

7th International Symposium on
Meniere's Disease
and **Inner Ear Disorders**

ROME ITALY October, 17th-20th, 2015
AUDITORIUM ANTONIANUM - Viale Manzoni, 1 - Roma

SATURDAY OCTOBER 17, 2015

12.00-14.00 **Registration**

AUDITORIUM

14.30-15.00 **MiniSymposium: Antisecretory Factor - a clinical innovation in Ménière's disease?**
(with the unconditional contribution from POA Pharmaceuticals, Sweden)

Moderator: J.G. Bruhn (Tomelilla, Sweden)

14.30-14.35 Antisecretory factor and medical foods - novel therapy concepts
J.G Bruhn (Tomelilla, Sweden)

14.35-14.45 Antisecretory factor-inducing therapy improves patient-reported functional levels in Ménière's disease
S.C. Leong, **T.H. Lesser** (Liverpool, UK)

14.45-14.55 SPC Flakes in prophylaxis of Ménière's disease
R. Teggi, V. Marcelli (Milano, Italy)

15.15-16.45 **MiniSymposium: BPPV – can we manage all with repositioning maneuvers?**
(under the auspices of Vestibular Academy International)

Moderator: N. Ozgirgin (Ankara, Turkey)

15.15-15.25 Introduction
N. Ozgirgin (Ankara, Turkey)

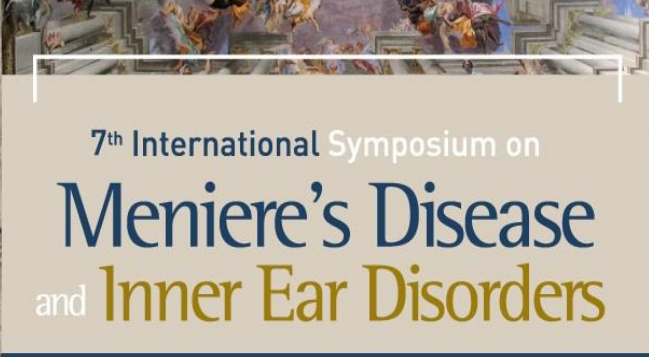
15.25-15.40 Pathophysiology of BPPV. What happens to outlets in the SSC in long term if not repositioned
M. Kameswaran (Chennai, India)

15.40-15.55 Is there any place of Medical treatment in BPPV. How much vitamin D levels affect?
E. Alpin Guneri (Izmir, Turkey)

15.55-16.10 Posterior canal involvement. Why does it occur so often. How is it diagnosed and treated
M. Mandalá (Siena, Italy)

16.10-16.25 Lateral SSC apogeotropic nystagmus. What is the difficulty in it? Why do new manoeuvres come out. What is the best treatment
D. Nuti (Siena, Italy)

16.25-16.40 Are the canalith repositioning manoeuvres effectively treat BPPV once? What to do following the manoeuvre? Are there any



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precautions to be instructed the patient? When should we consider surgery ?

V. Darrouzet (Bordeaux, France)

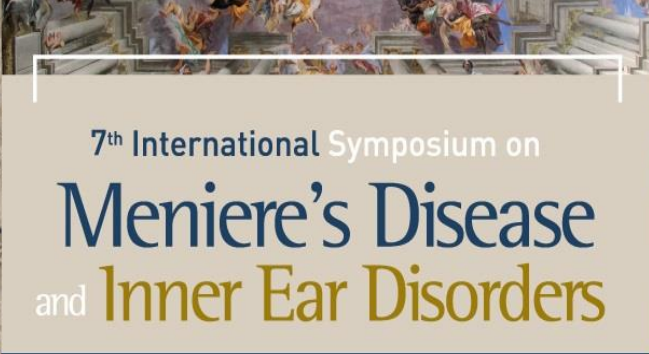
17.00-18.30 **Opening Ceremony**

17.45-18.30 Opening Lecture: Meniere's Disease (Etiology, Pathogenesis, Pathology and Symptoms)

M.M. Paparella (Minneapolis, USA)

19.00-21.30 **Welcome Cocktail** (Palazzo Brancaccio)

19.30-19.45 Vertigo: from Daedalus to Meniere
D. Lippi (Florence, Italy)



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SUNDAY OCTOBER 18, 2015

AUDITORIUM

08.00-08.10 Introductory Message
M. Barbara (Rome, Italy)

08.10-08.25 **Keynote Lecture 1**

Moderator: M. Barbara (Rome, Italy)

The history of Ménière's Symposium
D.J. Lim (Los Angeles, USA)

08.30-09.30 **Human Pathological Findings**

Moderators: B. Hussl (Innsbruck, Austria), M.M. Paparella (Minneapolis, USA)

08.30-08.43 The Histopathology of Meniere's Disease: Observations from the
Temporal Bone Collection at the Massachusetts Eye and Ear
Infirmary
M. McKenna, J.B. Nadol (Boston, USA)

08.45-08.58 Ultrastructure and Immunohistochemistry of the Human Inner Ear
Relevant for Ménières Disease
A. Schrott-Fischer, W. Liu, R. Glueckert, H. Rask-Andersen
(Innsbruck, Austria/Uppsala, Sweden)

09.00-09.13 Clinical significance of Bast's valve
A. Belal (Alexandria, Egypt)

09.15-09.28 Role of human ES in the pathogenesis of Ménière's disease: human
temporal bone study
F.H. Linthicum, **D.J. Lim** (Los Angeles, USA)

09.30-09.50 **Keynote Lecture 2**

Moderators: R. Filipo (Rome, Italy), A. Belal (Alexandria, Egypt)

Cochlear proteomics of fluid and ion transport
A.F. Ryan (San Diego, USA)

10.00-10.13 Gentamicin Distribution in the Ear Following Local Applications
A.N. Salt, F.B. Kraus, E.B. King, S.K. Plontke (St. Louis, USA/Halle,
Germany)

10.15-10.28 Drug delivery via the oval window



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S. O'Leary, E. King, J. Fallon, D. Brown, A.N. Salt (Melbourne, Australia/St. Louis, USA)

10.30-11.00



11.00-11.20 **Keynote Lecture 3**

Moderators: S. O'Leary (Melbourne, Australia), A. Schrott-Fischer (Innsbruck, Austria)

Human Endolymphatic Duct System, Transepithelial Water Channels and Cochlear Ultrastructure

H. Rask-Andersen, W. Liu (Uppsala, Sweden)

11.30-11.38 The fine structure of the blood- perilymph barrier under normal, experimental and pathological conditions. An overview
K. Jahnke, D. Arweiler-Harbeck (Essen, Germany)

11.40-11.48 The blood perilymph barrier is vulnerable to systemic inflammation but is minimally affected by cochlear macrophages
K. Hirose, S-Z Lee, J. Hartsock, A.N. Salt (St Louis, USA)

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12.00-13.15 **The function of the endolymphatic sac**

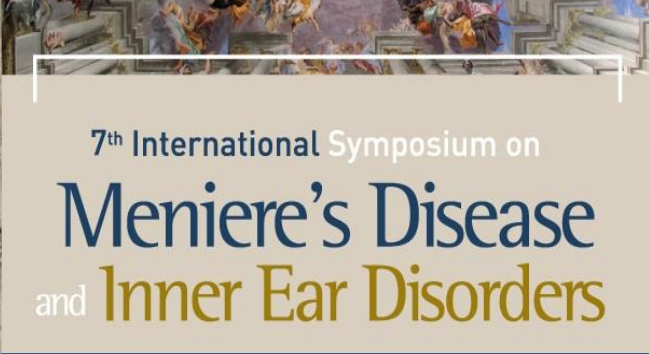
Moderator: D.J. Lim (Los Angeles, USA)

12.05-12.15 A new murine model for Ménière's disease - vasopressin induced endolymphatic hydrops
M. Takumida, Y Katagiri, M. Anniko (Hiroshima, Japan; Uppsala, Sweden)

12.20-12.30 Ultrastructure and gene expression in the human endolymphatic sac – novel evidence of multiple functions

MN Møller, S Kirkeby, K Qvortrup, J Vikeså, FC Nielsen, **P. Caye-Thomasen** (Copenhagen, Denmark)

12.35-12.45 Ion transport in the endolymphatic sac epithelial cells on the basis of experimental animal researches
N. Mori, T. Miyashita (Osaka, Japan)



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- 12.50-13.00 Potassium secretion via apical multiple potassium channels in human endolymphatic sac epithelium
S.H. Kim, B.G. Kim, J.Y. Kim, J.S. Jung, J.Y. Choi (Seoul, Korea)
- 13.05-13.15 Meniere's Disease histopathological analysis: novel ultrastructural, molecular and MRI findings
G. Ishiyama, I. Lopez, **A. Ishiyama** (Los Angeles, USA)

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11.50-13.25 Regeneration, Proteomics and Genetics

Moderators: **F. Mammano** (Rome, Italy), **JA Lopez-Escamez** (Granada, Spain)

- 11.50-12.03 Histological and functional analysis of xenograft stem cells of the inner ear of mice in the guinea pig cochlea-induced hearing loss
R. Bento (San Paolo, Brazil)
- 12.05-12.18 Characterization and gene expression profile of an induced pluripotent stem cell model for familial Meniere's disease
S. Cabrera, A-R Ji, V. Ramos-Mejia, T. Romero, L. Frejo, P. Real, J. A. Lopez-Escamez (Granada, Spain)
- 12.20-12.33 Confocal imaging of stimulus-independent action potential activity in the developing cochlea.
F. Ceriani, S. Johnson, W. Marcotti, **F. Mammano** (Rome, Italy-UK)
- 12.35-12.43 HES-1 and coup-TFI SHRNA knocking down give rises to new hair cells and supporting cells in organ of Corti organotypic culture
J. Oiticica, AC Batissoco, K. Lezirovitz, MM Bissoli, D. Zanatta, B. Strauss, RC Mingroni-Neto, L. Haddad, RF Bento (San Paolo, Brazil)
- 12.45-12.53 Heterozygous mutations in DTNA and FAM136A genes in familial Meniere's disease
J.A. Lopez Escamez (Granada, Spain)
- 12.55-13.03 A proteomics based approach in Ménière Disease
E. Cassandro, C. Petrolo, **G. Cuda**, A. Scarpa, G. Sequino, G. Chiarella (Catanzaro/Salerno, Italy)
- 13.05-13.13 Role of oxidative stress in the cochlear damage in acquired sensorineural hearing loss: animal model lesson
A.R. Fetoni, F. Paciello, R. Rolesi, S. Eramo, D. Troiani, G. Paludetti (Rome, Italy)
- 13.15-13.23 Altered chromogranin-A circulating levels in Ménière's disease
R. Teggi, B. Colombo, M. Trimarchi, M. Bianco, A. Manfredi, M. Bussi, A. Corti (Milano, Italy)



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13.30-14.20 **SYMPOSIUM ON ELECTRICAL VESTIBULAR STIMULATION**
(with the unconditional contribution from Medel, Innsbruck, Austria)

Moderator: H. Rask-Andersen (Uppsala, Sweden)

13.30-13.40 High Resolution Micro CT Scanning of the Human Labyrinth to Assess Anatomical Variability for a Vestibular Electrode Design
R. Gluckert, L. Johnson Chacko, M. Goesmann, S. Handschuh, A. Schrott-Fischer (Innsbruck, Vienna, Austria)

13.40-13.50 Vestibular implant for sensory restoration – Candidacy and Epidemiology
B.K. Ward, D.Q. Sun, Y.R. Semenov, C.C. Della Santina (Baltimore, USA)

13.50-14.00 The vestibular implant: towards a clinically useful device
R. van de Berg, N. Guinand, JP. Guyot, R. Stokroos, H. Kingma, A. Perez-Fornos (Maastricht, The Netherlands; Geneve, Switzerland; Tomsk, Russia)

14.00-14.10 12 years of development in the human
J.P. Guyot (Geneve, Switzerland)

14.10-14.20 Discussion

PRESS ROOM

13.30-14.20 **Business Meeting (by invitation only)**

AUDITORIUM

14.30-14.50 **Keynote Lecture 4**

Moderator: A. Ryan (San Diego, USA)

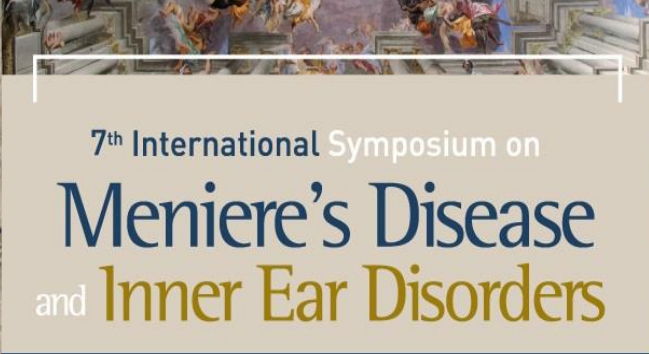
Regenerative medicine for the inner ear
J. Ito (Kyoto, Japan)

15.00-16.30 **Audiological Diagnostics**

Moderators: R. Urquiza (Malaga, Spain), E. Cassandro (Salerno, Italy)

15.00-15.13 On the use of depletion tests
E. Covelli, S. Monini, M. Barbara (Rome, Italy)

15.15-15.28 Sensitivity of electrocochleography vs. otoacoustic emissions to disrupted cochlear homeostasis in Menière patients
P. Avan, Y. Pavier, T. Mom, **F. Giraudet** (Clermont Ferrand, France)



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- 15.30-15.43 Use of multifrequency admittanceometry associated to glycerol test to assess hydrops – Normative values in healthy subjects
V. Franco-Vidal, D. Bonnard, J. Nodimar, V. Darrouzet (Bordeaux, France)
- 15.45-15.58 Sensitivity and Specificity of ECoChG, VNG, VEMP, and Rotary Chair in the Diagnosis of Meniere's disease
J. Ferraro (Overland Park, USA)
- 16.00-16.13 Electrocochleography and vestibular evoked myogenic potential in Meniere's disease
S. Dabiri Satri, N. Yazdani, P. Abolhasani, B. Amirzagar, N. Rezazadeh (Tehran, Iran)
- 16.15-16.28 Retrospective evaluation of hydrops diagnostic on Menière's Disease
T. Lenarz (Hannover, Germany)

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15.00-16.30 Vestibular Diagnostics

Moderators: **A. Bozorg-Grayely** (Caen, France), **D. Nuti** (Siena, Italy)

- 15.00-15.13 Ocular and cervical vestibular-evoked myogenic potentials to air conducted sound and bone conducted vibration in Ménière's Disease
L. Manzari, A.M. Burgess, H. MacDougall, I.S. Curthoys (Cassino, Italy/Sydney, Australia)
- 15.15-15.28 Vestibular evoked myogenic potentials in Ménière's disease
O. Çelik, **B. Şerbetçioğlu**, G. Eskiizmir (Istanbul, Turkey)
- 15.30-15.43 Ocular (o-VEMP) and Cervical (c-VEMP) VEMPs in Patients with "Clinically Certain" Meniere's Disease
S. McIlhinney, G. O'Beirne, J. Gourley, **J. Hornibrook** (Christchurch, New Zealand)
- 15.45-15.58 Normal video head impulse test with abnormal caloric irrigation test in definite Ménière's disease: a potential new criteria for diagnosis ?
F. Rubin, **R. Kania**, B. Verrillaud, C. Hautefort, P. Herman (Paris, France)
- 16.00-16.13 Instrumental Assessment in Menière's Disease: Which Role for video Head Impulse Test?
A.P. Casani, N. Cerchiai, E. Navari (Pisa, Italy)
- 16.15-16.28 Ocular VEMP findings in patients with Ménière's disease
F. Kocyigit, B. Mutlu, Y. Olgun, S. Mungan Durankaya, E. Alpin

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Guneri, G. Kirkim

(Izmir, Turkey)

16.30-17.00



AUDITORIUM

17.00-18.30 **Imaging**

Moderators: A. Pirodda (Bologna, Italy), B. Fraysse (Toulouse, France)

17.00-17.13 A reappraisal of Menière's disease supported by variable latency of symptoms and MRI visualization of the endolymphatic hydrops

I. Pyykkö, J. Zou, T. Nakashima, **T. Yoshida**, S. Naganawa

(Tampere,

Finland/Nagoya, Japan)

17.15-17.23 Endolymphatic hydrops in patients with unilateral and bilateral Meniere's Disease

K. Morimoto, T. Yoshida, M. Sone, M. Teranishi, S. Naganawa, M. Kato, S. Sugiura, K. Kato, T. Nakashima (Nagoya, Japan)

17.25-17.33 MRI evaluation of endolymphatic hydrops and clinical applications for surgical management

M. Sone, T. Yoshida, T. Mukaida, M. Teranishi, T. Nakashima, S. Naganawa (Nagoya, Japan)

17.35-17.43 MR Imaging of Inner Ear Endo-perilymphatic Spaces at 3 Tesla after Intratympanic Contrast Agent Administration in Definite Meniere's Disease

S. Salice, A. Tartaro, G. Filograna Pignatelli, A. Pacella, F. Cazzato, G. Neri (Chieti, Italy)

17.45-17.53 MRI Inner Ear Imaging and Tone Burst Electrocochleography in the Diagnosis of Meniere's Disease

J. Hornibrook, E. Flook, S. Greig, M. Babbage, T. Goh, M. Coates, R. Care, P. Bird (Christchurch, New Zealand)

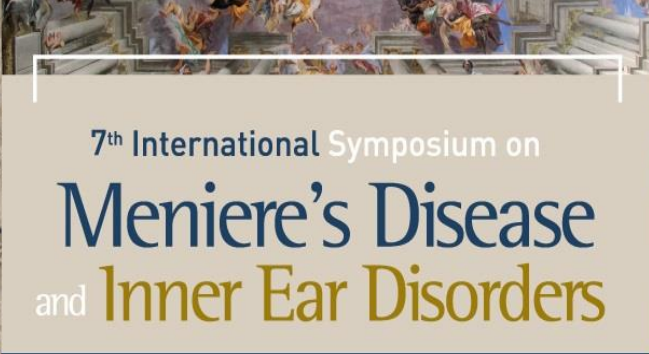
17.55-18.03 Imaging of endolymphatic space in patients with Meniere's disease and non-otological diseases

T. Yoshida, M. Sone, K. Morimoto, S. Naganawa, T. Nakashima (Nagoya, Japan)

18.05-18.13 Hydrops MRI-Impact on Meniere's disease.

K. Orimoto, S. O'Leary (Sydney, Australia)

18.15-18.23 Endolymphatic space size in patients with vestibular migraine and Meniere's disease



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T. Nakada, T. Yoshida, K. Suga, M. Kato, H. Otake, K. Kato, M. Teranishi, M. Sone, S. Sugiura, K. Kuno, I. Pyykko, S. Naganawa, H. Watanabe, G. Sobue, T. Nakashima, (Nagoya, Japan)

18.30-19.30 Symposium " Intratympanic dexamethasone as a treatment for Ménière's disease" (with the unconditional contribution from Otonomy inc., USA)

Moderator: J. Phillips (Norwich, UK)

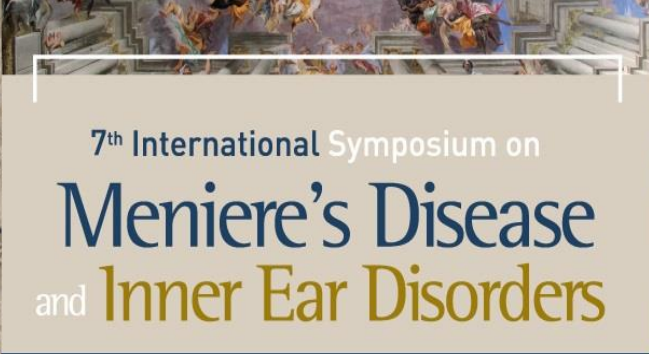
- 18.30-18.43 Intratympanic dexamethasone as a treatment for Ménière's disease
J. Phillips (Norwich, UK)
- 18.45-18.58 Perilymph pharmacokinetics of glucocorticosteroids after intratympanic, intracochlear, and intralabyrinthine delivery
S. Plontke, A. Salt (Halle, Germany; St. Louis, USA)
- 19.00-19.13 Results from a Phase 2b Clinical Trial to Assess the Safety and Efficacy of Extended-Release Dexamethasone Thermosensitive Gel for Intratympanic Administration in Subjects with Ménière's Disease
P. Lambert, C. LeBel (Charleston-San Diego, USA)
- 19.15-19.28 Discussion

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17.00-18.30 Diagnostics

Moderators: L. Saim (Kuala Lumpur, Malaysia), D. Djeric (Beograd, Serbia)

- 17.00-17.08 Effects of body tilt on multifrequency admittance tympanometry.
V. Franco-Vidal, D. Bonnard, J. Nodimar, V. Darrouzet (Bordeaux, France)
- 17.10-17.18 Predictive value of ECoChG in offspring/siblings of individuals with Ménière's disease
J.A. Ferraro (Kansas City, USA)
- 17.20-17.28 Glycerol test: a critical look at its physiological effect
K. Pawlak-Osińska, H. Kaźmierczak, A. Chrząstek (Bydgoszcz, Poland)
- 17.30-17.38 Clinical application of the threshold equalizing noise test in patients with Ménière's disease: a preliminary study
J.E. Choi, S.H. Hong, Y-S Cho, I.J. Moon, W-H Chung (Seoul, Korea)
- 17.40-17.48 ECoChG, VEMPs and HIT: role and effects on pressure treatment for Ménière's disease



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L. Volpini, E. Covelli, S. Tarentini, V. Marrone, A.T. Benincasa, S. Monini, M. Barbara (Rome, Italy)

17.50-17.58 The interactive GPS System for diagnosis of vertigo

A. Belal (Alexandria, Egypt)

18.00-18.08 Prevalence and features of inferior vestibular neuritis

R. Glatre, **R. Kania**, B. Verillaud, C. Domange, P. Herman, C. Hautefort (Paris, France)

18.10-18.18 The short form of the dizziness handicap inventory: is it comparable with the original one ?

F.N. Ardiç, F. Tümkaya (Denizli, Turkey)

18.30-19.30 Endolymphatic Hydrops

Moderators: **K. Jahnke** (Essen, Germany), **G. Paludetti**, (Rome, Italy)

18.30-18.38 Hormonal regulation of potassium in the inner ear, a new explanation of Ménière's crisis

F. Manach, S. Viengchareun, I. Lema, E. Ferrary, M. Lombès, J. Nevoux, Le Kremlin-Bicêtre (Paris, France)

18.40-18.48 Imaging Fluid Dynamics in the Hydropic Ear with Light Sheet Fluorescence Microscopy

D.J. Brown, L. Van Roon, C.L. Southwell, C.S. Pastras, I.S. Curthoys (Sidney, Australia; Utrecht, Netherlands)

18.50-18.58 Meniere disease and endolymphatic hydrops

C.A. Oliveira (Brasilia, Brazil)

19.00-19.08 Are there NO news about the cochlear hydrops?

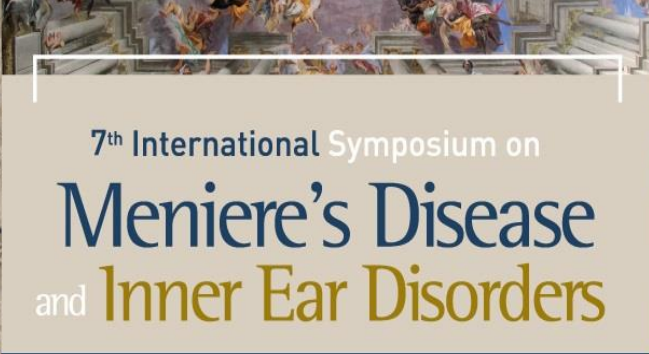
O. Michel, A. Hess, J. Su, D. Labbé, W. Blocj (Brussels, Belgium)

19.10-19.18 Anterior membranous labyrinth hydrops

S. Ferrara, F. Martines, P. Ferrara (Palermo, Italy)

19.20-19.28 Oxidative Stress, Redox Homeostasis and Cellular Stress

A. Serra, S. Cocuzza, P. di Mauro, L. Maiolino (Catania, Italy)



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AUDITORIUM

08.00-08.20 **Keynote Lecture 5**

Moderators: J. Ito (Kyoto, Japan), F. Ottaviani (Rome, Italy)

Immune-mediated Meniere's disease

J. Veldman (Utrecht, Netherlands)

08.30-09.30 **Immune system and Ménière's disease**

08.30-08.43 Local treatment of immune-mediated hearing loss by anti-TNF alpha drugs

P. Lefebvre, S. Barriat, F. Van Wijck (Liege, Belgium)

08.45-08.53 A locus in chromosome 6p21.33 associated with bilateral sensorineural hearing loss may define immuno-mediated variant in Meniere's disease

JA Lopez Escamez, S. Cabrera, T. Requena, C. Martín-Sierra, L. Frejo, A. Batuecas, J.M. Espinosa-Sanchez (Granada, Spain)

08.55-09.03 Neutrophil-to-lymphocyte ratio and platelet to lymphocyte ratio in patients with acute Meniere's Disease

V. Squeo, D'Ambruoso P.T., **N. Quaranta** (Bari, Italy)

09.05-09.13 Autoimmunity as a Candidate for the Etiopathogenesis of Meniere's Disease: Detection of Autoimmune Reactions and Diagnostic Biomarker Candidate

J. Jung, J.Y. Kim, H.J. Lee, M. Gi, B.G. Kim, J.Y. Choi, S.H. Kim (Seoul, Korea)

09.15-09.23 Experience of immunological aspects of Ménière's disease

A. Nacci, **J. Matteucci**, B. Fattori, S.O. Romeo, S. Berrettini (Pisa, Italy)

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08.30-09.30 **Barany Symposium: From mouse models to classification of Mb Ménière**

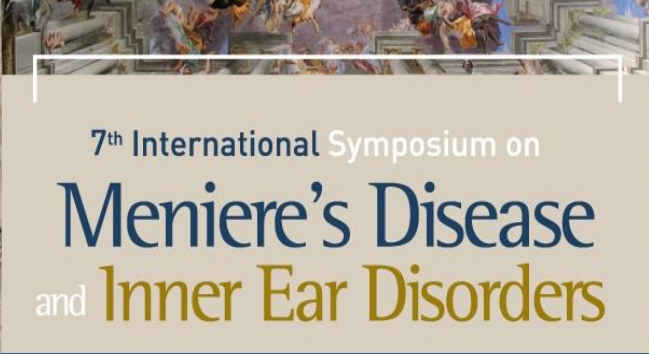
Moderator: **G. Laurell** (Uppsala, Sweden)

08.30-08.40 The regenerating inner ear

H. Rask-Andersen (Uppsala, Sweden)

08.45-08.55 Experimental induced hydrops - in vivo studies in mice

M. Magnusson (Lund, Sweden)



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- 09.00-09.10 IT therapy for MD
S. Plontke (Halle, Germany)
09.15-09.25 Classification of Mb Meniere, a progress report
J.A. Lopez-Escamez (Granada, Spain)

AUDITORIUM

09.30-09.50 **Keynote Lecture 6**

Moderators: PP Lefebvre (Liege, Belgium), R. Albera (Turin, Italy)

Cerebral venous insufficiency in Ménière's disease

R. Filipo (Rome, Italy)

10.00-10.08 Chronic cerebro-spinal venous insufficiency in Meniere's Disease:
Diagnosis and Endovascular Treatment after 24-month follow-up
L. Califano, A. Bruno, G. Attanasio, F. Ciciariello, M. Viccaro, E. Covelli, E. Masci, L. Cagnoni, D. Mastrangelo, F. Salafia, V. Giugliano, B. Bernardo (Benevento, Rome, Italy)

10.10-10.18 Idiopathic sudden sensorineural hearing loss and Ménière's
syndrome: the role of cerebral venous drainage
N. Quaranta, V. De Ceglie, M. Damiani, M.M. Ciccone (Bari, Italy)

10.20-10.28 Endovascular Treatment of Vertigo Caused by Jugular Bulb
Abnormalities
M. Hitier, L.M. Roussel, M. Humbert, S. Moreau, P. Courtheoux, V. Patron (Caen, France)

SAN FRANCESCO HALL

10.00-10.30 **VESTIBULAR MIGRAINE**

Moderators: B. Ceranic (London, UK), M. Anniko (Uppsala, Sweden)

10.00-10.08 Vertiginous migraine and Ménière's disease
CA Oliveira, RL Bezerra, C. Messias, F. Bahmad jr. (Brasilia, Brazil)

10.10-10.18 Vestibular Migraine in an Otolaryngology Clinic: Prevalence,
Associated Symptoms, and Prophylactic Medication Effectiveness
A. Van Ombergen, V. van Rompey, P. Van de Heyning, **F.I. Wuyts**
(Antwerp, Belgium)

10.20.10.28 Vestibular assessment in Meniere's disease and Migraine



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B. Cakir, O. Yilmaz, H. Turkey)

Dizdar, Y. Bayazit (Istanbul,

10.30-11.00



AUDITORIUM

11.00-12.15 Japanese Society of Equilibrium Research (JSER) Symposium


Moderator: M. Suzuki (Tokyo, Japan)

- 11.00-11.15 Introduction
M. Suzuki (Tokyo, Japan)
- 11.15-11.30 Epidemiological characteristics of Meniere's disease in Japan
H. Shojaku, Y. Watanabe, H. Takakura, M. Tsubota (Toyama, Tokyo, Tokushima, Japan)
- 11.30-11.45 Diagnosis 1: Diagnostic standard for Meniere's disease based on the clinical guideline of the disease in Japan
Y. Watanabe (Toyama, Japan)
- 11.45-12.00 Diagnosis 2: Diagnosis of endolymphatic hydrops using 3T MRI in patients with Meniere's disease
S. Usami, H. Yoshimura, H. Fukuoka, K. Tsukada (Matsumoto, Japan)
- 12.00-12.15 Overview of the treatment of Meniere's disease in Japan
I. Koizuka (Kawasaki, Japan)

12.30-13.20 VESTIBULAR REHABILITATION

Moderators: L. Duckert (Seattle, USA), D. Cuda (Piacenza, Italy)

- 12.30-12.43 Principles of long-term vestibular rehabilitation
M. Lacour (Marseille, France)
- 12.45-12.53 Role of perineuronal nets in vestibular compensation
F. Dagna, A. Albera, D. Carulli, A. Faralli, F. Rossi, P. Giordano, R. Albera (Turin, Italy)
- 12.55-13.03 Development of vestibular rehabilitation platform using immersive virtual reality system
S.K. Hong, CG Song, HJ Jeon (Seoul, Korea)
- 13.05-13.13 Reduction of time constant by a novel vestibular habituation: Possibility as a potent countermeasure for treatment of patients with motion sickness
S.K. Hong, **H.J. Lee**, H.J. Kim (Chuncheon, Korea)



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11.00-12.30 SUDDEN HEARING LOSS & PERILYMPHATIC FISTULA & OTOTOXICITY

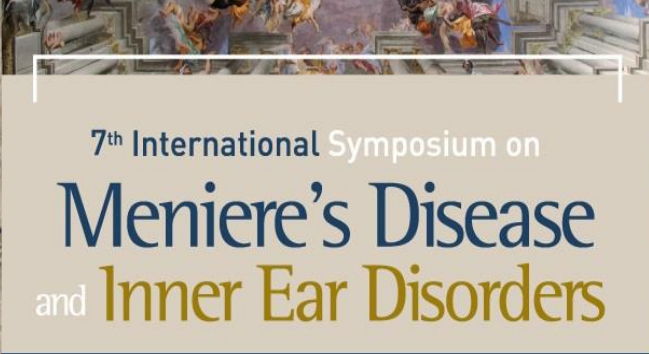
Moderators: M. Fabiani (Rome, Italy), N. Perez (Pamplona, Spain)

- 11.00-11.08 Otoacoustic emissions in sudden sensorineural hearing loss
A. Shupak, R. Zeidan, R. Shemesh (Haifa, Israel)
- 11.10-11.18 MRI findings and compliance to perform MRI in patients with SSNHL
R. Khniefes, N. Yehudai, S. Masud, M. Luntz (Haifa, Israel)
- 11.20-11.28 Effect of the hearing level of nonaffected ear and severity of acute hearing loss in patient with unilateral sudden deafness from the perspective of tinnitus
L. Cvorovic (Beograd, Serbia)
- 11.30-11.38 Long term transtympanic steroid treatment results in patients with acute cochlear hearing loss
M. Durmusoglu, Y. Olgun, E. Dogan, M.A. Kozen, E.A. Guneri (Izmir, Turkey)
- 11.40-11.48 The Spontaneous Perilymph Fistula Conundrum - Do we finally have an answer?
A.K. Gadre, I. Edwards, C. Rutledge-Roof (Louisville, USA)
- 11.50-11.58 Chronic disequilibrium as main symptom of bilateral perilymph fistula
- case presentation
N. Arsovic, D. Pavlovic (Beograd, Serbia)
- 12.00-12.08 Intratympanic dexamethasone: potential in the prevention of cisplatin ototoxicity
A. Shupak, T. Marshak, L. Levi, M. Steiner (Haifa, Israel)
- 12.10-12.18 Analysis of genetic and non genetic risk factors for cisplatin ototoxicity in pediatric patients
Y. Olgun, S. Aktaş, G. Kırkım, D. Çakır Kızmazoğlu, A. Pınar Erçetin, B. Demir, D. İnce, K. Mutafoğlu, B. Demirağ, H. Ellidokuz, N. Olgun, E.A. Guneri (Izmir, Turkey)

12.30-13.20 DEHISCENCE SYNDROME

Moderators: M. McKenna (Boston, USA), M. Fusetti (L'Aquila, Italy)

- 12.30-12.43 Otic Capsule Dehiscence Syndrome: Longitudinal Cognitive and Neurobehavioral Functional Outcomes Before and After Repair
P.A. Wackym, C.D. Balaban, H.T. Mackay (Pittsburg, USA)
- 12.45-12.53 Trans-mastoid repair of superior semicircular canal dehiscence
T. Somers, Y. C. Zhao, J. Husseman, J. van Dinther, R. Vanspauwen, R. Briggs (Antwerp, Belgium / Melbourne, Australia)
- 12.55-13.03 Semicircular canal malformations: clinical and instrumental findings
C. Brandolini, **A. Castellucci**, G. Piras, A. Pirodda (Bologna, Italy)



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- 13.05-13.13 Ocular vestibular evoked myogenic potentials to high frequencies show semicircular canal dehiscence
L. Manzari, AM Burgess, H. MacDougall, IS Curthoys (Cassino, Italy/Sydney, Australia)
- 13.15-13.23 Hearing outcome after transmastoid semicircular canal plugging
V. Van Rompaey, G. Van Haesendonck, P. Van de Heyning (Antwerp, Belgium)

AUDITORIUM

- 13.30-14.20 **"Controversial aspects of the clinical studies on the use of betahistine in Ménière's disease".**
(with the unconditional contribution from BGP Products srl, Italy)

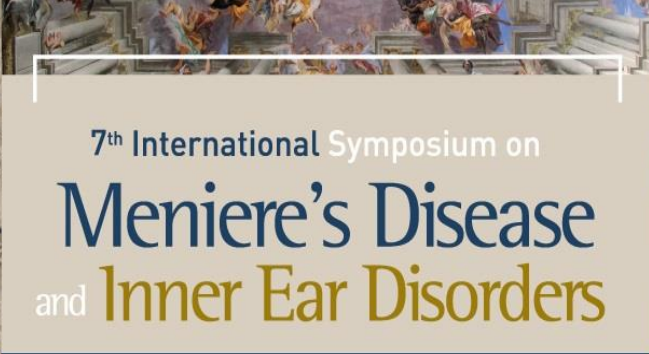
Moderator: **M. Barbara** (Rome, Italy)

- 13.30-13.40 Epidemiology, statistics and research design
R. Schoenhuber (Bozen, Italy)
- 13.40-13.50 MD patients in the acute stage
A. Casani (Pisa, Italy)
- 13.50-14.00 MD patients in the intercritic stage
N. Ozgirgin (Ankara, Turkey)
- 14.00-14.10 MD patients under rehabilitation
M. Lacour (Marseille, France)
- 14.10-14.25 Discussion

14.30-15.20 IT GENTAMYCIN TREATMENT

Moderators: **A. Shupak** (Haifa, Israel), **L. Manzari** (Cassino, Italy)

- 14.30-14.38 Intratympanic gentamicin for definitive treatment of Meniere's disease: a series of 105 patients
G. Russo, R. Grassia, F. Mosca, C. A. Leone (Naples, Italy)
- 14.40-14.48 Hearing loss following intratympanic gentamicin
D. Kaplan (Omer, Israel)
- 14.50-14.58 Intratympanic gentamicin treatment. How to control therapeutic effects ? How to respect otolith and cochlear function ?
P. Lorin, M. Donnard (Le Mans, France)
- 15.00-15.08 Long term vestibular function evolution after gentamicin intra tympanic injection
MJ Esteve Fraysse, S. Nicolas, A. Weckel, B. Lepage, M Marx, **B Fraysse** (Toulouse, France)
- 15.10-15.18 Monitoring of chemical labyrinthectomy by gentamicin



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injection assessed by video head impulse test and VEMPs in patients suffering from Meniere disease resistant to medical therapies.

C. de Waele, E. Chiarovano, G. Lamas, C. Magnani, H. MacDougall, I. Curthoys (Paris, France/Sydney, Australia)

SAN FRANCESCO HALL

14.30-15.20

BPPV

Moderators: **D. Bernardeschi** (Paris, France), **N. Quaranta** (Bari, Italy)

14.30-14.38 Spontaneous inversion of nystagmus without a positional change in the horizontal canal variant of benign paroxysmal positional vertigo

Y. Ogawa, A. Ichimura, K. Otsuka, A. Hagiwara, T. Inagaki, S. Shimizu, N. Nagai, S. Itani, M. Suzuki (Tokyo, Japan)

14.40-14.48 The effects of hearing dysfunction in BPPV patients

T. Inagaki, Y. Ogawa, K. Otsuka, N. Nagai, S. Itani, M. Suzuki (Tokyo, Japan)

14.50-14.58 Impact of cupulolithiasis on patients' well being

A. Abid, R. Yousef, **T. Tomanovic** (Stockholm, Sweden)

15.00-15.08 New theory of BPPV pathology "crisolithiasis" - Otoconia attached to the crista ampullaris-

K. Otsuka, M. Shiromori, M. Suzuki, U. Konomi, T. Inagaki, S. Simizu, N. Nagai, Y. Ogawa (Tokyo, Japan)

15.10-15.18: Benign Paroxysmal Positional Vertigo Prevalence in Meniere's Disease: Is Meniere's Disease a Predisposing Factor?

S. Nemati, A. S. Alia, M. Motasaddi-Zarandi, R. Panahi, M. Akbari (Rasht, Tehran, Iran)

AUDITORIUM

15.30-16.30

IT STEROID TREATMENT

Moderators: **R. Laszig** (Hannover, Germany), **C.A. Leone** (Naples, Italy)

15.30-15.43 Dependence of Hearing Improvement on the Dose of Intratympanically Applied Glucocorticoids: A Meta-Analysis Using Mathematical Simulations of Clinical Drug Delivery Protocols

S. Plontke, A. Liebau, O. Pogorzelski, A.N. Salt (Halle, Germany/St Louis, USA)

15.45-15.53 Glucocorticoids stimulate endolymphatic water reabsorption in inner ear

J. Nevoux, S. Viengchareun, I. Lema, AL Lecoq, M. Lombes,



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- 15.55-16.03 F. Ferrary (Paris, France)
 Comparison of Intra-Tympanic Steroid Therapy Protocols for Meniere's disease between Centers in Three Mediterranean Countries
R. Perez, S. Battelino, A. Incesulu (Jerusalem, Israel/ Ljubljana, Slovenia/Meselik-Eskisehir Turkey)
- 16.05-16.13 Evaluation of long term effect of intratympanic dexamethoson therapy (ITD) in Menière's Disease (MD)
C. Candraia, A. Lehner, M. Gartner, T. Linder (Luzern, Switzerland)
- 16.15-16.28 Intra-tympanic dexamethasone in the treatment of disabling vertigo in Meniere Disease
J.J. Wazen (Sarasota, USA)

SAN FRANCESCO HALL

15.30-16.30

CLINICAL ISSUES 1

Moderators: P. Sannikorn (Bangkok, Thailand), S. Berrettini (Pisa, Italy)

15.30-15.38 Idiopathic acute labyrinthine diseases and Meniere disease: the necessity of a multidisciplinary approach.

A. Pirodda, C. Brandolini, C. Borghi (Bologna, Italy)

15.40-15.48 Ménière's disease symptomatology in relation to the 1995 AAO-HNS

R. Albera, I Bin, **C. Cassandro**, A. Albera, A. Canale, J. Colombini, FC Gervasio (Turin, Italy)

15.50-15.58 Gluten sensitivity and Ménière's disease

F. Di Bernardino, D. Soi, D. Alpini, E. Filipponi, A. Cesarani (Milano, Italy)

16.00-16.08 The social impact of Ménière's disease: the role of different treatment strategies

D. Nuti, M. Mandalà (Siena, Italy)

16.10-16.18 The natural history of Ménière's disease: a systematic review

J. Bewick, D. Hoare, J. Phillips (Norwich, Nottingham, UK)

16.20-16.28 High frequency deafness with vestibular episodic syndrome

E. Martin-Sanz, J. Esteban, R. Sanz (Madrid, Spain)

16.30-17.00





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AUDITORIUM

17.00-18.40

CLINICAL ISSUES 2

Moderators: T. Somers (Antwerp, Belgium), A. Serra (Catania, Italy)

17.00-17.13 Vestibular Implant, a new approach to bilateral vestibular dysfunction

A. Ramos, A. Krahl, M. Manrique, E. Offeciers, A. Zarowski, N. Perez, J. Benitez, M. Killian)

17.15-17.28 Meniere's Disease: what can we learn from vestibular implants

J.T. Rubinstein, J.O. Phillips, L. Ling, K. Nie (Seattle, USA)

17.30-17.38 Subjective Visual Vertical in Bilateral Vestibular Loss Role of Proprioception

M. Toupet, C. Van Nechel, U. Duquesne, C. Hautefort, S. Heuschen, Alexis Bozorg Grayeli (Dijon, France)

17.40-17.48 Subjective visual vertical and horizontal in the Indian Population

G.A. Amit, K. Tyagi, A.M. Augustine, **A. Lepcha**, A. Bairaj (Vellore, India)

17.50-17.58 Selective window application of gentamicin in Ménière's disease

F.N. Ardiç, F. Tümkaya, K. Aykal, B. Çabuk (Denizli, Turkey)

18.00-18.08 Improving diagnostics in patients with vestibular paroxysmia to treat them in an earlier phase of illness

B. Ihtijarevic, **V. Van Rompaey**, P. van den Heyning, F. Wuyts (Antwerp, Belgium)

18.10-18.18 Unilateral Meniere disease with bilateral hearing loss

H. Lindahl, C. Strömberg, **T. Tomanovic** (Stockholm, Sweden)

18.20-18.28 The relationship between the cerebrospinal fluids and perilymph. New findings in RMI after intratympanic administration of gadolinium

G. Neri, F. Cazzato, A. Di Tano, A. Pacella, G. Filograna Pignatelli, S. Salice, A. Tartaro (Chieti, Italy)

18.30-18.38 A comparison of neurotological and psychometric test results in Ménière's disease and phobic postural vertigo

L. Nimroda, L. Kise, M. Nimroda (Riga, Latvia)

SAN FRANCESCO HALL

17.00-18.40

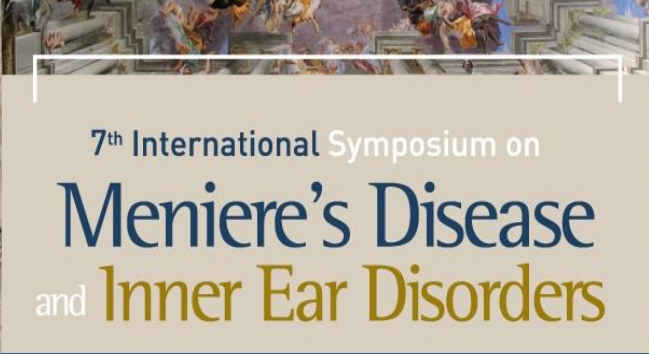
CLINICAL ISSUES 3



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- Moderators: J. Veldman (Utrecht, Netherlands), D. Zanetti (Milano, Italy)
- 17.00-17.08: eHealth in Meniere's disorder improves quality of life when medical therapy is not enough
I. Pyykkö, Hi. Levo, J. Rasku, V. Manchaiah, **E. Kentala**, Tampere, Finland; Beaumont, USA)
- 17.10-17.18 Alternative medicine and non-invasive therapies for the treatment of Ménière's disease
M. Lauriello, I. Salvi, L. Crosta, M. Fusetti (L'Aquila, Italy)
- 17.20-17.28 Reduction of vertigo symptomatology with chronic use of weak asymmetric base-in prism spectacles (WABIPS) in Vestibular Migraine patients
E. Vente, D. Zambrano (Alphen a/d Rijn, Lekkerkerk, Netherlands)
- 17.30-17.38 Cervical Specific Protocol and Results for 300 Meniere's Disease Patients Followed for a Minimum of Five Years
M.T. Burcon (Grand Rapids, USA)
- 17.40-17.48 Intratympanic gentamicin/dexametasone versus gentamicin alone in Ménière's disease
D. Nuti, M. Mandalà (Siena, Italy)
- 17.50-17.58 Management of Ménière's disease: our experience
O. Zemirli, A. Mouzali, M.Z. Sadi, K. Ouennoughi, M.S. Haraoubia (Algiers, Algeria)
- 18.00-18.08 Usage of vasoactive therapy in cases of moderate to severe hearing disorders
D. Rancic (Niš, Serbia)
- 18.10-18.18: Comparative evaluation of the effect of the Meniett™ device in patients with Menière's disease
D. Bernardeschi, E. Ferrary, D. Bouccara, O. Sterkers (Paris, France)
- 18.20-18.28 Intratympanic Gentamicin for Meniere's Disease: Short- and Long-term Follow-up of Two Regimens of Treatment
A.P. Casani, N. Cerchiai, E. Navari (Pisa, Italy)
- 18.30-18.38: Long-term results of intratympanic gentamicin in the treatment of Meniere Disease
J.J. Wazen (Sarasota, USA)



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TUESDAY OCTOBER 20, 2015

AUDITORIUM

08.00-09.00

SAC SURGERY

Moderators: P.A. Wackym (Pittsburg, USA), R. Kania (Paris, France)

08.00-08.13 Sac surgery for treatment of Meniere Disease

R. Bento (San Paolo, Brazil)

08.15-08.28 Osteoplastic refinement in ES surgery

R.A. Bly, L.G. Duckert (Seattle, USA)

08.30-08.43 Endolymphatic duct blockage: a new era in the treatment of
Ménière disease

I. Saliba, N. Gabri, M-H Asmar, D. Berbiche (Montreal,
Canada)

08.45-08.58 Endolymphatic Sac Revision Surgery

M.M. Paparella (Minneapolis, USA)

09.00-10.00

PANEL: WHICH SURGICAL TREATMENT, IF ANY, FOR MENIERE'S DISEASE ?

Moderator: P. Tran Ba Huy (Paris, France)

Participants:

Endolymphatic Sac surgery- Why we need it...

V. Darrouzet (Bordeaux, France)

Ménière's disease; Still indications for sac surgery ?

P. Moller (Bergen, Norway)

Endolymphatic sac surgery for patients with Ménière's disease-long-term
results after primary and revision surgery

S. Volkenstein, T. Sandberg, JP Thomas, S. Dazert (Bochum, Germany)

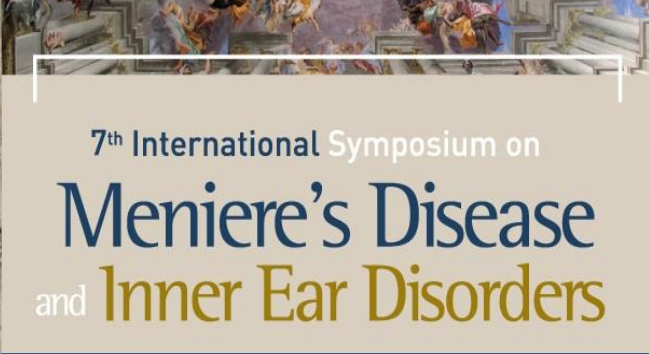
The long-term reduction of vertigo and subjective dizziness by tenotomy of
the stapedius and tensor tympani muscles in definite Meniere's disease

B. Loader, **P. Franz** (Vienna, Austria)

Vestibular nerve sectioning in Ménière's disease

Y. Bayazit (Ankara, Turkey)

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08.00-09.10

CLINICAL ISSUES 4

Moderators: M. Hultcrantz (Stockholm, Sweden), D. Passali (Siena, Italy)

08.00-08.08 Did Prosper Menière discover Menière's disease?

O. Michel (Brussels, Belgium)

08.10-08.18 Reevaluation of QOL in relation with symptoms of Ménière's disease

M. Manfrin, S. Quagliari, E. Rebecchi, G. Locatelli, P. Canzi, M. Benazzo (Pavia, Italy)

08.20-08.28 Audiological characteristics, Immunological Markers and cytokines expressions in Cochlear implant patients affected by autoimmune disorders

P. Mancini, A. Di Mario, D. Ballantyne, E. De Seta, C. Alessandri, H. Dincer (Rome, Italy)

08.30-08.38 Clinical Analysis of Patients with Spontaneous Nystagmus and Negative Video Head Impulse Test: Is it always central?

MG Moon, MB Kim, JH Ban (Seoul, Korea)

08.40-08.48 Possible role of herpesviridae family viruses in the pathogenesis and evolution of sensorineural hearing loss

W. Di Nardo, R. Anzivino, E. De Corso, P. Cattani, R. Santangelo, G. Paludetti (Rome, Italy)

08.50-08.58 Super paramagnetic nanoparticles driven by external magnetic field for targeted drug administration to the inner ear: feasibility and toxicity

G. Leterme, C. Guigou, A. Oudot, B. Collin, J. Boudon, A. Geissler, K. Belharet, A. Ferreira, **A. Bozorg Grayeli** (Dijon, Bourges, France)

09.00-09.08 A study for local treatment of three different polymers aimed for middle ear administration

C. Engmér Berglin, P. Videhult-Pierre, A. Ekborn, T. Bramer, K. Edsman, **M. Hultcrantz**, G. Laurell (Stockholm, Uppsala, Sweden)

09.15-10.00

VESTIBULAR FUNCTION AFTER CI

Moderator: H. Skarzynski (Warsaw, Poland)

09.15-09.28 Comparison of the Result of Caloric test vs Video Head Impulse Test in Cochlear Implant Users (**A. Incesulu** (Meselik-Eskisehir, Turkey)

09.30-09.43 Vestibular function before and after cochlear implantation in patients with post lingual deafness: a prospective observational study

P.A. Abramides, R.S.M. Bittar, R.K. Tsuji, **R.F. Bento**



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09.45-09.58 (Brasilia, Brazil)
 Vestibular function after cochlear implantation in partial
 deafness treatment
M. Sosna, K. Pietrasik, G. Tacikowska, J. Listwon, H.
 Skarzynski, P.H. Skarzynski (Warsaw,
 Poland)



10.00-10.30

AUDITORIUM

10.30-10.50 **Keynote Lecture 7**

Moderator: M. Luntz (Haifa, Israel)

Personalized medicine for Cochlear implantation
HP Zenner (Tubingen, Germany)

11.00-12.30 **PANEL: HEARING REHABILITATION IN MÉNIÈRE'S DISEASE**

Moderator: M. Kameswaran (Chennai, India)

Participants:

Hearing Rehabilitation with Cochlear Implants and Hearing Aids in Patients
 with Meniere's disease

M. Luntz, N. Yehudai, T. Shpak (Haifa, Israel)

Cochlear implantation in patients with unilateral hearing loss and Ménière's
 Disease

A. Ramos (Las Palmas, Spain)

Cochlear Implants in Meniere's Disease

T. Lenarz (Hannover, Germany)

Cochlear implantation in Ménières Disease

G.M. Sprinzi, A. Wolf-Magele, J. Schnabl (St. Poulten, Austria)

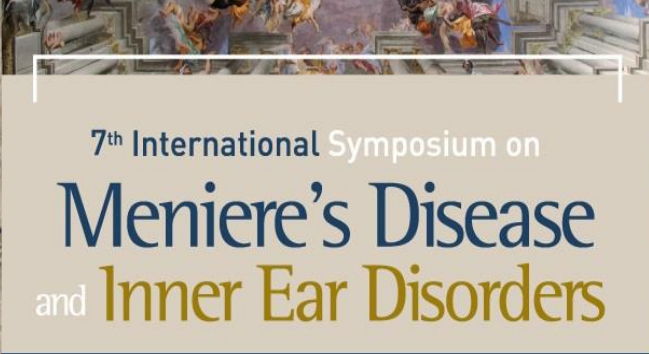
Cochlear implant and Ménière's disease: vestibular and auditory function

R. Manrique-Huarte, D. Calavia, N. Pérez-Fernández, M. Manrique
 (Pamplona, Spain)

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11.00-12.30 **EFFECT OF CI ON MENIERE DISEASE**

Moderators: A.K. Gadre (Louisville, USA), A. Casani (Pisa, Italy)



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- 11.00-11.13 Strategy for end-stage Ménière's disease: labyrinthectomy with CI
B. Gantz, M.R. Hansen, C. Dunn, R. Tyler (Iowa City, USA)
- 11.15-11.23 Translabyrinthine vestibular nerve section and simultaneous cochlear implantation in patients with recalcitrant Menière's disease: preliminary report
P. Canzi, M. Manfrin, M. Perotti, F. Aprile, S. Quagliari, G. Locatelli, D. Fresa D, M. Benazzo (Pavia, Alessandria, Italy)
- 11.25-11.33 Rehabilitation of fluctuating hearing loss by cochlear implant
D. Bernardeschi, I. Mosnier, D. Bouccara, E. Ferrary, **O. Sterkers** (Paris, France)
- 11.35-11.43 Cochlear Implantation as therapy option in single-sided deafness and vertigo caused by M. Menière
R. Laszig (Freiburg, Germany)
- 11.45-11.53 Spatial hearing improvement and long-term suppressive effect on tinnitus after cochlear implantation in single-sided-deaf patients with and without Ménière's disease
V. van Rompaey, G. Mertens, P. Van de Heyning, Belgium
- 11.55-12.03 Outcomes of cochlear implantation in end stage Ménière's disease: a multicenter study.
D. Zanetti, F. Di Bernardino, E. Filipponi, L.O. Redaelli De Zinis, T. Sorrentino, S. Costanzo, A. Cesarani (Milano, Italy)
- 12.05-12.13 Cochlear implant in asymmetric menieric hearing loss
D. Cuda, A. Murri (Piacenza, Italy)


12.30-13.15 Commenting on the present guidelines for Ménière's Disease

Moderator: M. Barbara (Rome, Italy)

Participants:

N. Ozgirgin (Ankara, Turkey) EAONO
M. Magnusson (Lund, Sweden) BARANY
T. Ikezono (Tokyo, Japan) JSER
C. Cenjor (Madrid, Spain) POLITZER
B. Gantz (Iowa City, USA) AAO-HNS
W-H Chun (Seoul, Korea) KOREAN BALANCE SOCIETY

13.15 Closing remarks
M. Barbara

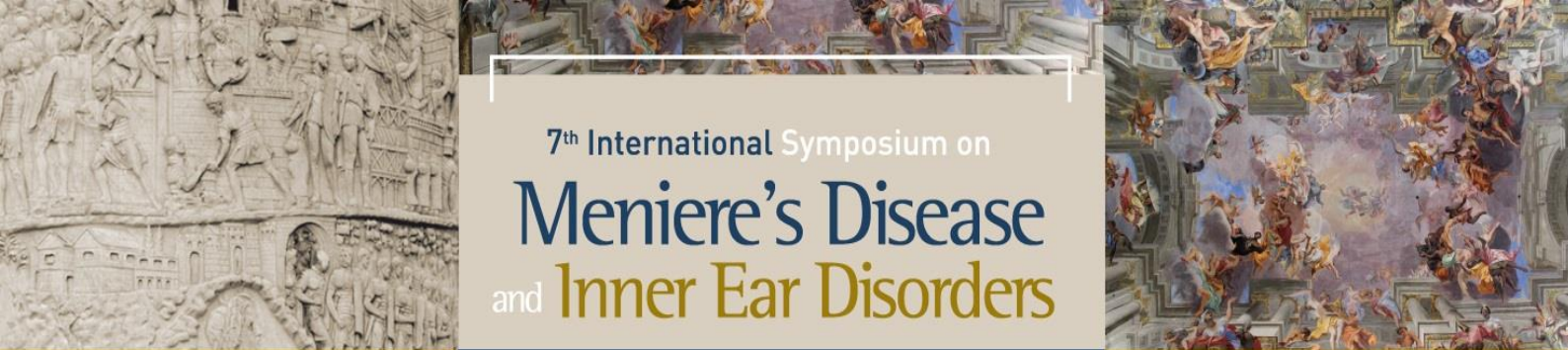


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POSTERS

- 1. Cystic fibrosis transmembrane conductance regulator in the endolymphatic sac of the rat.**
A. Matsubara, T. Miyashita, R. Inamoto, H. Hoshikawa, N. Mori Kagawa/Osaka, Japan
- 2. Prox1 expression in the endolymphatic sac revealed by whole-mount fluorescent imaging of prox1-GFP transgenic mice.**
T. Miyashita, J. L. Burford, Y. K. Hong, H. Gevorgyan, L. Lam, H. Hoshikawa, N. Mori, J. Peti-Peterdi Kagawa/Osaka, Japan; Los Angeles, USA
- 3. Human endolymphatic sac and cochlear water channels - Implications to inner ear fluid homeostasis and mechanism of Ménière's disease.**
Wei Liu, Helge Rask-Andersen Uppsala, Sweden
- 4. The human endolymphatic sac is an intracranial endocrine gland.**
Martin Nue Møller, Svend Kirkeby, Jonas Vikeså, Finn Cilius Nielsen, Per Cayé-Thomasen Copenhagen, Denmark
- 5. Adrenergic stimulation-mediated transepithelial current from human endolymphatic sac epithelium.**
Bo Gyung Kim, Sera Park, Jee Eun Yoo, Jae Young Choi, Sung Huhn Kim Seoul, Korea
- 6. Exome sequencing data involve multiple genes and pathways in familial Ménière's disease.**
Lidia Frejo, Teresa Requena, Carmen Martin-Sierra, Sonia Cabrera, Jose A. Lopez-Escamez Granada, Spain
- 7. Extreme tinnitus phenotype in Ménière's disease.**
Espinosa-Sanchez J.M., Batuecas-Caletrio A., Sanchez-Gomez H., Lopez-Escamez J.A. Granada, Spain
- 8. The inner ear - a novel target for insulin action and resistance - implications for diabetes.**
Eva Degerman, Rene' in 'Zandt, Måns Magnusson Lund, Sweden
- 9. Microglia in Ménière's syndrome**
Felipe Santos, Andreas Eckhard, Arianna DiStadio, Jennifer O'Malley, Michael J. McKenna Boston, USA
- 10. Furosemide loading vestibular evoked myogenic potentials can detect having endolymphatic hydrops - Up-to-date experience**
Toru Seo, Ko Shiraishi, Takaaki Kobayashi, Mutsukazu Kitano, Katsumi Doi Osakasayama, Japan
- 11. Identification and functional analysis of THAP1 gene segregating vestibular phenotype in monozygotic twins with Ménière's disease.**
Carmen Martin-Sierra, Teresa Requena, Lidia Frejo, AeRi Ji, Jose A. Lopez-Escamez

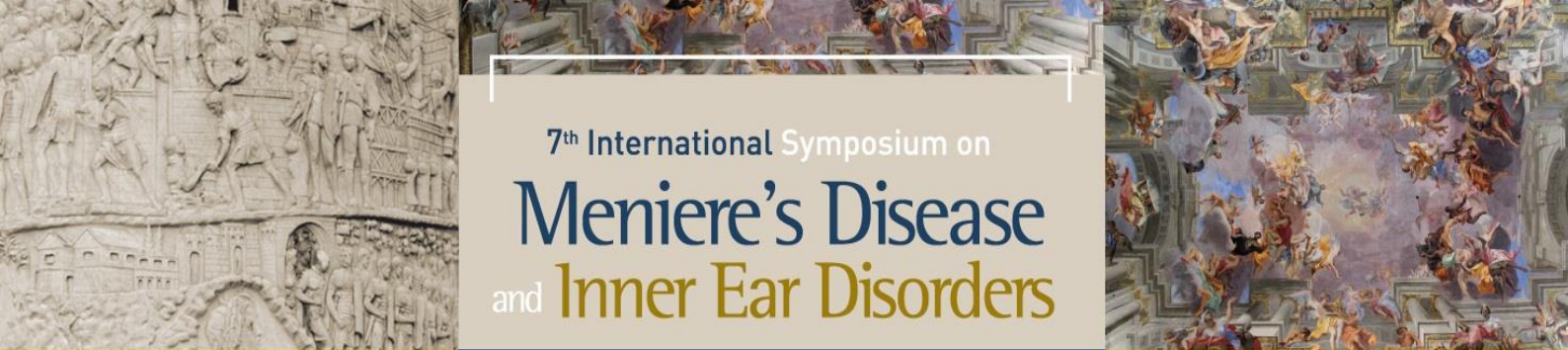


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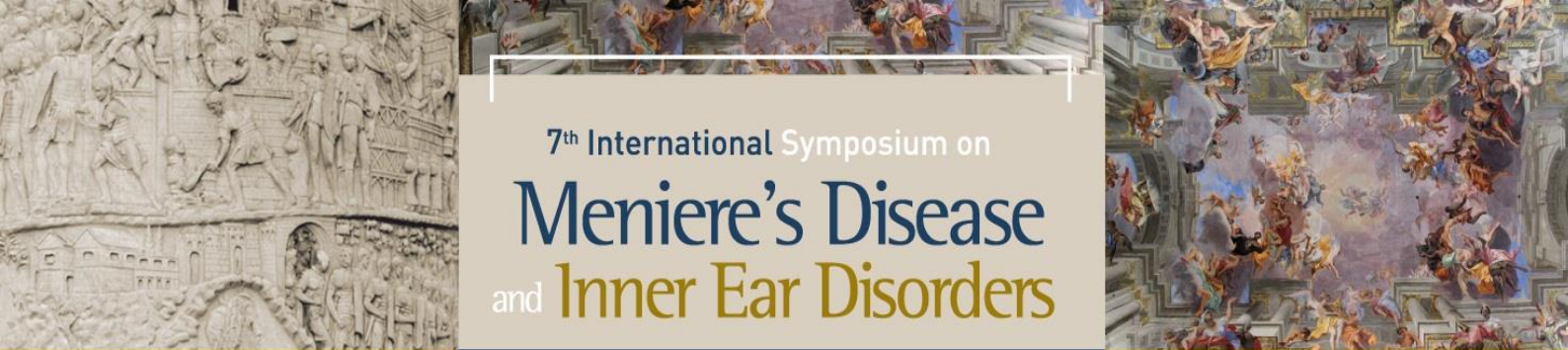
12. **A vestibular-somatosensory interaction using a near-infrared spectroscopy**
Hikaru Yamamoto, Masahiro Iida
Tokyo, Japan
13. **Maturation of subjective visual vertical in children.**
Michel Toupet, Christian Van Nechel, Alexis Bozorg Grayeli
Paris/Dijon, France; Brussels, Belgium
14. **White & gray matter differences between visual vertigo patients and healthy controls: preliminary results.**
A. Van Ombergen, B. Jeurissen, V. Van Rompaey, S. Vanhecke, F. Vanhevel, J. Sidhu, S. Sunaert, P.H. Van de Heyning, P.M. Parizel & F.L. Wuyts
Antwerp/Ledegen/Leuven, Belgium
15. **The usefulness of OPK parameters analysis for saccadic and smooth pursuit disturbances interpretation.**
Henrik Kaźmierczak, Katarzyna Pawlak-Osińska
Bydgoszcz, Poland
16. **Comparative evaluation between caloric test, VEMP and DDPAOE in diagnosing Ménière's disease**
M.Z. Sadi,- A. Mouzali, Kh. Ouennoughi, M.S. Haraoubia, O.Zemirli
Algiers, Algeria
17. **High signal on 3D flair, a predictable factor for progression to Ménière's disease in sudden hearing loss**
Sang Hun Lee, Chan Joo Yang, Jeong Hyun Lee , Joong Ho Ahn
Seoul, Korea
18. **Semicircular canal malformations: clinical and instrumental findings**
Cristina Brandolini, Andrea Castellucci, Gianluca Piras, Antonio Pirodda
Bologna, Italy
19. **Superior canal dehiscence and "near-dehiscence" syndrome: clinical and instrumental aspects**
Andrea Castellucci, Gianluca Piras, Cristina Brandolini, Antonio Pirodda
Bologna, Italy
20. **Barotraumatic perilymphatic fistula: proposed approach to diagnosis and management**
Ji Eun Choi, Il Joon Moon, Won-Ho Chung, Yang-Sun Cho, Sung Hwa Hong
Seoul, Korea
21. **Outcome of attic reconstruction after minimal incision atticostomy approach laser surgery for congenital cholesteatoma (MILC) - Surgical experience from 400 cases**
Chang Ho Lee, Hyung-Mi Kim
Gyeonggi-do, Korea
22. **Endoscopic inlay butterfly (cartilage) tympanoplasty**
K. Aykal, F. Tümkeya, C.O. Kara, F.N. Ardiç
Denizli, Turkey
23. **The patients with Ménière's disease result in the discrepancy between video head impulse test and caloric testing**
Mutsukzu Kitano, Toru Seo, Ko Shiraishi, Takaaki Kobayashi, Katsumi Doi



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24. **The human vestibular aqueduct and LVA - anatomical and radiological assessment**
C.K. Nordström, H. Rask-Andersen
Uppsala, Sweden
25. **Prognosis of severe to profound idiopathic sudden sensorineural hearing loss**
Changjoon Lee, Siyoung Jo, Yongbeom Cho
Gwanju, Korea
26. **Genetic aspects and clinical characteristics of familial Ménière's disease in a South Korean population.**
Jin Woong Kim, Ji Hyuk Han, Jeon Mi Lee, Sung Huhn Kim
Seoul, Korea
27. **Is the cause of a vertigo attack Ménière's disease or vestibular neuritis ? Objective measurements give the answer.**
L. Manzari, A.M. Burgess, H.G. MacDougall, I.S. Curthoys
Cassino, Italy; Sydney, Australia
28. **Relationship between hearing threshold at the affected and unaffected ear in unilateral Ménière's disease.**
R. Albera, A. Canale, C. Cassandro, A. Albera, A. Sammartano, V. Boggio, M. Cerutti, F. Dagna
Torino, Italy
29. **Abnormality of doll's eyes response to head tilt in roll in patients with Ménière's disease**
Tomoyuki Okada, Yasuhiko Tanaka, Kojiro Ido, Masahiko Fukasawa, Yasuhiro Miyamoto, Manabu Nakamura and Izumi Koizuka
Kawasaki City/Yokohama City
30. **Platinum-induced ototoxicity in children: comparison of different ototoxicity classification**
Gunay Kirkim, Yuksel Olgun, Serpil Mungan Durankaya, Deniz Kızılmaz Cakır, Dilek Ince, Kamer Mutafoglu, Nur Olgun, Enis Alpin Guneri
Izmir, Turkey
31. **Cost effectiveness of using contrast-enhanced magnetic resonance imaging for screening unilateral hearing loss**
F.N.Ardıç, F.Tümkey, K.Ağladıoğlu, M.Şentürk, C.O.Kara, Y.Kıroğlu
Denizli, Turkey
32. **High signal on 3D flair, a predictable factor for progression to Ménière's disease in sudden hearing loss**
Sang Hun Lee, Chan Joo Yang, Jeong Hyun Lee, Joong Ho Ahn
Seoul, Korea
33. **Sleep and dizziness handicap inventory profiles in Ménière's disease and vestibular neuronitis**
Akira Doi, Kenichi Kozakura, Aki Fukumoto, Keiko Morizane, Kozo Tamura, Keiko Tsutsui, Yukari Morizane, Chie Ikehata

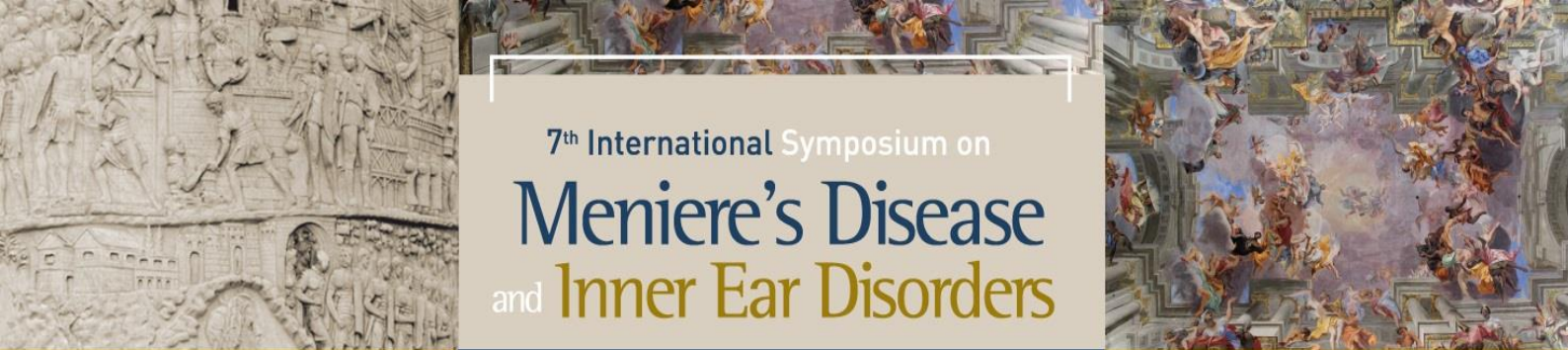


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34. **Manifestation of Lermoyez's syndrome in Ménière's disease patient**
Špela Kordiš, Nina Božanić Urbančič, Manja Hribar and Saba Battelino
Ljubljana, Slovenia
35. **Psychological evaluation of the patients with vertigo due to otoliths organ**
Takaaki Kobayashi, Toru Seo, Shiraishi Ko, Mutsukazu Kitano, Katsumi Doi
Osaka, Japan
36. **Unilateral sensorineural hearing loss and multiple sclerosis**
Kuci Anjeze, Bala Jonida
Tirana, Albania
37. **Tinnitus and spondyloarthritis: strong conjunction between ENT and Rheumatology**
Kuci Anjeze, Kollcaku Julia, Bala Jonida
Tirana, Albania
38. **Ménière's disease presented with microvascular compression of the vestibulo-cochlear nerve**
Kh. Ouennoughi, M.S. Haraoubia, A. Mouzali, K. Kanoun, L. Boublata, D. Ioualalène, O. Zemirli
Algiers, Algeria
39. **Audiovestibular findings in cerebellopontine angle tumor**
Noriko Nagai, Yasuo Ogawa, Akira Hagiwara, Kouji Otsuka, Taro Inagaki, Shigetaka Shimizu, Shigeto Itani, Mamoru Suzuki
Tokyo, Japan
40. **Audiological screening in children with cerebral palsy**
G. Khaydarova, Kh. Shaykhova
Tashkent, Uzbekistan
41. **The many faces of migraine - auditory and vestibular presentation: a case study**
B. Ceranic
London, UK
42. **Vestibular neuritis according to VHIT testings. Clinical entities and prognostic factors.**
Romain Glatre, Charlotte Hautefort, Benjamin Verillaud, Christelle Domange, Philippe Herman, Romain Kania
Paris, France
43. **Otitis media and Ménière's disease**
D. Djerić
Belgrade, Serbia
44. **Anxiety and the severity of the symptoms in patients with Ménière's disease.**
Ana Jotic, Branka Mikic, Ljiljana Cvorovic
Belgrade, Serbia
45. **The risk of misdiagnosis between Chronic Subjective Dizziness (CSD) and Ménière Disease (MD): a psychometrics analysis.**
G. Chiarella, C. Petrolo, R. Riccelli, E. Cassandro
Catanzaro/Salerno, Italy
46. **Forms of vertigo in enclosed tympanum chronic mastoiditis**



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Simona Serban, Marian Radulescu, Andreea Rusescu, Carmen-Cristina Draghici

Bucarest, Rumania

47. **Reversible inner ear symptoms in destructive temporal bone lesions**

Noam Yehudai, Michal Luntz

Haifa/Tel Aviv, Israel

48. **Benign paroxysmal positional vertigo following stapedotomy**

Nenad Arsovic

Belgrade, Serbia

49. **Evaluation of urinary deoxyypyridinolidine levels and their correlation with temporal bone HRCT and density metric data in otosclerosis**

Pinar Tuncbilek Ozmanevra, Nuri Karabay, Selhan Gurkan, Günay Kirkim, Enis Alpin Guneri Izmir, Turkey

50. **Vestibular schwannoma in sudden sensorineural hearing loss patients**

Yong-Soo Park, Il-Whan Lee, In-Chul Nam, Dong-Hyun Kim, Eun-Ju Jeon

Incheon, Korea

51. **Temporary canal wall removal in primary inner ear schwannomas and B2 glomus tympanicum tumors**

Vincent Van Rompaey, Paul Van de Heyning.

Antwerp, Belgium

52. **Conservatively managed sporadic vestibular schwannoma: Audiovestibular factors influencing quality of life**

S. Hansen, J. Yde, S. Stangerup, M. Møller, C. Workman, P. Cayé-Thomasen

Copenaghen, Denmark

53. **Difficulties of psychological therapy in patients with Ménière's disease**

Linda Haraoubia, Kheireddine Ouennoughi, Lyes Beridja, Mohamed salah Haraoubia, Omar Zemirli

Algiers, Algeria

54. **Optimal management of Ménière's disease**

Sung Il Nam, Soon Hyung Park, Jae Hyun Cho, Min Ju Park, Seung Gon Jung, Ye Won Lee, Chang Hoon Bae

Daegu, Korea

55. **Treatment of peripheral vestibular vertigo**

Khalida Shaykhova, Gavkhar Khaydarova

Tashkent, Uzbekistan

56. **Intratympanic gentamycin in a grade 1 vestibular schwannoma**

Vincent Van Rompaey, Tomas Menovsky, Paul Van de Heyning

Antwerp, Belgium

57. **Transtympanic inner ear drug therapy**

Aziz Belal

Alexandria, Egypt

58. **Long-term hearing outcome after intratympanic gentamycin instillation for Ménière's disease**

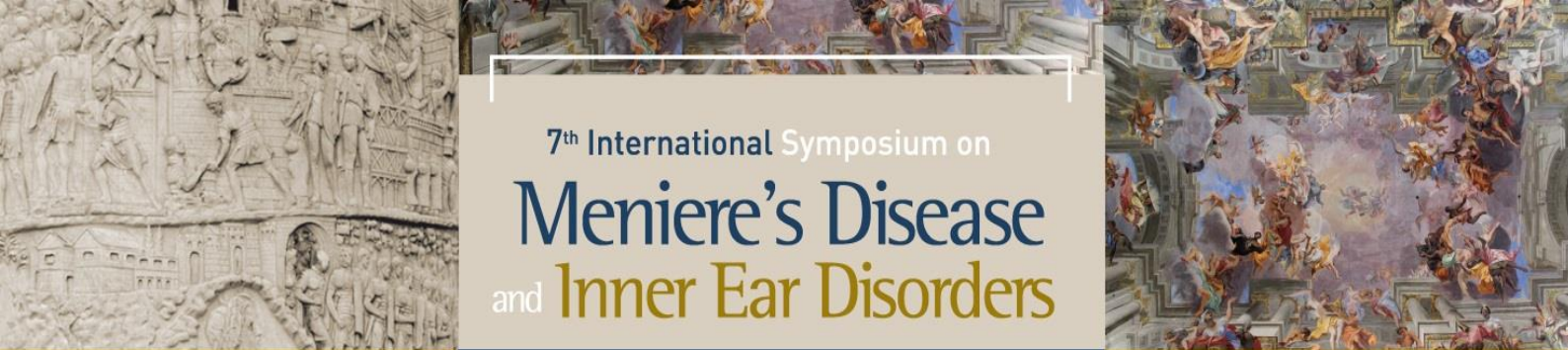
Sarah Verhoeven, Vincent Van Rompaey, Olivier Vanderveken, Paul Van de Heyning



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59. **Cochlear and vestibular effects of combined intratympanic dexamethasone and gentamycin**
Enis Alpin Güneri, Yüksel Olgun, Mustafa Aslier, Daniele Nuti, Günay Kırkım, Serpil Mungan Durankaya, Efsun Kolatan, Safiye Aktaş, Franco Trabalzini, Hülya Ellidokuz, Osman Yılmaz, Marco Mandala Izmir, Turkey; Siena, Italy
60. **Semicircular canal's function in patient with Ménière's disease treated with low-dose intratympanic gentamycin**
G.Tacikowska, K. Pietrasik, H. Skarzynski Warsaw, Poland
61. **Intracochlear drug delivery by injections through the round window membrane: measures to improve drug retention**
Stefan Plontke Halle, Germany
62. **Evaluating effectiveness of intratympanic-tympenic dexamethasone injection of Ménière's patients with alteration of electrocochleography**
Nastiness Yazdani Teheran, Iran
63. **Effect of transtympanic ventilation tube insertion in intractable Ménière's disease**
Tessei Kuruma, Toru Tanigawa, Mayuko kishimoto, Ikue Uchida, Ogawa Tetsuya, Hiromi Ueda Nagoya, Japan
64. **Kinesiology taping and kinetic training in rehabilitation of somatosensory vertigo**
Katarzyna Kulczyńska, Katarzyna Pawlak-Osińska, Henryk Kaźmierczak Bydgoszcz, Poland
64. **Vestibular Neurectomy: retrosigmoid or retrolabyrinthine approach?**
Jun Yang, Huan Jia, Yupeng Liu, Zihua Zhang, Zhaoyan Wang, Qi Huang, Hao Wu Shanghai, China
65. **Middle cranial fossa vestibular neurectomy for intractable Ménière's disease**
Katsumi Doi, Takamitsu Kobayashi, Ko Shiraishi, Mitsuo Sato, Toru Seo Osaka, Japan
66. **Persistent vestibular symptoms after cochlear implantation - clinical overview**
M. Sosna, K. Pietrasik, G. Tacikowska, P.H. Skarżyński, H. Skarzynski Warsaw, Poland
67. **Vestibular function in partial and total deafness**
M. Sosna, K. Pietrasik, G. Tacikowska, J. Listwon, M. Matuszewska, H. Skarzynski, P.H. Skarzynski Warsaw, Poland
68. **Quality of life before and after hearing aids**
HS Chew, YM Heng, A Leong Singapore
69. **Cochlear implantation as a method of rehabilitation of tinnitus**



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E. Levina, S. Levin, V. Kuzovkov, V. Voronov
St. Peterbourgh, Russia

70. **Features sound processor settings in patients after ABI**

S. Levin, I. Koroleva, V. Kuzovkov, E. Levina, V. Voronov
St. Peterbourgh, Russia

71. **Inner ear abnormalities in cochlear implant candidates**

Amina Mouzali, Mohamed Salah Haraoubia, Kheireddine Ouennaghi, Mohamed Zakaria Sadi, Omar Zemirli
Algiers, Algeria

72. **Otoneurological assessment in long term follow up after vestibular neurectomy for Ménière's disease**

A. Canale, F. Caranzano, M. Lanotte, F. Calamo, F. Dagna, L. Salonia, M. Lacilla, M. Boldreghini, R. Albera
Turin, Italy

73. **Cochlear implantation in a patient with Paget disease**

Noam Yehudai, Amit Wolfvitz, Talma Shpak, Rabia Shihada, Michal Luntz
Haifa, Israel

74. **Setting expectations for speech understanding in quiet and in noise in straightforward adults cochlear implant candidates**

Michal Luntz, Talma Shpak, Dana Egra-Dagan, Ranin Khayr, Noam Yehudai, Tova Most
Haifa, Israel

75. **Residual hearing in candidates for cochlear**

Yael Garti, Noam Yehudai, Talma Shpak, Michal Luntz
Haifa, Israel

76. **Performance after revision surgery for cochlear implant soft failures**

Noam Yehudai, Talma Shpak, Saqer Masoud, Riad Khnifes, Michal Luntz
Haifa, Israel

77. **Outcome of cochlear implantation in children with severe and very severe malformations of the inner ear and the auditory nerve**

Noam Yehudai, Saqr Masoud, Talma Shpak, Riad Khnifes, Michal Luntz
Haifa, Israel

78. **Intravestibular schwannoma: symptomatic treatment with intratympanic gentamycin**

Luigi Volpini, Edoardo Covelli, Chiara Filippi, Simonetta Monini, Maurizio Barbara
Rome, Italy

79. **Unilateral sensorineural hearing loss as immune-mediated inner ear disease**

Francesca Atturo, Maurizio Barbara, Simonetta Monini