



**17TH INTERNATIONAL
CONFERENCE ON
COCHLEAR IMPLANTS
AND OTHER IMPLANTABLE
TECHNOLOGIES**

February, 21st – 24th, 2024

AUDITORIO ALFREDO KRAUS,
LAS PALMAS DE GRAN CANARIA,
CANARY ISLANDS SPAIN



Dear CI2024 Participants,

It is our pleasure to extend a warm welcome to the **17th International Conference on Cochlear Implants and other Implantable Technologies (CI2024)** in Las Palmas de Gran Canaria.

CI2024 aims to bring together a gathering of global experts in the field, encompassing basic scientists, clinical specialists, and researchers. This event promises to foster productive clinical debates covering a wide range of topics related to Cochlear Implants. Additionally, there will be a special focus on Basic Sciences, featuring discussions with some of the most influential research groups worldwide.

CI2024 Spain is accounting with nearly 1.500 participants coming from 62 countries in the World, which becomes united by sciences this week.

With more than 800 speakers, 10 halls running paralell and the presence of the key CI corporations in the world, this event promises to become a mayor meeting to discuss about science, communicate about what's going to be the future of our discipline and above all to exchange knowledge. At CI2024, you will have the opportunity to engage in fruitful discussions, participate in clinical debates, and explore the latest advancements in cochlear implants.

We are particularly excited to hold a face-to-face meeting once again and share valuable time and knowledge with friends and colleagues from around the globe, all while ensuring a safe environment for everyone. Live academic meetings have proven to be the most effective method for medical professionals to exchange information, share new knowledge, and establish evidence-based policies and guidelines.

The Conference Organising Committee has dedicated a lot of energy, effort and enthusiasm to reach the highest scientific and organizational standards for this event.

We wish you a productive week and a wonderful stay in Las Palmas de Gran Canaria.

Sincerely,

Prof. Ángel Ramos Macías
Chairman, CI2024

Prof. Manuel Manrique Rodríguez,
Chairman CI2024

PLATINUM



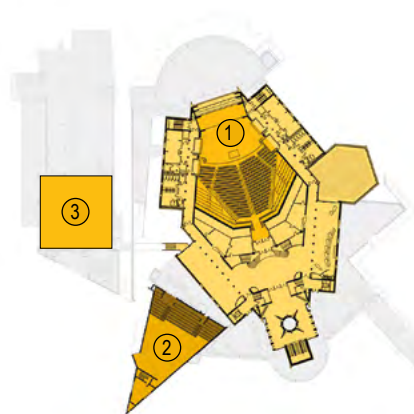
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Armagan Incesulu	Eulalia Juan Pastor	Joachim Michael Müller	Maurizio Barbara	Robert Mlynski	Waldo Nogueira
Arthur Castilho	Farid Alzhvani	Joachim Schmutzhard	Meredith Holcomb	Rudolf Hagen	Wolf-Dieter Baumgartner
Artur Lorens	Federico Di Lella	Joao Elói Moura	Michael Luntz	Sady Selaimen da Costa	Yael Henkin
Athanasia Warnecke	Felicitos Santos	Johan H.M. Frijns	Michael Tong	Sandra Prentiss	Yuksel Olgun
Bard. E Mostafa	Fida Almuhawas	John Martin Hempel	Michel Mondain	Sandro Burdo	Zachary Smith
Beatrice Cusmai	Francesca Forli	József Géza Kiss	Miguel Vaca	Sara Ghiselli	
Bernard Fraysse	Francois Bergeron	Juan Armando Chiossone	Milan Profant	Shakeel Saeed	
Bojana Bukurov	Frank Lin	Juan Manuel García Gómez	Mohammad Ajalloueyan	Shankar B. Medikeri	
Brian Kaplan	Gál Katalin	Karen Gordon	Mohan Kameswaran		



VENUE FLOOR PLAN



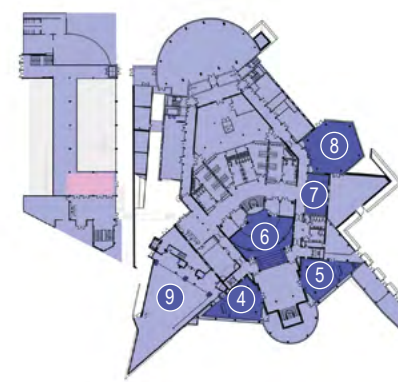
LEVEL 0

- 1 Hall 1
- 2 Hall 2
- 3 Hall 3



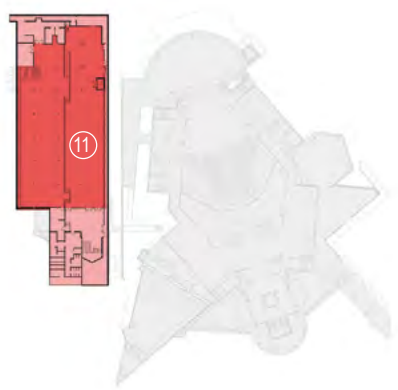
LEVEL -1

- 10 Hall 10



LEVEL -2

- 4 Hall 4
- 5 Hall 5
- 6 Hall 6
- 7 Hall 7
- 8 Hall 8
- 9 Hall 9



BUILDING 2

- 11 Exhibition hall
Technical secretariat
E-Posters
Catering services



Cochlear Implantation as Unique as Your Patients.

Get a sneak peek into new innovations that
will transform the future of otological surgery
and cochlear implant care.



DAILY PROGRAMME

WEDNESDAY 21ST FEBRUARY

10:00 - 11:30 hours	12:00 - 13:00 hours
HALL 2 Oral Communications 0	HALL 2 Intermedic Seminar
TOPIC Several Topics	Unveiling BlueLaser Technology: A cutting-edge tool for otology
HALL 3 Oral Communications 1	Carlos de Paula Vernetta
TOPIC New Technologies	HALL 4 Oticon Medical Seminar
HALL 5 Oral Communications 3	Proven bone conduction solutions that can stand the test of time
TOPIC Several Topics	Emmanuel Mylanus Peter Monksfield Rupan Banga Thomas Wesarg Louise Waldenby Marcus Holmberg
HALL 6 Oral Communications 4	HALL 5 Suministros Hospitalarios Seminar
TOPIC CI Adults Outcomes	RobOtol® and CI surgery: how to proceed from an early adoption to become an expert user, which are the advantages for the patients
11:00 - 11:30 hours	Eric Barat Renato Torres Antonio Della Volpe Joachim Muller
HALL 3 Keynote Session	HALL 6 Advanced Bionics Seminar
Changing mindsets to make ear and hearing care a reality for all	Leading in Technology for Better Outcomes
Chairman Manuel Manrique Speaker Shelly Chadha	
11:30 - 12:00 hours	
Terraza Canteras Coffee Break	

14:30 - 15:45 hours	18:00 - 19:15 hours
HALL 1 NUROTRON Industry Symposium	HALL 1 COCHLEAR Satellite Symposium
SYMPOSIUM OPENING Il Yin Yongzhi Liu	A lifetime of hearing performance
The State of the Art on Cochlear Implants Thomas Lenarz	WELCOME Angel Ramos Macías (Las Palmas de Gran Canaria) Manuel Manrique (Pamplona)
Advances of NUROTRON, Chinise Cochlear Implant and Auditory Brainstem Implant Hao Wu	EMBARKING ON THE JOURNEY: OPENING REMARKS Richard Brook (Basel)
Detailed Study of patients with NUROTRON CI, at the Hospital Clínico of Valencia Jaime Marco	Supporting a lifetime of hearing performance Akira Ishiyama (Los Angeles) Optimizing surgical care: SmartNav in the operating theatre. Peter Monksfield (Birmingham) Empowering possibilities: Navigating life's journey with CI. Rob Beenders (Mechelen) Forward Focus: Picturing the future landscape of CI's. Jan Janssen (Sydney)
Introduction to NUROTRON Cochlear Implant Technology Sui Huang	CLOSURE Richard Brook, (Basel)
Symposium Closure Angel Ramos Manuel Manrique	
15:45 - 16:15 hours	
Exhibition Hall Coffee Break	HALL 1 Opening Ceremony
16:15 - 17:30 hours	
	20:00 hours
	Welcome Cocktail

15:45 - 16:15 hours
HALL 1 MEDEL Satellite Symposium
Cochlear Implantation as Unique as Your Patients
Get a sneak peek into new innovations that will transform the future of otological surgery and cochlear implant care.
17:30 - 18:00 hours
Exhibition Hall Coffee Break

THURSDAY 22ND FEBRUARY

08:00 - 08:30 hours

HALL 1 Instructional Course 1

Everything you ever wanted to know about
hearing loss, dementia, and brain aging

Speaker:
Frank Lin

HALL 2 Instructional Course 2

Tips and tricks in EAS surgery

Speaker:
Shin-ichi Usami

HALL 3 Instructional Course 3

New Perspectives on Cochlear Hair Cell
Regeneration

Speaker:
Angelika Doetzlhofer

HALL 5 Instructional Course 4

Clinical Coaching

Speakers:
Eulalia Juan Pastor
Clare Sheridan

HALL 6 Instructional Course 5

Otolithic vestibular implant

Speaker:
Angel Ramos Macías

HALL 8 Instructional Course 6

Towards Closed Loop Cochlear Implant
Devices based on Artificial Intelligence
Speaker

Speaker:
Waldo Nogueira

HALL 9 Instructional Course 7

Clinical application of cortical potentials
in children using cochlear implants and
hearing aids (22/2 08:00)

Speaker:
Yael Henkin

HALL 7 Oral Communication 7

TOPIC:
Basic Sciences

HALL 10 Oral Communication 8

TOPIC:
New Technologies

08:30 - 09:00 hours

HALL 1 Lecture 1

Central Auditory Processing: Role of
Residual Low Frequency Functional
Acoustic Hearing. We have over 20 years
of follow-up on our Hybrid population

Chairman:
Robert Briggs
Speaker:
Bruce J. Gantz

HALL 9 Lecture 3

Why don't cochlear implants work better?
Lesson from basic science of implants

Chairman:
Helge Rask-Andersen
Speaker:
Manohar Bance

HALL 6 Lecture 5

Quality Control

Chairman:
Constantino Morera
Speaker:
Antje Aschendorff

09:00 - 09:30 hours

HALL 1 Lecture 2

Current concepts of cochlear implantation
with main focus on hearing preservation
and individualized concepts

Chairman:
Robert Briggs
Speaker:
Thomas Lenarz

HALL 9 Lecture 4

Anatomy-based fitting, square zero

Chairman:
Helge Rask-Andersen
Speaker:
Abdulrahman Hagr

HALL 6 Lecture 6

Regenerative medicine and cochlear
implantation

Chairman:
Marcelo Rivolta
Speaker:
Gerard O'Donoghue

09:45 - 11:15 hours

HALL 1 Round Table 1

CI in Elderly

Moderator
Alessandro Martini

Panelists
Isabelle Mosnier
Griet Mertens
Eric Truy
Neil Donnelly
Bulent Satar
Janaina De Lima

HALL 2 Round Table 2

Total Implantable Cochlear Implant

Moderator
Emmanuel Mylanus

Panelists
Johan H.M. Frijns
Nicolas Verhaert
J.Michael Müller
Robert Briggs
Philippe Lefebvre

HALL 3 Round Table 3

CI in children with SSD

Moderator
Karen Gordon
Panelists
Susan Arndt
Ulrika Löfkvist
Yael Henkin
Artur Lorens
Isra Aljazeeri

HALL 4 Round Table 4

Inner ear drug delivery

Moderator
Athanasia Warnecke
Panelists
Federico Di Lella
Christophe Vincent
Marta Álvarez de Linera
Adrien A. Eshraghi
Christoph Arnoldner
Stefan Plontke

HALL 5 Round Table 5

Objective Measures and central auditory
system

Moderator
George Tavartkiladze
Panelists
Anu Sharma
Manuel Manrique
Andy Beynon
Susan Abdi
Sandro Burdo

HALL 6 Round Table 6

Genetic and HL

Moderator
József Géza Kiss
Panelists
Vincent VanRompaey
Raji Abdelaziz
Ana Patiño
Shin-ichi Usami
Radka Kremlikova-Pourova

HALL 8 Round Table 7
Active middle ear implants vs HA
Moderator <i>Maurizio Barbara</i> Panelists <i>Javier Gavilán Bouzas</i> <i>John Martin Hempel</i> <i>Farid Alzhrani</i> <i>Victor Correia da Silva</i> <i>Wolf-Dieter Baumgartner</i>
HALL 9 Round Table 8
CI Children Surgery under one year age
Moderator <i>J. Armando Chiossonne</i> Panelists <i>Alessandra Murri</i> <i>Antonio Della Volpe</i> <i>João Elói Moura</i> <i>Caglar Batman</i>
11:15 - 11:45 hours
Exhibition Hall Coffee Break
11:45 - 12:30 hours
HALL 1 Oral Communication 9
TOPIC: Diagnosis and Genetics
HALL 2 Oral Communication 10
TOPIC: CI Adults Outcomes
HALL 3 Oral Communication 11
TOPIC: New Technologies
HALL 4 Oral Communication 12
TOPIC: Several Topics

HALL 5 Oral Communication 13
TOPIC: Several Topics
HALL 6 Oral Communication 14
TOPIC: Several Topics
HALL 7 Oral Communication 15
TOPIC: CI Adult Surgery
HALL 8 Oral Communication 16
TOPIC: CI Children Outcomes
HALL 9 Oral Communication 17
TOPIC: CI Rehabilitation Adults
HALL 10 Oral Communication 18
TOPIC: Vestibular System
12:35 - 13:30 hours
HALL 1 Lecture 7
Hearing intervention, cognition, and brain health – results from the ACHIEVE study
Chairman <i>Ángel Ramos Macías</i> Speaker <i>Frank Lin</i>
HALL 9 Lecture 8
Congenital hearing loss requires treatment within the first year of life
Chairman <i>Manuel Manrique</i>

Speaker <i>Andrej Kral</i>
13:30 - 14:30 hours
Exhibition Hall Lunch
14:30 - 15:30 hours
HALL 1 Panel Session 1
Trends in cochlear implant surgery
Moderator <i>Bruce J. Gantz</i> Panelists <i>Thomas Lenarz</i> <i>Manuel Manrique</i> <i>Ángel Ramos Macías</i> <i>Stephen John O'Leary</i>
HALL 3 Panel Session 3
Trends for families of coclear implantees
Moderator <i>Leo de Raeve</i> Panelists <i>Teresa Amat</i> <i>Robert Mandara</i> <i>Beatrice Cusmal</i> <i>Qais Khan</i>
HALL 4 Panel Session 4
Future Technologies for auditory implants
Moderator <i>Waldo Nogueira</i> Panelists <i>Jan Janssen (Cochlear)</i> <i>Sui Huang (Nurotron)</i> <i>Volkmar Hamacher (Advanced Bionics)</i> <i>Ingeborg Hochmair (MED-EL)</i>
HALL 6 Panel Session 5
Auditory rehabilitation trends in patients treated with CI
Moderator <i>Eulalia Juan Pastor</i> Panelists <i>Pedro Brás da Silva</i> <i>Kate Hanvey</i> <i>Maria Huber</i> <i>Sara Ghiselli</i> <i>Letizia Guerzoni</i>

HALL 7 Panel Session 6
Trends in cochlear implant programs in emerging countries
Moderator <i>Mario Zernotti</i> Panelists <i>Shakeel Saeed</i> <i>Rohit Mehrotra</i>
HALL 8 Panel Session 7
Trends in organizing a cochlear implant program
Moderator <i>Robert Briggs</i> Panelists <i>Gerard O'Donoghue</i> <i>Christophe Vincent</i> <i>Jaime Leigh</i> <i>Brian Kaplan</i> <i>Sandra Prentiss</i>
HALL 9 Panel Session 8
Audiology trends in a cochlear implant program
Moderator <i>George Tavartkiladze</i> Panelists <i>Sandro Burdo</i> <i>Hung Thai Van</i> <i>Vigen Bakhshinyan</i>
HALL 10 Oral Communication 19
TOPIC: Objective Measures
15:35 - 17:05 hours
HALL 1 Round Table 9
A traumatic surgery in CI
Moderator <i>Thomas Lenarz</i> Panelists <i>Piotr Skarzynski</i> <i>Nicolas Verhaert</i> <i>Paul Van De Heyning</i> <i>Thierry Mom</i> <i>Luis Lassaletta</i>

HALL 2 Round Table 10
Auditory plasticity
Moderator <i>Andrej Kral</i> Panelists <i>Mathieu Marx</i> <i>Anu Sharma</i> <i>Manuel Manrique</i> <i>Yael Henkin</i> <i>Liat Kishon-Rabin</i> <i>Ranin Khayr</i>
HALL 3 Round Table 11
Image in the diagnosis of CI patients
Moderator <i>Antje Aschendorff</i> Panelists <i>Eric Truy</i> <i>Pablo Domínguez Echávarri</i> <i>Antje Aschendorff</i> <i>Ralf Greisiger</i> <i>Thomas Klenzner</i>
HALL 4 Round Table 12
Intraoperative objective measures in CI surgery
Moderator <i>Stephen John O'Leary</i> Panelists <i>Maurício Cohen</i> <i>Joachim Schmutzhard</i> <i>Andreas Radeloff</i> <i>Ángel Ramos de Miguel</i> <i>Marc Leblans</i> <i>Christo Bester</i>
HALL 5 Round Table 13
Programming & Follow-up
Moderator Andrzej Zarowski Panelists Dayse Tavora-Vieira Margaret Dillon Fida Almmuhawas Ghada Binkhamis Anja Kurz Jaime Monedero

HALL 6 Round Table 14
New therapies for the inner ear
Moderator <i>Eduardo Corrales</i> Panelists <i>Raquel Manrique Huarte</i> <i>Marcelo Rivolta</i> <i>Athanasia Warnecke</i> <i>Annarita Fetoni</i> <i>Manohar Bance</i>
HALL 8 Round Table 15
Quality of life in CI Adults
Moderator <i>Gerard O'Donoghue</i> Panelists <i>Thomas Nikolopoulos</i> <i>Teddy McRackan</i> <i>Sue Archbold</i> <i>Javier Santos</i> <i>Jaime Leigh</i> <i>Paula Delgado</i>
HALL 9 Round Table 16
New advances in Bone Conduction Implants
Moderator <i>Milan Profant</i> Panelists <i>Jaime Marco</i> <i>Mario Zernotti</i> <i>Susan Arndt</i> <i>Brian Kaplan</i> <i>Emmanuel Mylanus</i>
17:05 - 17:30 hours
Exhibition Hall Coffee Break
17:30 - 19:00 hours
HALL 1 TB CI Surgical Demonstration I
Chairman: <i>Susana Benítez</i>
17:30 - 18:00
SESSION 1 <i>Brian Kaplan</i>

18:15 - 18:45
SESSION 2 <i>Zhigang Zhang</i>
HALL 9 Audiology demonstration I
Chairman: <i>Juan Carlos Falcón</i>
17:30 - 18:00
SESSION 1 <i>Dayse Tavora-Vieira</i> <i>Margaret Dillon</i>
18:15 - 18:45
SESSION 2 <i>Aniket Saoji</i>
HALL 2 Oral Communication 20
TOPIC: CI Children Surgery
HALL 3 Oral Communication 21
TOPIC: CI Children Surgery
HALL 4 Oral Communication 22
TOPIC: CI Children Outcomes
HALL 5 Oral Communication 23
TOPIC: CI Children Outcomes
HALL 6 Oral Communication 24
TOPIC: CI Adults Surgery
HALL 7 Oral Communication 25
TOPIC: CI Adults Outcomes

HALL 8 Oral Communication 26
TOPIC: CI Adults Outcomes
HALL 10 Oral Communication 27
TOPIC: Rehabilitation Children

FRIDAY
23RD FEBRUARY

08:00 - 08:30 hours

HALL 1
Instructional Course 8

Methods of electrode and implant fixation that minimize the chances for implant migration or extrusion, electrode migrations and intracochlear trauma

Speakers
Manuel Manrique
Andrzej Zarowski
Glynnis De Greve

HALL 2
Instructional Course 9

Which patients with acquired SSD and incapacitating tinnitus are eligible for CI?

Speaker
Paul Van De Heyning

HALL 3
Instructional Course 10

CI Surgery

Speaker
Antje Aschendorff

HALL 4
Instructional Course-Lecture 11

Radiology I

Speaker
Jan Casselman

HALL 5
Instructional Course 12

How to assess verbal communication skills for adult CI users

Speaker
Enrique Lopez-Poveda

HALL 6
Instructional Course 13

Listening effort in noise with pupillometry in CI patients

Speaker
Christophe Vincent

HALL 8
Instructional Course 14

Real-time 3D neuronavigation for the complex temporal bone anatomy

Speaker
Eduardo Corrales

HALL 9
Instructional Course 15

Human temporal bone histopathology evidence to support early intervention with severe to profound sensorineural hearing loss

Speaker
Akira Ishiyama

HALL 7
Oral Communication 28

TOPIC:
Objective Measures

HALL 10
Oral Communication 29

TOPIC:
Active Middle Ear Implants

08:30 - 09:00 hours

HALL 1
Lecture 9

Memory and learning in children with hearing and balance impairments

Chairman
Andrej Kral
Speaker
Karen Gordon

HALL 9
Lecture 11

The anatomy of the human cochlea - Implications for Cochlear Implantation

Chairman
Ángel Ramos
Speaker
Helge Rask-Andersen

HALL 6
Lecture 13

CI in intracochlear schwannomas

Chairman
Milan Profant
Speaker
Stefan Plontke

09:00 - 09:30 hours

HALL 1
Lecture 10

Neuroimagin and auditory plasticity

Chairman
Andrej Kral
Speaker
Manuel Manrique

HALL 9
Lecture 12

New technologies such as synchrotron radiation imaging and anatomy

Chairman
Ángel Ramos
Speaker
Sumit Agrawal

HALL 6
Lecture 14

CI in vestibular schwannomas

Chairman
Milan Profant
Speaker
Per Caye-Thomasen

09:45 - 11:15 hours

HALL 1
Round Table 17

Vestibular function in adults and children with HL

Moderator
Nicolás Pérez
Panelists
Alejo Suárez
Andrés Soto Varela
Nuri Özgürin
Bojana Bukurov
Ja-Won Koo

HALL 2
Round Table 18

Rehabilitation for CI implanted adults with SSD

Moderator
Alicia Huarte
Panelists
Eulalia Juan Pastor
Juan Manuel García
Dayse Tavora-Vieira
Pedro Brás da Silva
Thomas Wesarg

HALL 3
Round Table 19

Artificial Intelligence

Moderator
Waldo Nogueira Vázquez
Panelists
Zachary Smith
Ángel Ramos de Miguel
Sumit Agrawal
Enrique Lopez-Poveda
Michael Tong

HALL 4
Round Table 20

Ethics & Economics in CI

Moderator
Sue Archbold
Panelists
Mathieu Marx
Valeria Vayanguren
Michel Mondain
Meredith Holcomb
Robert Mandara
Sady Selaimen da Costa

HALL 5
Round Table 21

Robotics in CI

Moderator
Vedat Topsakal
Panelists
Marco Caversaccio
Camille C. Dunn
Philippe Lefébvre
Thomas Lenarz
Thomas Klenzner

HALL 6
Round Table 22

Long term results in implanted adults

Moderator
Bard E. Mostafa
Panelists
Levent Olgun
Teddy McRackan
Bulent Satar
Christopher Raine
Angelika Illg

HALL 8
Round Table 23

Malformations and CI

Moderator
Levent Sennaroglu
Panelists
Antonio Della Volpe
Thomas Nikolopoulos
Robert Arndt Mlynski
Arthur Castilho
Caglar Batman

HALL 9
Round Table 24

Auditory Brainstem Implants

Moderator
Mohan Kameswaran
Panelists
Christoph Arnoldner
Dan Jiang
Robert Behr
Hao Wu

11:15 - 11:45 hours

Exhibition Hall
Coffee Break

11:45 - 12:45 hours

HALL 1
Oral Communication 30

TOPIC:
CI Children Outcomes

HALL 2
Oral Communication 31

TOPIC:
Auditory Brainstem Implants

HALL 3
Oral Communication 32

TOPIC:
Objective Measures

HALL 4
Oral Communication 33

TOPIC:
Ethics and Economics

HALL 5
Oral Communication 34

TOPIC:
New Technologies

HALL 6
Oral Communication 35

TOPIC:
New Technologies

HALL 7
Oral Communication 36

TOPIC:
Programming and Follow-up

HALL 8
Oral Communication 37

TOPIC:
Objective Measures

HALL 9
Oral Communication 38

TOPIC:
CI Adults Outcomes

HALL 10
Oral Communication 39

TOPIC:
Bone Conduction Implants

12:50 - 13:30 hours

HALL 1
Lecture 15

Cross-Modal Neuro Plasticity in Cochlear Implantation

Chairman
Manuel Manrique
Speaker
Anu Sharma

HALL 9
Lecture 16

Cochlear implantation and cognition in elderly patients: Is cognition impaired in profoundly deaf elderly and does cochlear implantation prevent from dementia?

Chairman
Juan Carlos Falcón
Speaker
Isabelle Mosnier

HALL 6
Lecture 17

Big Data to review audiological criteria of CI candidacy.

Chairman
Carlos Cenjor
Speaker
Bernard Fraysse

13:30 - 14:30 hours

Exhibition Hall
Lunch

14:30 - 15:30 hours

HALL 1
Oral Communication 40

TOPIC:
Adults Outcomes

HALL 2
Oral Communication 41

TOPIC:
Objective Measures

HALL 3
Oral Communication 42

TOPIC:
Rehabilitation Adults

HALL 4
Oral Communication 43

TOPIC:
Auditory Brainstem Implants

HALL 5
Oral Communication 44

TOPIC:
New Technologies

HALL 6
Oral Communication 45

TOPIC:
New Technologies

HALL 7
Oral Communication 46

TOPIC:
Programming and Follow-up

HALL 8
Oral Communication 47

TOPIC:
Bone Conduction Implants

HALL 9
Oral Communication 48

TOPIC:
Programming and Follow-up

HALL 10
Oral Communication 49

TOPIC:
CI Children Outcomes

15:35 - 17:05 hours

HALL 1
Round Table 25

Bilateral CI and Bimodal stimulation in adults

Moderator
Victor Correia da Silva
Panelists
Luminita Radulescu
Bruce J. Gantz
Maria José Lavilla
Stefan Zirn
Enrique Lopez-Poveda

HALL 2
Panel Session 9

15:35 - 16:35 hours

How to achieve standard of adult CI care?

Moderator
Camille Dunn
Panelists
Bernard Fraysse
Mohan Kameswaran
Federico Di Lella
Meredith Holcomb
Domenico Cuda
Leo de Raeve
Michal Luntz

Lecture 18

16:40 - 17:05 hours

Esteem after 15 years of experience

Chairman
Carlos de Paula
Speaker
Maurizio Barbara

HALL 3
Round Table 26

Rehabilitation Children Implanted out of critical periods

Moderator
Eliana Cristofari

Panelists
Isabelle Mosnier
Juan Armando Chiossone
Shankar B.Medikeri
Caglar Batman
Antonio Della Volpe

HALL 4
Round Table 27

Borderline cases: BCI vs AMEI vs CI

Moderator
Wolf-Dieter Baumgartner
Panelists
César Orus
Carlos Cenjor
Ad Snik
Andreas Radeloff
Carolina Der

HALL 5
Round Table 28

CI in chlidren with CMV

Moderator
Heredio de Sousa
Panelists
Francesca Forli
Michel Mondain
Maria Luisa Monteiro
Armagan Incesulu
Piotr Skarzynski

HALL 6
Round Table 29

CI and Tinnitus

Moderator
Griet Mertens
Panelists
Mario Zernotti
Susana Benítez
Marie Jose Fraysse
Nicola Quaranta
Manuel C. Ketterer

HALL 7
Round Table 30

Hearing Symposium

Moderator
Rudolf Hagen
Panelists
Sumit Agrawal
Javier Gavilan
Paul Van De Heyning
Luis Lassaletta
Ellen Andries
Abdulrahman Hagr

HALL 8
Round Table 31

Impacts of etiology on cochlear implantation

Moderator
Pedro Escada
Panelists
Ulrika Löfkvist
Ronen Pérez
Andzej Zarowski
Yuksel Olgun

HALL 9
Round Table 32

Vestibular function after CI surgery

Moderator
Raquel Manrique Huarte
Panelists
Ja-Won Koo
Per Caye-Thomasen
Maria Costales
Alejo Suárez
Gloria Guerra

17:05 - 17:30 hours

Exhibition Hall
Coffee Break

17:30 - 19:00 hours

HALL 1
TB CI Surgical Demonstration II

Chairman
Susana Benítez

SESSION 1

17:30 - 18:00

Vedat Topsakal
Paul Van de Heyning

SESSION 2

18:15 - 18:45

Alejandro Espinosa

HALL 9
Audiology demonstration II

Chairman
Juan Carlos Falcón

SESSION 1

17:30 - 18:00

Li Yin

HALL 2
Oral Communication 50

TOPIC:
CI Adults Surgery

HALL 3
Oral Communication 51

TOPIC:
CI Adults Outcomes

HALL 4
Oral Communication 52

TOPIC:
CI Adults Outcomes

HALL 5
Oral Communication 53

TOPIC:
Active Middle Ear Implants

HALL 6
Oral Communication 54

TOPIC:
New Technologies

HALL 7
Oral Communication 55

TOPIC:
Basic Sciences

HALL 8
Oral Communication 56

TOPIC:
Diagnosis and Genetics

HALL 10
Oral Communication 57

TOPIC:
CI Children Surgery

SATURDAY
24TH FEBRUARY

08:00 - 08:30 hours

HALL 1
Instructional Course 16

Auditory brainstem implants in children

Speaker
Shakeel Saeed

HALL 2
Instructional Course 17

eSRTs in CI programming: how to use them & why they are important?

Speaker
Ghada Binkhamis

HALL 3
Instructional Course 18

Intraoperative monitoring in CI surgery

Speaker
Ralf Greisiger

HALL 4
Instructional Course 19

What it takes to make Cochlear implant program successful in emerging countries

Speaker
Shankar B. Medikeri

HALL 5
Instructional Course-Lecture 20

CI Radiology II

Speaker
Jan Casselman

HALL 6
Instructional Course 21

Acoustic implants

Speaker
Ad Snik

HALL 9
Instructional Course 22

Trends in the treatment of congenital atresias

Speaker
Farid Alzhrani

HALL 7
Oral Communication 58

TOPIC:
Rehabilitation Children

08:30-09:00 hours

HALL 1
Lecture 19

Basic science on cognitive and aging

Chairman
Wolf-Dieter Baumgartner
Speaker
Annarita Fetonni

HALL 9
Lecture 21

Inner Ear in Genetic Therapy

Chairman
Raquel Manrique
Speaker
Hao Wu

HALL 6
Lecture 23

Congenital ear malformations

Chairman
Federico Di Lella
Speaker
Levent Sennaroglu

09:00-09:30 hours

HALL 1
Lecture 20

The journey from HAs to CI: what patients need to know

Chairman
Wolf-Dieter Baumgartner
Speaker
Michal Luntz

HALL 9
Lecture 22

Developing cell therapies for inner ear conditions

Chairman
Raquel Manrique
Speaker
Marcelo Rivolta

HALL 6
Lecture 24

Congenital ear malformations

Chairman
Federico Di Lella
Speaker
Jan Casselman

09:45 - 11:15 hours

HALL 1
Round Table 33

Complications in CI

Moderator
Johan H.M. Frijns
Panelists
Aarno Dietz
Manohar Bance
Mohammad Ajalloueyan
Ömer Afsin Özmen
Shankar B. Medikeri
Felicitos Santos

HALL 2
Round Table 34

Access of Cochlear implant in adults. Barriers and facilitators

Moderator
Bernard Fraysse
Panelists
Robert Mandara
Leo de Raeve
Brian Lamb
Akira Ishiyama
Rob Beenders

HALL 3
Round Table 35

CI in COM

Moderator
Emma Stapleton
Panelists
Nicola Quaranta
Miguel Vaca
Alimohamad Asghari
Shi Nae Park
Michal Luntz

HALL 4
Round Table 36

Long term outcome of CI in retrocochlear lesions (NF2, superficial siderosis)

Moderator
Per Caye-Thomasen
Panelists
Luis Lassaletta
Robert Arndt Mlynski
Shakeel Saeed
Michael Tong
Levent Sennaroglu
Dan Jiang

HALL 5
Round Table 37

Planification of CI surgery in children

Moderator
Gonzalo Corvera
Panelists
Jawwad Ahmad
Carlos de Paula
Marie Noëlle Calmels
Heredio de Sousa
Conceição Peixoto

HALL 6
Round Table 38

Hearing world

Moderator
Carolina Der
Panelists
Hamid Ossama
Leopoldo Deive Maggiolo
Maria Luisa Monteiro
Christopher Raine
Luminita Radulescu

HALL 7

Round Table 39

Vestibular Implants

Moderator

Ángel Ramos Macías

Panelists

Angélica Pérez Fornos

Raquel Manrique Huarte

Nils Guinand

Ángel Ramos de Miguel

HALL 8

Round Table 40

New Clinical Care Models for patients treated with CI

Moderator

Meredith Holcomb

Panelists

François Bergeron

Robert Briggs

Artur Lorens

Eulalia Juan Pastor

Camille C. Dunn

HALL 9

Round Table 41

Family role in children with CI

Moderator

Sue Archbold

Panelists

Clare Sheridan

Gál Katalin

Angelika Illg

Isabel Monteiro

Pedro Brás Da Silva

Qais Khan

11:15 - 11:45 hours

EXHIBITION HALL

Coffee Break

11:45 12:45 hours

HALL 1

Oral Communication 60

TOPIC:

CI Children Surgery

HALL 2

Oral Communication 61

TOPIC:

CI Adults Surgery

HALL 3

Oral Communication 62

TOPIC:

CI Adults Outcomes

HALL 4

Oral Communication 63

TOPIC:

Bone Conduction Implants

HALL 5

Oral Communication 64

TOPIC:

New Technologies

HALL 6

Oral Communication 65

TOPIC:

Bone Conduction Implants

HALL 7

Oral Communication 66

TOPIC:

Objective Measures

HALL 8

Oral Communication 67

TOPIC:

Several Topics

HALL 9

Oral Communication 68

TOPIC:

Several Topics

HALL 10

Oral Communication 69

TOPIC:

Vestibular System

12:45 - 13:45 hours

HALL 1

Closing Round Table

CI Guidelines and registry

Chairmen

Manuel Manrique

Ángel Ramos

Moderator

Thomas Lenarz

Panelists

Dan Jiang

Christophe Vincent

Andrzej Zarowski

Leo de Raeye

13:45 - 14:15 hours

HALL 1

Closing Ceremony

oticon
MEDICAL

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the power of sound to people at every stage of life. For more than a decade, we have made bone anchored hearing systems more accessible by simplifying the treatment for physicians, audiologists, and patients alike.

We believe that patients and hearing care professionals should be able to choose the best possible solution at any time along the patient journey. We call it "Freedom of Choice" and it has always been paramount to Oticon Medical. This is the reason why our solutions are designed to be compatible whenever possible. As a result, an implant from Oticon Medical stands as a true testament to our unwavering lifelong support.

We work collaboratively to ensure that every solution we create is designed with our users' needs in mind. We have a strong passion to provide innovative solutions and support that enhance quality of life and help people live life to the fullest – now and in the future.

Because we know how much sound matters.

FOR PROFESSIONALS



Cochlear™ Nucleus® SmartNav System

Optimising Surgical Care

The Nucleus® SmartNav System is an innovative intraoperative solution designed to support surgeons during cochlear implant (CI) surgery. This iPad-based and off-the-ear surgical processor solution aims at improving the overall surgical experience and enhance surgical outcomes by offering the following benefits:

- ✓ Wireless, real-time, actionable insights to support navigation during cochlear implant surgery with regards to angular depth and speed of insertion¹⁻⁷
- ✓ Objective measures to support in-theatre decision-making^{1,8,10}
- ✓ Assurance of correct electrode placement and implant functionality to reduce the need for intraoperative imaging post-electrode insertion^{7,8}
- ✓ Automated implant registration, data transfer and intuitive design to deliver a more seamless workflow⁸

www.cochlear.com



1. Page JC, Cox MD, Holloway B, Bonilla-Velez J, Trinidad A, Dornhoffer JL. Trends in Intraoperative Testing During Cochlear Implantation. Otol Neurotol. (2018 Mar); 39(3):294-298. 2. Kontorinis G, Lenarz T, Skover T, Paasche G. Impact of the insertion speed of cochlear implant electrodes on the insertion forces. Otol Neurotol. (2011 Jun); 32(4):565-70. 3. Rajen GP, Kontorinis G, Kothubothum J. The effects of insertion speed on inner ear function during cochlear implantation: a comparison study. Audiol Neurotol. (2015); 18(1):17-22. 4. Todd I, Mittmann P, Ernst A. Intracochlear fluid pressure changes related to the insertional speed of a CI electrode. Biomed Res Int (2014); 2014:507241. 5. Morral WG, Holder JT, Dawant BM, et al. Effect of Scala Tympani Height on Insertion Depth of Straight Cochlear Implant Electrodes. Otolaryngology – Head and Neck Surgery. (2020); 194:599820904941. Available from <https://doi.org/10.1077/0194599820904941>. 6. Skarzynski H, Lorens A, Matusiak M, Porowski M, Skarzynski PH, James CJ. Cochlear implantation with the Nucleus Slim straight electrode in subjects with residual low-frequency hearing. Ear Hear (2014); 35(2):a33-43. 7. Cochlear Limited. D1665111 V1 SEP2019. Angular Insertion Monitoring Algorithm (TRL6 Validation). 8. Cochlear Limited. D1946550 Cochlear Nucleus® SmartNav App user guide. 9. Cochlear Limited. D1840640 Custom Sound Pro User guide. 10. Botros A, van Dijk B, Kilian M. AutoNRT™: An automated system that measures ECAP thresholds with the Nucleus® Freedom™ cochlear implant via machine intelligence. Artif Intell Med. 2007 May;40(1):15-28.

This material is intended for health professionals. If you are a consumer, please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always read the instructions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.

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Cochlear®
Hear now. And always

ORAL COMMUNICATIONS

FEBRUARY 21ST

HALL 2 - 10:00-11:30
ORAL COMMUNICATIONS 0

Topic: Several Topics

Chairman: *Mathiew Marx*

Communication Titles and Speakers:

Outcome assessment after cochlear implantation developed based on the International Classification of Functioning, Disability and Health – body structure and functions domain - ARTUR LORENS

Implementation of the International Classification of Functioning, Disability and Health model in Cochlear Implant recipients: activity and participation - DAYSE TAVORA-VIERA

The ICF and cochlear implant indications: what does the data tell us? - ILONA ANDERSON

Work Rehabilitation Questionnaire (WORQ) in Cochlear Implant Users: a cross-sectional multicenter study MIRYAM CALVINO

Towards a consensus on an ICF-based classification system for horizontal sound source localization GRIET MERTENS

Implementation of the ICF model in Paediatric CI users - ELLEN ANDRIES

Diseasy-Modifying Therapy for Autosomal Dominant Hereditary Hearing Loss in DFNA9 VINCENT VAN ROMPAEY

HALL 3 - 10:00-11:30
ORAL COMMUNICATIONS 1

Topic: New Technologies

Chairman: *Ángel Ramos de Miguel*

Communication Titles and Speakers:

Anatomy Based Spacing: A Novel Concept. ISRAALJAZEERI

3D exoscope in Cochlear Implants: from Skin to Round Window FRANCESCO BUONO

In vivo proof-of-principle of insertion force measurement THOMAS S. RAU

Diffusion tensor imaging and auditory tractography to evaluate cochlear implant candidacy: a pilot study BADR ELDIN MOSTAFA

HALL 5 - 10:00-11:30
ORAL COMMUNICATIONS 3

Topic: Several Topics

Chairman: *Elisa Déniz*

Communication Title and Speakers:

Association of Combined Healthy Lifestyle Factors with Cognitive Decline in Elderly with Hearing Loss in China: A Population-Based Cross-Sectional Study YING CHEN

The Healthy Hearing Ears Initiative - Describing current treatment of patients with chronic otitis media related hearing loss in Germany, France and Spain. SUSAN ARNDT

Health-Economical facts concerning MRI Compatibility of Cochlear Implants WOLF-DIETER BAUMGARTNER

Cochlear Implants: A Global Case Study to Increase Action on an underresourced Health Issue. BRIAN LAMB

Surgical Competency and Skills among Participants in Surgical Training Workshops: Impact in their Cochlear Implant Surgery Proficiency JUAN CHIOSSONE-KERDEL

Intraoperative measurement of insertion speed in cochlear implant surgery: a preliminary experience with Cochlear SmartNav - SEBASTIANO FRANCHELLA

Complications and audiological results of percutaneous bone-anchored hearing devices. GUILHERME ADAM FRAGA

Remote Check Experience in KSMC based on Virtual Clinic SAHAR M. BIN DEHAISH

Hearing intervention for decreasing risk of developing dementia in elders with mild cognitive impairment: study protocol of a multicenter randomized controlled trial for Chinese Hearing Solution for Improvement of Cognition in Elders (CHOICE) YING CHEN

Predicting the Magnet Strength Using a Tablet-Based Tool for Patients Undergoing Cochlear Implantation MOHAMMED GARRADA

HALL 6 - 10:00-11:30
ORAL COMMUNICATIONS 4

Topic: CI Adults Outcomes

Chairman: *María Gómez Egea*

Communication titles and Speakers:

Cochelar Implant outcomes in adults affect by Single Side Deafness SARA GHISELLI

Facial nerve stimulation in adult cochlear implant recipients with far advanced otosclerosis. ISABELLE MOSNIER

Personalized medicine in the hearing implant surgery eas in SSD C. DIANA PULBERE

Simultaneous ipsilateral cochlear implantation after translabyrinthine removal of vestibular schwannoma with normal contralateral hearing in six patients YONGCHUAN CHAI

Objective and subjective benefits of cochlear implant use in people with single-sided deafness or asymmetric hearing loss. ANDRZEJ ZAROWSKI

CI in vestibular schwannomas THOMAS KLENZNER

Development of a new functional listening and communication item bank for adults with hearing loss SARAH HUGHES

State of the art structure and hearing preservation using the HiFocus SlimJ electrode array. TIM NAUWELAERS

Long-term Outcome After Simultaneous Vestibular Schwannoma Resection

and Cochlear Implantation with IntraoperativeCochlear Nerve Monitoring. CHRISTOPH ARNOLDNER

Cochlear implant in patients with chronic otitis media: surgical and functional outcomes ALESSANDRA MURRI

Cochlear implantation in single-sided deafness: the effects on sound localization and quality of life. SHAZA SALEH

Hearing preservation and subjective benefit in cochlear implant recipients with low frequency hearing in the implanted ear and normal hearing in the other ARTUR LORENS

FEBRUARY 22ND

HALL 7 - 08:00-08:30
ORAL COMMUNICATION 7

Topic: Basic Sciences

Chairman: *Thomas Nikolopoulos*

Communication Titles and speakers:

Unilateral versus Bilateral Cochlear Implants in Adults: A Cross-Sectional Comparative Analysis Across Multiple Hearing Domains. ALESSANDRA PANTALEO

Effect of Insertion Depth of a Cochlear Implant Electrode Array on the Recipients Speech Perception Outcomes: A Systematic Review. ANANDHAN DHANASINGH

Not Just An Electrode Insertion: What Should You Know About Cochlear Parameters. TAWFIQ KHURAYZI

HALL 8 - 08:00-08:30
ORAL COMMUNICATION 8

Topic: New Technologies

Chairman: *Susana Benítez*

Communication Titles and speakers:

Preservation of Functional Residual Hearing Comparing Manual and Robotic

Insertion of Cochlear Implants. BRUCE GANTZ

The effect of Forward Focus feature on Speech in noisy environment at Cochlear Implant users. OSAMA MAJDALAWIEH

Cochlear implantation with a Safety Burr: First clinal experiences. AARNO DIETZ

HALL 1 - 11:45-12:30
ORAL COMMUNICATION 9

Topic: Diagnosis and Genetics

Chairman: *Joachim Müller*

Communication Titles and speakers:

Genetic of deafness and its impact on cochlear implant outcomes. ABDELAZIZ RAJI

Applications of visualizing cochlear basal turn in preoperative image analysis during cochlear implantation procedure. ANANDHAN DHANASINGH

Magnetic Resonance imaging can be used to predict the cochlear duct length in normal cochleas. FAISAL ZAWAWI

Genetic findings and hearing rehabilitation outcomes in patients with incomplete partition type III. YING CHEN

HALL 2 - 11:45 - 12:30 hours
ORAL COMMUNICATION 10

Topic: CI Adults Outcomes

Chairman: *Özgür Yiğit*

Communication Titles and speakers:

Review of implantation benefits for senior patients, based on the experience at the ENT Clinic in Szczecin. RENATA TWARDOWSKA

Comparable auditory outcomes between scala vestibuli and scala tympani insertions one year after cochlear implantation. RENATO TORRES

Facial nerve stimulation post cochlear implantation. ROA HALAWANI

Optimizing latency correction for sound localization in bimodal cochlear implant users by applying various device latencies. SABINE HOCHMUTH

HALL 3 - 11:45 - 12:30 hours
ORAL COMMUNICATION 11

Topic: New Technologies

Chairman: *Isaura Rodríguez*

Communication Titles and speakers:

Comparing signal pre-processing in OTE and BTE processors – how does it influence CI users' hearing in noise? ANDREAS BÜCHNER

Impedance and Functional Outcomes in Robotic-Assisted or Manual Cochlear Implantation PHILIPPE LEFÉBVRE

The TEMPORAL project: Optimizing speech coding strategies by using models and machine learning JOHAN H.M. FRIJNS

Feasibility of using an active mass transducer as a middle ear microphone. CAROLINA KÖSTLER

HALL 4 - 11:45 - 12:30 hours
ORAL COMMUNICATION 12

Topic: Several Topics

Chairman: *Gloria Guerra*

Communication Titles and speakers:

Auditory function in noise-exposed normal-hearing GAYANE SARGSYAN

Readability and Quality of Online Health Information about Cochlear Implants and Hearing Aids MATTHEW BUSH

Focused Stimulation Auditory Detection Thresholds Used for Research Correlate with Clinical Measures in Cochlear Implants JULIE ARENBERG

Cochlear implants for single sided deafness: improved sound-localization performance without processing of binaural cues MARTIJN AGTERBERG

HALL 5 - 11:45 - 12:30 hours
ORAL COMMUNICATION 13

Topic: Several Topics

Chairman: *Susana Benítez*

Communication Titles and speakers:

Music Appreciation and Timbre perception in Iranian Cochlear Implant Users ALI KOUHI

“Hearing loss Quality of Life” Questionnaire – Development and Validation ANGELIKA ILLG

The impact of severe sensorineural unilateral hearing loss on productivity CATO PHILIPS

Difficult Situations In Cochlear Implantation. ROHIT MEHROTRA

HALL 6 - 11:45 - 12:30 hours
ORAL COMMUNICATION 14

Topic: Several Topics

Chairman: *Jaime Monedero*

Communication Titles and speakers:

Re-magnetization process of an implanted cochlear implant, could it be done? FRANCISCO ROPERO ROMERO

Speech Intelligibility Index: A Referral Guideline for Pediatric Cochlear Implant Candidacy Evaluations GABRIELLE WATSON

Different routes and methods for inner ear drug delivery ATHANASIA WARNECKE

HALL 7 - 11:45 - 12:30 hours
ORAL COMMUNICATION 15

Topic: CI Adult Surgery

Chairman: *José María Cuyás*

Communication Titles and speakers:

Simultaneous Adult CI: Pushing The Boundaries NAWAF FATANI

The role of Photon-counting CT imaging in CI surgery NICOLAS VERHAERT

Outcomes of cochlear implantation using Flex26 electrode: audiological results and quality of life after 12 months PIOTR HENRYK SKARZYNSKI

Common challenges in cochlear implant surgery under local anaesthesia and how to overcome them: The experience of UK surgeons. EMMA STAPLETON

HALL 8 - 11:45 - 12:30 hours
ORAL COMMUNICATION 16

Topic: CI Children Outcomes

Chairman: *Ángel Ramos de Miguel*

Communication Titles and speakers:

General Perceived Self-efficacy in Teenagers and Young Adults who received their 1st CI before 30 months: a cross-sectional cohort study ULRICA LÖFKVIST

Longterm results following bilateral CI in children RUDOLF HAGEN

Young Adults with CI Matter SUE ARCHBOLD

HALL 9 - 11:45 - 12:30 hours
ORAL COMMUNICATION 17

Topic: CI Rehabilitation Adults

Chairman: *Manuel Gómez Serrano*

Communication Titles and speakers:

The Impact of Cochlear Implantation on Sound Quality and Quality of Life in Postlingually Deaf Adults: A Prospective Study ARASH BAYAT

Improved Music Perception after Music Therapy following Cochlear Implantation in the Elderly Population BIANCA WIRTHNER

Free-Field Hearing Test in Noise with Free Head Rotation for Evaluation of Monaural Hearing CAROLINE GUIGOU

Evaluation of Guided Self-Rehabilitation in Patients with Sudden Onset Unilateral Deafness Treated with Cochlear Implants ESTER SUREDA BENEJAM

HALL 10 - 11:45 - 12:30 hours
ORAL COMMUNICATION 18

Topic: **Vestibular System**

Chairman: *Thomas Klenzner*

Communication Titles and speakers:

Disturbances in cochlear implant eletrode impedances associated with peripheral vestibular syndrome: cochlear implant induced labyrinthitis? VLADIMÍR KOUCKÝ

Influence of stimulus parameters on electrically elicited vestibular-evoked myogenic potentials in cochlear implant users LAURA FRÖHLICH

Vestibular function in children before and after CI surgery - JOSINE WIDDERSHOVEN

HALL 10 - 14:30 - 15:30 hours
ORAL COMMUNICATION 19

Topic: **Objective Measures**

Chairman: *Juan Carlos Falcón*

Communication Titles and speakers:

Electrocochleography Amplitude Patterns as Biomarker of Residual Inner Ear Function in Cochlear Implant Patients STEFAN WEDER

Initial User Feedback on the Cochlear™ Nucleus® SmartNav System TIAGO ROCHA FÉLIX

AIM provides real-time feedback to the cochlear implant surgeon for optimal and atraumatic electrode insertions UNAI MARTINEZ DE ESTIBARIZ

Intracochlear electric field parameters derived from the transimpedance matrix for three types of cochlear-implant electrode arrays in temporal bones VILLE SIVONEN

What changes in cochlear microphonic indicate during electrode array insertion PATRICK BOYLE

Individualized CI surgery via a new medical imaging software TIM NAUWELAERS

Digitally visualized electrocochleography driven electrode insertion provides better residual hearing after CI Surgery DIANA ARWEILER-HARBECK

HALL 2 - 17:30 - 19:00 hours
ORAL COMMUNICATION 20

Topic: **CI Children Surgery**

Chairman: *Vedat Topsakal*

Communication Titles and speakers:

Cochlear SmartNav 2 as a Service Improvement. KONSTANCE TZIFA

Cochlear implantation in incomplete partition type I; our experience with 20 cases ALI EFTEKHARIAN

Recurrent mastoiditis after cochlear implantation in common cavity malformation patient. ALMAT ZHANDAULETO

Management of cochlear implant exposure with temporoparietal flap and split skin grafting of donor area – Our experience ANAND RAJU

Unlocking the Potential: Pre-Op and Post-Op CT Fusion for Optimizing Individualized Cochlear Implantation ASMA ALAHMADI

Cochlear Implantation Surgery in Children in Kenya. ASMEETA PATEL

Cochlear implantation and otitis media: a clear and present danger. BADR ELDIN MOSTAFA

Intraoperative detection of extracochlear electrodes using stimulation current induced non-stimulating electrode voltage measures (transimpedance measures) –A case series DAKOTA BYSOUTH-YOUNG

Assessment of auditory pathway using a pre-operative trans-tympanic electrically evoked auditory brainstem response under general anesthesia in doubtful cochlear implant pediatric candidates. MARGOT BARTOLOMÉ

HALL 3 - 17:30 - 19:00 hours
ORAL COMMUNICATION 21

Topic: **CI Children Surgery**

Chairman: *Andrzej Zarowski*

Communication Titles and speakers:

Difficult posterior tympanotomy in pediatric CI: how to predict?. SAAD ELZAYAT

Characteristics of trauma for lateral wall electrode arrays following cochlear implantation RENATO TORRES

The Use of X-Ray in Measuring the Angular Insertion Depth of Cochlear Implant Electrode Array HESSA ALI ALHAMMADI

Combined approach of preoperative CT parameters as a predictor for round window visibility in cochlear implant patient, could it help? MOHAMED GHONIM

Late complications of middle ear implantation in children: our experience NADER NASSIF

Cochlear Implantation in Child with Common Cavity Deformation NURSLAM AKHMETOV

A new objective-based method for measuring the cochlear duct length RABEA AL SABILAH

“Veria” Approach for Paediatric Cochlear Implantation - A Study of 100 Cases RAJESH VISHWAKARMA

Systematic review of Post-cochlear implant electrode migration: what is known? SAAD ALENZI

When sound is heard after long silence, CI in common cavity with hypo plastic nerve. The oval window is an alternative pathway. ASHRAF FAYED

HALL 4 - 17:30 - 19:00 hours
ORAL COMMUNICATION 22

Topic: **CI Children Outcomes**

Chairman: *Artur Lorens*

Communication Titles and speakers:

The misplaced cochlear implant electrode AHMED MEHANNA

Simultaneous Bilateral Cochlear Implantation in Children Under Two Years of Age: A 10-Year Experience ALEXANDRA CORTÉS ARCINIEGAS

Assessment of the effectiveness of the use of directional microphones in Sonnet 2 processors in children, users of cochlear implant systems ANITA OBRYCKA

Mental health in adolescents who received cochlear implants before 30 months: effects of age at CI and aetiology ANNA PERSSON

Language Development of Three-to-Five-year-old Children with bilateral Cochlear Implants.- Results of Children in Germany. A multicentre retrospective study. BARBARA STREICHER

Five year outcomes of cochlear implantation in children with single and multiple additional needs. CHRISTOPHER RAINE

Literacy Achievement of Deaf Students with Cochlear Implants CONNIE MAYER

HALL 5 - 17:30 - 19:00 hours
ORAL COMMUNICATION 23

Topic: **CI Children Outcomes**

Chairman: *Nicolas Verhaert*

Communication Titles and speakers:

Long-term outcomes and executive functions of adults with prelingual bilateral profound deafness FABIAN BLANC

The Impact of Hearing Loss and Cochlear Implantation on the quality of life in children FAISAL ZAWAWI

Effect of Radiological Grade of Cochlear Ossification on Cochlear Implant Outcome in Post meningitis Deafness FARID ALZHRANI

Title cochlear implantation in children : our experience of 522 cases FARID BOUDJENAH

Long-term auditory outcomes for adolescents and young adults using cochlear implants since early childhood FILIP ASP

Evolution of speech perception in patients with ossified cochlea and short array cochlear implant GUILHERME ADAM FRAGA

The connection between verbal working memory capacity and language outcomes in children with cochlear implants IVANA ŠIMIĆ ŠANTIĆ

Cochlear Implants in Children with Partial Hearing: data from 10-year UK collaboration KATE HANVEY

HALL 6 - 17:30 - 19:00 hours
ORAL COMMUNICATION 24

Topic: **CI Adults Surgery**

Chairman: *Eric Truy*

Communication Titles and speakers:

How can we manage the surgical difficulties in cochlear implantation? ALMA MANIU

Cochlear implant surgery under local anaesthesia in ASA 1 and 2 patients. EMMA STAPLETON

OTOVIRT: a workflow for semi-automatic modeling and segmentation of the temporal bone as a simulation tool for haptic virtual surgery. FRANCISCO ROPERO-ROMERO

Reimplantation surgery in cochlear implant electrode failure GABRIEL HUGUET LLULL

Intra-operative measurements of the stapedius reflex via EMG - A feasibility clinical study GERD FABIAN VOLK

Standarizan of endaural soft tissue approach in cochlear implant surgery. ALI GAMAL ZOHNİ

HALL 7 - 17:30 - 19:00 hours
ORAL COMMUNICATION 25

Topic: **CI Adults Outcomes**

Chairman: *Bulent Satar*

Communication Titles and speakers:

Quality of Life and Auditory Benefits in Patients with Sudden Onset Unilateral Deafness Treated with Cochlear Implants: A Comprehensive Assessment AINA MUNTANER VIVES

What MRI tells us about the adaptation of deaf adults to cochlear implants ANAÏS GRÉGOIRE

Subjective perception of emotional factors in CI users ANGELIKA ILLG

Speech understanding in CI recipients correlated with genetic evaluation ANKE LESINSKI-SCHIEDAT

Predicting postoperative speech recognition of cochlear implant recipients with ski-slope hearing loss SANNE EEMERS

Central auditory processing difficulties in cochlear implant children users with Persian-Buffalo Model Questionnaire-Revised SARA MOHAMMADALIZADEH

Cochlear implantation 1 in Neurofibromatosis type 2-related schwannomatosis: Long-term hearing outcomes. ISABELLE MOSNIER

St George's Auditory Implant Service – an audit of 17 years of adult cochlear implants. HESHAM KHALID

HALL 8 - 17:30 - 19:00 hours
ORAL COMMUNICATION 26

Topic: **CI Adults Outcomes**

Chairman: *Mauricio Cohen*

Communication Titles and speakers:

Test Equivalency of the Spanish and English AzBio Sentences Among Bilingual Normal Hearers SANDRA PRENTISS

Sequential cochlear implantation in a long-time interval JAN BOUCEK

An artificial lag in stimulation timing affects sound source localization in bilateral cochlear implant users JOSEF SEEBACHER

Effects of Stimulation Rate on Speech Perception by Cochlear Implant Users LEILA AZADEH RANJBAR

Does anatomy-based fitting have any advantage on music perception in cochlear implant users? LUIS LASSALETTA

Hearing loss, depression and cognition in younger and older adult CI candidates MARIA HUBER

Cochlear implant candidacy in patients with Maniere's disease. JORGE GUILLERMO CABRERA ORTIZ

HALL 9 - 17:30 - 19:00 hours
ORAL COMMUNICATION 27

Topic: **Rehabilitation Children**

Chairman: *Andreas Radeloff*

Communication Titles and speakers:

Do the children with cochlear implants comprehend verbal irony? CINZIA LAZZARINI

Policy Options for Improving Access and Timeliness of Care for Children's Hearing Rehabilitation in Latin America CLAUDIA CARO

Cochlear Implant: Family and rehabilitation HELENA GABRIELA FIÚSA ALVES

Educating and Empowering Families Of Cochlear Implant Users LEENA VISHWAKARMA

Factors Associated with No-Show Rates in a Pediatric Audiology Clinic MATTHEW BUSH

Analysis of postoperative rehabilitation modalities following pediatric cochlear implantation MENGPING WANG

Social multimedia projects as a tool to raise public awareness of rehabilitation opportunities for people with hearing impairment NATALIA KONIUSHENKO

Investigating efficacy of auditory processing disorders phonemic and phonemic synthesis rehabilitation therapies in Persian children with cochlear implant JILA AFSHARMANESH

FEBRUARY 23RD

HALL 7 - 08:30 - 08:30 hours
ORAL COMMUNICATION 28

Topic: **Objective Measures**

Chairman: *Janaina Patricio de Lima*

Communication Titles and speakers:

Monitoring of Daily Impedance Fluctuations in experienced CI users JOERG PESCH

Cochlea nerve monitoring in VN surgery in respect to tumor stage and approach JOERG SCHIPPER

Optimization of loudness perception during the measurement of electrically evoked compound action potential amplitude growth functions LUTZ GAERTNER

HALL 10 - 08:30 - 08:30 hours
ORAL COMMUNICATION 29

Topic: **Active Middle Ear Implants**

Chairman: *Levent Olgun*

Communication Titles and speakers:

Superior sound localization abilities with bilateral active middle ear implants for patients with bilateral conductive hearing loss MARTIJN AGTERBERG

Implant Ear Reconstruction & Vibrant Sound Bridge Implantation with Intra-Operative Audiological Measurement : new approach TAWFIQ KHURAYZI

Long-term results of the Vibrant Soundbridge coupled to the Round Window THOMAS MAYR

HALL 1 - 11:45 - 12:45 hours
ORAL COMMUNICATION 30

Topic: **CI Children Outcomes**

Chairman: *Eulalia Juan Pastor*

Communication Titles and speakers:

The effect of the electrode position on the functional outcome of cochlear implantation: a multicentric comparative study LOBNA EL FIKY

Long term effects of early age at cochlear implantation on metaphor comprehension in Swedish adolescents and young adults MALIN DAHLBY SKOOG

Correlation of Quality Of Life with Speech and Hearing Performance After Cochlear Implantation MASHAEL ALHARBI

Post-lingually single-side deafness. Cochlear implants results comparing children between adults. SUSANA BENÍTEZ ROBAINA

Looking for a biomarker of neuroplasticity in congenital deafness treatment by cochlear implantation – is plasma level of MMP-9 a one? MONIKA MATUSIAK

Cochlear implant in pediatric with inner ear malformation; intra-operative surgical & audiological findings - LAILA TELMESANI

HALL 2 - 11:45 - 12:45 hours
ORAL COMMUNICATION 31

Topic: **Auditory Brainstem Implants**

Chairman: *Dan Jiang*

Communication Titles and speakers:

Cochlear nerve deficiency: CI or ABI HAO WU

Auditory Brainstem implants outcome, are they comparable to cochlear implantation? The Egiptian Experience. HESHAM TAHA

Two multiplex families of severe inner ear malformations and their results of auditory brainstem implantation ZHILI WANG

New programming approaches for ABI: old ideas rethought ANJA KURZ

HALL 3 - 11:45 - 12:45 hours
ORAL COMMUNICATION 32

Topic: **Objective Measures**

Chairman: *Daniel Pérez*

Communication Titles and speakers:

Detection of inner ear malformations based on transimpedance matrix measurement in a group of pediatric patients MARCIN TALAR

Using cortical auditory evoked potentials in middle ear and bone conduction implant users: An objective method to optimise the fitting. MARCUS VOOLA

Cochlear implantation: Predicting the scala tympani volume of the pediatric recipients MARZOUQI SALAMAH

Time course of ECAP slope and loudness perception at different IPG values: A prospective study in 8 patients MAX BLÜMER

Matrix test in pediatric cochlear implant fitting: single-institution experience NADER NASSIF

HALL 4 - 11:45 - 12:45 hours
ORAL COMMUNICATION 33

Topic: **Ethics and Economics**

Chairman: *Sebastiano Picciafuoco*

Communication Titles and speakers:

The Costs of Unaddressed Hearing Loss in Chilean Children with Bilateral Microtia and External Auditory Canal Atresia and Cost Effectiveness of Different Treatment Interventions CAROLINA DER

Financial and environmental impact modelling of cochlear implant surgery under general versus local anaesthesia EMMA STAPLETON

Cost-benefit Analysis of Cochlear Implants: A Societal Perspective JOHAN H.M. FRIJNS

A Systematic Review and Distributional Cost-Effectiveness Analysis of Hearing Health Care in Chile – Equity Concerns and Trade Offs for Bone Conduction Implants MICHAEL URBAN

From Concept to Reality- The pathway of initiating and sustaining the Cochlear Implant Programme in Kenya MUJAHID DIN

Update on cochlear implant candidacy criteria - JAVIER GAVILÁN

HALL 5 - 11:45 - 12:45 hours
ORAL COMMUNICATION 34

Topic: **New Technologies**

Chairman: *Constantino Morera*

Communication Titles and speakers:

Pupillometry in cochleovestibular implantees doing balance tasks JOYCE TANG

First experiences with the mCLIP ARC Partial Prothesis LAVA TAHA

RemoteCheck for Cochlear Implant aftercare in adults' patients LEYRE ANDRÉS USTÁRROZ

A multimodal database and artificial-intelligence pipeline to analyze and predict cognitive impairment in age-related hearing loss MARÍA AMPARO CALLEJÓN

Remote Check as a new Tele-health instrument for cochlear implant recipients: analysis of impact and feasibility of application. FLAVIA SORRENTINO

HALL 6 - 11:45 - 12:45 hours
ORAL COMMUNICATION 35

Topic: **New Technologies**

Chairman: *David Greiner*

Communication Titles and speakers:

Cost-effectiveness of Remote Check in CI cases MOHAMMAD AL BAQEYAH

Intraoperative testing during Cochlear implant Surgery – the utility of the Nucleus SmartNav system PETER MONKSFIELD

Deep neural network based singlechannel noise reduction can improve sound perception in cochlear implant users RAPHAEL KONING

Speech performance and acceptance of the latest noise reduction ForwardFocus technology (SCAN 2 FF) that allows automated noise reduction in an investigational off-the-ear sound processor: a 6-month analysis. EMJAY MASHAL

The impact of the automated ForwardFocus spatial noise reduction feature in the Cochlear™ Nucleus 8@ Sound Processor ESTI NEL

HALL 7 - 11:45 - 12:45 hours
ORAL COMMUNICATION 36

Topic: **Programming and Follow-up**

Chairman: *Javier Santos*

Communication Titles and speakers:

Programming and electrophysiological measurements with cochlear implants in patients after removal of intracochlear schwannomas LUISE WAGNER

Protocol of a randomised control trial to assess remote care vs. in-clinic care for the management of cochlear implant recipients in the first 12 months post activation NICOLA QUARANTA

Unveiling Variability in Cochlear Implant Fitting Levels: A Comprehensive Analysis Across Multiple Clinics BAS VAN DIJK

HALL 8 - 11:45 - 12:45 hours
ORAL COMMUNICATION 37

Topic: **Objective Measures**

Chairman: *Caglar Batman*

Communication Titles and speakers:

Validation of a newly developed SPL Chirp for intracochlear ECochG measurement ADAM WALKOWIAK

Auditory nerve test system (ANTS) in patients with auditory nerve hypoplasia: Alexandria Experience AHMED MEHANNIA

Differences in current spread between bilateral cochlear implants impact the bilateral electrode-nerve interface in children CARINA J. SABOURIN

Evidence and consequence of interrupted cochlear mechanics after implantation. CHRISTO BESTER

Ensuring Auditory Cortex Activation: optimisation of a cochlear implant and its outcomes DAYSE TAVORA-VIEIRA

Evaluation of different visualization methods with a new intraoperative electrocochleography measuring tool THEDA EICHLER

HALL 9 - 11:45 - 12:45 hours
ORAL COMMUNICATION 38

Topic: **CI Adults Outcomes**

Chairman: *Paz Martínez*

Communication Titles and speakers:

Exploring Correlations Between Transtympanic Promontory Stimulation Test Results, Cochlear Implant Electrical Dynamics and Speech Perception in Individuals with Auditory Deprivation GIORGIO LILLI

Cognitive improvement after cochlear implantation in older adults with severe or profound hearing impairment: a prospective, longitudinal, controlled, multicenter study GRIET MERTENS

Speech perception with ECAP-based fitting and with conventional fitting in adult users of MED-EL cochlear implants GUIDO REETZ

Contribution of spectral cues to sound localization in single-sided deafness HILLARY SNAPP

Post-operative Patient Perception of Decisional Regret in Cochlear Implant Recipients SANDRA PRENTISS

Binaural effects and localization ability in cochlear implant users with Single-Sided Deafness and residual hearing in the implanted ear. ARTUR LORENS

HALL 10 - 11:45 - 12:45 hours
ORAL COMMUNICATION 39

Topic: **Bone Conduction Implants**

Chairman: *Marta Álvarez de Linera*

Communication Titles and speakers:

Batched local anaesthetic percutaneous bone-anchored hearing implantations – the Birmingham Experience RUPAN BANGA

Objective measurement of audibility for patients with bone conduction devices using a new skin microphone ANN-CHARLOTTE PERSSON

OSIA 2 – surgical and audiological results PETRA KALITOVÁ

Implantation of Two Generations of Bonebridge After Mastoid Obliteration PIOTR HENRYK SKARZYNSKI

Benefit in speech understanding in noise with the Ponto 5 SuperPower and OpenSound Navigator in BCD users THOMAS WESARG

A Novel Active Transcutaneous Bone Conduction Implant System – preliminary audiological results EMMANUEL MYLANUS

Active Transcutaneous Bone Conduction Implant: Benefits in Children - MIGUEL SARO-BUENDIA

Outcomes and experience of a one-step drill system (MONO) for bone anchored hearing procedures – results from a 12-month multicentre study of 51 patients - RUPAN BANGA

HALL 1 - 14:30 - 15:30 hours
ORAL COMMUNICATION 40

Topic: **Adults Outcomes**

Chairman: *Raquel Manrique*

Communication Titles and speakers:

The cochlear implant challenge in children with multiple disabilities over the past 10 years VALERIA CARAGLI

Hearing rehabilitation in patients with inner ear schwannomas – a single center experience from 78 patients STEFAN PLONTKE

The progress rate of hearing rehabilitation as a function of the cochlear nerve diameter in cochlear implant users TAMÁS TÓTH

Influence of age, ForwardFocus, and number of maxima on speech recognition in noise in cochlear implant users TELSE WAGNER

Effect of microphone directionality setting on sound localization in noise in bilateral and single-sided deaf cochlear implant users THOMAS WESARG

Quality of Life in Elderly Cochlear Implant Recipients: Addressing the Growing Population of Individuals Over 75 Years Old AINA MUNTANER VIVES

HALL 2 - 14:30 - 15:30 hours
ORAL COMMUNICATION 41

Topic: **Objective Measures**

Chairman: *Victor Correia da Silva*

Communication Titles and speakers:

Correlation between the cochlea's anatomical dimensions and electrode array measurements as an early prognostic factor of cochlear implant performance in children. DIMITRIOS PAOURIS

Development of a sensitive stapedius reflex measurement based on electromyographic signal – A sheep model DIRK ARNOLD

Cochlear implantation in vestibular schwannoma surgery: diagnostic accuracy analysis of intraoperative monitoring with intracochlear electrode ELISABETTA ZANOLETTI

Electrode Evolution and safety of activating cochlear implants at day 7 compared to day 28 in children, a randomized study FAISAL ZAWAWI

eSRTs in Cochlear Implant Programming: How to Use Them and Why They Are Important GHADA BINKHAMIS

Using objective measurements to guide electrode placement and fitting in paediatric ABI recipients: the Antwerp University Hospital (UZA) experience GRIET MERTENS

HALL 3 - 14:30 - 15:30 hours
ORAL COMMUNICATION 42

Topic: **Rehabilitation Adults**

Chairman: *Michal Luntz*

Communication Titles and speakers:

Realistic Efficacy Of Two Signal Improving Technologies For Unilateral Recipients Of AB Naida CI Q90 Sound Processor FRANÇOIS BERGERON

Digital speech therapy rehabilitation, ReDi App, for patients with cochlear implants ADELA CORDERO

Individualized, app-based phoneme training for adult CI users NIKKI PHILPOTT

Meludia – an auditory music training program TERESA SOPHIA SCHNEIDER

HALL 4 - 14:30 - 15:30 hours
ORAL COMMUNICATION 43

Topic: **Auditory Brainstem Implants**

Chairman: *Maria Luisa Monteiro*

Communication Titles and speakers:

Pediatric auditory brainstem implant in a series of 112 cases-surgical results and speech development HAO WU

Auditory brainstem implantation: our twelve years' experience with 43 cases ALI EFTEKHARIAN

The impact of ASM 3.0 on speech perception in ABI users ANJA KURZ

Long term outcomes and its relationship with objective measures in children with Auditory brainstem implant RANJITH RAJESWARAN

Cortical plasticity after auditory brainstem implant in congenital hearing loss HAO WU

HALL 5 - 14:30 - 15:30 hours
ORAL COMMUNICATION 44

Topic: **New Technologies**

Chairman: *David Greiner*

Communication Titles and speakers:

Vestibular Implant Stimulation using Pulse Amplitude Modulation versus Pulse Rate and Amplitude Modulation STAN VAN BOXEL

Enhancing Cochlear Implant Electrode Insertion: A Quantitative In-Vitro Assessment of a Novel Robot-Assisted System STEFAN WEDER

A randomised, controlled, multicentre trial of the efficacy and safety of a dexamethasone eluting slim modiolar electrode (CI632D) in a newly implanted adult population with bilateral moderate to profound sensorineural hearing loss: a 6-month co-primary endpoint analysis STEPHEN O'LEARY

Safety and Efficacy of Therapeutic Hypothermia for Residual Hearing Preservation SUHRUD RAJGURU

Fully Robotic Cochlear implant surgery VEDAT TOPSAKAL

HALL 6 - 14:30 - 15:30 hours
ORAL COMMUNICATION 45

Topic: **New Technologies**

Chairman: *Alfonso Bonilla*

Communication Titles and speakers:

Our experience in measurements with SmartNav System VIGEN BAKHSHINYAN

Robot-assisted electrode array insertion VITTORIA SYKOPETRITES

Towards Extracochlear Electric-Acoustic Stimulation of the Auditory System WALDO NOGUEIRA

Experience in robotic cochlear implantation WOLF-DIETER BAUMGARTNER

Single-AAV packaged RNA base editor cures hearing loss induced by OTOF gene mutation YONG TAO

HALL 7 - 14:30 - 15:30 hours
ORAL COMMUNICATION 46

Topic: **Programming and Follow-up**

Chairman: *Valeria Oyanguren*

Communication Titles and speakers:

Early activation after cochlear implantation: a systematic review AFRAH ALSHALAN

App-based self-assessment in clinical practice RAPHAEL KONING

Anomalous pattern of trans-impedance matrix in partial short circuits with a sawtooth impedance DAVIDE COCOZZA

Anatomy-based fitting in unexperienced cochlear implant users EMILIE HEUNINCK

Rehabilitation or fitting – the way to improve the outcomes ZUZANNA LUKASZEWICZ-MOSZYNSKA

HALL 8 - 14:30 - 15:30 hours
ORAL COMMUNICATION 47

Topic: **Bone Conduction Implants**

Chairman: *Daniel Orfila*

Communication Titles and speakers:

BAHA vs conventional hearing aids: which is the best? MICHAEL DALÈ

Three-Dimensional Computer-Assisted Planning for the Simultaneous Placement of Bone Conduction Implant plus Epiplating Systems for Auricular Epithesis: A Functional and Aesthetic Approach for Congenital Aural Atresia MIGUEL SARO-BUENDIA

Bonebridge bone conduction hearing implant: audiological benefit and quality of hearing in children MILAN URÍK

Review of surgical and hearing performance follow-up of active transcutaneous electromagnetic bone conduction implant in a series of more than 100 implants and over 11 years JUAN MIRALLES CUADRADO

Initial Experiences with the Novel Transcutaneous Bone Conduction Implant Sentio NILS PRENZLER

Patient satisfaction with the Cochlear Osia Implant Unilateral vs Bilateral outcomes PETER MONKSFIELD

HALL 9 - 14:30 - 15:30 hours
ORAL COMMUNICATION 48

Topic: **Programming and Follow-up**

Chairman: *Luis Lassaletta*

Communication Titles and speakers:

Individualized mapping of electric-acoustic stimulation for cochlear implant recipients MARGARET DILLON

Using the RemoteCheck for CI aftercare in Young children and adolescents MARIA M. SORIANO REIXACH

Multi-centre clinical study on remote programming in cochlear implant users MARTINA BRENDEL

Nucleus CI22 implants : what happened to it? MICHEL MONDAIN

Voice recognition based on the number of channels in perimodiolar electrode receivers JORGE ALMARIO

Anatomy-based fitting in experienced cochlear implant users: challenges and opportunities ANJA KURZ

HALL 10 - 14:30 - 15:30 hours
ORAL COMMUNICATION 49

Topic: **CI Children Outcomes**

Chairman: *Maria José Lavilla*

Communication Titles and speakers:

Older children functional outcome MOHAMED ALSHEHABI

Genetic polymorphisms of MMP9 and BDNF as a biomarkers of neuroplasticity in prelingual deafness treatment by cochlear implantation. MONIKA MATUSIAK

Cochlear Implantation Outcomes in Pediatrics with Inner Ear Malformations in a Tertiary Care Hospital in Southwest Iran NADER SAKI

Early auditory development of cochlear implanted children with sensorineural hearing loss following congenital CMV infection PIOTR H. SKARZYNSKI

Young Adults with Cochlear Implants: Our Perspective QAIS KHAN

Outcomes of 1500 cochlear implants in the state of u.p. under govt. Program ROHIT MEHROTRA

HALL 2 - 17:30 - 19:00 hours
ORAL COMMUNICATION 50

Topic: **CI Adults Surgery**

Chairman: *Alejo Suárez*

Communication Titles and speakers:

Beyond Insertion: Intracochlear Forces During Release and Fixation of the Electrode Array JAKOB CRAMER

Cochlear Implantation in Advanced Otosclerosis: Utility of Preoperative Radiological Assessment in Predicting Intraoperative Difficulty and Final Electrode Position JEAN-MARC GERARD

Use of S53P4 (Bonalive®) for Cochlear Implantation and VSB surgeries in chronic otitis media cases after CWD surgery JÖRG LANGER

Difficult cases in CI KHALID BADR

Assessing proper electrode array length with OTOPLAN: a retrospective case series MATTIA RAVERA

Using ultrasound imaging to measure skin flap thickness in cochlear implant surgery EMMA STAPLETON

Analysis of reoperation of cochlear implants in the department of otolaryngology pum in Szczecin, Poland MICHAŁ MIELNIK

Results of simultaneous cochlear implantation and translabyrinthine vestibular schwannoma resection ADELA CORDERO DEVESA

Cochlear Implantation in Bilateral Profound Deafness after Head Trauma - MAGUED MASHALY

HALL 3 - 17:30 - 19:00 hours
ORAL COMMUNICATION 51

Topic: **CI Adults Outcomes**

Chairman: *Nuri Özgirgin*

Communication Titles and speakers:

Listening effort and fatigue among cochlear implant users: a scoping review CATO PHILIPS

High-frequency hearing performance with reference to musical perception in cochlear implantees CEREN KARAÇAYLI

Hearing related quality of life response shift due to primary treatment of severe to profound neurosensorial hearing loss with a cochlear implant IOANA BRILL

First results with a cochlear implant fitting method using post-operative electrode location data in newly implanted users DOMINIK RISS

"This instrument is not available in your country": Using adaptation and validation to make a cochlear implant quality of life instrument available in other languages ELENA PUETZER

Is the advanced age an independent risk factor for chronic dizziness after cochlear implantation? FRANCESCO LAZZERINI

Patient Related Outcome Measures (PROMs) In Adult Cochlear Implant Patients GEORGIOS MANTOKOUDIS

HALL 4 - 17:30 - 19:00 hours
ORAL COMMUNICATION 52

Topic: **CI Adults Outcomes**

Chairman: *Juan Manuel Garcia*

Communication Titles and speakers:

Assessment of Speech and Spatial Hearing Abilities in Realistic Sound Environments in Adults and Children MARTA ÁLVAREZ CENDRERO

Revision surgeries after cochlear implantation in our practice - GABOR POLONY

CT-Based Mapping at Initial Activation: A Longitudinal Study of Music and Speech Perception MELANIE LUCILE GILBERT

Is there an optimal CI programming method for single sided deafness and asymmetric hearing loss? MEREDITH HOLCOMB

Variability in clinicians' prediction accuracy for outcomes of adult cochlear implant users NIKKI PHILPOTT

Psycho-acoustic evaluation of apical electric stimulation PAUL VAN DE HEYNING

The influence of cochlear morphology, scalar position and electrode array design on speech perception, residual hearing and hearing preservation following CI surgery RAINER BECK

Visual and Auditory Implicit Learning in Adult Cochlear Implant Users: A Cross-Modal Contribution to Speech Recognition? RANIN KHAYR

Impact of Duration of Deafness on Cochlear Implant Outcome after Sudden Sensorineural Hearing Loss RASMUS SÖNNICHSEN

HALL 5 - 17:30 - 19:00 hours
Oral Communication 53

Topic: **Active Middle Ear Implants**

Chairman: *Enrique Lopez-Poveda*

Communication Titles and speakers:

Speech Performance and Subjective Satisfaction of Middle Ear Implant in Congenital Aural Atresia FARID ALZHRANI

Output limited devices - The role of maximum output and necessary dynamic range HANNES MAIER

Bonebridge and Vibrant Soundbridge: the importance of having a choice in conductive and mixed hearing loss JAVIER GAVILAN

The influence of intraoperative auditory brainstem responses on the coupling quality of vibroplasty and analysis of the impact of the different fixation steps on the coupling. JOACHIM SCHMUTZHARD

The benefit of intra-operative coupling check in active middle ear implant surgeries LUIS LASSALETTA

Simultaneous bilateral implantation of cochlear implant and vibrant soundbridge SAAD ALENZI

Does a notch filter in sound preprocessing of active middle ear implants impact on speech perception? PHILIPP ZELGER

HALL 6 - 17:30 - 19:00 hours
ORAL COMMUNICATION 54

Topic: **New Technologies**

Chairman: *Ángel Ramos de Miguel*

Communication Titles and speakers:

The feasibility of the robotic arm 3D exoscope for cochlear implant surgery AARNO DIETZ

Patient-to-image Registration in Computer-Assisted Surgery of the Head and Neck Region : Insights and Challenges ALEXIS BOZORG GRAYELI

First experience in robot-assisted cochlear implant surgery ALICE AUINGER

Optimizing CI-performance in challenging listening conditions using Virtual-Reality based fitting ANDRÉ GOEDEGEBURE

Individualized cochlear implantation – first experience with a new 34 mm electrode for patients with very long cochleae JOACHIM MÜLLER

Dynamic Visual Acuity Results in Otolith Electrical Stimulation in Bilateral Vestibular Dysfunction ISAURA RODRÍGUEZ MONTESDEOCA

Translation of Nonclinical Outcomes to Human Clinical Trials in the Development of a Genetic Medicine for Otoferlin Gene-mediated Hearing Loss: AK-OTOF ANN E. HICKOX

The vestibulo-cochlear implant: patient perception and implications for fitting BENJAMIN VOLPE

HALL 7 - 17:30 - 19:00 hours
ORAL COMMUNICATION 55

Topic: **Basic Sciences**

Chairman: *Alicia Huarte*

Communication Titles and speakers:

Determination risk factors for severe and profound hearing loss in child candidates for cochlear implantation in southeast of Iran during 2014-2020 JILA AFSHARMANESH

Measurement of spectro-temporal processing by cochlear implant users: effects of stimulus level and further validation of an online test DAKOTA BYSOUTH-YOUNG

Electrically Evoked Cortical Auditory Response via the Implant Electrode: an Objective Tool to Validate CI Map DAYSE TAVORA-VIEIRA

Auditory Listening Effort and Reaction Time: A Comparative Study between Single Sided Deaf Cochlear Implant Users and Normal Hearing Controls MARCUS VOOLA

In Vivo Basilar Membrane Time Delays in Humans MAREK POLAK

How to measure sound localization in a clinical setting? MARTIJN AGTERBERG

Efficacy of AC102 for the Preservation of Residual Hearing Following Cochlear Implantation CHRISTOPH ARNOLDNER

Hearing improvement in deaf children with installation of PRP in ME.is it beneficial - MOHAMMAD AJALLOUEYAN

Development of the Persian Version of Dichotic Offset Measure and Evaluation of Its Psychometric Properties in Normal-hearing Children: A Pilot Study JILA AFSHARMANESH

HALL 8 - 17:30 - 19:00 hours
ORAL COMMUNICATION 56

Topic: **Diagnosis and Genetics**

Chairman: *Camille C. Dunn*

Communication Titles and speakers:

Genetic causes of single-sided deafness and unilateral hearing loss LUKAS VARGA

Electrically evoked auditory brainstem responses in children with auditory neuropathy spectrum disorder MARIA LALAYANTS

Results of genetic examination of adult patients after cochlear implantation MICHAELA TESAŘOVÁ

Rare Case of Prader-Willi Syndrome with Concurrent Severe Bilateral Sensorineural Hearing Loss MICHAIL ATHANASOPOULOS

Genetics of hearing loss in saudi arabia MUSAED ALZAHRANI

Auditory Steady-State Response with CI - is it really evoked potential or artifact detection? GAZIZ TUFATULIN

HALL 10 - 17:30 - 19:00 hours
ORAL COMMUNICATION 57

Topic: **CI Children Surgery**

Chairman: *Carlos Cenjor*

Communication Titles and speakers:

Revision cochlear implantation: About 44 cases FARID BOUDJENAH

St George's Auditory Implant Service – an audit of 17 years of paediatric cochlear implants. HESHAM KHALID

Various Approaches for Round Window Insertion; A systematic review ISRA ALJAZEERI

Insertion of different electrode types in a 3D model of a patient with incomplete partition type III malformation JANEZ REBOL

Feasibility of round window exploration in normal and abnormal anatomy for cochlear implant surgery – our experience SUBBARAYUDU YARLAGADDA

Acquired cholesteatoma after cochlear implant VITTORIA SYKOPETRITES

Advancing Cochlear Implant Programming: X-ray Guided Anatomy-Based Fitting. ASMA ALAMADI

FEBRUARY 24TH

HALL 7 - 08:00 - 08:30 hours
ORAL COMMUNICATION 58

Topic: **Rehabilitation Children**

Chairman: *Saleh Mohebbi*

Communication Titles and speakers:

Beneficial collaboration between Audiology and Rehabilitation: how to promote it? SARA CAVICCHIOLO

Auditory cortical processing and language development in pediatric hearing aid and cochlear implant users with additional disabilities SATU LAMMINMÄKI

Joint Attention in Parent-Child Interactions for Toddlers with Cochlear Implants YOUNGMEE LEE

HALL 1 - 11:45 - 12:45 hours
ORAL COMMUNICATION 60

Topic: **CI Children Surgery**

Chairman: *Justo Gómez*

Communication Titles and speakers:

Absent of important land marks during cochlear implant KHALID BADR

Preoperative Cerebral MRI Abnormalities in Pediatric Cochlear Implant Recipients: How common and how important are they? MAGUED MASHALY

Effect of early activation of cochlear implant on electrode impedance in pediatric population YASSIN ABDELSAMAD

Cochlear Electrode Array Tip Fold-Over In Incomplete Partition-I YAZEED ALSHAWI

HALL 2 - 11:45 - 12:45 hours
ORAL COMMUNICATION 61

Topic: **CI Adults Surgery**

Chairman: *Nicola Quaranta*

Communication Titles and speakers:

Robotized cochlear implantation under fluoroscopy : optimizing the quality of electrode array insertion THIERRY MOM

Residual Hearing and ECAP-thresholds in Cochlear Implant Recipients TIM LIEBSCHER

Outcomes of cochlear implantation in adult patients after bacterial meningitis ZDENĚK FÍK

Hearing Preservation Outcomes using a Pre-Surgical Planning Tool and Robotic Electrode Insertion CAMILE C. DUNN

Evaluating intracochlear new tissue formation following cochlear implantation using ultra high-resolution CT and Transimpedance Matrix. WENDY HUINCK

HALL 3 - 11:45 - 12:45 hours
ORAL COMMUNICATION 62

Topic: **CI Adults Outcomes**

Chairman: *Faustino Núñez*

Communication Titles and speakers:

Comprehensive Assessment of Cochlear Implantation Effects in Unilateral and Asymmetric Hearing Loss: A Prospective Study JUAN CARLOS MARRERO PÉREZ

Revision Cochlear Implantation with Device Manufacturer Conversion – Surgical and Speech Perception Ooutcomes - YIFAT YAAR SOFFER

Dilemmas and cHALLenges in revision cochlear implantation involving device manufacturer conversion: A unique case report. - YISGAV SHAPIRA

Temporal interactions in electric hearing captured by reaction times. IGNACIO CALDERÓN DE PALMA

HALL 4 - 11:45 - 12:45 hours
ORAL COMMUNICATION 63

Topic: **Bone Conduction Implants**

Chairman: *Silvia Borkoski*

Communication Titles and speakers:

Development of a Novel Active Transcutaneous Bone Conduction Implant System - first Clinical Experience and Results from a Multi-center Study EMMANUEL MYLANUS

Minimally invasive subperiosteal pocket technique for Osia 2 system- implantation without fixation ZSOFIA BERE

Exploring Osia's auditory outcome and surgical benefits of posterior placement of BCI300 in children with Microtia FAISAL ZAWAWI

Evaluation of surgery and one-year audiological and quality of life results of an active bone conduction hearing implant Osia® 2 WOJCIECH GAWĘCKI

From Percutaneous to Transcutaneous: Hearing Outcomes and Quality of Life in transitions between Bone Conduction Implant. LEONARDO ELIAS ORDOÑEZ-ORDOÑEZ

Experience with the use of local anesthesia in Bonebridge surgery in Rovereto GIUSEPPE NICOLÒ FRAU

Performance with a new bone conduction implant audio processor in patients with single-sided deafness KOMPIS MARTIN

HALL 5 - 11:45 - 12:45 hours
ORAL COMMUNICATION 64

Topic: **New Technologies**

Chairman: *Constantino Morera*

Communication Titles and speakers:

Structure preservation and noise exposure in robotic CI surgery JAOUAD ABARI

Flex 34: surgical experience and short-term audiological benefit with the longest available electrode array THOMAS KEINTZEL

Fast acclimatization to baseline stimulation and modulation with a multichannel vestibulocochlear implant (VCI) BERND VERMORKEN

HALL 6 - 11:45 - 12:45 hours
ORAL COMMUNICATION 65

Topic: **Bone Conduction Implants**

Chairman: *Carlos de Paula*

Communication Titles and speakers:

Output performance of the novel active transcutaneous bone conduction implant Sentio HANNES MAIER

Active transcutaneous Bone Conduction Implant: Benefit in adults IÑIGO RUIZ DE ERENCHUN

Evaluation of hearing performance in users of bilateral osia® bone conduction device JORGE GUILLERMO CABRERA ORTIZ

Surgical, audiometric and patient satisfaction outcomes of active osseointegrated bone-conduction hearing device (Cochlear Osia 2 system) placement from a tertiary paediatric centre MONA MOZAFFARI

Surgical Outcomes of Modified Technique for Transcutaneous Bone Conduction Hearing Aid Implantation KAYLA HICKS

HALL 7 - 11:45 - 12:45 hours
ORAL COMMUNICATION 66

Topic: **Objective Measures**

Chairman: *Héctor Ruiz*

Communication Titles and speakers:

Cochlear implant: A new objective-based method for measuring the cochlear duct length RABEA ALSABILAH

Tomographic comparison of cochlea, oval window, round window and facial nerve between adults and children and it's influence on cochlear implant surgery. ROGERIO HAMERSCHMIDT

Objective measurements of Cochlear implant electrodes repositioning ROLAND NAGY

A new stapedius-reflex-fitting-method for cochlear implant users RUDOLFS LIEPINS

Continuous intracochlear ECochG measurement to preserve residual hearing in CI surgeries SABINE HAUMANN

HALL 8 - 11:45 - 12:45 hours
ORAL COMMUNICATION 67

Topic: **Several Topics**

Chairman: *Jaime Marco*

Communication Titles and speakers:

Development of living guidelines for cochlear implantation in adults LEO DE RAEVE

Vowel recognition in noise: A comparison of children with cochlear implants and their peers with typical hearing MARCEL SCHLECHTWEIG

Computational simulation and optimization of multipolar stimulation in cochlear implants MARCOS JAVIER HERNÁNDEZ GIL

Pandemic lessons MARIA DA CONCEIÇÃO PEIXOTO

Cochlear Implant Candidacy Based on Unilateral and Binaural Evaluation ULRICH HOPPE

HALL 9 - 11:45 - 12:45 hours
ORAL COMMUNICATION 68

Topic: **Several Topics**

Chairman: *Angelica Pérez Fornos*

Communication Titles and speakers:

Late skin flap breakdown in cochlear implantation MIHAEL RIES

The Prevalence of Central Auditory Processing Disorder in Elementary School Students of Kerman MARYAM AMIZADEH

Incidence and severity of Otitis media in patients with cochlear implant versus a control group, role of polyvalent pneumococcal vaccine and mastoidectomy WALEED FARAG EZZAT

Diagnostics for smart and connected hearing implant care JOERG PESCH

HALL 10 - 11:45 - 12:45 hours
ORAL COMMUNICATION 69

Topic: **Vestibular System**

Chairman: *Carlos Cenjor*

Communication Titles and speakers:

The Effects of Vestibular Rehabilitation on Balance Function in Cochlear Implant Recipients ARASH BAYAT

Vestibular function in cochlear implant recipients BOJANA BUKUROV

Vestibular function in a cohort of children with congenital CMV infection GIOVANNI FREDA

Vestibular Evaluation with Video head impulse test (vHIT) in Pediatric Cochlear Implant Patients TERESA PEREZ

Aetiology of cochlear and peripheral vestibular (CpV) hypofunction in children receiving cochlear implants. KAUKAB RAJPUT

Is intracochlear trauma, cochleostomy and electrode array design influencing postoperative speech perception, tinnitus and vertigo? A prospective study MANUEL CHRISTOPH KETTERER

Voyager

远航人工耳蜗系统



NURONTRON

Enduro

高歌人工耳蜗系统



E-POSTERS

Topic: A. Basic Science

Long-term in vivo pharmacokinetics of dexamethasone-loaded electrode carrier dummies with different types of loading. ARNE LIEBAU

Biodegradable Inner Ear Implants for the Controlled Release of Glucocorticoids in Combination with Cochlear Implants. ERIC LEHNER

Cochlear Implantation: Small Cochlear Diameter May Indicate Degree of Abnormality. FAHAD ALTAMIMI

Topic: B.Diagnosis and Genetics

Perilymph profile as a novel diagnostic tool. ATHANASIA WARNECKE

A Comprehensive Analysis of Auditory Outcomes in Pediatric Acute Bacterial Meningitis: Implications for Steroid Use and Cochlear Implantation. FAISAL ZAWAWI

Two rare cases of unilateral multifocal cochleovestibular schwannoma – genetic analysis and management by surgical resection and cochlear implantation. JONAS SCHEFFLER

Radiological assessment of Algerian children with congenital sensorineural hearing loss. KARIM MESSAOUDI

Kid syndrome: a case report. KARIM MESSAOUDI

Cochlear implantation in auditory neuropathy spectrum disorders. MARIA ISABEL KÓS

Topic: C. CI Children Surgery

Outcomes of cochlear implantation in patients with Down syndrome. ADRIEN GENDRE

Cochlear implantation in children. Single center experience. ALMAT BEKPAN

Usage of “dummy” electrode in meningitis induced singe sided hearing loss. DIMITRIOS PAOURIS

Bilateral Anterior Displaced Sigmoid Sinus in Cochlear Implantation: A Proposed Solution. IHAB SEFEIN

Complications of cochlear implantation in Department of ENT MF CU and NICD Bratislava, Slovakia. IRINA GOLJEROVÁ

Feasibility of Early Device Activation in Cochlear Implant Recipients with Prelingual Deafness. JIANJUN SUN

Difficulties in cochlear implant surgery. KARIM MESSAOUDI

Cochlear implantation in children with X-linked deafness : a case report. KARIM MESSAOUDI

COCHLEAR EXPLANTATION: WHY WE DO IT?. KARIM MESSAOUDI

Modified extended endaural incision: safe minimal approach for cochlear implantation. LOBNA EL FIKY

Topic: D. CI Children Outcomes

Spatial release of masking in congenitally deaf children after sequential bilateral cochlear implantation. ANITA OBRZYCKA

Cochlear Implantation in Children with Auditory Neuropathy Spectrum Disorder: A Clinical Audit of Listening Outcomes and Device Use in a Cohort of 44 Children. CRISTINA SIMOES-FRANKLIN

Surgical-Audiological Urgency: sensorineural hearing loss after meningitis. ENRIQUE GUILLÉN LOZADA

Cochlear Implantation in Children: the earlier, the better. GRACA CRISTINA CARDOSO OLIVEIRA

Predicting Hearing Potential: Does Data logging predict spoken language outcomes?. JUSTINE MAGGS

Assessing post cochlear implant anxiety and corelating it to socio demographic and clinical characteristics. IHAB NADA

Children with Profound and Multiple Learning Difficulties Should we be offering cochlear implants?. JENNIFER ROBERTSON

Predicting Hearing Potential: Are our children achieving full-time use of their hearing technology?. JUSTINE MAGGS

Epidemiological aspects of cochlear implantation In Ouargla (Algeria): A monocentric retrospective study. KARIM MESSAOUDI

‘Slow No’ and ‘Careful Yes’: Development of a predicted outcome scale to inform complex decision making. KATE HANVEY

Early access to language matters: Theory of mind in school-aged children with cochlear implants. KRISTINA BURUM

Evaluating the relation between mothers’ level of depression and their cochlear implanted children’s social performance. LEILA MONSHIZADEH

An online music program for supporting language and communication development in toddlers with cochlear implants (CIs): preliminary results on toddlers’ vocabulary and gestures. LETIZIA GUERZONI

Musical perception in cochlear implant users. Relationship with singing voice. LUIS LASSALETTA

Indications outcomes clinical predictors. MOHAMED ALSHEHABI

Cochlear implant in syndromic inner ear outcome. SAEED ABDULLAH M ALGHAMDI

Cochlear implantation: Experience of the ENT service - Tlemcen University Hospital Center. About 363 cases. MEHTARI NASRINE SIHAM

Auditory neuropathy spectrum disorders and cochlear implantation in children. ZDENKA AKSENOVOVÁ

Topic: E. CI Adults Surgery

Feasibility of Cochlear implantation in an irradiated temporal bone, case report and literature review. BASSAM ALZURAIQI

Vascular variations in cochlear implant surgery. CARMEN HERNANDEZ TORRES

Otoplan, Cochlear implant and Far-advanced otosclerosis: could the use software improve the Surgical final indication?. FRANCESCA GIOELI

Pre-clinical testing and initial results in a clinical study to access the stapedius muscle via a novel retrofacial approach. GERD FABIAN VOLK

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INDUSTRY MEETINGS

HALL 1 NUROTRON Symposium

SYMPOSIUM OPENING

Il Yin
Yongzhi Liu

The State of the Art on Cochlear Implants
Thomas Lenarz

Advances of NUROTRON, Chinese Cochlear Implant and Auditory Brainstem Implant
Hao Wu

Detailed Study of patients with NUROTRON CI, at the Hospital Clínico of Valencia
Jaime Marco

Introduction to NUROTRON Cochlear Implant Technology
Sui Huang

Symposium Closure
Angel Ramos
Manuel Manrique

HALL 1 COCHLEAR Symposium

A lifetime of hearing performance

WELCOME

Angel Ramos Macías (Las Palmas de Gran Canaria)
Manuel Manrique (Pamplona)

EMBARKING ON THE JOURNEY: OPENING REMARKS
Richard Brook (Basel)

Supporting a lifetime of hearing performance
Akira Ishiyama (Los Angeles)

Optimizing surgical care: SmartNav in the operating theatre.
Peter Monksfield (Birmingham)

Empowering possibilities: Navigating life's journey with CI.
Rob Beenders (Mechelen)

Forward Focus: Picturing the future landscape of CI's. Jan Janssen (Sydney)

CLOSURE
Richard Brook, (Basel)

HALL 1 MEDEL Symposium

Cochlear Implantation as Unique as Your Patients

Get a sneak peek into **new innovations** that will transform the future of otological surgery and cochlear implant care.

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HALL 2 Intermedic Seminar

Unveiling BlueLaser Technology:
A cutting-edge tool for otology

Carlos de Paula Vernetta

HALL 4 Oticon Medical Seminar

Proven bone conduction solutions
that can stand the test of time

Emmanuel Mylanus
Peter Monksfield
Rupa Banga
Thomas Wesarg
Louise Waldenby
Marcus Holmberg

HALL 5 Suministros Hospitalarios Seminar

RobOtol[®] and CI surgery: how to
proceed from an early adoption to
become an expert user, which are
the advantages for the patients

Eric Barat
Renato Torres
Antonio Della Volpe
Joachim Muller

HALL 6 Advanced Bionics Seminar

Leading in Technology for Better
Outcomes

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EXHIBITION AREA

LEVEL -1

8

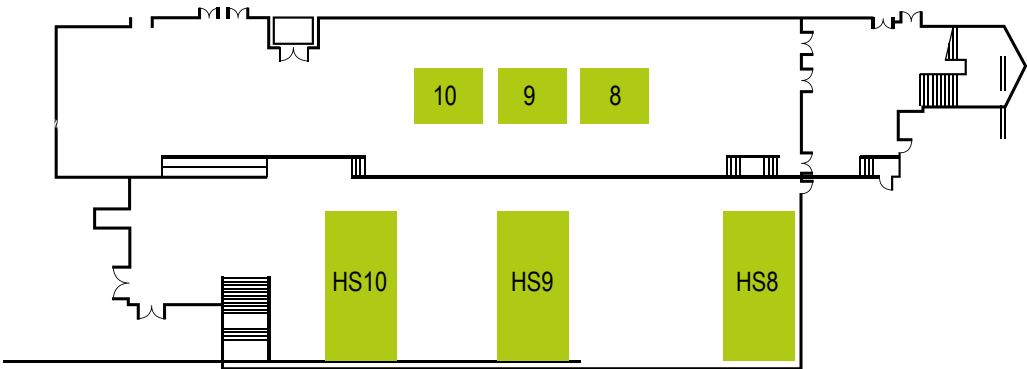
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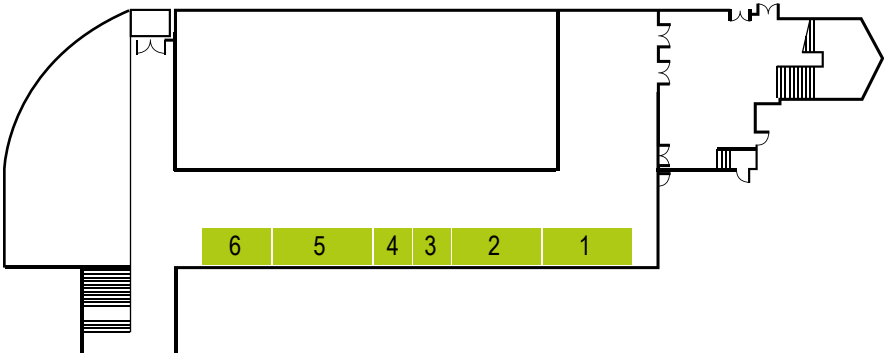
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