

Opening Ceremony

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June 30 (Tue.) 17:00-19:00 Hall 1 (4F)

Opening Remarks:

Sugata Takahashi, *Chairman of the 30th Politzer Society Meeting*

Milan Profant, *General Secretary of International Federation of Oto-Rhino-Laryngological Societies*

Speakers: Hiroshi Moriyama, *Department of Otolaryngology, The Jikei University School of Medicine*

Kaoru Ogawa, *President of Japan Otological Society*

O. Nuri Ozgirgin, *Past President of The Politzer Society*

Plenary Session

PS1: Middle Ear Pathophysiology and Management Viewed from Pressure-Regulation Function

July 1 (Wed.) 8:30-9:30 Hall 1 (4F)

Speaker: Haruo Takahashi

Department of Otolaryngology - Head and Neck Surgery, Nagasaki University Graduate School of Biomedical Sciences

PS2: Otic Capsule Dehiscence Syndrome: Clinical Features, Comparison to Superior Semicircular Canal Dehiscence Syndrome and Longitudinal Cognitive Recovery with Surgery

July 2 (Thur.) 8:30-9:30 Hall 1 (4F)

Speaker: P. Ashley Wackym

Ear and Skull Base Center, Portland, OR

PS3: Our Experience with the World's First Middle Ear Implantable Hearing Aid Developed in Japan

July 3 (Fri.) 8:30-9:30 Hall 1 (4F)

Speaker: Naoaki Yanagihara

Emeritus Professor Ehime University, Medical School

Department of Otolaryngology, Middle Ear Surgical-center, Takanoko Hospital

Round-Table

RT1: Tympanoplasty: Decision Making

July 1 (Wed.) 9:30-10:30 Hall 1 (4F)

Moderator: O. Nuri Ozgirgin, *Turkey*
Chair: Hiromi Kojima, *Japan*
Speakers: Lennart Edfeldt, *Sweden*
 Yutaka Yamamoto, *Japan*
 Yuichiro Yaguchi, *Japan*

RT2: Imaging in Otology: New Frontiers

July 1 (Wed.) 9:30-10:45 Hall 2 (2F)

Moderator: Thomas Somers, *Belgium*
Chair: Kazunori Nishizaki, *Japan*
Speakers: Kazunori Nishizaki, *Japan*
 Hiroshi Ogawa, *Japan*
 Thomas Somers, *Belgium*
 Michihiko Sone, *Japan*

RT3: Monitoring Based Surgery in CPA

July 1 (Wed.) 9:30-10:30 Hall 4 (3F)

Moderator: Hidemi Miyazaki, *Japan*
Chair: Per Caye-Thomasen, *Denmark*
Speakers: In Seok Moon, *Republic of Korea*
 Francois Caces, *France*
 Ki-Hong Chang, *Republic of Korea*
 Simon Lloyd, *UK*

RT4: CI: Indication and Decision Making

July 1 (Wed.) 11:15-12:30 Hall 1 (4F)

Moderator: Thomas Lenarz, *Germany*
Chair: Michael Chi Fai Tong, *Hong Kong*
Speakers: Alec Fitzgerald O'Connor, *UK*
 Shin-ichi Usami, *Japan*
 Levent Olgun, *Turkey*
 Piotr H. Skarzynski, *Poland*

RT5: Middle Ear Ventilation and Eustachian Tube Dysfunction

July 1 (Wed.) 11:15-12:30 Hall 2 (2F)

Moderator: Sven-Eric Stangerup, *Denmark*
Chair: Toshimitsu Kobayashi, *Japan*
Speakers: Sven-Eric Stangerup, *Denmark*
Ian Williamson, *UK*
Holger Sudhoff, *Germany*
Christian Faber, *Denmark*
Per Caye-Thomasen, *Denmark*

RT6: Tympanoplasty: Difficult Cases and Complications

July 1 (Wed.) 11:15-12:30 Hall 4 (3F)

Moderator: Takashi Nakagawa, *Japan*
Chair: Matthew Yung, *UK*
Speakers: Matthew Yung, *UK*
Chin-Lung Kuo, *Taiwan*
Nobuhiro Hakuba, *Japan*
Takashi Nakagawa, *Japan*

RT7: Cartilage Tympanoplasty: Current Methods, Techniques, and Results

July 1 (Wed.) 16:30-17:30 Hall 1 (4F)

Moderator: Kenneth H. Lee, *USA*
Chair: In Seok Moon, *Republic of Korea*
Speakers: Cem Uzun, *Turkey*
Per Caye-Thomasen, *Denmark*
Walter Kutz, *USA*
Francois Caces, *France*

RT8: Tympanoplasty: Reconstruction of Hearing System

July 1 (Wed.) 17:30-18:45 Hall 1 (4F)

Moderator: Masafumi Sakagami, *Japan*
Chair: Vijayendra Honnurappa, *India*
Speakers: Chin-Lung Kuo, *Taiwan*
Yutaka Yamamoto, *Japan*
Vijayendra Honnurappa, *India*
Andrzej Zarowski, *Belgium*
Masafumi Sakagami, *Japan*

RT9: Implantable Solutions for Conductive Hearing Loss

July 1 (Wed.) 17:30-18:45 Hall 2 (2F)

Moderator: Rubens de Brito, *Brazil*
Chair: Katsumi Doi, *Japan*
Speakers: Manuel Manrique, *Spain*
 Milan Profant, *Slovak Republic*
 Rubens de Brito, *Brazil*
 Katsumi Doi, *Japan*

RT10: Presbycusis: Challenges in Our Aging Population

July 1 (Wed.) 17:30-18:30 Hall 4 (3F)

Moderator: Tatsuya Yamasoba, *Japan*
Chair: Chuan-Jen Hsu, *Taiwan*
Speakers: Yasue Uchida, *Japan*
 Eu Chin Ho, *Singapore*
 Hiroaki Sato, *Japan*
 Akira Sasaki, *Japan*

RT11: Cholesteatoma: Pediatric Cholesteatoma

July 2 (Thur.) 9:30-10:30 Hall 1 (4F)

Moderator: Haruo Takahashi, *Japan*
Chair: Matthew Yung, *UK*
Speakers: John Hamilton, *UK*
 Yasushi Naito, *Japan*
 Makoto Ito, *Japan*
 Levent Olgun, *Turkey*

RT12: Tumors: Decision Making and Surgical Treatment of Acoustic Schwannoma

July 2 (Thur.) 9:30-10:30 Hall 2 (2F)

Moderator: Hao Wu, *China*
Chair: D. Bradley Welling, *USA*
Speakers: Sho Hashimoto, *Japan*
 Mohamed M. K. Badr-El-Dine, *Egypt*
 Shingo Murakami, *Japan*

RT13: Complicated Surgical Cases for CI

July 2 (Thur.) 11:00-12:15 Hall 1 (4F)

Moderator: Alec Fitzgerald O'Connor, *UK*
Speakers: Robinson Koji Tsuji, *Brazil*
 Constantino Morera, *Spain*
 Irume Pai, *UK*
 Mohan Kameswaran, *India*

RT14: Facial Nerve Paralysis: Update

July 2 (Thur.) 11:00-12:15 Hall 2 (2F)

Moderator: Naoto Hato, *Japan*
Chair: Shingo Murakami, *Japan*
Speakers: Javier Gavilán, *Spain*
Vijayendra Honnurappa, *India*
Jin Kim, *Republic of Korea*
Akira Inagaki, *Japan*

RT15: Cholesteatoma: Decision Making for Surgery

July 2 (Thur.) 11:00-12:15 Hall 4 (3F)

Moderator: Manohar Bance, *Canada*
Chair: Tetsuya Tono, *Japan*
Speakers: Carlos Cenjor, *Spain*
Holger Sudhoff, *Germany*
John Hamilton, *UK*
Adrian James, *Canada*

RT16: Management of Skull Base Tumours - Improving Patient Outcome

July 2 (Thur.) 14:15-15:30 Hall 1 (4F)

Moderator: Vincent Cousins, *Australia*
Chair: Simon Lloyd, *UK*
Speakers: Vincent Cousins, *Australia*
Atsunobu Tsunoda, *Japan*
Vijayendra Honnurappa, *India*
Thomas Somers, *Belgium*
Arnaud Devèze, *France*

RT17: Implantable Solutions for Single Side Deafness

July 2 (Thur.) 14:15-15:30 Hall 2 (2F)

Moderator/Chair:
Joachim Müller, *Germany*
Speakers: John Martin Hempel, *Germany*
Angel Ramos-Macias, *Spain*
Mohan Kameswaran, *India*
Hiroaki Sato, *Japan*
Andrzej Zarowski, *Belgium*

RT18: Otology - Up to Date from East Asian Society of Otology

July 2 (Thur.) 14:15-15:30 Hall 4 (3F)

Moderator: Ken Kitamura, *Japan*
Chair: Sang Won Yeo, *Republic of Korea*
Speakers: Masafumi Sakagami, *Japan*
 Michael Chi Fai Tong, *Hong Kong*
 Yong-Beom Cho, *Republic of Korea*
 Chen-Chi Wu, *Taiwan*
 Hao Wu, *China*

RT19: Approach to Lateral Skull Base

July 2 (Thur.) 16:00-17:15 Hall 1 (4F)

Moderator: Mohamed M.K. Badr-El-Dine, *Egypt*
Chair: Jacques Magnan, *France*
Speakers: Hidemi Miyazaki, *Japan*
 Livio Presutti, *Italy*
 Hao Wu, *China*

RT20: Otosclerosis and Stapes Surgery: Difficult Cases

July 2 (Thur.) 16:00-17:00 Hall 2 (2F)

Moderator: Alan G. Micco, *USA*
Chair: O. Nuri Ozgirgin, *Turkey*
Speakers: O. Nuri Ozgirgin, *Turkey*
 An-Suey Shiao, *Taiwan*
 Luis Garcia-Ibañez, *Spain*
 Kozo Kumakawa, *Japan*
 Masafumi Sakagami, *Japan*

RT21: Tympanoplasty: CW Reconstruction and Obliteration Technique

July 2 (Thur.) 16:00-17:15 Hall 4 (3F)

Moderator: Andrzej Zarowski, *Belgium*
Chair: Sugata Takahashi, *Japan*
Speakers: Robert Jan Pauw, *The Netherlands*
 Carlos Cenjor, *Spain*
 Manoj Manikoth, *India*
 Matthew Yung, *UK*

RT22: New Strategies and Controversies in Mastoiditis Treatment

July 2 (Thur.) 17:15-18:30 Hall 1 (4F)

Moderator: Per Caye-Thomasen, *Denmark*
Chair: Yong-Beom Cho, *Republic of Korea*
Speakers: Per Caye-Thomasen, *Denmark*
Kuniyuki Takahashi, *Japan*
Frida Enoksson, *Sweden*
Ann Hermansson, *Sweden*
Stephen Toynton, *New Zealand*

RT23: Genetics of Hearing Impairment

July 2 (Thur.) 17:15-18:15 Hall 2 (2F)

Moderator: Shin-ichi Usami, *Japan*
Chair: Chuan-Jen Hsu, *Taiwan*
Speakers: Hideaki Moteki, *Japan*
Chen-Chi Wu, *Taiwan*
Byung Yoon Choi, *Republic of Korea*
Tao Yang, *China*

RT24: Vestibular System: Management for Chronic Dizziness and Vertigo

July 2 (Thur.) 17:15-18:30 Hall 4 (3F)

Moderator: Maurizio Barbara, *Italy*
Chair: Izumi Koizuka, *Japan*
Speakers: Frederik Goplen, *Norway*
Issam Saliba, *Canada*
Fazıl Necdet Ardiç, *Turkey*
Måns Magnusson, *Sweden*
Arata Horii, *Japan*

RT25: CI: Hearing and Inner Ear Structural Preservation Surgery

July 3 (Fri.) 9:30-10:45 Hall 1 (4F)

Moderator: Dan Jiang, *UK*
Chair: Fei-Peng Lee, *Taiwan*
Speakers: Satoshi Iwasaki, *Japan*
Neil Donnelly, *UK*
Simon Lloyd, *UK*
Ingo Todt, *Germany*

RT26: Auditory Neuropathy and Cochlear Nerve Deficiency

July 3 (Fri.) 9:30-10:45 Hall 2 (2F)

Moderator: Kimitaka Kaga, *Japan*
Chair: Lee-Suk Kim, *Republic of Korea*
Speakers: Shinichi Iwasaki, *Japan*
 Shujiro Minami, *Japan*
 Irume Pai, *UK*
 Lee-Suk Kim, *Republic of Korea*

RT27: How to Manage Uncontrollable Otitis Media

July 3 (Fri.) 9:30-10:45 Hall 4 (3F)

Moderator: Yukiko Iino, *Japan*
Chair: Hilary Brodie, *USA*
Speakers: Ibrahim Hizalan, *Turkey*
 Adrian James, *Canada*
 Hitome Kobayashi, *Japan*
 Mari Shimada Dias, *Japan*

RT28: Frontier of Medical Technology in the Otorhinolaryngology

July 3 (Fri.) 11:15-12:15 Hall 1 (4F)

Moderator: Kazuo Tanishita, *Japan*
Chair: Masaaki Hayashi, *Japan*
Speakers: Hideo Shojaku, *Japan*
 Hiroshi Hibino, *Japan*
 Satoyuki Kawano, *Japan*

RT29: Practical Management of Tympanic Membrane Retraction in Teenagers

July 3 (Fri.) 14:15-15:30 Hall 1 (4F)

Moderator: Adrian James, *Canada*
Chair: Makoto Ito, *Japan*
Speakers: John Hamilton, *UK*
 Issam Saliba, *Canada*
 Manohar Bance, *Canada*
 Cuneyt Alper, *USA*

RT30: Current Opinions on Temporal Bone Malignancies

July 3 (Fri.) 14:15-15:30 Hall 2 (2F)

Moderator: Chunfu Dai, *China*
Chair: Charlotte Chiong, *Philippines*
Speakers: Chunfu Dai, *China*
 Neil Donnelly, *UK*
 Jose Luis Llorente, *Spain*
 Jerome Nevoux, *France*

RT31: Decision Making: Implantable vs. non-Implantable Hearing Aid

July 3 (Fri.) 14:15-15:30 Hall 4 (3F)

Moderator: Hiroshi Hosoi, *Japan*
Chair: Levent Olgun, *Turkey*
Speakers: Hiroshi Hosoi, *Japan*
Levent Olgun, *Turkey*
Tadashi Nishimura, *Japan*
Joacim Stalfors, *Sweden*

RT32: Otosclerosis and Stapes Surgery: Complications

July 3 (Fri.) 16:00-17:00 Hall 1 (4F)

Moderator: O. Nuri Ozgirgin, *Turkey*
Chair: Hiromi Ueda, *Japan*
Speakers: O. Nuri Ozgirgin, *Turkey*
Karin M. Strömback, *Sweden*
Hiromi Ueda, *Japan*

RT33: Endoscopic Ear Surgery

July 3 (Fri.) 16:00-17:15 Hall 2 (2F)

Moderator: Livio Presutti, *Italy*
Chair: Seiji Kakehata, *Japan*
Speakers: Livio Presutti, *Italy*
Tomoo Watanabe, *Japan*
Matteo Alecandri, *Italy*
Daniele Marchioni, *Italy*
Mohamed M.K. Badr-El-Dine, *Egypt*
Tsukasa Ito, *Japan*

RT34: Perilymph Fistula: Fifty Years of Controversy

July 3 (Fri.) 16:00-17:15 Hall 4 (3F)

Moderator: Tetsuo Ikezono, *Japan*
Chair: Jeremy Hornibrook, *New Zealand*
Speakers: Tetsuo Ikezono, *Japan*
Jeremy Hornibrook, *New Zealand*
Shin-Ichi Haginomori, *Japan*
Norio Yamamoto, *Japan*
Arnaud Devèze, *France*

Instruction Course

IC1: Central Auditory System: Function and Disturbance

July 1 (Wed.) 16:30-17:30 Hall 2 (2F)

IC1-1 Central Auditory Anatomy and Function

Seung-Ha Oh, *Republic of Korea*

IC1-2 Pathophysiology of tinnitus and its central management

Kaoru Ogawa, *Japan*

IC2: Basical Anatomy and Basical Technique in Temporal Bone Surgery

July 1 (Wed.) 16:30-17:30 Hall 4 (3F)

How to Choose and How to move your drill. -Relationships to temporal bone anatomy-

Hiroshi Sunose, *Japan*

IC3: Sudden sensorineural idiopathic Hearing Loss

July 2 (Thur.) 9:30-10:30 Hall 4 (3F)

Moderator: Juichi Ito, *Japan*

IC3-1 Roberto Filipo, *Italy*

IC3-2 Topical IGF1 therapy as salvage treatment for sudden deafness

Takayuki Nakagawa, *Japan*

IC4: Otitis Media with ANCA Associated Vasculitis

July 3 (Fri.) 11:15-12:15 Hall 2 (2F)

IC4-1 Clinical features and treatment outcomes of otitis media with ANCA-associated vasculitis (OMAAV)

Yasuaki Harabuchi, *Japan*

IC4-2 Clinical features and hearing outcome of Otitis media with ANCA associated vasculitis

Naohiro Yoshida, *Japan*

IC5: How to Manage Petrous Bone Lesions

July 3 (Fri.) 17:15-18:15 Hall 1 (4F)

IC5-1 Aetiology and management of temporal bone CSF leaks

Neil Donnelly, *UK*

IC5-2 Management of cholesteatoma in the petrous apex

Shizuo Komune, *Japan*

IC6: CI: Habilitation, Rehabilitation and Plasticity

July 3 (Fri.) 17:15-18:15 Hall 2 (2F)

IC6-1 What should general ENT practitioner know about cochlear implants

Angel Ramos-Macias, *Spain*

IC6-2 The Effect of Brain Plasticity on the Results of Cochlear Implantation

Seung-Ha Oh, *Republic of Korea*

IC7: Middle Ear Regeneration

July 3 (Fri.) 17:15-18:15 Hall 4 (3F)

IC7-1 The new technology: canal wall up tympanoplasty with transplantation of tissueengineered cell sheets

Hiromi Kojima, *Japan*

IC7-2 Tissue engineered mastoid air cells' regeneration for intractable otitis media

Shin-ichi Kanemaru, *Japan*

1st WCO Round-Table

1st WCO RT1: Borderline Cases in Hearing Rehabilitation. Implantable Hearing Devices or CI

July 1 (Wed.) 9:30-10:45 Hall 3 (2F)

Moderator: Angel Ramos-Macias, *Spain*
Speakers: Milan Profant, *Slovak Republic*
 Maurizio Barbara, *Italy*
 Arnaud Devèze, *France*
 P. Ashley Wackym, *USA*

1st WCO RT2: Management of Facial Nerve in Skull Base Tumors

July 1 (Wed.) 11:15-12:30 Hall 3 (2F)

Moderator: Jacques Magnan, *France*
Speakers: Hidemi Miyazaki, *Japan*
 Rubens de Brito, *Brazil*
 Vincent Cousins, *Australia*
 Thomas Somers, *Belgium*

1st WCO RT3: Treatment of Advanced Cholesteatoma

July 2 (Thur.) 14:15-15:30 Hall 3 (2F)

Moderator: O. Nuri Ozgirgin, *Turkey*
Speakers: John Hamilton, *UK*
 Matthew Yung, *UK*
 Haruo Takahashi, *Japan*
 Jef Mulder, *The Netherlands*
 Roberto Filippo, *Italy*

1st WCO RT4: Eustachian Tube: Patency vs Obstruction. Contemporary Approach

July 2 (Thur.) 16:00-17:15 Hall 3 (2F)

Moderator: Manohar Bance, *Canada*
Speakers: Holger Sudhoff, *Germany*
 Cuneyt Alper, *USA*
 Toshimitsu Kobayashi, *Japan*

1st WCO RT5: Bilateral Vestibular Disease: How Close are the Vestibular Implants?

July 3 (Fri.) 9:30-10:45 Hall 3 (2F)

Moderator: Arata Horii, *Japan*
Speakers: Angel Ramos-Macias, *Spain*
 Jay T. Rubinstein, *USA*
 Fazıl Necdet Ardiç, *Turkey*



1st WCO RT6: Conductive Hearing Loss

July 3 (Fri.) 14:15-15:30 Hall 3 (2F)

Moderator: Masafumi Sakagami, *Japan*

Speakers: Manuel Manrique, *Spain*

Onur Celik, *Turkey*

Vijayendra Honnurappa, *India*

Ibrahim Hizalan, *Turkey*

1st WCO Mini Lecture

1st WCO Mini Lecture 1: Surgical Procedures for Petrous Apex Cholesteatoma

July 1 (Wed.) 16:30-17:00 Hall 3 (2F)

ML1 Masashi Hamada, *Japan*

1st WCO Mini Lecture 2: Management of Major Complications of Cochlear Implantation Surgery

July 2 (Thur.) 9:30-10:00 Hall 3 (2F)

ML2 Chong Sun Kim, *Republic of Korea*

1st WCO Mini Lecture 3: Classification and Management of Inner Ear Malformations

July 2 (Thur.) 11:00-11:30 Hall 3 (2F)

ML3 Levent Sennaroğlu, *Turkey*

1st WCO Mini Lecture 4: Surgical Management of Lesions Involved into Juglar Foramen

July 3 (Fri.) 11:15-11:45 Hall 3 (2F)

ML4 Chunfu Dai, *China*

1st WCO Mini Lecture 5: How to strengthen the diagnosis of Ménière's disease

July 3 (Fri.) 16:00-16:30 Hall 3 (2F)

ML5 Maurizio Barbara, *Italy*

1st WCO Mini Lecture 6: Ablating the vestibular function without symptoms

July 3 (Fri.) 16:30-17:00 Hall 3 (2F)

ML6 Måns Magnusson, *Sweden*

Sponsored Seminar

Sponsored Seminar 1: In Sync with Natural Hearing

July 1 (Wed.) 12:30-13:30 Hall 1 (4F)

Sponsored by MED-EL

Moderator: Peter Roland, *USA*
Speakers: Yoshinobu Nakashima, *Japan*
Claude Jolly, *Austria*
Shin-ichi Usami, *Japan*
Yuko Kawabata, *Japan*
Katsumi Doi, *Japan*

Sponsored Seminar 2: Supratubal Recess: its Significance in Cholesteatoma Surgery with Microscopic and Endoscopic Approaches

July 1 (Wed.) 12:30-13:30 Hall 2 (2F)

Sponsored by DAIICHI MEDICAL CO., LTD.

Moderator/Chair:
Tetsuya Tono, *Japan*
Speakers: Tatsuya Yamasoba, *Japan*
Seiji Kakehata, *Japan*
Keiji Matsuda, *Japan*
Tetsuya Tono, *Japan*

Sponsored Seminar 3: Usefulness of CBCT to Decide and Assess Postoperative Position of Ear Implants

July 2 (Thur.) 12:15-13:15 Hall 1 (4F)

Sponsored by J. MORITA MFG. CORP.

Chairs: Naoaki Yanagihara, *Japan*
D. Bradley Welling, *USA*
Speakers: Carsten V. Dalchow, *Germany*
Hans-Göran Gröndahl, *Sweden*
Shakeel R. Saeed, *UK*
Masahiro Komori, *Japan*

Sponsored Seminar 4: Hearing Preservation Surgery for Cochlear Implant Patients

July 2 (Thur.) 12:15-13:00 Hall 2 (2F)

Sponsored by Leica Microsystems K.K.

Chair: Haruo Takahashi, *Japan*
Speaker: Shin-ichi Usami, *Japan*

Sponsored Seminar 5: Cutting-Edge Advances in Endoscopic Ear Surgery-From Middle Ear to Inner Ear-

July 3 (Fri.) 12:15-13:15 Hall 1 (4F)

Sponsored by KARL STORZ GmbH & Co. KG

Chairs: Daniele Marchioni, *Italy*
Seiji Kakehata, *Japan*
Speakers: Daniele Marchioni, *Italy*
Seiji Kakehata, *Japan*
Livio Presutti, *Italy*

Sponsored Seminar 6: Integrating Medical, Audiological and Habilitation Services Needed to Achieve Optimal Outcomes for Children with Cochlear Implants: Sharing Best Practice

July 3 (Fri.) 12:15-13:00 Hall 2 (2F)

Sponsored by Nihon Cochlear Co., Ltd

Speakers: Yetta Abrahams, *Australia*
Aleisha Davis, *Australia*

Politzer Prize Nominees

Politzer Prize Awards & Presentations

July 1 (Wed.) 14:30-16:00 Hall 1 (4F)

PP-1

The mechanism underlying the potassium transport of the lateral wall in the cochlea

Takamasa Yoshida^{1,2}, Fumiaki Nin¹, Naoko Adachi³, Genki Ogata¹, Satoru Uetsuka^{1,4}, Mitsuo Sato^{1,5}, Hidenori Inohara⁴, Yasuo Hisa³, Shizuo Komune², Yoshihisa Kurachi⁶, Hiroshi Hibino¹

¹Department of Molecular Physiology, Niigata University, Japan

²Department of Otolaryngology, Kyushu University

³Department of Otolaryngology, Kyoto Prefectural University of Medicine

⁴Department of Otolaryngology, Osaka University

⁵Department of Otolaryngology, Kindai University

⁶Department of Pharmacology, Osaka University

PP-2

Implantable bioelectrical system for restoration of blinking

Andrii Bobrov¹, Oleg Borysenko², Anton Popov³, Sergey Shoferystov⁴

¹Department of Microsurgery of Ear and Otoneurosurgery, State Institute of Otolaryngology NAMN Ukraine, Ukraine

²State Institute of Otolaryngology NAMN Ukraine

³NTUU, KPI

⁴PP, WEL

PP-3

Prediction and demonstration of tinnitus improvement after CI for single-sided deafness using qEEG

Jae-Jin Song¹, Andrea Kleine Punte², Dirk De Ridder³, Sven Vanneste⁴, Kyungsoo Kim⁵, Ji-Woong Choi⁵, Griet Mertens², Paul Van De Heyning², Yong Hwi An⁶

¹Department of Otorhinolaryngology Head & Neck Surgery, Seoul National University Bundang Hospital, Republic of Korea

²Department of Otorhinolaryngology and Head and Neck Surgery, University Hospital Antwerp, Edegem, Belgium

³Unit of Neurosurgery, Department of Surgical Sciences, Dunedin School of Medicine, University of Otago, Dunedin, New Zealand

⁴School of Behavioral and Brain Sciences, The University of Texas at Dallas, USA

⁵Department of Information and Communication Engineering, DGIST, Daegu, Republic of Korea

⁶Department of Otolaryngology, Eulji University College of Medicine, Republic of Korea

PP-4

Treatment Outcome of Auditory Frontal Dual-site rTMS in Tinnitus Patients and Changes in Functional Connectivity after rTMS: Double-Blind Randomized Controlled Trial

Myung-Whan Suh¹, Tae-Soo Noh¹, Joo Hyun Park¹, Moon Young Chang¹, June Sic Kim², Chun Kee Chung², Jun Ho Lee¹, Seung-Ha Oh¹

¹Department of Otorhinolaryngology, Seoul National University Hospital, Republic of Korea

²Department of Neuro Surgery, Seoul National University Hospital

PP-5

Bony cochlear nerve canal and internal auditory meatus and their effect on the cochlear nerve

Emel Tahir¹, Munir Demir Bajin¹, Gamze Atay¹, Burce Ozgen Mocan², Levent Sennaroğlu¹

¹Department of Otolaryngology, Hacettepe University, Turkey

²Hacettepe University Department of Radiology

PP-6

A new classification of congenital ossicular malformations

Takashi Kojima^{1,2}, Sho Kanzaki¹, Naoki Oishi¹, Satoko Wakabayashi¹, Masato Fujioka¹, Yoshihiko Hiraga¹, Kaoru Ogawa¹

¹Department of Otorhinolaryngology Head & Neck Surgery, Keio University, Japan

²Machida Municipal Hospital

Free Papers

Free Papers 1: Vestibular System 1

July 1 (Wed.) 9:30-10:30 Hall 5 (3F)

Chairs: Måns Magnusson, Arata Horii

FP1-1 Dissociation between caloric test and video head impulse test

Seung-Chul Lee, Jee-Sun Choi, Joong-Wook Shin, Ho-Ki Lee, Hong-Joon Park
Soree Ear Clinic, Republic of Korea

FP1-2 Low frequency BC vibration oVEMPs at the vertex and the forehead: a test-retest study

Berit Holmeslet¹, Jomar Klaksvik³, Olav Foss³
¹Faculty of Medicine, Norwegian University of Science and Technology, Norway
²Department of Otolaryngology Head & Neck Surgery, Trondheim University Hospital, Norway
³Orthopaedic Research Centre, Trondheim University Hospital, Norway

FP1-3 Endolymphatic Hydrops Detected by 3-Dimensional Fluid-Attenuated Inversion Recovery MRI following Intratympanic Injection of Gadolinium in the Asymptomatic Contralateral Ears of Patients with Unilateral Meniere's Disease

Yupeng Liu¹, Huan Jia¹, Jun Shi¹, Hui Zheng², Yuhua Li², Jun Yang¹, Hao Wu¹
¹Department of Otolaryngology Head & Neck Surgery, Xinhua Hospital, Shanghai Jiaotong University School of Medicine, China
²Department of Radiology, Xinhua Hospital, Shanghai Jiaotong University

FP1-4 Withdrawal

FP1-5 CTP detection test for diagnosing PLF in 10 suspected cases

Kana Lee¹, Kunihiko Makino¹, Tetsuo Ikezono²
¹Department of Otolaryngology, Shinsuma General Hospital, Japan
²Department of Otolaryngology, Saitama Medical University

FP1-6 New scoring system of interview for diagnosis of benign paroxysmal positional vertigo

Takao Imai¹, Kayoko Higashi-Shingai², Yasumitsu Takimoto¹, Chisako Masumura¹, Atsuhiko Uno³, Suetaka Nishiike⁴, Yumi Ohta¹, Tetsuo Morihana¹, Takashi Sato¹, Takefumi Kamakura⁵, Tomoko Okumura¹, Yoriko Iwamoto¹, Yukiko Hanada¹, Yoshiyuki Ozono¹, Ryusuke Imai¹, Hidenori Inohara¹
¹Department of Otorhinolaryngology - Head & Neck Surgery, Osaka University Graduate School of Medicine, Japan
²Department of Otolaryngology, Suita Municipal Hospital, Osaka, Japan
³Department of Otolaryngology, Osaka National Hospital, Osaka, Japan
⁴Department of Otolaryngology, Osaka Rosai Hospital, Osaka, Japan
⁵Department of Otolaryngology, Minoh City Hospital, Osaka, Japan

FP1-7 SKULL VIBRATION-INDUCED NYSTAGMUS TEST IS A CRITERIA FOR SUPERIOR SEMICIRCULAR CANAL DEHISCENCE DIAGNOSIS

Georges Dumas^{1,2}, Alexandre Karkas³, Flavio Perottino⁴, Alexis Lyon², Sbastien Schmerber^{1,5}
¹Department of Otolaryngology Head & Neck Surgery, Grenoble University Hospital, France
²Universit de Lorraine, EA 3450 DevAH-Developpement, Adaptation and Disadvantage-Faculty of Medicine and UFR STAPS, Nancy, France
³Department of Otolaryngology, Neurotology, Auditory Implants, University Hospital of Saint Etienne, France
⁴Department of Ent, Hospital of Brianon, France
⁵Clinathec-CEA, Grenoble France

Free Papers 2: Inner Ear Research 1

July 1 (Wed.) 9:30-10:40 Hall 6 (3F)

Chairs: Joseph Attias, Daisuke Yamashita

FP2-1 The effect of Atg7 on auditory cell death and cellular senescence under oxidative stressKen Hayashi^{1,2}, Fumiyuki Goto², Nana Tsuchihashi², Yasuyuki Nomura³, Masato Fujioka², Sho Kanzaki², Kaoru Ogawa²¹Department of Otolaryngology, Kamio Memorial Hospital, Japan²Keio University³Nihon University**FP2-2 Characterization of Gap Junction Networks in the Human Cochlea**Wei Liu¹, Annelies Schrott-Fischer², Rudolf Glueckert², Fredrik Edin¹, Hao Li¹, Hisamitsu Hayashi¹, Helge Rask-Andersen¹¹Department of Surgical Sciences, Section of Otolaryngology, Uppsala University, Sweden²Department of Otolaryngology, Medical University of Innsbruck**FP2-3 Mouse otocysts as an experimental target**

Hiroyuki Takeda, Ryosei Minoda, Takao Yamada, Momoko Ise, Eiji Yumoto

Department of Otolaryngology Head & Neck Surgery, Kumamoto University, Japan

FP2-4 Contribution of active hair-bundle motility to nonlinear amplification in the mammalian cochleaFumiaki Nin¹, Tobias Reichenbach², Jonathan A. N. Fisher³, A. J. Hudspeth⁴¹Department of Molecular Physiology, Niigata University, Japan²Department of Bioengineering, Imperial College London³Department of Physiology, New York Medical College⁴Laboratory of Sensory Neuroscience, The Rockefeller University**FP2-5 Intracranial pressure regulation revisited - the Petro-Sigmoid Reticulum - a new intravascular receptor for intracranial pressure**Martin Nue Møller¹, Svend Kirkeby⁴, Klaus Qvortrup², Jonas Vikesaa³, Finn Cilius Nielsen³, Per Caye-Thomasen^{1,5}¹Dept. of Oto-Rhino-Laryngology, Head and Neck Surgery, Rigshospitalet, Copenhagen, Denmark²CFIM, Department of Biomedical Sciences, University of Copenhagen³Center of Genomic Medicine, University of Copenhagen⁴Dept. of Oral Medicine, Dental School, Panum, University of Copenhagen⁵Faculty of Health and Medical Sciences, University of Copenhagen**FP2-6 Animal model for inner ear conductive hearing loss**Ben Nageris¹, Joseph Attias^{4,5}, Naomi Rabinovics³, Eyal Raveh^{2,3}, Roi Hod³¹Otolaryngology, Meir Medical Center, Israel²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv³Department of Otorhinolaryngology Schneider Children's Medical Center⁴Department of Audiology and Clinical Neurophysiology, Children's Medical Center of Israel⁵Department of Communication Sciences and Disorders, University of Haifa, Haifa, Israel**FP2-7 Auditory measures of inner ear conductive hearing loss in Fat Sand Rats**Joseph Attias^{1,2}, Naomi Rabinovics^{3,4}, Ben Nageris^{3,4}¹Communication Sciences and Disorders, University of Haifa, Israel²Dept. of Audiology, Schneider Children's Medical Center³Dept. of Otorhinolaryngology - Head and Neck Surgery, Rabin Medical Center, Beilinson Campus, Petach Tikva⁴Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

Free Papers 3: Vestibular System 2

July 1 (Wed.) 11:15-12:25 Hall 5 (3F)

Chairs: Frederik Goplen, Hideo Shojaku

FP3-1 Questionnaire Survey on Eating Habits and a Feeling of Coldness in Patients with DizzinessKenya Inukai¹, Takao Sunaga²¹Inukai ENT Clinic, Japan²Niigata Medical-Care Cooperative, Kido Clinic**FP3-2 A 10 year Review of Management Outcomes of Peripheral Vestibular Disorders in Abuja, Nigeria**Abiodun D. Olusesi^{1,2}, Jumai Abubakar¹¹Department of Ear, Nose & Throat, National Hospital Abuja, Nigeria²CSR Otologics Specialist ENT Clinics, Abuja**FP3-3 Autoimmune inner ear disease presenting as Menière's Disease**

Yao Guang Leow, Eu Chin Ho

Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore

FP3-4 Surgical aspects of an implantable vestibular prosthesisNeil Donnelly¹, James Johnston¹, James Tysome¹, Yu Chuen Tam¹, Richard Knight¹, Ross Deas², Carolyn Garnham²¹Department of Otolaryngology, Cambridge University Hospitals, UK²Med-El GMBH, Innsbruck, Austria**FP3-5 Walking with a Vestibular Implant Prototype: Normalization of Dynamic Visual Acuity in Patients with a Bilateral Vestibular Loss**Nils Guinand¹, Raymond van de Berg², Marco Pelizzone¹, Robert Stokroos², Herman Kingma²,Jean-Philippe Guyot¹, Angelica Perez Fornos¹¹ENT, University Hospitals Geneva, Switzerland²Maastricht University Medical Center**FP3-6 Detection of Endolymphatic Hydrops in recurrent vertigos using MR imaging in 176 patients**Arnaud Attye¹, Georges Dumas⁵, Alexandre Karkas⁸, Irène Tropes^{2,3}, Matthieu Roustif⁶, Johan Pietras^{2,3},Edda Banciu⁴, Alexandre Krainik^{2,3,4}, Sébastien Schmerber^{5,7}¹Department of Neuroradiology and MRI, Grenoble University, France²Inserm, U836, Grenoble France³Université Joseph Fourier, Grenoble Institute of Neurosciences UMR-S836, Grenoble France⁴Department of Neuroradiology and MRI, University Hospital of Grenoble - IFR1, Grenoble France⁵Department of Otolaryngology, Neuro-Otology and Auditory implants, University Hospital of Grenoble -France⁶Department of Statistics, University Hospital of Grenoble, Grenoble France⁷Clinathec-CEA, Grenoble -France⁸Department of Otolaryngology, Neuro-Otology and Auditory Implants, University Hospital of Saint-Etienne- France**FP3-7 MRI Inner Ear Imaging and Tone Burst Electrochleography in the Diagnosis of Meniere's Disease**Jeremy Hornibrook¹, Edward Flook¹, Sam Greig¹, Melissa Babbage², Tony Goh³, Mark Coates³, Rachel Care¹, Philip Bird¹¹Otolaryngology-Head and Neck Surgery, Christchurch Hospital, New Zealand²Communication Disorders, University of Canterbury³Department of Radiology

Free Papers 4: Inner Ear Research 2

July 1 (Wed.) 11:15-12:15 Hall 6 (3F)

Chairs: Gyu Cheol Han, Norio Yamamoto

FP4-1 Endolymphatic Hydrops Detected by 3-Dimensional Fluid-Attenuated Inversion Recovery MRI following Intratympanic Injection of Gadolinium in the Asymptomatic Contralateral Ears of Patients with Unilateral Ménière's DiseaseJun Liu^{1,3}, Jun Yang^{1,2}¹Department of Otolaryngology Head & Neck Surgery, Xinhua Hospital, School of Medicine, Shanghai Jiaotong University, China²Ear Institute, School of Medicine, Shanghai Jiaotong University, Shanghai, China³Department of Otorhinolaryngology, Renji Hospital, School of Medicine, Shanghai Jiaotong University, Shanghai, China**FP4-2 Developmental expression of inositol 1, 4, 5-trisphosphate receptor in the postnatal rat cochlea**Wenjing Liu^{1,3}, Jun Yang^{1,2}¹Department of Otolaryngology Head & Neck Surgery, Xinhua Hospital, Shanghai Jiaotong University, China²Shanghai Jiaotong University Ear Institute³Shanghai Key Laboratory of Translational Medicine on Ear and Nose Diseases**FP4-3 Proteomic analysis of membrane transport systems of the epithelial tissue in the mammalian cochlea**Satoru Uetsuka^{1,2}, Genki Ogata¹, Shushi Nagamori³, Noriyoshi Isozumi³, Fumiaki Nin¹, Takamasa Yoshida^{1,4}, Tadashi Kitahara⁵, Yoshiaki Kikkawa⁶, Hidenori Inohara², Yoshikatsu Kanai³, Hiroshi Hibino¹¹Department of Molecular Physiology, Niigata University School of Medicine, Japan²Department of Otorhinolaryngology - Head and Neck Surgery, Graduate School of Medicine, Osaka University³Division of Bio-system Pharmacology, Department of Pharmacology, Graduate School of Medicine, Osaka University⁴Department of Otorhinolaryngology, Graduate School of Medical Sciences, Kyushu University⁵Department of Otorhinolaryngology - Head and Neck Surgery, Nara Medical University⁶Mammalian Genetics Project, Tokyo Metropolitan Institute of Medical Science**FP4-4 Politzer Prize Nominee (PP-1)****FP4-5 A New tail hanging method for vestibular animal research**Gyu Cheol Han¹, Jiyeon Lee¹, Jeong-Hyeon Bak², Nam Beom Kim³, Mi Joo Kim⁴¹Department of Otolaryngology-Head and Neck Surgery, Gachon University, Republic of Korea²Department of Mechanical Engineering, Hanyang University³Neuroscience Research Institute, Gachon University, Graduate School of Medicine⁴Department of Otorhinolaryngology, Catholic Kwandong University International ST. Mary's Hospital**FP4-6 THERAPEUTIC AND PROTECTIVE EFFECTS OF INTRATYMPANIC AUTOLOGOUS SERUM IN AMIKACIN INDUCED OTOTOXICITY**İlker Burak Arslan¹, Gulay Guclu Aslan¹, Gul Caner Mercan¹, Seda Vatanserver², Ibrahim Cukurova¹, Asim Aslan³¹ENT Clinic, Tepecik Education and Resource Hospital, Turkey²Celal Bayar Univ. School of Med. Dept. Histology³Celal Bayar Univ. School of Med. Dept ORL**FP4-7 Experimental patterns in animal studies encompassing cisplatin induced hearing loss**Olaf Michel¹, Melanie Kowalewski², Ken-ichi Watanabe³¹UZB dienst KNO, Vrije Universiteit Brussels VUB, Belgium²Dept. of ENT, University of Cologne, Cologne, Germany³Dept. of ENT, Nippon Medical School, Tokyo, Japan

Free Papers 5: Cochlear Implantation 1

July 1 (Wed.) 16:30-17:20 Hall 5 (3F)

Chair: Satoshi Iwasaki**FP5-1 Withdrawal****FP5-2 Politzer Prize Nominee (PP-3)****FP5-3 Cochlear Implantation has a Positive Influence on Quality of Life in Elderly Adults**Yumi Ohta¹, Tetsuo Morihana¹, Takao Imai¹, Takashi Sato¹, Keiko Suwa¹, Kana Omori¹, Yoriko Iwamoto¹, Yasumitsu Takimoto¹, Yukiko Hanada¹, Yoshiyuki Ozono¹, Ryusuke Imai¹, Tadashi Kitahara², Hidenori Inohara¹¹Department of Otorhinolaryngology-Head & Neck Surgery, Osaka University, Japan²Nara Medical University**FP5-4 Outcomes with Cochlear Implantation in Early Deafened, Delayed Implanted Adults**

Simon Lloyd, Raghunandhan Sampath Kumar, Divyan Sankaran, Deborah Mawman, Christine Melling

*The Richard Ramsden Centre for Auditory Implants, University of Manchester, UK***FP5-5 Ipsi- and Contralateral Auditory Brainstem and Cochlear Implant Combinations**

Andrzej Zarowski, Thomas Somers, Erwin Offeciers

*Department of Otolaryngology Head & Neck Surgery, European Institute for ORL-HNS, Belgium***FP5-6 Long Term Outcome and Application of Objective test in Children with Auditory Brainstem Implant**Ranjith Rajeswaran^{1,2}, Mohan Kameswaran^{1,2}, Charlet Rebecca¹, Janani Jeyaraman¹, Rajalakshmi Ramamoorthy¹, Srimathy Narasimhan¹, Srinivasan Raman³, Padmashri Pokala¹, Ana Jose¹, Priyadarshini Dhinakaran¹, Chandrasekar Reddy¹, Jasmine Elizabeth PhilomiRaj¹¹Audiology and Speech Language Pathology, MERF-Institute of Speech and Hearing, India²Madras ENT Research Foundation³Anderson Labs

Free Papers 6: Middle Ear Research

July 1 (Wed.) 16:30-17:20 Hall 6 (3F)

Chairs: Alan G. Micco, Hideichi Shinkawa

FP6-1 OTITIS MEDIA AND MAST CELLS

Joerg Ebmeyer¹, Stephen I. Wasserman², Allen F. Ryan³, Holger H. Sudhoff¹¹Department of Oto-Rhino-Laryngology, Head and Neck Surgery, Klinikum Bielefeld, Germany²Department of Medicine, Division of Rheumatology, Allergy and Immunology, UCSD School of Medicine, La Jolla, California, USA³Department of Surgery, Division of Otolaryngology, UCSD School of Medicine, La Jolla, California, USA

FP6-2 Streptococcus salivarius, a potential probiotic against pneumococcal colonisation and otitis media: a preliminary study

Mary John¹, Eileen M. Dunne², Paul V. Licciardi^{2,3}, Catherine Satzke^{2,4,5}, Odilia Wijburg⁵, Roy M. Robins-Browne^{4,5}, Stephen O. Leary⁶¹Department of Otolaryngology Head & Neck Surgery, Christian Medical College, Vellore, India²Pneumococcal research, Murdoch Childrens Research Institute, Royal Children's Hospital, Parkville, VIC, Australia³Allergy and Immune Disorders, Murdoch Childrens Research Institute, Royal Children's Hospital, Parkville, VIC, Australia⁴Infectious Diseases & Microbiology, Murdoch Childrens Research Institute, Royal Children's Hospital, Parkville, VIC, Australia⁵Department of Microbiology & Immunology, The University of Melbourne, Parkville, VIC, Australia⁶Department of Otolaryngology, The University of Melbourne, Parkville, Victoria, Australia

FP6-3 A novel experimental model for cholesteatoma-induced bone destruction

Yoriko Iwamoto^{1,2}, Keizo Nishikawa^{2,3}, Tetsuo Morihana¹, Takao Imai¹, Yumi Ohta¹, Yukiko Hanada¹, Ryusuke Imai¹, Masaru Ishii^{2,3}, Hideori Inohara¹¹Department of Otorhinolaryngology - Head and Neck Surgery, Osaka University, Japan²Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University³WPI-Immunology Frontier Research Center, Osaka University

FP6-4 Vibratory axis of the ossicular chains

Yasuomi Kunimoto¹, Kensaku Hasegawa², Shiro Arii³, Hideyuki Kataoka¹, Hiroaki Yazama¹, Junko Kuya¹, Hiromi Takeuchi¹, Hiroya Kitano¹¹Department of Otolaryngology, Head and Neck Surgery, Tottori University, Japan²Department of Oto-Rhino-Laryngology, Nippon Medical School³Department of Information and Knowledge Engineering, Tottori University

FP6-5 Double Oblique images in temporal bone CT to approximate microscopic surgical views

Haruka Nakanishi, Tetsuya Tono, Takeshi Nakamura

Department of Otolaryngology Head & Neck Surgery, Miyazaki University, Japan

FP6-6 Politzer Prize Nominee (PP-2)

Free Papers 7: Cochlear Implantation 2

July 1 (Wed.) 17:30-18:20 Hall 5 (3F)

Chairs: Levent Olgun, Yukihiro Kanda

FP7-1 A comparison between Oticon Neurelec Digisonic SP Binaural and bilateral cochlear implantsJean-Pierre Bebear¹, Damien Bonnard², Vincent Darrouzet², Rene Dauman²¹Department of Otolaryngology Head & Neck Surgery, Bordeaux University, France²Bordeaux University**FP7-2 Hearing preservation after cochlear implantation in children**Piotr Henryk Skarzynski¹, Henryk Skarzynski¹, Artur Lorens¹, Maciej Mrowka¹, Roman Barylyak¹,
Piotr Henryk Skarzynski^{1,2,3}¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland²Medical University of Warsaw, Warsaw, Poland³Institute of Sensory Organs, Kajetany, Poland**FP7-3 Vestibular function changed after cochlear implantation: a preliminary observation**Dongyi Han^{1,2,3}, Cuicui Wang^{1,2}, Pu Dai¹, Shiming Yang¹, Lan Lan¹, Xingjian Liu¹¹Department of Otolaryngology Head & Neck Surgery, Chinese PLA General Hospital, China²Medical School of NanKai University³Chinese Medical Association Otolaryngology Branch**FP7-4 LOW-TRAUMA ELECTRODE-ARRAY DIGISONIC SP EVO: FEATURES AND FIRST RESULTS**Jean-Pierre Bebear¹, Damien Bonnard², Rene Dauman², Vincent Darrouzet²¹Department of Otolaryngology Head & Neck Surgery, Bordeaux University, France²Bordeaux University**FP7-5 Underwater endoscopic ear surgery for preservation of inner ear function**Daisuke Yamauchi, Hiroshi Hidaka, Ryo Ishii, Yuri Nomura, Yohei Honkura, Kazuya Arakawa, Kazuhiro Numura,
Tetsuaki Kawase, Yukio Katori

Otolaryngology-Head and Neck Surgery, Tohoku University Graduate School of Medicine, Japan

Free Papers 8: Tympanic Membrane, Eustachian Tube

July 1 (Wed.) 17:30-18:40 Hall 6 (3F)

Chairs: Sven-Eric Stangerup, Takeshi Oshima

FP8-1 Regeneration of traumatic Tympanic Membrane Perforation Using ofloxacin otic

Zhengcai Lou

Otorhinolaryngology, Yiwu Central Hospital, China

FP8-2 Simplified myringoplasty and tympanoplasty using fibrin glue by transcanal approach

Yu Yuasa, Ryo Yuasa

Sendai Ear Surgicenter, Japan

FP8-3 Withdrawal**FP8-4 Ossicular reconstruction for postoperative aural atresia**

Kiichiro Shinkawa, Manami Shinkawa, Yang Tau, Hidenaga Yamamoto, Maya Oishi, Sayuri Yano, Yuko Miyamoto, Atsushi Shinkawa

Department of Otolaryngology, Shinkawa Clinic, Japan

FP8-5 Use of Tissue Fillers In The Treatment of Patulous Eustachian Tube

Münir Demir Bajin, Taner Yılmaz, Levent Sennaroğlu

Department of Otolaryngology Head & Neck Surgery, Hacettepe University, Turkey

FP8-6 Balloon dilatation for eustachian tube dysfunction; a systematic review

Joanna Walton^{1,2}, Sam Hwang²

¹*Department of Otolaryngology Head and Neck Surgery, John Hunter Hospital, Sydney Childrens Hospital, Australia*

²*Sydney Childrens Hospital*

FP8-7 Dilatation of the Eustachian Tube in children and adults

Carsten V. Dalchow, Rainald Knecht, Friederike Jenckel

Department of Otolaryngology Head & Neck Surgery, University Medical Center Hamburg, UKE, Germany

Free Papers 9: Cochlear Implantation 3

July 2 (Thur.) 9:30-10:30 Hall 5 (3F)

Chairs: Rubens de Brito, Yumi Ohta

FP9-1 Cone beam Computed Tomography in postoperative imaging of cochlear electrodesChristian Gueldner, Isabell Diogo, Rainer Weiß, Afshin Teymoortash, Jochen A. Werner
*Department of Otorhinolaryngology Head & Neck Surgery, University of Marburg, Germany***FP9-2 Straight electrode array of MED-EL cochlear implants has a low rate of scalar dislocation**Sé bastien Schmerber^{1,2}, Eric Boyer^{1,2}, Arnaud Attye Lefournier³, Virginie Lefournier³, Alexandre Karkas^{2,4}
¹*Otology, Neuro-Otology, Auditory Implants, Grenoble University, France*
²*Clinathec-CEA- Grenoble France*
³*Dpt of Neuroradiology, University Hospital of Grenoble France*
⁴*Dpt of Otology, Neuro-Otology and Auditory Implants, University Hospital of Saint-Etienne France***FP9-3 Development of Novel Self-Coiling Cochlear Implant Electrode Array with Use of Shape Memory Polymers**Kenneth H. Lee^{1,2,5}, Cameron E. Kliner¹, Roxanne Lee¹, Dongmei Shao¹, Radu Reit^{3,4}, Walter E. Voit^{3,4}
¹*Otolaryngology - Head & Neck Surgery, University of Texas Southwestern Medical Center, USA*
²*Children's Medical Center Dallas, Division of Pediatric Otolaryngology*
³*University of Texas at Dallas, Department of Mechanical Engineering*
⁴*University of Texas at Dallas, Department of Material Science & Engineering*
⁵*University of Texas at Dallas, School of Behavioral and Brain Sciences***FP9-4 Expanding Indications for Cochlear Implants**Radesh Kumar Najran
*MED-EL GmbH, Austria***FP9-5 Peripheral Electrical Stimulation for Tinnitus Suppression**Andrzej Zarowski, Robby Vanspauwen, Liesbeth de Coninck, Erwin Offeciers
*Department of Otolaryngology Head & Neck Surgery, European Institute for ORL-HNS, Belgium***FP9-6 Screening for hereditary deafness gene in cochlear implantation patients and analyzing postoperative effect**Lei Xu^{1,2,3}, Yicui Zhou^{1,2,3}, Jianfen Luo^{1,2,3}, Ruijie Wang^{1,2,3}, Yujie Song^{1,2,3}, Yuechen Han^{1,2,3}, Zhaomin Fan^{1,2,3}, Haibo Wang^{1,2,3}
¹*Department of Auditory Implantation, Eye & Ear Infirmary of Shandong Provincial Hospital Group, China*
²*Shandong Provincial Key Laboratory of Otology, Jinan, PR China*
³*Artificial Auditory Engineering Centre, Shandong*



Free Papers 10: Endoscopic Ear Surgery

July 2 (Thur.) 9:30-10:20 Hall 6 (3F)

Chairs: Adrian James, Yutaka Yamamoto

FP10-1 Middle Ear Cholesteatoma Treated Via Transcanal Endoscopic Ear Surgery (TEES)

Ryosei Minoda

Department of Otolaryngology Head & Neck Surgery, Kumamoto University, Japan

FP10-2 Residual cholesteatoma after endoscope-guided surgery in children

Adrian L. James

Department of Otolaryngology Head & Neck Surgery, University of Toronto, Canada

FP10-3 Advantages of endoscopic surgery for adhesive otitis media

Kunio Mizutari, Katsuki Niwa, Takaomi Kurioka, Akihiro Shiotani

Department of Otolaryngology, National Defense Medical College, Japan

FP10-4 Value of Endoscopic Ear Surgery Beyond Cholesteatoma

Mohamed M.K. Badr-El-Dine^{1,2}

¹*Department of Otolaryngology Head & Neck Surgery, Alexandria University, Egypt*

²*President of the Egyptian Society Skull Base Surgery*

FP10-5 Withdrawal

Free Papers 11: Cochlear Implantation 4

July 2 (Thur.) 11:00-11:50 Hall 5 (3F)

Chairs: Peter Roland, Shinichi Iwasaki

FP11-1 Updated urgent referral pathway for cochlear implant assessment following bacterial meningitis: The St. Thomas' Protocol

Gareth W. Lloyd, Irume Pai, Steve Connor, Sandra Driver, Katherine Wilson, Marsha Jenkins, Terry Nunn, Alec Fitzgerald-O'Connor, Dan Jiang

*St Thomas' Hearing Implant Centre, Guy's and St Thomas' NHS Foundation Trust, London, UK***FP11-2 Second-look Cochlear Implantation Surgery in Abuja, Nigeria**Abiodun D. Olusesi¹, Roland Laszig²¹*Department of Ear, Nose & Throat, National Hospital Abuja, Nigeria*²*Cochlear Implants Centre, University of Freiburg Otolaryngology Clinic, Freiburg, Germany***FP11-3 Cochlear Implantation in Fractured Temporal Bone**Masoud Motesaddi¹, Farzad Mubedshahi², Negar Ahzan², Razieh Alemi²¹*Department of Otolaryngology Head & Neck Surgery, Amir Aalam Hospital, Tehran University of Medical Sciences, Iran*²*Cochlear Implant Center, Amir Aalam Hospital, Tehran University of Medical Sciences, Tehran, Iran***FP11-4 The middle turn cochleostomy**

Peter Roland, Brandon Isaacson, Charles G. Wright

*Otolaryngology Head/Neck Surgery, Univ of Texas Southwestern Medical Center, USA***FP11-5 Air bone gap component before and after cochlear implantation**Eyal Raveh¹, David Ulanovski^{1,3}, Joseph Attias^{2,4}, Ben Nageris^{1,3}, Tali Grinstein², Miriam Peled²¹*Otorhinolaryngology, Schneider Children's Medical Center of Israel and Rabin Medical Center, Israel*²*Institute of Audiology and Clinical Neurophysiology, Children's Medical Center of Israel*³*Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv*⁴*Department of Communication Sciences and Disorders, University of Haifa, Haifa, Israel*

Free Papers 12: Skull Base Surgery

July 2 (Thur.) 11:00-12:00 Hall 6 (3F)

Chairs: Mohamed M.K. Badr-El-Dine, Masashi Hamada

FP12-1 Conservatively managed sporadic vestibular schwannoma: Audiovestibular factors influencing quality of life

Søren Hansen¹, Jesper Yde¹, Sven-Eric Stangerup¹, Martin Nue Møller¹, Chris Workman², Per Caye-Thomasen^{1,3}

¹Rigshospitalet, Department of ENT, Denmark

²Center for Biological Sequence Analysis, Technical University of Denmark, Denmark

³Faculty of Health Sciences, University of Copenhagen, Denmark

FP12-2 Management of meningiomas of the posterior petrous face

Uma Patnaik^{1,2}, Mario Sanna¹

¹Department of Neurotology & Skull Base Surgery, Ex Gruppo Otologico, Italy

²Army Hospital, Research & Referral

FP12-3 SURGERY OF JUGULAR FORAMEN TUMORS

Haibo Wang¹, Fan Zhaomin^{1,2}, Han Yuechen^{1,2}, Xu Lei^{1,2}, Li Jianfeng², Fan Zhong^{1,2}

¹Department of Ear Surgery, Eye & Ear Infirmary of Shandong Provincial Hospital Group, China

²Shandong Provincial Key Laboratory of Otology

FP12-4 REVISION SURGERY OF THE LOWER CRANIAL NERVES ROOT

Zhoamin Fan¹, Wang Haibo^{1,2}, Han Yuechen^{1,2}, Xu Lei^{1,2}

¹Department of Ear Surgery, Eye & Ear Infirmary of Shandong Provincial Hospital Group, China

²Shandong Provincial Key Laboratory of Otology

FP12-5 Endoscopy-Assisted Microvascular Decompression for Trigeminal Neuralgia: The Prognostic Impact of the interposing material

Hassan Haidar Ahmad¹, Jean Pierre Lavieille², Arnaud Devèze²

¹Otolaryngology, Hamad Medical Corporation, Qatar

²Department of Otolaryngology, Nord University Hospital, Marseille, France

FP12-6 Management of cavernous hemangioma of the internal auditory canal

Zhaoyan Wang

Department of Otolaryngology Head & Neck Surgery, Shanghai Jiaotong University, School of Medicine, China

Free Papers 13: External & Middle Ear

July 2 (Thur.) 14:15-15:15 Hall 5 (3F)

Chairs: Romain E. Kania, Yuko Suzuka

FP13-1 Flexible Nasoendoscopy decontamination - a comparison between Rapicide Solution and Tristel wipesJereme Yijin Gan¹, Alex Manoj Matthews², Chuqin Phua³, Ivan Khoo⁴, David Loke⁵¹Department of Otolaryngology Head & Neck Surgery, Khoo Teck Puat Hospital, Singapore²Abramson AL, Gilberto E, Mullooly V et al. Microbial adherence to and disinfection of laryngoscopes used in office practice. *Laryngoscope* 1993; 103: 503508³K Tzanidakis et al. Evaluation of disinfection of flexible nasendoscopes using Tristel wipes: a prospective single blind study. *Ann R Coll Surg Engl* 2012; 94:185188⁴Niven K. An Evaluation of Chemical Disinfecting Agents Used in Endoscopy Suites in the NHS. London: HSE; 2006⁵H. Isomoto et al. Endoscope disinfection using chlorine dioxide in an automated washer-disinfector. *Journal of Hospital Infection* 2006; 63:298-305**FP13-2 The treatment outcomes of primary squamous cell carcinoma of the external auditory canal**Hiroaki Yazama¹, Yasuomi Kunimoto¹, Junko Kuya¹, Kensaku Hasegawa², Hiromi Takeuchi¹, Hiroya Kitano¹¹Department of Otolaryngology, Head and Neck Surgery, Faculty of Medicine, Tottori University, Japan²Department of Otorhinolaryngology, Nippon Medical School**FP13-3 Early Intervention of Infected Preauricular Sinus**

Oak-Sung Choo, Sangyoung Hong, Hun Yi Park, Yun-Hoon Choung

Department of Otolaryngology Head & Neck Surgery, Ajou University School of Medicine, Republic of Korea

FP13-4 Mastoid subperiosteal abscess in children are there any predisposing factors?Luminita Radulescu^{1,2}, Cristian Martu^{1,2}, Dan Martu², Andra Tiris², Gabriela Damean², Sebastian Cozma^{1,2}¹University of Medicine and Pharmacy "Gr.T.Popa" Iasi, Romania²Rehabilitation Hospital - ENT Clinic, Iasi, Romania**FP13-5 MANAGEMENT OF ACUTE MASTOIDITIS 14 YEARS OF KOSOVO EXPERIENCE**

Aziz Mustafa, Hysen Hamzaj, Arsim Behramaj, Dugagjin Spanca, Hajdin Thaçi

ENT Clinic, University Clinical Center of Kosova, Albania

FP13-6 Biofilms in OtitisRomain E. Kania¹, Benjamin Vérillaud^{1,2}, Huong Dang¹, Pierre Vironneau¹, Natalie Oker¹, Philippe Herman¹, Bernard Ars¹, Stephen O'Leary³, Cuneyt Alper⁴, Harvey Coates⁵, Mat Daniels⁶, Michael Gaihede⁷, Holger Sudhoff⁸, Noboru Yamanaka⁹, Haruo Takahashi¹⁰¹Department of Otolaryngology Head & Neck Surgery, Paris Diderot University, Paris Sorbonne Cité, France²EA 7334 Patient Reported-Outcomes Research Unit³University of Melbourne⁴University of Pittsburgh Medical Center⁵University of Western Australia⁶Nottingham University Hospitals⁷Aalborg University Hospital⁸Ruhr-University Bochum⁹Wakayama Medical University¹⁰Nagasaki University Graduate School of Biomedical Sciences

Free Papers 14: Tinnitus, Central Auditory System

July 2 (Thur.) 14:15-15:15 Hall 6 (3F)

Chairs: Irume Pai, Sho Kanzaki

FP14-1 Characterisitcs and Maskability of Self-reported Tinnitus in Adult NigeriansAbiodun D. Olusesi¹, Adedoja A. Ojetoyinbo²¹Department of Ear, Nose & Throat, National Hospital Abuja, Nigeria²Audiology Unit, Department of ENT, National Hospital Abuja³CSR Otologics Specialist ENT Clinics, Abuja**FP14-2 Objectification and differential diagnosis of pulsatile tinnitus by spectro-temporal analysis**Jae-Jin Song¹, Gwang Seok An², Dirk De Ridder³, Joo Hyun Park⁴, Ja-Won Koo¹, Seung Ha Oh⁵, Kyogu Lee², Il Joon Moon⁶¹Department of Otorhinolaryngology Head & Neck Surgery, Seoul National University Bundang Hospital, Republic of Korea²Music and Audio Research Group, Graduate School of Convergence Science and Technology, Seoul National University, Seoul, Republic of Korea³Unit of Neurosurgery, Department of Surgical Sciences, Dunedin School of Medicine, University of Otago, Dunedin, New Zealand⁴Department of Otorhinolaryngology-Head and Neck Surgery, Dongguk University Ilsan Hospital, Goyang, Republic of Korea⁵Department of Otorhinolaryngology Head & Neck Surgery, Seoul National University Hospital, Seoul, Republic of Korea⁶Department of Otolaryngology, Samsung Medical Center, Seoul, Republic of Korea**FP14-3 A pilot study of the use of EEG source analysis based rTMS for treatment of Tinnitus**

Hui Wang

Department of Otolaryngology Head & Neck Surgery, Department of Otolaryngology, Shanghai Jiao Tong University, China

FP14-4 Can EEG Recorded from the Fp1 Electrode Be Used to Accurately Diagnose Tinnitus?Sho Kanzaki¹, Yasue Mitsukura², Kei Takayama², Naoki Oishi¹, Hiroyuki Yamada¹, Yozo Inagaki¹, Takashi Kojima¹, Satoko Wakabayashi¹, Yoshihiro Hiraga¹, Masato Fujioka¹, Kaoru Ogawa¹¹Department of Otolaryngology Head & Neck Surgery, Keio University, Japan²Department of Information and Computer Science, Keio University**FP14-5 Politzer Prize Nominee (PP-4)****FP14-6 The cortical area dorsally to auditory cortex involved in sound-shape association memory in mice**Tatsuya Yamagishi^{1,2}, Hiroaki Tsukano², Hironori Baba^{1,2}, Yuusuke Honma¹, Shinsuke Ohshima¹, Yamato Kubota¹, Kuniyuki Takahashi¹, Ryuichi Hishida², Takeshi Yagi³, Katsuei Shibuki², Sugata Takahashi¹¹Department of Otolaryngology Head & Neck Surgery, Niigata University, Japan²Department of Neurophysiology, Brain Research Institute, Niigata University, Niigata, Japan³KOKORO-Biology Group, Graduate School of Frontier Biosciences, Osaka University, Japan**FP14-7 OFF responses produced by short-term depression to inhibitory neurons in the mouse auditory cortex**Hironori Baba^{1,2}, Hiroaki Tsukano², Tatsuya Yamagishi^{1,2}, Yuusuke Honma¹, Shinsuke Ohshima¹, Yamato Kubota¹, Kuniyuki Takahashi¹, Ryuichi Hishida², Katsuei Shibuki², Sugata Takahashi¹¹Department of Otolaryngology Head and Neck Surgery, Faculty of Medicine, Niigata University, Niigata, Japan²Department of Neurophysiology, Brain Research Institute, Niigata University, Niigata, Japan

Free Papers 15: Implantable Hearing Aids 1

July 2 (Thur.) 16:00-17:10 Hall 5 (3F)

Chairs: Joacim Stalfors, Yutaka Takumi

FP15-1 Comparison of the Bone Anchored Hearing Devices

Ewa Olszewska

*Department of Otolaryngology, Medical University of Bialystok, Poland***FP15-2 Retrospective study of Baha performance outcomes**Janez Rebol¹, Yiannakis Kyamides², Marina Callimachou², Mario Said³, Andrew Sciberras³, Dejan Mladenov¹, Colin Irwin⁴¹*Department of Otorhinolaryngology, University Clinical Center Maribor, Slovenia*²*Nicosia General Hospital, Nicosia, Cyprus*³*Mater Dei Hospital, Msida, Malta*⁴*Cochlear AG, Basel, Schweiz***FP15-3 Audiological outcomes after Baha Attract surgery**Andrzej Pastuszak¹, Piotr Henryk Skarzynski^{1,2,3}, Andrzej Pastuszak¹, Maciej Mrowka¹, Bartłomiej Krol¹, Kamila Osinska¹¹*World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland*²*Medical University of Warsaw, Warsaw, Poland*³*Institute of Sensory Organs, Kajetany, Poland***FP15-4 Middle Ear Implant System for bilateral congenital anomalies of the ear**Luiz Fernando Lourencone¹, Luzia Pozzobom Ventura², Ademir Comerlatto Junior², Adriane Mortari Moret², Rubens Vuono Brito³¹*OTOLARINGOLOGY - HRAC/BAURU, USP - University of Sao Paulo, Brazil*²*University of Sao Paulo/Hospital for Rehabilitation of Craniofacial Anomalies (HRAC-USP) Audiological Research Center, Bauru, Brazil*³*School of Medicine of So Paulo - So Paulo, So Paulo, Brazil (FMUSP)***FP15-5 Vibrant Soundbridge- round window direct stimulation**Andrzej Pastuszak¹, Henryk Skarzynski¹, Lukasz Olszewski¹, Marek Porowski¹, Andrzej Pastuszak¹, Piotr Henryk Skarzynski^{1,2,3}¹*World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland*²*Medical University of Warsaw, Warsaw, Poland*³*Institute of Sensory Organs, Kajetany, Poland***FP15-6 Benefits after application of Bonebridge**Andrzej Pastuszak¹, Piotr Henryk Skarzynski^{1,2,3}, Marek Porowski¹, Andrzej Pastuszak¹, Anna Stepień¹, Henryk Skarzynski¹¹*World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland*²*Medical University of Warsaw, Warsaw, Poland*³*Institute of Sensory Organs, Kajetany, Poland***FP15-7 A "STAMP" Plate Guided BONEBRIDGE Implantation**Yutaka Takumi¹, Nozomu Matsumoto³, Byunghyun Cho⁴, Hidenori Ono⁵, Kentaro Mori¹, Keita Tsukada¹, Aya Ichinose¹, Hidekane Yoshimura¹, Satoshi Iwasaki², Shizuo Komune³, Shin-ichi Usami^{1,2}¹*Department of Otorhinolaryngology, Shinshu University School of Medicine, Japan*²*Department of Hearing Implant Sciences, Shinshu University School of Medicine*³*Department of Otorhinolaryngology, Graduate School of Medical Sciences, Kyushu University*⁴*Department of Advanced Medical Initiatives, Faculty of Medical Sciences, Kyushu University*⁵*Ono & Co., Ltd.*

Free Papers 16: Hearing Loss

July 2 (Thur.) 16:00-17:00 Hall 6 (3F)

Chairs: Eu Chin Ho, Yasuyuki Hinohira

FP16-1 A two-staged study on hearing and communication problems of elderly taxi drivers

Kazunori Nishizaki, Yukihide Maeda, Akiko Sugaya, Yuko Kataoka

Department of Otolaryngology-Head & Neck Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

FP16-2 Sarcopenia and Hearing Loss in Older Koreans: Findings from the Korea National Health and Nutrition Examination Survey (KNHANES) 2010

Sung Won Chae¹, Ji Eun Lee¹, Sung Won Chae^{1,2}

¹*Dept. Otorhinolaryngology Head & Neck Surg, Guro Hosp, Korea University, College of Medicine, Republic of Korea*

²*Dept. Otorhinolaryngology, Korea University, College of Medicine*

FP16-3 Clinical analysis of inner ear disorders caused by acute otitis

Noriko Nagai¹, Yasuo Ogawa^{1,2}, Yuri Ueda^{1,3}, Akira Hagiwara¹, Sachie Kawaguchi^{1,3}, Atsushi Kawano¹, Mamoru Suzuki¹

¹*Department of Otolaryngology, Tokyo Medical University, Japan*

²*Department of Otolaryngology, Tokyo Medical University Hachioji Medical Center, Tokyo Japan*

³*Department of Otolaryngology, Kohsei Chuo General Hospital, Tokyo, Japan*

FP16-4 Effects of bomb blast injury to the ears: Aga Khan University Hospital experience

Talha Ahmed Qureshi, Mohammad Sohail Awan, Nabeel Hamayun Hassan

Section of Otolaryngology, Department of Surgery, Aga Khan University Hospital, Pakistan

FP16-5 ALPHA-MANNOSIDOSIS. HEARING AND MIDDLE EAR STATUS IN 35 CHILDREN AND ADOLESCENTS

Lars H. Nielsen¹, Thomas Hjuler¹, Line Borgwardt², Allan M. Lund², Christine I. Dali², Steen O. Olsen¹

¹*Department of Otolaryngology Head & Neck Surgery, University of Copenhagen, Denmark*

²*Dpt Paediatrics*

FP16-6 Hearing screening for school age children in 3 continents

Piotr Henryk Skarzynski¹, Piotr Henryk Skarzynski^{1,2,3}, Adam Pilka¹, Maciej Ludwikowski¹, Lukasz Olszewski¹, Krzysztof Kochanek¹, Henryk Skarzynski¹

¹*World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland*

²*Medical University of Warsaw, Warsaw, Poland*

³*Institute of Sensory Organs, Kajetany, Poland*

Free Papers 17: Implantable Hearing Aids 2

July 2 (Thur.) 17:15-18:15 Hall 5 (3F)

Chairs: John Martin Hempel, Nozomu Matsumoto

FP17-1 Are middle ear implants superior to bone-conduction devices in conductive/mixed hearing lossJef J.S. Mulder¹, Ad Snik², Jef Mulder², Jolien Desmet³, Griet Mertens³, Emmanuel Mylanus²¹Department of Otolaryngology Head & Neck Surgery, Radboud University Medical Center, Netherlands²Dept. of Otorhinolaryngology, Radboud University Medical Center, Nijmegen, the Netherlands³Dept. of Otorhinolaryngology, Head and Neck Surgery, Antwerp University Hospital, Belgium**FP17-2 Bonebridge implant in adults and children: computer assisted 3D planning and audiological outcome**Ingmar Seiwert¹, Florian Radetzki², Michael Herzog¹, Torsten Rahne¹, Stefan K. Plontke¹¹Department of Otorhinolaryngology, Head and Neck Surgery, Martin Luther University Halle-Wittenberg, Germany²Martin Luther University Halle-Wittenberg, Germany, Department of Orthopedics**FP17-3 Factors affecting attitudes towards loss of hearing loss and hearing aid/BAHA uptake**Naresh Durisala, Satya Vijay Reddy Medapati, Eu Chin Ho, Yeo Seng Beng

Department of ENT, Tan Tock Seng Hospital, Singapore

FP17-4 3rd Window Coupling of Vibrant Soundbridge - Artificial Vibration for Intracochlear Stimulation

Burkard Schwab, Franziska Münzel, Robert Schuon

Department of Otolaryngology Head & Neck Surgery, Medical University Hannover, Germany

FP17-5 Imaging after Bonebridge implantation bei Cone Beam CT, CT and MRIChristian Gueldner¹, Rainer Weiß¹, Benjamin Dassinger², Isabell Diogo¹, Jochen A. Werner¹¹Department of Otorhinolaryngology Head & Neck Surgery, University of Marburg, Germany²University of Gießen, Department of Neuroradiology**FP17-6 Outcomes after implantation middle ear implant MET**Piotr Henryk Skarzynski¹, Piotr Henryk Skarzynski^{1,2,3}, Lukasz Olszewski¹, Roman Barylyak¹, Andrzej Pastuszak¹, Henryk Skarzynski¹¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland²Medical University of Warsaw, Warsaw, Poland³Institute of Sensory Organs, Kajetany, Poland

Free Papers 18: Pediatric Cholesteatoma

July 2 (Thur.) 17:15-18:15 Hall 6 (3F)

Chairs: Kenneth H. Lee, Hiroshi Hidaka

FP18-1 CONGENITAL CHOLESTEATOMA- CLASSIFICATION AND SURGICAL MANAGEMENT

Vijayendra Honnurappa

Otology, PROF.J.NM.C - K.L.E University, Belgaum, Karnataka, India

FP18-2 Surgical intervention for pediatric cholesteatoma

Yukiko Iino, Akihiro Shinnabe, Mariko Hara, Masayo Hasegawa, Shingo Matsuzawa, Naohiro Yoshida

Department of Otolaryngology, Jichi Medical University Saitama Medical Center, Japan

FP18-3 A retrospective review of surgical success in pediatric compared to congenital cholesteatoma

Benjamin Loader, Daniel Uy, Oskar Seelmann, Peter Franz

Department of Otolaryngology Head & Neck Surgery, Rudolfstiftung Tertiary Teaching Hospital, Austria

FP18-4 Congenital cholesteatoma in Japanese patients: Early diagnosis and check up systems

Taeko Okuno, Yasutaka Kojima, Go Inokuchi, Yuko Hata

Division of Otolaryngology, Mitsui Memorial Hospital, Japan

FP18-5 Cholesteatoma in children long-term follow-up and outcomes in Romanian patients

Marcel Cosgarea, Violeta Necula, Alma Maniu

Otorhinolaryngology Department, Iuliu Hatieganu, University of Medicine, Romania

FP18-6 Pediatric cholesteatoma prone to recurrence after prior surgical intervention

Akihiro Shinnabe, Masayo Hasegawa, Mariko Hara, Shingo Matsuzawa, Naohiro Yoshida, Yukiko Iino

Department of Otorhinolaryngology, Jichi Medical University, Saitama Medical Center, Japan

Free Papers 19: Cholesteatoma 1

July 3 (Fri.) 9:30-10:40 Hall 5 (3F)

Chairs: Chin-Lung Kuo, Harukazu Hiraumi

FP19-1 Hearing outcome of the cartilage tympanoplasty for acquired cholesteatoma; middle term resultsKensaku Hasegawa¹, Yasuomi Kunimoto², Hiroaki Yazama², Junko Kuya²¹Department of Otolaryngology Head & Neck Surgery, Nippon Medical School, Japan²Tottori University**FP19-2 Prof. Keehyun Park's technique, 'Atticosinoplasty' is effective for early cholesteatoma management**

Yun-Hoon Choung, Hun Yi Park, Oak-Sung Choo, Jong-Joo Lee, Sang Young Hong

Department of Otolaryngology, Ajou University School of Medicine, Republic of Korea

FP19-3 Posterior Wall Reconstruction Using the Temporoparietal Fascia Flap After Canal Wall Down Technique

Shin-Ichi Haginomori, Takahiro Ichihara, Atsuko Mori, Atsuko Kanazawa, Akira Nishikado, Ryo Kawata

Department of Otolaryngology - Head & Neck Surgery, Osaka Medical College, Japan

FP19-4 EAC reconstruction/mastoid obliteration using modified Palva flap in canal wall down mastoidectomy

Ki-Hong Chang, Suh-Hyun Lee, Suh-Hee Jung, Dong-Hee Lee, Yong-Soo Park

Department of Otorhinolaryngology Head and Neck Surgery, College of Medicine, The Catholic University of Korea, Republic of Korea

FP19-5 Bony Obliteration Technique in Cholesteatoma Surgery. Results of 5 Year Follow-up in Adult and Pedia

Andrzej J. Zarowski, Joost van Dinther, Jean-Philippe Vercruyse, Thomas Somers, Erwin F. Offeciers

Department of ORL-HNS, European Institute for ORL-HNS, Belgium

FP19-6 Effect of polyglycolic acid sheets on epithelialization in canal wall-down tympanoplasty

Taisuke Kobayashi, Masahiro Komori, Masamitsu Hyodo

Otolaryngology, Kochi Medical School, Japan

FP19-7 Canal wall up tympanoplasty with tissue-engineered cell sheets transplantation

Kazuhiisa Yamamoto, Tsunetaro Morino, Manabu Komori, Takanori Hama, Yuichiro Yaguchi, Hiromi Kojima

Department of Otorhinolaryngology, Jikei University School of Medicine, Japan

Free Papers 20: Stapes Surgery

July 3 (Fri.) 9:30-10:30 Hall 6 (3F)

Chairs: Karin M. Strömbäck, Hideo Edamatsu

FP20-1 COMPARATIVE ANALYSIS OF PREOPERATIVE HRCT AND CBCT SCANS IN HISTOLOGICALLY DIAGNOSED STAPES FIXATIONBalázs Liktor¹, Bálint Liktor², Imre Gerlinger³, István Sziklai⁴, Tamás Karosi⁵¹Department of Otolaryngology and Head and Neck Surgery, B-A-Z County Hospital and University Hospital, Hungary²Bajcsy-Zsilinszky Hospital, Department of Otolaryngology and Head and Neck Surgery, Budapest, Hungary³University of Pécs, Clinical Center, Department of Otolaryngology and Head and Neck Surgery, Pcs, Hungary⁴University of Debrecen, Medical and Health Science Center, Department of Otolaryngology and Head and Neck Surgery, Debrecen, Hungary⁵B-A-Z County Hospital and University Hospital, Department of Otolaryngology and Head and Neck Surgery, Miskolc, Hungary**FP20-2 Withdrawal****FP20-3 Causes of failure in otosclerosis surgeries**Roman Barylyak¹, Henryk Skarzynski¹, Roman Barylyak¹, Beata Dziendziel¹, Bartłomiej Krol¹, Piotr Henryk Skarzynski^{1,2,3}¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland²Medical University of Warsaw, Warsaw, Poland³Institute of Sensory Organs, Kajetany, Poland**FP20-4 Surgical treatment of otosclerosis with limited air-bone gap**Roman Barylyak¹, Henryk Skarzynski¹, Marek Porowski¹, Roman Barylyak¹, Piotr Henryk Skarzynski^{1,2,3}¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland²Medical University of Warsaw, Warsaw, Poland³Institute of Sensory Organs, Kajetany, Poland**FP20-5 Stapedotomy in advanced pathology of the middle ear**Roman Barylyak¹, Henryk Skarzynski¹, Marek Porowski¹, Maciej Mrowka¹, Paulina Mlotkowska-Klimek¹, Piotr Henryk Skarzynski^{1,2,3}, Roman Barylyak¹, Lukasz Olszewski¹¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Poland²Medical University of Warsaw, Warsaw, Poland³Institute of Sensory Organs, Kajetany, Poland**FP20-6 Hearing results in otosclerosis surgery after total stapedoectomy and stapedotomy**Erdenechuluun Jargalkhuu¹, Bat Erdenechuluun¹, Makhbal Zaya²¹Department of Otolaryngology, Mongolian National University of Medical Science, Mongolia²Department of Otolaryngology, "EMJJ" Hospital**FP20-7 Surgical results of congenital stapes footplate fixation in Japan**

Masayuki Furukawa, Hiroko Okada, Katsuhisa Ikeda

Department of Otorhinolaryngology Head & Neck Surgery, Juntendo University, Japan

Free Papers 21: Cholesteatoma 2

July 3 (Fri.) 11:15-12:15 Hall 5 (3F)

Chairs: John Hamilton, Yasuo Mishiro

FP21-1 Bone destruction in chronic otitis media with cholesteatoma

Dragoslava Rade Djeric

*Clinic for Otorhinolaryngology, Medical Faculty University of Belgrade, Serbia***FP21-2 The efficacy of color mapped fusion images combined with CT scan in preoperatively evaluating the anatomical location of cholesteatomas using transcanal endoscopic ear surgery**Tomoo Watanabe¹, Tsukasa Ito¹, Takatoshi Furukawa¹, Kazunori Futai¹, Toshinori Kubota¹, Masafumi Kanoto², Yuuki Toyoguchi², Takaaki Hosoya², Seiji Kakehata¹¹*Department of Otolaryngology Head & Neck Surgery, Yamagata University Faculty of Medicine, Japan*²*Department of Diagnostic Radiology, Yamagata University Faculty of Medicine***FP21-3 Comparison of petromastoid pneumatization growth curves in normal ears and cholesteatoma**Shazia Peer¹, Adrian Lewis James^{1,2}, Jonathan Yip², Nikolaus Ernst Wolter², Blake Croll Papsin^{1,2}, Sharon Cushing^{1,2}¹*Department of Otolaryngology, Head & Neck Surgery, Hospital for Sick Children, Canada*²*Department of Otolaryngology, School of Medicine, University of Toronto, Canada***FP21-4 Growth of secondary cholesteatoma versus primary cholesteatoma (pars tensa retraction type)**

Hiromi Kanazawa, Hiroki Yamamoto, Akihiro Shinnabe, Naohiro Yoshida, Yukiko Iino

*Department of Otolaryngology, Jichi Medical University of Saitama Medical Center, Japan***FP21-5 Practicality analysis of staging criteria of cholesteatoma: a multicenter, retrospective study**Keiji Matsuda¹, Tetsuya Tono¹, Hiromi Kojima², Yutaka Yamamoto³, Masafumi Sakagami⁴, Yasuo Mishiro⁴, Yasuyuki Hinohira⁵, Taeko Okuno⁶¹*Department of Otorhinolaryngology-Head & Neck Surgery, University of Miyazaki, Japan*²*Jikei University School of Medicine*³*Niigata University Faculty of Medicine*⁴*Hyogo College of Medicine*⁵*Showa University School of Medicine*⁶*Mitsui Memorial Hospital***FP21-6 Surgical management for middle ear cholesteatoma according to the staging**Yasuyuki Hinohira¹, Takahiro Suzuki¹, Tomoaki Mori¹, Kojiro Hirano¹, Hitome Kobayashi², Masahiro Komori³, Naoaki Yanagihara⁴¹*Department of Otolaryngology, Showa University, Koto-Toyosu Hospital, Japan*²*Department of Otorhinolaryngology, Showa University School of Medicine*³*Department of Otolaryngology, Head & Neck Surgery, Kochi Medical University*⁴*Department of Otorhinolaryngology, Takanoko Hospital*

Free Papers 22: Middle Ear Anomaly

July 3 (Fri.) 11:15-12:05 Hall 6 (3F)

Chairs: An-Suey Shiao, Taeko Okuno

FP22-1 Clinical classification of middle ear anomaly: 109 cases in University of Miyazaki hospital

Takahiro Nakashima, Kei Kajihara, Haruka Nakanishi, Kouji Torihara, Keiji Matsuda, Tetsuya Tono
Department of Otolaryngology, Head and Neck Surgery, University of Miyazaki, Japan

FP22-2 Politzer Prize Nominee (PP-6)**FP22-3 Management of Congenital Ossicular Chain Malformation**

Han Yuechne¹, Xu Lei^{1,2}, Chen Dong^{1,2}, Li li^{1,2}, Fan Zhaomin^{1,2}, Wang Haibo^{1,2}
¹*Department of Ear Surgery, Eye & Ear Infirmary of Shandong Provincial Hospital Group, China*
²*Shandong Provincial Key Laboratory of Otology*

FP22-4 Stapes fixation accompanied with abnormal facial nerve pathway

Taro Inagaki, Atsushi Kawano, Yasuo Ogawa, Miho Shiromori, Yuri Ueda, Mamoru Suzuki
Department of Otolaryngology, Tokyo Medical University, Japan

FP22-5 A Case report on 9 years old male patient with Incus Hammer showing unilateral conductive hearing impairment

Hideyuki Kawauchi, Yasuhiko Shimizu, Noriaki Aoi, Ichiro Morikura, Takafumi Fuchiwaki, Michiko Shibata
Department of Otorhinolaryngology, Shimane University, Faculty of Medicine, Japan

FP22-6 Ossicular anomalies accompanied by congenital glaucoma in two generations

Kazuhiko Takeuchi¹, Masako Kitano¹, Hiroshi Sakaida¹, Sawako Masuda²
¹*Department of Otorhinolaryngology, Head and Neck Surgery, Mie University, Japan*
²*Mie National Hospital*

Free Papers 23: Auditory Neuropathy, Cochlear Nerve Deficiency

July 3 (Fri.) 14:15-14:55 Hall 5 (3F)

Chairs: Lee-Suk Kim, Tatsuo Matsunaga

FP23-1 Politzer Prize Nominee (PP-5)**FP23-2 MRI and functional study in cochlear nerve deficiency. Decision making for implantation**

Constantino Morera¹, Muñoz Noelia¹, Carlos de Paula¹, Fernando Mas², Cavalle Laura¹

¹Department of Otolaryngology Head & Neck Surgery, La Fe University Hospital, Valencia University, Spain

²MRI Department, ERESA, Valencia, Spain

FP23-3 Cochlear Nerve Deficiency in Paediatric Cochlear Implantation: St Thomas' Experience

Scott C. Maskell, Irumee Pai, Steve Connor, Marsha Jenkins, Katherine Wilson, Dan Jiang

St Thomas' Hearing Implant Centre, Guy's & St Thomas' NHS Foundation Trust, UK

FP23-4 Cochlear implantation in deaf children with narrow internal auditory canal

Lei Xu^{1,2,3}, Jianfen Luo^{1,2,3}, Yujie Song^{1,2,3}, Ruijie Wang^{1,2,3}, Zhaomin Fan^{1,2,3}

¹Department of Auditory Implantation, Eye & Ear Infirmary of Shandong Provincial Hospital Group, China

²Shandong Provincial Key Laboratory of Otology, Jinan, PR China

³Artificial Auditory Engineering Centre, Shandong

FP23-5 Clinical Characteristics and Outcomes of Children with Auditory Neuropathy

Yao Guang Leow, Woei Shyang Loh

Department of Otolaryngology Head & Neck Surgery, National University Hospital, Singapore

Free Papers 24: Otitis Media

July 3 (Fri.) 14:15-15:15 Hall 6 (3F)

Chairs: Hilary Brodie, Hirofumi Sakaguchi

FP24-1 Does Air Bone Gap Predict Ossicular Discontinuity in Chronic Otitis Media

Hassan Haidar Ahmad, Abdulsalam Alqahtani, Aisha Larem, Ali Elsaadi, Hassanen Abdulkarim, Rashid Sheikh, Sara Ashkanani

Otolaryngology Department of Hamad Medical Corporation, Doha-Qatar

FP24-2 PECULIARITIES OF MIDDLE EAR DISEASES AMONG POPULATION OF TAJIKISTAN

Dzhamol I. Kholmatov

Department of Otolaryngology, Avicenna Tajik State Medical University, Tajikistan

FP24-3 Evaluation of health related quality of life, anxiety and depression levels in children with CSOM

Metin Kiprit¹, Erdogan Ozgur¹, Evrim Unsal Tuna², Borte Gurbuz Ozgur³

¹*Clinic of Otorhinolaryngology Head & Neck Surgery, Nazilli State Hospital, Turkey*

²*Ankara Numune Training and Research Hospital*

³*Adnan Menderes University*

FP24-4 Otitis media with ANCA-associated vasculitis (OMAAV): A retrospective multicenter study in Japan -1) Clinical findings

Kan Kishibe¹, Kaori Tateyama², Yuka Morita³, Naohiro Yoshida⁴, Yukiko Iino⁴, Yasuaki Harabuchi¹,

O OMAAV Working Group of the Japan Otological Society⁵

¹*Department of Otolaryngology-Head and Neck Surgery, Asahikawa Medical University, Japan*

²*Oita University Faculty of Medicine*

³*Niigata University Faculty of Medicine*

⁴*Jichi Medical University Saitama Medical Center*

⁵*Japan Otological Society*

FP24-5 Otitis media with ANCA-associated vasculitis (OMAAV): a retrospective multi-center study in Japan -2) Clinical differences according to ANCAs-

Kaori Tateyama¹, Naohiro Yoshida², Kan Kishibe³, Yuka Morita⁴, Satoru Kodama¹, Masashi Suzuki¹, Yukiko Iino², Yasuaki Harabuchi³

¹*Department of Otolaryngology Head & Neck Surgery, Oita University, Japan*

²*Jichi Medical University Saitama Medical Center*

³*Asahikawa Medical University*

⁴*Niigata University*

FP24-6 Otitis media with ANCA-associated vasculitis (OMAAV): a retrospective multi-center study in Japan -3) Clinical differences according to initial and sequential involvements

Yuka Morita¹, Yasuaki Harabuchi², Naohiro Yoshida³, Kan Kishibe², Kaori Tateyama⁴, Yutaka Yamamoto¹,

Sugata Takahashi¹, Yukiko Iino³, O OMAAV Working Group of the Japan Otological Society⁵

¹*Department of Otolaryngology Head & Neck Surgery, Niigata University, Japan*

²*Asahikawa Medical University*

³*Jichi Medical University Saitama Medical Center*

⁴*Oita University Faculty of Medicine*

⁵*Japan Otological Society*

Free Papers 25: Sudden Sensorineural Hearing Loss

July 3 (Fri.) 16:00-17:00 Hall 5 (3F)

Chairs: Roberto Filipo, Hiroshi Yamashita**FP25-1 'Early' and 'Late' intratympanic injection as a salvage treatment for sudden hearing loss**

Dong Gu Hur, Seong-Ki Ahn, Jin-Yong Kim, Ho-Joong Lee

*Department of Otolaryngology Head & Neck Surgery, Gyeongsang National University, Republic of Korea***FP25-2 Needle study of the intratympanic injection**

Dong Gu Hur, Seong-Ki Ahn, Jin-Yong Kim, Hyeon-Mo Kang

*Department of Otolaryngology Head & Neck Surgery, Gyeongsang National University, Republic of Korea***FP25-3 Recommendation of amidotrizoate-test for therapeutic diagnosis of Stria vascular sudden deafness**Tamotsu Morimitsu¹, Koji Torihara², Masayuki Sadanaga³¹ENT, Miyazaki University Prof. Emir., Japan²Dep. ENT, Miyazaki Univ. Japan³Sadanaga ENT Clinic. Japan**FP25-4 Coagulation Markers and Outcome in Sudden Sensorineural Hearing Loss by Defibrinogenation Therapy**Ryohei Oya¹, Arata Horii², Hitoshi Akazawa³, Yasuhiro Osaki⁴, Hidenori Inohara⁵¹Department of Otolaryngology Head & Neck Surgery, Osaka National Hospital, Japan²Osaka National Hospital³Higashiosaka City General Hospital⁴Suita Municipal Hospital⁵Osaka University Graduate School of Medicine**FP25-5 Predicting SSNHL patients' glucocorticoid sensitivity by glucocorticoid proliferation inhibition**

Wandong She, Jie Hou, Yanhong Dai, Qiongqiong Zhou, Ye Yang

*Department of Otolaryngology Head & Neck Surgery, Nanjing Drum Tower Hospital, Medical School of Nanjing University, China***FP25-6 Idiopathic Sudden Sensorineural Hearing Loss in patient with Chronic Viral Hepatitis**Chin-Kuo Chen^{1,2}, Yi-Yun Chen³¹Otologic division/ Department of Otolaryngology Head & Neck Surgery, Chang Gung Memorial Hospital, Taoyuan, Taiwan²Chang Gung University, Taoyuan, Taiwan³Department of Medical education, Chang Gung Memorial Hospital, Chang Gung University College of Medicine, Taoyuan, Taiwan

Free Papers 26: Temporal Bone

July 3 (Fri.) 16:00-17:10 Hall 6 (3F)

Chairs: Vincent Cousins, Keiji Matsuda

FP26-1 Utility of three-dimensional cone-beam CT images for surgical decisions regarding reoperations

Masahiro Komori¹, Taisuke Kobayashi¹, Masamitsu Hyodo¹, Jun Hyodo², Naoaki Yanagihara²

¹Department of Otolaryngology, Kochi University, Japan

²Department of Otolaryngology, Takanoko Hospital

FP26-2 Role of CBCT in visualization of ear anatomy

Christian Gueldner, Rainer Weiß, Stephanie Draeger, Isabell Diogo, Jochen A. Werner

Department of Otorhinolaryngology Head & Neck Surgery, University of Marburg, Germany

FP26-3 Papercraft temporal bone in the first step education of the anatomy

Harukazu Hiraumi¹, Juichi Ito², Hiroaki Sato¹

¹Otolaryngology, Head & Neck Surgery, Iwate Medical University, Japan

²Kyoto University, Graduate School of Medicine

FP26-4 The tympanic bone in lateral skull base approaches: Implications for surgery

Uma Patnaik^{1,2}, Mario Sanna¹

¹Neurotology & Skull Base Surgery, Gruppo Otologico, Italy

²Army Hospital, Research & Referral

FP26-5 Revisit to the intratemporal facial nerve tumor

Kyoko Odagiri¹, Masashi Hamada^{1,2}, Momoko Tsukahara¹, Masahiro Iida¹, Hiroaki Nakatani², Taizo Takeda²

¹Department of Otolaryngology, Tokai University, School of Medicine, Japan

²Formerly Department of Otolaryngology, Kochi Medical School

FP26-6 Management for facial nerve schwannoma and functional outcome

Jun Yang, Huan Jia, Zhaoyan Wang, Qi Huang, Zhihua Zhang, Hao Wu

Department of Otolaryngology Head & Neck Surgery, Shanghai Jiaotong University School of Medicine, Xinhua Hospital, Ear Institute, China

FP26-7 EFFECT OF INSULIN LIKE GROWTH FACTOR -1 ON RECOVERY OF FACIAL NERVE CRUSH INJURY

Feda Bayrak¹, Yuksel Olgun², Ayla Ozbakan¹, Safiye Aktas², Ahmet Kulan^{1,3}, Gonca Kamaci², Emine Demir¹,

Osman Yilmaz², Levent Olgun¹

¹Department of Otolaryngology Head & Neck Surgery, Izmir Bozyaka Teaching and Research Hospital, Turkey

²Dokuz Eylul University, Izmir Turkey

³Izmir Bozyaka Teaching and Research Hospital, Department of Neurology

Posters

Posters

Exhibition Hall

P-01 Applications of biobanks in Otology

Maria Luisa Casas-Losada¹, Carmen Guerrero¹, Angel Rebolledo¹, Maria Carmen Molina¹, Jesus Molina¹, Isabel Demiguel²

¹BIOBANK UNIT, Fundación Hospital Alcorcón Biobank U. Madrid Spain, Spain

²HOSPITAL INSULAR DE GRAN CANARIA

P-02 Eagle's syndrome: neglected etiology of referred otalgia

Jeong Hwan Choi

Department of Otolaryngology Head & Neck Surgery, Inje University, Republic of Korea

P-03 Correlation between OMENS vs Jahrsdoerfer Grading Scale and CT temporal bone scores in craniofacial microsomia

Siripong Saelee¹, Suwicha Isaradisaiikul Kaewsiri¹, Pailin Kongmebhol², Krit Kwan-ngern³, Charuk Hanprasertpong¹

¹Department of Otolaryngology, Faculty of Medicine, Chiang Mai University, Thailand

²Department of Radiology, Faculty of Medicine, Chiang Mai University

³Department of Surgery, Faculty of Medicine, Chiang Mai University

P-04 Relapsing polychondritis involving multiple otorhinolaryngologic area

Se-Joon Oh, Eui-Kyung Goh, Soo-Keun Kong, Il-Woo Lee

Department of Otorhinolaryngology-Head and Neck Surgery, Pusan National University Hospital, Republic of Korea

P-05 Surgical treatment of external auditory canal cholesteatoma - ten years' clinical experience

Kuen-Yao Ho¹, Shih-Meng Tsai², Hsun-Mo Wang³, Chen-Yu Chien⁴, Ning-Chia Chang⁴

¹Department of Otolaryngology, Kaohsiung Medical University Hospital, Taiwan

²Kaohsiung Medical University

³Kaohsiung Municipal Ta-Tung Hospital

⁴Kaohsiung Municipal Hsiao-Kang Hospital

P-06 Multi-layered Reconstruction for Surgical Management in the External Auditory Canal Cholesteatoma

Masaya Konishi, Naomi Andou, Hideto Fukui, Susumu Baba, Hiroshi Iwai, Kouichi Tomoda

Department of Otolaryngology Head & Neck Surgery, Kansai Medical University, Japan

P-07 A new external auditory canal measurement method for use in transcanal endoscopic ear surgery

Toshinori Kubota, Tsukasa Ito, Tomoo Watanabe, Kazunori Futai, Takatoshi Furukawa, Seiji Kakehata

Department of Otolaryngology, Head and Neck Surgery, Yamagata University, Japan

P-08 Ventilation Tube Applicator for Patients with Otitis Media with Effusion

Chee Wee Gan¹, Hsueh Yee Lim¹, Wenyu Liang², Kok Kiong Tan², Sunan Huang², Le Phuong Pham²

¹Department of Otolaryngology - Head & Neck Surgery, National University Health System, Singapore

²Department of Electrical & Computer Engineering, National University of Singapore

P-09 Progression of Sensory Hearing Loss in Eosinophilic Otitis Media With Mucous Membrane Thickening

Yoshihiko Esu, Yukiko Iino, Naohiro Yoshida, Hiromi Kanazawa, Akihiro Shinnabe, Shingo Matsuzawa, Mariko Hara, Masayo Hasegawa

Department of Otolaryngology, Saitama Medical Center Jichi Medical University, Japan

P-10 Seven cases of otitis media with ANCA-associated vasculitis

Masahiro Okada, Hideo Ogawa, Daiki Takagi, Hiroyuki Yamada, Naohito Hato

Department of Otolaryngology, Head and Neck Surgery, Ehime University, Japan

P-11 Clinical characteristics of chronic perforated otitis media in different age groups

Masayo Hasegawa, Akihiro Shinnabe, Hiromi Kanazawa, Naohiro Yoshida, Yukiko Iino

Department of Otolaryngology, Jichi Medical University Saitama Medical Center, Japan

- P-12** **Assessment of Eustachian tube function in patients with perforated chronic otitis media**
Miki Ikehata, Shigeto Ohta, Yasuo Mishiro, Hirokazu Katsura, Masafumi Sakagami
Department of Otolaryngology Head & Neck Surgery, Hyogo College of Medicine, Japan
- P-13** **Endoscopic autologous cartilage injection for Patulous Eustachian tube**
Soo-Keun Kong, Eui-Kyung Goh, Se-Joon Oh, Il-Woo Lee
Department of Otorhinolaryngology-Head and Neck Surgery, Pusan National University Hospital, Republic of Korea
- P-14** **Eustachian tube mucosa's inflammation scale validation based on digital video images**
Ilkka Kivekäs^{1,4}, Leena Pöyhönen², Antti Aarnisalo³, Markus Rautiainen², Dennis Poe⁴
¹*Department of Otorhinolaryngology, Tampere University Hospital and the University of Tampere, Finland*
²*Department of Otorhinolaryngology, Tampere University Hospital and the University of Tampere, Tampere, Finland*
³*Department of Otorhinolaryngology, Helsinki University Central Hospital, Helsinki, Finland*
⁴*Department of Otolaryngology, Boston Children's Hospital and Harvard Medical School, Boston, USA*
- P-15** **Assesment of Postoperative Pain between Transcanal Endoscopic Ear Surgery and Microscopic Ear Surgery**
Takatoshi Furukawa, Tomoo Watanabe, Tsukasa Ito, Kazunori Futai, Toshinori Kubota, Seiji Kakehata
Department of Otolaryngology, Head and Neck Surgery, Yamagata University, Japan
- P-16** **Surgery in patients with otogenic meningitis and facial nerve monitoring report of two cases**
Stefan Mirchev¹, Alexandar Valkov¹, Tsetsa Doichinova², Radko Radev³, Galya Gancheva², Boris Duhlenki¹, Tsvetan Lukanov⁴, Nachko Totsev⁵, Lyubomir Tsankov⁵, Spase Poposki⁵
¹*Department of Otorhinolaryngology, Medical University - Pleven, Bulgaria, Bulgaria*
²*Department of Infectious Diseases, Epidemiology, Parasitology and Tropical Medicine*
³*Department of Anaesthesiology, Resuscitation and Care*
⁴*Department of Clinical laboratory, Clinical Immunology and Allergology*
⁵*Department of Roentgenologia and Radiologia*
- P-17** **Transcanal Endoscopic Ear Surgery in Children**
Tsukasa Ito, Toshinori Kubota, Tomoo Watanabe, Kazunori Futai, Takatoshi Furukawa, Seiji Kakehata
Department of Otolaryngology, Head & Neck Surgery, Yamagata University, Japan
- P-18** **The recurrence rate of attic or tensa retraction cholesteatoma in children after surgery**
Hirokazu Katsura, Yasuo Mishiro, Miki Ikehata, Masafumi Sakagami
Department of Otolaryngology, Hyogo College of Medicine, Japan
- P-19** **Surgical outcomes of 70 congenital chlesteatomas based on Potts staging system**
Yasuo Mishiro, Hirokazu Katsura, Miki Ikehata, Masafumi Sakagami
Department of Otolaryngology Head & Neck Surgery, Hyogo College of Medicine, Japan
- P-20** **Two cases of post-operative cholesteatoma**
Kazuma Sugahara, Hiroaki Shimogori, Hiroshi Yamashita
Department of Otolaryngology, Yamaguchi University Graduate of Medicine, Japan
- P-21** **A case of recurrent huge petrous apex cholesteatoma with difficult management**
Hideto Fukui¹, Masaya Konishi¹, Naomi Ando¹, Shinichi Yoshimura², Koichi Tomoda¹
¹*Department of Otolaryngology, Head & Neck Surger, Kansai Medical University, Japan*
²*Department of Neurosurgery, Kansai Medical University*
- P-22** **Cholesteatoma a rare complication of cochlear implant surgery: a case report**
Violeta Necula, Marcel Cosgarea
Otorhinolaryngology Department, "Iuliu Hatieganu" University of Medicine, Romania
- P-23** **Imaging analysis of sinonasal cavity in patients with chronic otitis media and cholesteatoma**
Yasuhiro Arai, Masahiro Takahashi, Naoko Sakuma, Daisuke Sano, Nobuhiko Oridate
Otorhinolaryngology, Head and Neck Surgery, Yokohama City University School of Medicine, Japan

- P-24** **Historical development of Ceromer and Adoro materials for ossicular chain reconstruction**
 Mario Milkov¹, Plamen Nedev², Ivan Tzenez³, Pavel Dimov⁴, Petar Ruev⁵
¹Prof. Paraskev Stoyanov Medical University of Varna, Bulgaria
²Medical University of Varna
³Medical University of Sofia
⁴Trakia University of Stara Zagora
⁵Ivan Rilski Hospital St. Zagora
- P-25** **The effectiveness of homologous costal cartilage in CWD mastoidectomy**
 Youngho Choi, Yong-beom Cho
 Department of Otolaryngology-Head and Neck Surgery, Chonnam National University Medical School, Republic of Korea
- P-26** **Palisade cartilage tympanoplasty: A systematic review and meta-analysis**
 Allan Thiam Ho^{1,2}, Caroline Jeffery¹, Nahla Gomaa¹, Cameron Shillington³
¹Division of Otolaryngology Head and Neck Surgery, University of Alberta, Canada
²Edmonton Ear Clinic, Edmonton, Canada
³University of Alberta, Canada
- P-27** **Usefulness of anterior-based periosteal (Palva) flap for obliteration of mastoid cavity in canal wall down mastoidectomy**
 Eui-Kyung Goh, Soo-Keun Kong, Se-Joon Oh, Il-Woo Lee, Moon Suh Park
 Department of Otorhinolaryngology-Head and Neck Surgery, Pusan National University Hospital, Republic of Korea
- P-28** **ANATOMICAL VARIATION OF THE SUPRATUBAL RECESS: A CONE-BEAM CT STUDY**
 Yusuke Yamada, Haruka Nakanishi, Takahiro Nakashima, Keiji Matsuda, Tetsuya Tono
 Department of Otolaryngology-Head and Neck Surgery, Miyazaki University, Japan
- P-29** **A new simple clinical scoring system classifying the tegmen of the mastoid: a radiological study**
 Allan Thiam Ho^{1,3}, Russell Murphy¹, Kate Greeff², Sherif Idris¹, Ravi Bhargava⁴
¹Division of Otolaryngology Head and Neck Surgery, University of Alberta, Canada
²University of Alberta, Canada
³Edmonton Ear Clinic, Alberta, Canada
⁴Department of Radiology, University of Alberta, Canada
- P-30** **The benefit of oblique sectional view after 3D reconstruction of temporal bone CT using personal computer**
 Sungsu Lee, Hyong-Ho Cho, Yong-Beom Cho
 Department of Otolaryngology - Head and Neck Surgery, Chonnam National University Hospital, Republic of Korea
- P-31** **Southeast Asian Otosclerosis: Radiological features and correlation with audiometry and surgical outcome**
 Jing-Yin Pang¹, Amit Karandikar², Julian Park Nam Goh², Seng Beng Yeo³, Heng Wai Yuen¹, Lu Hui Png¹,
 Jereme Yi Jin Gan³
¹Department of Otolaryngology Head & Neck Surgery, Changi General Hospital, Singapore
²Department of Radiology, Tan Tock Seng Hospital
³Department of Otolaryngology, Tan Tock Seng Hospital
- P-32** **Clinical analysis of auditory ossicular malformations**
 Hiroaki Shimogori, Kazuma Sugahara, Hiroshi Yamashita
 Department of Otolaryngology, Yamaguchi University, Japan
- P-33** **Two adult cases of cerebrospinal fluid-middle ear effusion**
 Tadao Yoshida, Ken Kato, Masaaki Teranishi, Michihiko Sone
 Department of Otorhinolaryngology, Nagoya University, Japan
- P-34** **Do eyeglasses and palatal prosthesis effect on results of Weber test?**
 Yavuz Atar, Ziya Salturk, Guler Berkiten, Tolgar Lutfi Kumral, Yavuz Uyar, Guven Yildirim, Imran Aydogdu,
 Mehmet Onder Dogan
 Department of Otorhinolaryngology, Okmeydani Training and Research Hospital, Turkey

P-35 A case of facioscapulohumeral muscular dystrophy showing bilateral hearing loss and bilateral facial palsy

Chong Sun Kim¹, So Young Kim², Yoon Joong Kim², Young Ho Kim²

¹Department of Otolaryngology-Head and Neck Surgery, Soree Ear Clinic, Republic of Korea

²Seoul National University College of Medicine, Seoul National University Boramae Medical Center

P-36 The follow up result of infants who referred unilaterally on the new born hearing screening test

Moo Jin Baek¹, Dong Geun Lee¹, Eui Kyeong Bang²

¹Department of Otolaryngology Head & Neck Surgery, Inje University Haeundae Paik Hospital, Republic of Korea

²Busan Veterans Hospital, Busan, Republic of Korea

P-37 Wildervanck Syndrome - case report

Cristian Martu¹, Sebastian Cozma^{1,2}, Dan Martu^{1,2}, Gabi Damean², Andra Tiris², Luminita Radulescu^{1,2}

¹Department of Otorhinolaryngology Head & Neck Surgery, University of Medicine and Pharmacy, Romania

²ENT Department, Clinical Rehabilitation Hospital, Iasi

P-38 Hearing loss related to MARVELD2 gene is not syndromic in human

Lukas Varga^{1,2}, Gowry Nayak³, Claire Trincot⁴, Mohsin Shahzad⁴, Penelope L. Friedman⁵, Iwar Klimes², John H. Greinwald Jr.³, S. Amer Riazuddin^{6,7}, Ivica Masindova², Milan Profant¹, Shaheen N. Khan⁶, Thomas B. Friedman⁸, Zubair M. Ahmed⁴, Daniela Gasperikova², Sheikh Riazuddin^{9,10}, Saima Riazuddin⁴

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⁸Laboratory of Molecular Genetics, National Institute On Deafness and Other Communication Disorders, Porter Neuroscience Research Center, National Institutes of Health, Bethesda, MD, USA

⁹Allama Iqbal Medical College-Jinnah Hospital Complex, University of Health Sciences, Lahore, Pakistan

¹⁰University of Lahore, Lahore, Pakistan

P-39 Identification of a novel mutation in the CHD7 gene in a patient with CHARGE association

Akira Ganaha¹, Tadashi Kaname², Teruyuki Higa¹, Ayano Shinjo¹, Mikio Suzuki¹

¹Department of Otorhinolaryngology, Head and Neck Surgery, University of the Ryukyus, Japan

²Department of Medical Genetics, University of the Ryukyus, Okinawa, Japan

P-40 Analysis of 69 hearing loss associated genes in adulthood-onset hearing loss patients using next generation sequencing

David Kunc¹, Petra Tvrda², Pavlina Plevova², Petr Vojta³, Eva Mrazkova¹, Dagmar Grecmalova², David Kunc¹

¹Department of Epidemiology and Public Health Protection, Medical Faculty, University of Ostrava, Czech Republic

²Department of Medical Genetics, University Hospital Ostrava, Czech Republic

³Institute of Molecular and Translation Medicine, Palacký University, Olomouc, Czech Republic

P-41 Bilateral hearing impairment as the initial symptom of sympathetic ophthalmia

Yoshiyuki Kawashima, Yoshihiro Noguchi, Masatoki Takahashi

Department of Otolaryngology, Tokyo Medical and Dental University, Japan

P-42 Severe-Profound Hearing Loss from Cryptococcus Meningitis with Spontaneous Recovery

Wei Li Neo¹, Eu Chin Ho², Naresh Durisala²

¹Yong Loo Lin School of Medicine, Singapore

²Tan Tock Seng Hospital

P-43 Postmeningitic cochlear fibrosis due to incomplete partition anomaly on the contralateral ear

Gamze Atay, Emel Tahir, Munir Demir Bajin, Levent Sennaroğlu

Department of Otolaryngology, Hacettepe University, Turkey

P-44 The Role of Aceytlcarnitine Against Ototoxicity due to Cisplatin and Radiotherapy: Nrf2 and Targets

Zekiye Altun¹, Ayca Pamukoglu¹, Yuksel Olgun², Safiye Aktas¹, Pinar Ercetin¹, Oguz Cetinayak¹, Gunay Kirkim², Enis Alpin Guneri², Levent Olgun³, Nur Olgun¹

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²Dokuz Eylul University School of Medicine

³Izmir Bozyaka Teaching and Research Hospital

P-45 Ototoxicity of cisplatin and trials of its reduction, experiences of our laboratoryKen-ichi Watanabe¹, Shigeo Ohta², Kimihiro Ohkubo¹, Olaf Michel³¹Dept. of Otolaryngology Head and Neck Surgery, Nippon Medical School, Japan²Dept. of Biochemistry and Cell Biology, Institute of Development and Aging Science, Graduate School of Medicine, Nippon Medical School, Kanagawa, Japan³Dept. of ENT, Universitair Ziekenhuis, Brussel, Belgium**P-46 Utility of WHODAS 2.0 (Quality of Life Assessment) in detecting Changes in Quality of Life in Hearing Disability**

Eu Chin Ho, Warren Ming Wu Ong, Kexin Li, Hanyu Zhang, Qi Zhang, Satya Vijay Reddy Medapati

Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore

P-47 Hearing loss and Hearing Handicap Inventory, role of smoking

Eva Mrazkova, Martina Matejkova, Kristyna Vojkova, Petra Sachova, Hana Tomaskova, Jana Povova, Vladimir Janout, Petr Ambroz, Jakub Sichnarek, Michaela Harabovcinova, Evald Zathurecky, Jana Stavova, Alena Prokopova, Jan Schnirch, Pavel Rafcik, Pavlina Plevova

Department of Epidemiology and Public Health Protection, Medical Faculty, University of Ostrava, Czech Republic

P-48 The Association of Insulin Resistance and Metabolic Syndrome with Age- Related Hearing LossNing-Chia Chang^{1,2,3,4}, Chen-Yu Chien^{1,3}, Meng-Hsuan Hsieh^{4,5}, Wen-Yi Lin², Kuen-Yao Ho⁶¹Department of Otolaryngology, Kaohsiung Medical University, Taiwan²Department of Occupational Medicine, Kaohsiung Municipal Hsiao-Kang Hospital, Kaohsiung, Taiwan³Department of Otorhinolaryngology, Kaohsiung Municipal Hsiao-Kang Hospital, Kaohsiung, Taiwan⁴Department of Internal Medicine, School of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan⁵Department of Preventive Medicine, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan⁶Department of Otorhinolaryngology, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan**P-49 Metabolic Syndrome Increases The Risk of Sudden Sensorineural Hearing Loss in Taiwan**Chen-Yu Chien^{1,2,3,4}, Ning-Chia Chang^{1,2,3}, Hsun-Mo Wang³, Kuen-Yao Ho^{2,3,4}¹Department of Otorhinolaryngology, Kaohsiung Municipal Hsiao-Kang Hospital, Taiwan²Department of Otorhinolaryngology, Kaohsiung Medical University³Department of Otorhinolaryngology, Kaohsiung Medical University Hospital⁴Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University**P-50 Expression of Toll-Like Receptor Genes in Leukocytes of Patients with Sudden Sensorineural Hearing Loss**Chao-Hui Yang^{1,2}, Chung-Feng Hwang¹, Ming-Yu Yang², Pai-Mei Lin³, Jinn-Haur Chuang^{2,4}¹Division of Otolaryngology, Department of Otolaryngology, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan²Graduate Institute of Clinical Medical Sciences, Chang Gung University College of Medicine, Taiwan³Department of Nursing, I-Shou University, Kaohsiung, Taiwan⁴Division of Pediatric Surgery, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan**P-51 The Efficacy of Varied Oral Steroid Doses on the Treatment of Sudden Sensorineural Hearing Loss**Hsun-Mo Wang¹, Chen-Lin Liu², Kuen-Yao Ho², Chen-Yu Chien³, Ning-Chia Chang³¹Department of Otolaryngology, Kaohsiung Municipal Ta-Tung Hospital, Taiwan²Kaohsiung Medical University Hospital³Kaohsiung Municipal Hsiao-Kang Hospital**P-52 Repetitive systemic steroid therapy as salvage treatment for sudden sensorineural hearing loss**

Kazunori Igarashi, Tadashi Wakayama, Joji Mineda, Makoto Takehisa, Takashi Mumo, Kenshi Takata, Masashi Murakami, Ken Ito

Department of Otolaryngology Head & Neck Surgery, Teikyo University, Japan

P-53 Amidotrizoate therapy for sudden hearing loss

Koji Torihara, Shinji Fukudome, Takahiro Nakashima, Eiji Kato, Keiji Matsuda, Tetsuya Tono

Department of Otolaryngology Head & Neck Surgery, University of Miyazaki, Japan

P-54 Relationship of intra-annual distribution of sudden hearing loss versus meteorological parametersSung Il Cho¹, Yeon Hoo Kim¹, Cha Kyung Youn²¹Department of Otolaryngology-Head and Neck Surgery, Chosun University, Republic of Korea²Division of Natural Medical Sciences, Chosun University

- P-55** **Impact of Better Contralateral Hearing on Sudden Deafness: from the Perspective on Tinnitus**
Ho Yun Lee, Ji Chan Kim
Department of Otolaryngology Head & Neck Surgery, Eulji University, Republic of Korea
- P-56** **Temperament and character traits in patients with tinnitus**
Jae ho Chung, Moo Keon Kim, Youn Il Jang, Kyung Rae Kim, Chol Won Park, Seung Hwan Lee
Department of Otolaryngology Head & Neck Surgery, Hanyang University, Republic of Korea
- P-57** **Pulsatile Tinnitus Secondary to a Dural Arteriovenous Fistula**
Il-Woo Lee, Eui-Kyung Goh, Soo-Keun Kong, Se-Joon Oh
Department of Otorhinolaryngology-Head and Neck Surgery, Pusan National University Hospital, Republic of Korea
- P-58** **13 Year Review of First-time Hearing Aid Users from a Singapore Tertiary General Hospital**
Eu Chin Ho, Warren Ming Wu Ong, Kexin Li, Hanyu Zhang, Satya Vijay Reddy Medapati
Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-59** **Factors Affecting Hearing Aid Satisfaction in a Singapore Population**
Eu Chin Ho, Hanyu Zhang, Warren Ong, Kexin Li, Satya Vijay Reddy Medapati
Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-60** **Factors That Affect the Degree of Hearing Loss at Presentation and Hearing Aid Usage**
Eu Chin Ho, Hanyu Zhang, Kexin Li, Warren Ong, Satya Vijay Reddy Medapati
Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-61** **Changing Profile of First-time Hearing Aid Users Over the past decade**
Eu Chin Ho, Kexin Li, Warren Ming Wu Ong, Hanyu Zhang
Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-62** **Prevalence and reasons for defaulting hearing aid clinic in a tertiary care centre**
Shirish Johari¹, Lisa Lim², Vijay Reddy³, Yaw Khian Chong¹
¹*Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore*
²*National University of Singapore, Singapore*
³*Audiology Division of the ENT Department, Tan Tock Seng Hospital, Singapore*
- P-63** **Value of Hearing Questionnaire in Predicting Hearing Impairment**
Eu Chin Ho, Warren Ong, Hanyu Zhang, Kexin Li, Ee Chong Tan, Jiesheng Li
Department of Otolaryngology Head & Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-64** **Utility of Self-Perception of Hearing Loss in Predicting Hearing Impairment**
Eu Chin Ho, Warren Ming Wu Ong, Hanyu Zhang, Kexin Li, Zhang Qi
Department of Otolaryngology Head and Neck Surgery, Tan Tock Seng Hospital, Singapore
- P-65** **Pharmacological action of steroids on spiral nerve axon of the cochlea: a hypothesis based on basic and clinical evidence**
Yukihide Maeda, Kazunori Nishizaki
Department of Otolaryngology-, Head and Neck Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan
- P-66** **Temporal control of the endocochlear potential by optogenetics in mice**
Mitsuo Sato^{1,4}, Fumiaki Nin¹, Satoru Uetsuka^{1,2}, Takamasa Yoshida^{1,3}, Sizuo Komune³, Hidenori Inohara², Katsumi Doi⁴, Hirohide Takebayashi⁵, Kenji Tanaka⁶, Hiroshi Hibino¹
¹*Department of Molecular Physiology, Niigata University School of Medicine, Japan*
²*Department of Otorhinolaryngology - Head and Neck Surgery, Graduate School of Medicine, Osaka University*
³*Department of Otorhinolaryngology, Graduate School of Medical Sciences, Kyushu University*
⁴*Department of Otorhinolaryngology - Head and Neck Surgery, Graduate School of Medicine, Kinki University*
⁵*Division of Neurobiology and Anatomy, Graduate School of Medicine and Dental Sciences, Niigata University*
⁶*Department of Neuropsychiatry, School of Medicine, Keio University*

- P-67 Evaluation of Hearing and Speech Thresholds in Cochlear Implant Users**
Selim Unsal^{1,2}, Mehmet Gunduz^{1,2}, Elife Barmak², Ceyda Sel^{1,2}, Ahmet Akkoz^{1,2}, Nebi Mustafa Gumus², Asuman Erdogan^{1,2}
¹Otolaryngology Head and Neck Surgery, Turgut Ozal University Medical School, Turkey
²Department of Audiology and Speech Disorders, Institute of Health Sciences, Turgut Ozal University
- P-68 Usher Syndrome Type 3 (USH3) patients with Cochlear Implant**
Hilla Levo, Riitta Saarinen
Dep ENT, Helsinki University Hospital, Finland
- P-69 The new classification of cochleovestibular malformations**
Lee-Suk Kim, Sung-Wook Jeong
Department of Otolaryngology Head & Neck Surgery, Dong-A University, Republic of Korea
- P-70 Cochlear implantation in the patient with congenital muscular dystrophy**
Shin Kariya, Yuko Kataoka, Yukihide Maeda, Ryotaro Omichi, Akiko Sugaya, Kazunori Nishizaki
Department of Otolaryngology Head & Neck Surgery, Okayama University, Japan
- P-71 Criteria for selecting an optimal device for the contralateral ear of children with a unilateral cochlear implant**
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- P-72 Investigations into candidates with severe high-frequency hearing loss for cochlear implantation of electric acoustic stimulation (EAS)**
Toshizo Koizumi, Kazuya Saito, Ko Shiraishi, Takaaki Kobayashi, Toru Seo, Michio Isono, Katsumi Doi
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- P-73 Clinical anatomy of mastoid emissary vein for bone work of implantation**
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- P-74 fMRI as diagnostic tool for patients with indications to partial deafness treatment (PDT)**
Henryk Skarzynski¹, Piotr Henryk Slarzynski^{1,2,3}, Marek Porowski¹, Andrzej Pastuszek¹, Anna Stepień¹, Henryk Skarzynski¹
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- P-75 Guided Auditory Neuron Growth on Topographically Modified Nanocrystalline Diamond**
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- P-76 A new animal model for intratympanic treatment**
Bulent K. Aykal¹, Fazıl N. Ardic¹, Funda Tumkaya¹, Emin Erdem²
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- P-77 Idiopathic benign paroxysmal positional vertigo: a long-term follow-up study**
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- P-78 Analysis of dizzy patients with high depression and anxiety index**
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Corrective saccades in positive video head impulse test (vHIT)

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The symptoms and prognosis of traumatic pneumolabyrinth by air location

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Implantation of ventilation tubes for Meniere's disease

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Clinical characteristics of acute vestibular neuritis according to the involvement site

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Analysis of 250 PLF suspected cases using CTP detection test

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Perilymphatic fistula due to Penetrating middle ear injury

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Clinical aspects of auditory and vestibular symptoms according to the course of temporal bone fracture lines

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Corticosteroids and antiviral Treatment for Bell's Palsy

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Longitudinal Change of VZV Specific Cell-Mediated Immunity in Hunt Syndrome and Bell's Palsy

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Study of automatic calculation and standardization of facial nerve palsy grading

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Usefulness of Individual Evaluation Items in the Yanagihara Grading System

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B-Cell Lymphoma of the Temporal bone A rare presentation

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P-91 Efficacy of concurrent superselective intra-arterial chemotherapy and radiotherapy for late-stage squamous cell carcinoma of the temporal bone

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P-92 Hematogeneous renal cell carcinoma metastasis in the post operative middle ear

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P-93 Osteoid osteoma of the temporal bone manifesting only as first-bite syndrome and systematic review

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P-94 Multi-variables on Music Perception in Adult Cochlear Implant Recipients

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