AUDITORY NEUROPATHY SPECTRUM DISORDER CONFERENCE: GUIDELINES DEVELOPMENT CONFERENCE

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Co-Chair
Bill Daniels Center for Children’s Hearing

DANIELS FUND
Making life better...one individual at a time.

The Children’s Hospital
Affiliated with University of Colorado at Denver and Health Sciences Center
FINANCIAL DISCLOSURE INFORMATION

• I have no relevant financial relationship with the manufacturers of any commercial products and/or provider of commercial services discussed in this CME activity.

• I do not intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.
GUIDELINES DEVELOPMENT CONFERENCE

- Stimulated by Yvonne Sininger’s *Advances in Children’s Hearing Lecture*: “Update on Auditory Neuropathy” (4/07)
- Developed as a “conference within a conference” and held in conjunction with *NHS2008: Infant and Childhood Hearing in Science and Clinical Practice*, Como Italy
- Included scientific presentations and panel discussion by nine internationally renowned clinicians, hearing scientists, and physicians
MOTIVATION FOR GUIDELINES DEVELOPMENT CONFERENCE

- Significant numbers of very young infants presenting with auditory neuropathy (AN)
- Variable nature of the disorder impacts identification, diagnosis, and management of youngsters with AN
- Significant confusion about
  - Terminology
  - Diagnosis
  - Intervention
  - Parent support and counseling
- Stimulate discussion, debate, and consensus (where possible) among experts
GUIDELINES DEVELOPMENT CONFERENCE ~ FACULTY

- Yvonne Sininger, PhD, ~ UCLA, USA
  Conference Co-Chair
- Arnold Starr, MD, ~ UC-Irvine, USA
- Christine Petit, MD, Ph.D. ~ Pasteur Institute, France
- Gary Rance, PhD ~ U of Melbourne, Australia
- Barbara Cone, PhD ~ U of Arizona, USA
- Patricia Roush, AuD ~ U of N Carolina, USA
- Jon Shallop, PhD ~ Mayo Clinic, USA
- Kai Uus, MD, PhD ~ U of Manchester, UK
- Charles Berlin, PhD ~ U of S Florida, USA
- Deborah Hayes, PhD ~ Bill Daniels Center for Children’s Hearing USA, Moderator & Conference Co-Chair
GUIDELINES DEVELOPMENT CONFERENCE - OUTCOMES

- Monograph with guidelines and scientific papers submitted by conference faculty,
- Guidelines address:
  - Terminology
  - Diagnostic criteria
  - Comprehensive assessments
  - Audiological test battery
  - Amplification strategies
  - Special consideration for cochlear implantation
  - Habilitation for communication development
  - Screening newborns; monitoring infants with “transient” ANSD
  - Parent support
GUIDELINES DEVELOPMENT CONFERENCE – A FEW HIGHLIGHTS

• Terminology
  ▪ Retain auditory neuropathy ~ public and professional familiarity with term
  ▪ Spectrum ~ recognize the vast range of etiologies, presentations, and developmental effects
  ▪ Recommend: auditory neuropathy when discussing with parents and families

• Diagnostic criteria
  ▪ Tests of cochlear (sensory) function
    • Otoacoustic emissions (OAEs) and/or cochlear microphonic (CM)
  ▪ Test of auditory nerve function
    • Auditory brainstem response (ABR)
GUIDELINES DEVELOPMENT CONFERENCE – A FEW HIGHLIGHTS

• Recommended audiological test battery
  ▪ Developmentally appropriate behavioral and physiological measures to assess functional hearing and auditory development in infants and toddlers

• Recommended audiological habilitation
  ▪ Hearing aids and cochlear implant considerations

• Recommended habilitation for communication development
  ▪ Informed choice by families
GUIDELINES DEVELOPMENT CONFERENCE – A FEW HIGHLIGHTS

• Newborn hearing screening
  ▪ Per Joint Committee on Infant Hearing recommendations
  ▪ Do not rely on OAE screening if infant has failed an A-ABR screening or if parent expresses concern about infant’s development

• Supporting parents
  ▪ Parents need to participate with a team of knowledgeable professionals committed to long-term care and follow-up
BACK TO LAGO di COMO

- Dr. Ferdinando Grandori and I:
  - are pleased to announce that the NHS2010 Conference will be held once again in Cernobbio (Como Italy) from June 8 - June 10, 2010.
  - cordially invite you to celebrate the 10th anniversary of the historic Lake Como conferences.
  - for more information: nhs@polimi.it