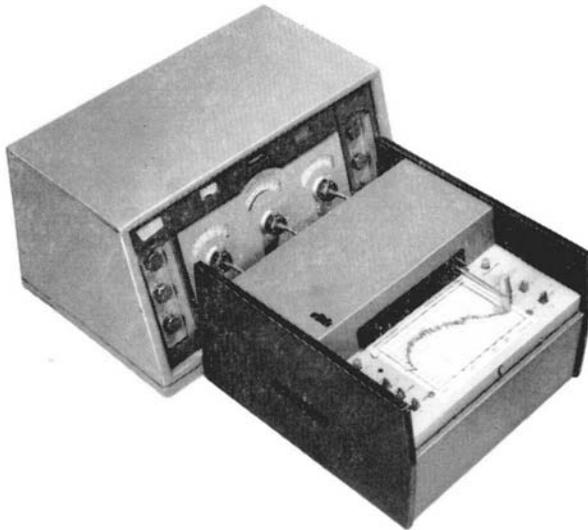
**Ingrams**

**CLEARLY  
 BETTER HEARING**

2 Shepherd Street, Shepherd Market, London W1. Telephone: HYD 9041

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

# BÉKÉSY ACCESSORY



For the very first time a fully automatic unit is being made available for a Clinic Audiometer, making the combined units into a true BÉKÉSY Audiometer.

This automatic accessory is being made for the PETERS SPD/5 CLINIC AUDIOMETER, which has a continuous frequency range and continuously variable attenuation. The result is therefore a true Békésy audiometer.

It can be attached to or detached from the audiometer in under one minute so that the two units together offer the facilities of an advanced clinic audiometer or Békésy audiometry at will.

It can be fitted to any existing SPD/5 Audiometer.

Please write for full details and demonstration to:

**ALFRED PETERS & SONS LIMITED**  
51 GELL STREET, SHEFFIELD 3

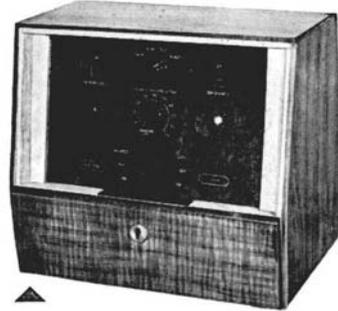
Please mention *The Journal of Laryngology and Otology* when replying to advertisements

**ONLY AMPLIVOX**  
 provides a  
*complete* audiometric service!



**Transistor Audiometers**

with air conduction or air and bone conduction with masking, for hospitals, schools, consulting rooms, industrial medical departments, screening programmes, etc.



**Clinical Audiometers**

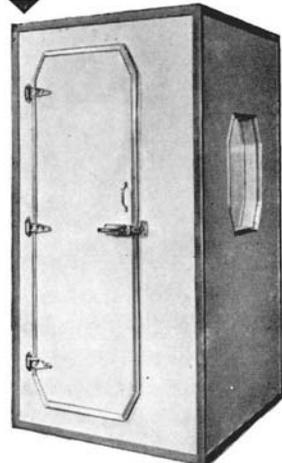
with narrow band masking for the highest accuracy and extended resolution.

**Audiometer Booths**

for ideal testing conditions in hospitals, clinics, factories. Standard and special sizes available.



Industrial Audiometry  
 Speech Audiometers  
 Speech Training Equipment  
 Loop Amplifiers, etc.



**PLUS** An efficient and speedy **calibration service**

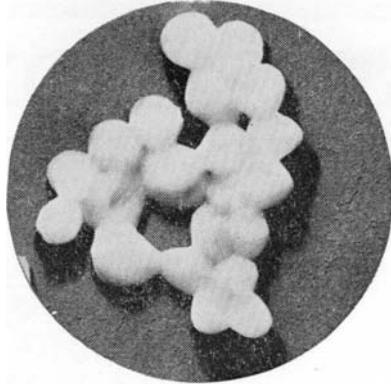
*please write for technical literature to meet your needs*

**AMPLIVOX**

HEARING ADVISORY SERVICE LTD.

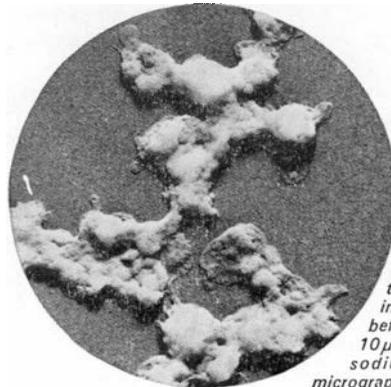
80 New Bond Street, London, W.1. Tel: HYDe Park 9888

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



# Staphylococci cannot live with **Orbenin**

Regd.



*Cells of Staphylococcus aureus (phage type 80), a typical penicillinase-producing organism, are illustrated before and after exposure to 10 µg/ml. of Orbenin (cloxacillin sodium). These photoelectron micrographs are magnified 25,000 times.*

Orbenin (cloxacillin sodium B.P.) is one of the BRL semi-synthetic 'tailor-made' penicillins, developed specifically for the treatment of resistant staphylococcal infections. It has the two important qualities of penicillin, being bactericidal and of low toxicity. It is acid-stable and so can be given in the convenient oral form as well as by intramuscular injection, giving effective serum and tissue levels by either route.

Orbenin is also indicated in the treatment of mixed Gram-positive infections, as it is active against all Gram-positive bacteria normally sensitive to penicillin.

Availability: Capsules, syrup and vials for injection.



Orbenin is a product of British research at  
**Beecham Research Laboratories**  
Brentford, England. Telephone: ISLeworth 4111

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



## OPERATING CHAIR-STOOL

HYDRAULIC, FOOT OPERATED

ADJUSTABLE HEIGHT 24 to 33 in.

ADJUSTABLE BACK REST

FOOT OPERATED BRAKE

FOOT RAIL

MAXIMUM MANŒUVERABILITY

CAN BE ELEVATED AND LOCKED  
BY SURGEON WHILST SEATED

THIS CHAIR-STOOL IS OF  
SPECIAL VALUE IN PROLONGED  
OPERATIONS SUCH AS  
STAPEDECTOMY AND  
OPHTHALMIC SURGERY



**DOWN BROS. AND MAYER & PHELPS LTD**  
CHURCH PATH, MITCHAM, SURREY, ENGLAND

**In Canada**

410 Dundas Street West, Toronto, 2B, Canada

---

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

---

## 'Otosporin' for ears and ears and ears..

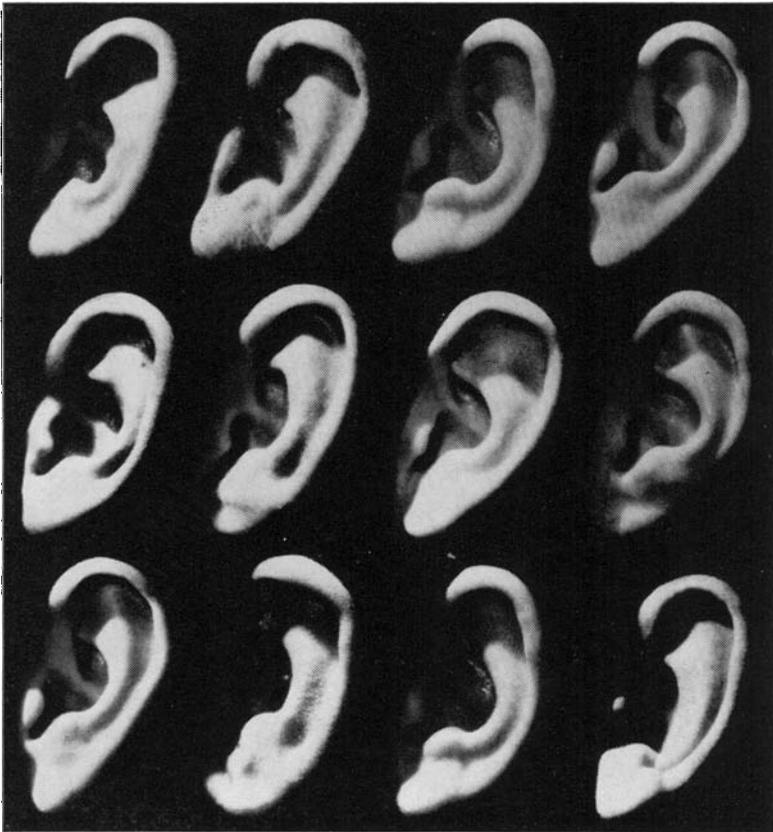
---

'Otosporin' drops rapidly destroy virtually *all* organisms commonly found in infections of the ear, reduce irritation, inflammation and pain.

---

### 'Otosporin'<sup>brand</sup> Drops

contain polymyxin B sulphate, neomycin sulphate and hydrocortisone. 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