Microtia and Atresia – Combined Approach by Plastic and Otologic Surgery

Editors
Kimitaka Kaga
Hirotaka Asato

Remarkable progress in the development of new concepts and techniques used in reconstructive surgery of microtia/atresia of the external auditory canal (EAC) has been made since the beginning of the 21st century. Helical computed tomography has made a three-dimensional reconstruction of the soft tissue of the temporal bone surface and the cranial possible, and has laid the groundwork for a collaboration between plastic surgeons and otologists. This book presents the latest findings on reconstructive surgery performed jointly by plastic surgeons and otologists. Based on this concept, information on diagnosis, surgical procedures, outcomes, long-term results and psychology is discussed. Collaborative surgery offers advantages not only in terms of a better reconstruction of morphology and function, but also in terms of the lower number of surgical procedures required which reduces the psychological pressure and economic burden on patients. This publication is a valuable reference not only for plastic surgery and otolaryngology departments, but also for speech therapists, school teachers and patients’ families.

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A promising new therapy

Bilateral vestibular loss often goes unrecognized by doctors and, as a result, many patients consult a variety of specialists before finally getting the correct diagnosis. This special topic issue provides new insights into this disorder and includes encouraging data on the development of a vestibular prosthesis. The publication starts with a discussion of the difficulties patients face until a total vestibular deficit is identified. The focus then turns to the development of a balance-restoring implant which is a neuroprosthesis conceptually similar to a cochlear implant. Two of the three worldwide teams involved in developing this therapy provide exclusive updates on research in animal models and the first applications in humans. So far, demonstrations have shown that at least partial restoration of vestibular function is possible.

Because of the myriad possible symptoms and the difficulties in diagnosis, patients may consult general practitioners, internists, neurologists, ophthalmologists, and/or otorhinolaryngologists. This publication is meant to enhance the awareness of those professionals and bring them up to date on the latest research and results.

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Providing up-to-date reports of training models for speech-language pathologists and audiologists implemented in different parts of the world

New Horizons in Speech Language Pathology

Current academic and clinical training models for speech-language pathologists and audiologists as well as articles on training needs are presented in this issue. Also discussed are current and evolving curricula as well as philosophies of training. Furthermore, the integration of speech-language pathology education with considerations of literacy and language learning disorders and the possibility of a new type of speech-language pathologist trained to understand the public health implications of communication disorders are reviewed. The information provided on training opportunities and concepts in Eastern European countries is unique and new, as are the proposals for including extensive literacy training in speech-language pathology programs and for a new type of speech-language pathologist whose training includes public health issues. Faculty members engaged in educating speech-language pathologists will find important new results to consider in potential future developments of training models in the field of communication disorders. For professionals interested in global variations of communication sciences and disorders, and the possibility of moving toward some universal standards for accredited practitioners, this special issue is valuable reading.

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A unique tool in imaging diagnosis

Yasushi Naito

Pediatric Ear Diseases
Diagnostic Imaging Atlas and Case Reports

Due to the complex anatomical structure of the temporal bone, imaging diagnosis requires a very high degree of expertise. This atlas is not only helpful to assess pediatric ear disorders accurately, but also provides a treasure trove to experts. It consists of a pediatric temporal bone imaging atlas followed by case reports of typical pediatric ear diseases.

In the first part complete contiguous temporal bone CT sections of an infant and an older child are shown along with a detailed listing of anatomical names of the structures. It further presents developmental changes in size, shape, location and orientation of the primary components of the temporal bone. The second part contains case images in combination with reference illustrations of a healthy child in the same age range allowing the reader to identify the key findings of the disorder with only one reference book at hand. Further images illustrate the post-treatment follow-up.

This publication which is translated from the successful Japanese edition (2011) will be essential for otorhinolaryngologists and pediatricians particularly interested in pediatric ear diseases. Its unique layout makes it also a very effective tool for students learning image diagnosis.

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This highly respected and frequently cited journal is a prime source of information in the area of fetal and neonatal research. Original papers present research on all aspects of neonatology, fetal medicine and developmental biology. These papers encompass both basic science and clinical research including randomised trials, observational studies and epidemiology. Basic science research covers molecular biology, molecular genetics, physiology, biochemistry and pharmacology in fetal and neonatal life. Papers reporting results of animal studies should be based upon hypotheses that relate to developmental processes or disorders in the human fetus or neonate.

Selected contributions
- Early Enteral Fat Supplementation Improves Protein Absorption in Premature Infants with an Entero-stomy: Ochiai, M.; Kinjo, T.; Takahata, Y.; Aune, D. (Oslo); Aune, D. (Nanjing)
- Early Enteral Fat Supplementation Improves Protein Absorption in Premature Infants with an Entero-stomy: Ochiai, M.; Kinjo, T.; Takahata, Y.; Aune, D. (Oslo); Aune, D. (Nanjing)
The fifth revised edition of this highly successful book presents the most extensive enhancement since Using and Understanding Medical Statistics was first published 30 years ago. Without question, the single greatest change has been the inclusion of source code, together with selected output, for the award-winning, open-source, statistical package known as R. This innovation has enabled the authors to de-emphasize formulae and calculations, and let software do all of the ‘heavy lifting’. This edition also introduces readers to several graphical statistical tools, such as Q-Q plots to check normality, residual plots for multiple regression models, funnel plots to detect publication bias in a meta-analysis and Bland-Altman plots for assessing agreement in clinical measurements. New examples that better serve the expository goals have been added to a half-dozen chapters. In addition, there are new sections describing exact confidence bands for the Kaplan-Meier estimator, as well as negative binomial and zero-inflated Poisson regression models for over-dispersed count data.

The end result is not only an excellent introduction to medical statistics, but also an invaluable reference for every discerning reader of medical research literature.

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