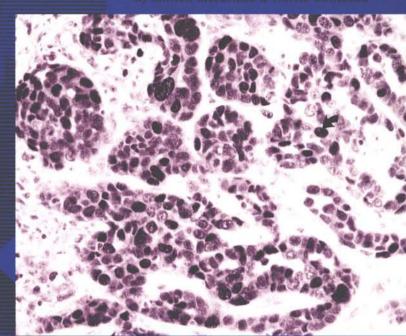
Laryngology & Otology

by Morrell Machanata & Narris Wolfendam



Edited by Neil Weir

Assistant Editors
Carol Wengraf,
Richard Ramsden,
David Proops,
Valerie Lund,
Henry Grant,
Andrew Jones,
Guy Kenyon,
Michael Rothera,
Martin Bailey,
Liam Flood,
Patrick Bradley,
Nick Jones &
Lain Swan

Emeritus Advisor in Pathology Imrich Friedmann

Advisors in Pathology Brian Manners, Christopher Milroy & Lesley Smallman

Advisor in Audiology Linda Luxon

Advisors in Radiology Glyn Lloyd & Peter Phelps

Advisors in Statistics Anthony Hughes, Peter Kelly & Janine Gray

Production Editors Gillian Goldfarb & Jennifer Almond

V o I 1 1 1 https://d.N.Q10.6017/50022215 features:

Visual evoked potentials in endoscopic skull base surgery

The Singapore swing

The use of 'Indermil' in ENT

Paediatric neck masses – a diagnostic dilemma

Ectopic pituitary adenoma in the sphenoid causing Nelson's syndrome

6 Published online by Cambridge University Press

High Rate COMBI 40+

COCHLEAR IMPLANTS



high performance for:

TODAY

High-Rate Stimulation -

Speed of stimulation can be varied up to 18,180pps

Choice of Processing Strategies -

Continuous Interleaved Sampling (CIS) and /or High Rate Spectral Speak Extraction

Deep Electrode Insertion -30mm depth

TOMORROW

Accepts Future Processing Strategies -

powerful and flexible design

Compatible With A Behind The Ear (BTE) Processor currently under development



Bridge Mills • Huddersfield Road • Holmfirth • HD7 2TW • UK Tel: 014 84 / 68 62 23 • Fax: 014 84 / 68 60 56

MED-EL Deutschland GMBH

Truhenseeweg 2 • D-82319 Starnberg • Germany Tel: +49.8151 / 77.030 • Fax: +49.8151 / 77.03 23 Tel: +1.919 / 572 2222 • Fax: +1.919 / 484 9229 https://doi.org/10.1017/S0022215100137776 Published online by Cambridge University Press

MED-EL Headquarters Fürstenweg 77a • A-6020 Innsbruck • Austria Tel: +43-512 / 28 88 89 • Fax: +43-512 / 29 33 81

MED-EL Corporation PO Box 14183 • Research Triangle Park • NC 27709 • USA

Währinger Strasse 6-8 / 4 / 17 • A-1090 Wien • Austria Tel: +43-222 / 31 72 400 • Fax: +43-222 / 31 72 4004

Spe ding toward

natural soun

MED-EL Latin America

Sarmiento 212 • Buenos Aires • Argentina Tel: +54-1 / 3452704(05) • Fax: +54-1 / 3340166



The Journal of Laryngology and Otology

(Founded in 1887 by MORELL MACKENZIE and NORRIS WOLFENDEN)

Edited by NEIL WEIR

Assistant Editors CAROL WENGRAF, RICHARD RAMSDEN, DAVID PROOPS, VALERIE LUND, HENRY GRANT, ANDREW JONES, GUY KENYON, MICHAEL ROTHERA, MARTIN BAILEY, LIAM FLOOD, PATRICK BRADLEY, NICK JONES & IAIN SWAN

Production Editors GILLIAN GOLDFARB & JENNIFER ALMOND

INSTRUCTIONS FOR AUTHORS

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. Normally an original main article should not exceed 7500 words.

Longer articles or theses will be considered for publication as Supplements, at the expense of the authors or their employing authorities.

2. Manuscripts should be typewritten in duplicate on one side of the paper only (A4 297 3 210 mm) and double spaced, with wide margins.

Begin each component on a new page in the following sequence: title page, abstract, text, acknowledgements, references, tables and legends.

(a) Title page—Titles should be short with names of the authors, higher degrees only. Details of the departments in which the authors work should be put lower down. An address for correspondence should be supplied together with the author who should receive this; this will ultimately appear beneath the list of references. Any change of address should be notified. If the paper was presented at a meeting, the details of this must be given and will be inserted at the bottom of the first page of printed

- (b) Abstract—This should contain not more than 150 words and include a statement of the problem, the method of study, results and conclusions; a 'summary' section should not be included in the main manuscript. No paper will be accepted without an abstract.
- (c) Key Words—Only those appearing as Medical Subject Headings (MeSH) in the supplement to the Index Medicus may be used; where no appropriate word(s) are listed those dictated by common sense/usage should be supplied.
- (d) Text-Suggested outline-(1) introduction, (2) materials and methods, (3) results, (4) discussion, (5) conclusion.
- (e) Tables are adjuncts to the text and should not repeat material already presented.
- (f) Illustrations—Two sets of illustrations, one with each copy of the manuscript, must be submitted and all authors should remember that the single column width is 80mm. One set of illustrations should, therefore, not exceed this width and they should ensure that the essential features are illustrated within this dimension.

Coloured illustrations will be charged to authors, unless a special grant is authorized by the Editor.

Written permission from the publisher must be provided to the Journal in order to republish material with copyright elsewhere and also from the senior author where necessary. Consent to be obtained from a patient if a photograph of their face is to be reproduced.

- (g) Measurements must be in metric units, with Système Internationale (SI) equivalents given in parentheses.
- (h) References—For Journal articles, The Harvard system of recording references should be used, e.g. Green, C. and Brown, D. (1951) The tonsil problem. Journal of Laryngology and Otology 65: 33–38. A paper written by more than two authors should be abbreviated in the text, e.g. Green et al. (1951), but all the authors should be given in the list of references. The titles of all Journals should be given without abbreviation. References should be listed in alphabetical order; use of the Vancouver system will not be accepted.

For single-author books, the following style should be used: Green, C. (1951) *The tonsil problem*, 2nd Edition. vol. 1, Headley Brothers Ltd., Ashford, Kent, pp 33–38. For papers in multi-books with one or more editors, the reference should include the title of the chapter and the names of the editors, together with the number of the edition as e.g. Brown, D. (1951) Examination of the ear. In *Diseases of the Ear, Nose and Throat*. 2nd Edition. (White, A., Black, B., eds.), Headley Brothers Ltd., Ashford, Kent, pp 33-38.

It is most important that authors should verify personally the accuracy of every reference before submitting a paper for publication. The names of authors cited in the References should be given in alphabetical order.

- (i) Drugs—The proper names of drugs must be used. One reference can be made to the brand name if it is felt to be important to the study.
- () Financial disclosures—In the submission letter to the Editor, the authors must list all affiliations with or financial involvement in, organizations or entities with a ct financial interest in the subject matter or material of the research discussed in the manuscript.
- (k) Declaration. Each manuscript must be accompanied by a letter of declaration to be signed by each author to confirm that they have seen, read and approve the contribution bearing their name.
- (I) Rejections—All manuscripts which are rejected will no longer be returned to the authors. Those submitting papers should, therefore, ensure that they retain at least one copy and the reference numbers, if any, of the illustrations. The only exception to this will be those manuscripts with colour illustrations which will be returned automatically by Surface Mail.
- (m) Facsimile (FAX)—All authors should send a Facsimile number whenever possible to speed communication; this particularly applies to those outside the United Kingdom. Manuscripts with no visual illustrations (X-rays/pathology) may be sent by facsimile
- 3. Page proofs are sent to authors for corrections, which should be kept to a minimum; they must be clearly marked, and no extra matter added. Proofs should be
- 4. Orders for reprints must be sent when returning page proofs, and for this purpose special forms are supplied.
- 5. Editorial communications may be addressed to The Editor, Journal of Laryngology and Otology, c/o Headley Brothers Ltd., The Invicta Press, Ashford, Kent TN24 8HH, or sent by FAX (01483 451874).
- 6. The annual subscription is £110.00 Institutions & Libraries US\$250.00; £85.00 Individuals US\$195,50; £45.00 Registrars, Residents and Interns. (Those in training should submit a certificate from The Head of the Department giving details of their appointment; those who qualify must supply their home address for mailing direct). Claims to be made for missing issues within 6 months of each publication date.
 - 7. Single copies of current or back numbers (when available) will be on sale at £12.00 each (including postage).
- 8. SUPPLEMENTS published at 'irregular' intervals with subscription, available separately on reques
- All subscriptions, advertising and business communications should be sent to the publishers, or subscription agents.

Instructions for Occasional Articles

Review Articles. Articles of this type, preferably not exceeding 3,000 words will be considered but the author(s) are expected to be a recognized authority on the

Historical Articles. Articles of this type are generally encouraged, but it is obvious that they have to provide some new information or interpretation, whether it be about a well-known person or for example an instrument associated with him, but those from within a Hospital's own department who have made a hitherto less well-known contribution would be welcome.

Audit Articles. Articles should be of general audit interest—not specifically departmental. It should always be demonstrated that the 'audit cycle' has been

'Silence in Court'. Articles on medicolegal topics are welcome but a preliminary letter written beforehand is requested to ensure that the contribution would be

Short Communications. This feature will be used on an occasional basis. Examples of material suitable for inclusion under this title would be, for example, a piece of work which was of clinical interest but had failed to produce findings which were of statistical significance; where an investigative technique has been applied to

Radiology in Focus. Short reports on cases in which the radiology has been crucial in the making of the diagnosis or the management of a particular case now appear on a monthly or bimonthly basis. This spot is to encourage clinicians and radiologists to produce material of particular interest in the specialty and to encourage co-operation in this field. Only presentations with first-class illustrations can be accepted and these must emphasize a problem of unusual clinical interest. encourage co-operation in this field. Only presentations with first-class illustrations can be accepted and these must emphasize a problem of unusual clinical interest. Pathology in Focus. Articles which are of pathological interest with particular emphasis on the way the diagnosis was achieved now appear on a monthly or bimonthly basis. It is hoped that clinicians will involve their pathologists in these reports, and all illustrations must be of first-class quality. Where a department, particularly those overseas, may not have such specialized facilities. It may be possible, if a block or several unstained sections are provided for our Adviser to produce or supplement the illustration submitted. Only contributions of particular pathological interest will be accepted.

Oncology in Focus. This new feature is for papers concerned with oncological treatment and investigation.

Letters to the Editor. This feature has been re-introduced to give those who wish to comment about a paper previously published within the Journal, an opportunity to express their views. Wherever possible, the original author is asked to add his further comment, thereby adding to the value of the contribution. Such letters should be sent as soon as possible after publication of each month's issue of the Journal in the hope of including them early thereafter.

Which appears' such as those which appear in the Ritich Madicine, will not be acceptable event on the rare

'Mini-papers', such as those which appear in the British Medical Journal, Lancet, or New England Journal of Medicine, will not be acceptable except on the rare occasion that they bring information of immediate interest to the reader.

HEADLEY BROTHERS LTD, THE INVICTA PRESS, ASHFORD, KENT

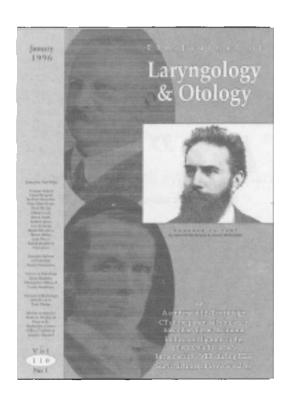
© Journal of Laryngology and Otology Ltd., 1997 ISSN 0022-2151

Periodicals Postage Paid at Rahway N.J.

Postmaster: Send address corrections to The Journal of Laryngology and Otology, c/o Mercury

Airfreight International Ltd. Inc., 2323 Randolph Avenue, Avenel, N.J. 07001. Frequency of Publication: Monthly.

EVERY MONTH... THE BEST IN ENT



The Journal of Laryngology and Otology was the first British journal in the ENT field. Since 1887, it has remained the definitive information resource for surgeons, consultants and students. The Journal is run as a charity to promote education and knowledge in all spheres of Laryngology, Rhinology, Otology and related fields.

The JLO is very much an international journal with contributors from around the world and readers from over 80 countries.

The JLO contains main Articles, case reports and short communications from all over the world. Other contents include the quarterly book review, selected abstract service, and every ten years there is a comphrehensive index issue published. By subscribing to the JLO, you not only gain everyday access to this valuable source of information, but also assist in the promotion of excellence in the ENT domain.

To subscribe today call 01233 623131 with your credit card details.

The Journal of Laryngology and Otology

<u></u>	
Journal of Laryngology and Otology Headley Brothers Ltd, The Invicta Press, Ashford, Kent TN24 8HH, UK	
Tel: 01233 623131 Fax: 01233 612345	
Please enter my subscription for Individual □ 1997 – £85 (U.S.\$195.50) Institutional □ 1997 – £110 (U.S.\$250) Registrars / Residents / Interns (Please send letter from tutor or head of department to confirm training status) □ 1997 – £45 (U.S.\$100)	□ Bill me □ I enclose my cheque for £ made payable to The Journal of Laryngology & Otology □ Please charge £ to my □ Mastercard □ Visa □ Access □ Eurocard Account Number Card Expiry Date Date Date
Name:	Please allow up to 30 days for your order to be processed.
Address: Postcode: Payment to Journal of Laryngology and Otology by cheques in Sterling drawn on a London bank or U.S. dollars drawn on a U.S. bank.	MONEY BACK GUARANTEE The Journal of Laryngology and Otology will send you a full refund on the unexpired part of your subscription should you decide you do not wish to to continue your subscription. JUN 97

THE FIFTH MEETING OF THE BRITISH SOCIETY FOR THE HISTORY OF ENT

Announcement of meeting and call for papers

The fifth meeting of the Society will be held at the

POSTGRADUATE EDUCATION CENTRE, CITY HOSPITAL NHS TRUST, DUDLEY ROAD, BIRMINGHAM. B18 7QH

on

FRIDAY 10TH OCTOBER 1997

All trainees and specialists in ENT and allied specialities are welcome.

It will also be of interest to anyone who is keen on the History of Medicine.

The programme will include lectures and presentations on different aspects of the History of Ear, Nose and Throat.

There will be a prize for the best

JUNIOR PRESENTATION

Abstracts of papers submitted should be of one A4 Page and forwarded to:

Miss S J Griffiths

The Postgraduate Education Centre,

City Hospital NHS Trust,

Dudley Road, Birmingham. B18 7QH

Telephone No: 0121 507 4489/4980 (direct lines)

Registration Fee: £17.50

Students £10.00

Cheques to be made payable to

CITY HOSPITAL NHS TRUST

<u>Further information:</u> Meeting Organiser: Mr A L Pahor

Consultant ENT Surgeon City Hospital NHS Trust

EUROPEAN CONSENSUS DEVELOPMENT CONFERENCE ON NEONATAL HEARING SCREENING

MILAN, 15th and 16th MAY 1998

Large neonatal hearing screening programmes have started in several European countries over the last two to three years. Major programmes are currently being financed in the USA, mainly as a result of the NIH Consensus Conference on Early Identification of Hearing Impairment in Infants and Young Children (March 1993). A number of National, European and International projects are currently focused on the practical implementation of such programmes, but many who work in clinics may not be fully aware of he results achievable in this rapidly growing area. As regional and national screening programmes are launched, substantial investment of resources will be entrained, the European Project AHEAD from the Biomedical and Health Programme of the European Commission (1996–1999) is showing that

there is an urgent need to evaluate effectiveness and to establish standards of best practice. The conference is an ideal forum for discussion of this important issue. It will consist of presentations of evidence by specialists in various fields to a panel of leading experts in an open forum. Specialists in related fields, including neonatology, paediatrics, audiology, otolaryngology, communication disorders, speech-language pathology, epidemiology and health-care administration, will review the most up-to-date evidence in their own field. The panel of experts will weight the evidence and produce a consensus statement at the end of the meeting, which will also be disseminated widely amongst clinicians and health-care administrators. Ample time will be devoted to discussion. Full deliberations of the panel will be published at a later date.

All those interested in attending this unique event are cordially invited to send a preliminary request for information to:

Dr. F. Grandori

Center of Biomedical Engineering, Polytechnic of Milan, Piazza Leonardo da Vinci 32, 20133 Milan (Italy)

Fax: +39-2-23993360/23993344, Email: ecdc@elet.polimi.it

Laryngology & Otology Publications

Available from the Publishers and from Agents throughout the world. Prices include postage and packing.

The Journal of Laryngology and Otology

Edited by Neil Weir

A leading international journal, published monthly and containing original scientific articles and clinical records in all fields of Otology, Rhinology and Laryngology. Including occasional supplements. Founded in 1886.

Annual subscription for 1996 (calendar year): £100.00 Institution, £85.00 Individual, Students rate £45.00.

ISSN 0022 2151

Supplements still available separately.

The ENT Surgeon looks at the Orbit

by D. F. N. Harrison

This supplement records in some detail Professor Harrison's 'personal experience over a period of 20 years dealing with a wide variety of clinical conditions in which entry into the orbit was a desirable or essential part of treatment'.

Pp 42 Printed 1980

Retail £4.00 (US\$8.00)

20 Years Experience with Homografts in Ear Surgery

by Christian Betow

The author, a professor of Otolaryngology in West Berlin, gives a full account of his pioneering development of homograft materials in reconstructive surgery of the middle ear.

Pp 28 Printed 1982

Retail £4.00 (US\$8.00)

Experimental and Clinical Studies in Otitis Media with Effusion

by Jamsheed A. Khan

An experimental and clinical study on the effects of Carbocisteine on fluid in the middle ear.

Pp 28 Printed 1983

Retail £4.00 (US\$8.00)

Proceedings of the Sixth British Academic Conference in Otolaryngology

Edited by John Ballantyne and John Booth

Pp 134 Printed 1983

Retail £5.00 (US\$10.00)

Second International Tinnitus Seminar

Chairman: Abraham Shulman

A comprehensive study of the problems and treatment of tinnitus. Pp 323 Printed 1984

Retail £20.00 (US\$40.00)

Forensic Audiology

by Chuang Wei Ping

A clear concise and practical guide to industrial hearing damage by a barrister/physician. This is an unusual and highly specialised aide memoire for the personal injuries practitioner, well illustrated with recent case law. A commendable enterprise by the author.

Pp 57 Printed 1986

Retail £7.00 (US\$14.00)

The Acute Orbit

Preseptal (Periorbital) cellulitis subperiosteal abscess and orbital cellulitis due to sinusitis.

by J. R. Moloney, N. J. Badham and A. McRae

Pp 18 Printed 1987

Retail £7.00 (US\$14.00)

Nasal Mast Cells: A Preliminary Report on their Ultrastructure

by A. B. Drake-Lee, F.R.C.S.

The ultrastructural morphology of mast cells in the nose and the adenoids are compared. Normal cells have a very varied morphology with electron dense granules which have scrolls occasionally. Cells from patients with perennial allergic rhinitis show variable degranulation in all areas examined. Few cells were seen in the surface epithelium. Cells from the adenoids had different degrees of degranulation which suggests that mast cell reactions are not a constant feature.

Pp 17 Printed 1987

Retail £10.00 (US\$20.00)

Surgical Anatomy of Structures Adjacent to the Thyroid Apex and Post-operative Voice Change (A Review Including Dissection)

by K. L. Yerzingatsian, F.R.C.S.

Pp 13 Printed 1987

Retail £10.00 (US\$20.00)

Inferior Meatal Anstrostomy Fundamental Considerations of Design and Function

by Valerie Joan Lund, M.S., F.R.C.S.

Pp 18 (Contains 12 × 4 colour illustrations) Printed 1988 Retail £15.00 (US\$30.00)

Surgical Management of the Discharging Mastoid Cavity

by R. P. Mills, M.Phil., F.R.C.S.

Pp 6 Printed 1988

Retail £10.00 (US\$20.00)

Acquired Subglottic Stenosis

by John M. Graham, F.R.C.S.

Pp 48 Printed 1988

Retail £12.00 (US\$24.00)

The University College Hospital/Royal National Institute for the Deaf Cochlear Implant Programme

Pp 57 Printed 1989

Retail £15.00 (US\$30.00)

Place-pitch and vowel-pitch comparisons in cochlear implant patients using the Melbourne-Nucleus cochlear implant

by Charles K. Pauka Pp 31 Printed 1989

Retail £12.00 (US\$24.00)

The Scottish Tonsillectomy Audit

by R. L. Blair, W. S. McKerrow, N. W. Carter and A. Fenton

Pp 24 Printed August 1996

Retail £12.00 (US\$24.00)

The Birmingham Bone Anchored Hearing Aid Programme 1988–1995

Departments of Otolaryngology and Audiology, University Hospital, NHS Trust, Birmingham

Pp 52 Printed December 1996

Retail £15.00 (US\$30.00)

COMPLETE YOUR COLLECTION



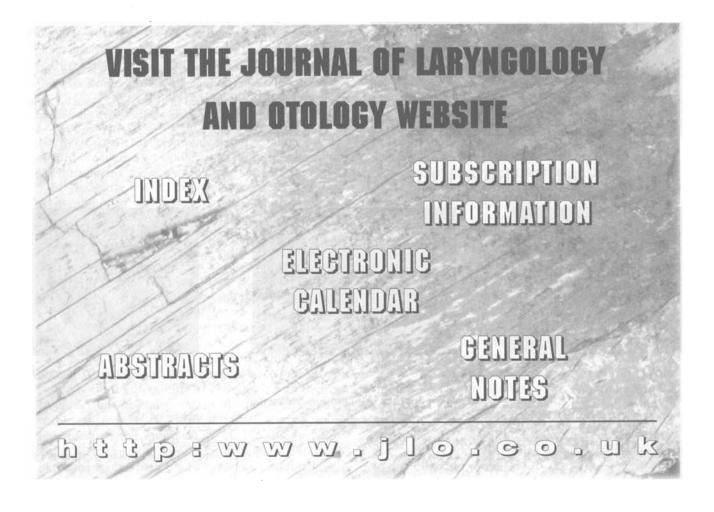
Past copies of The Journal of Laryngology and Otology are available if you wish to build a complete collection of the definitive information resource for surgeons, consultants and students.

Most issues, from 1887 to the present day are available to be ordered at £13 a copy plus postage.

To order the back issues fax +44 (01233) 612345 or write to:

Circulation Manager Journal of Laryngology and Otology Headley Brothers Ltd Invicta Press Ashford, Kent TN24 8HH

The best in ENT...every month
The Journal of Laryngology and Otology





"It's simply a question of quality of life"

Bone Anchored Hearing Aid



BAHA Classic 300

The updated BAHA has three main improvements:

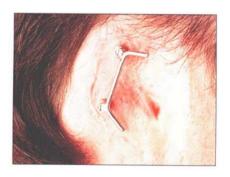
The first is the development of a **continuous base tone control** which has flexibility to cover the frequency response range of the four previous models. The second improvement is the adoption of ABS plastic for the hearing aid casing which offers a more **aesthetic moulded design**, greater strength and colour stability.

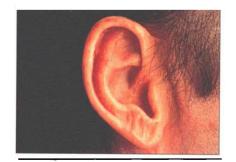
THE BAHA CLASSIC 300 ALSO COMES WITH A FIVE YEAR WARRANTY (UK Only).

Indications for the BAHA

- Chronic Otitis Media with conductive or mixed hearing loss where the use of air conduction devices is contraindicated.
- Congenital Malformation of the external or middle ear where an air conduction hearing aid cannot be used or is contraindicated.
- Otosclerosis in some cases.

Craniofacial Rehabilitation







...a reliably retained prosthesis

For further information contact:

Nobel Biocare U.K. Limited Nobel House, Grand Union Office Park Packet Boat Lane, Uxbridge UB8 2GH, England Tel: +44 (0)1895 430650 Fax: +44 (0)1895 430636

http://www.jlo.co.uk/nobel.htm

Nobel Biocare Norden AB Box 5211, S-402 24 Gothenburg, Sweden Tel: +46 (0) 31 35 49 00 Fax:+46 (0) 31 40 69 15



The difference is years of experience