**When: 14th and 17th-18th May 2021**

**A VIRTUAL COURSE VIA ONLINE PLATFORM**

**Times mentioned below is British Summer Time or BST, which is GMT+1**

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| 14 May 2021: Auditory Brainstem and Steady State Response (ABR/ASSR) Assessment Workshop: Jason Smalley |
| 10.30- 11.00 | Common principles of Auditory Brainstem Response (ABR) and Auditory Steady State Response (ASSR) Tests |
| 11.00- 11.30 | ABR and ASSR Stimuli: Tones, Pips, chirps and clicks |
| 11.30-12.30 | Interpreting the ABR/ASSR response: Clear Response, Response Absent, inconclusive |
| Exercise: ABR and ASSR responses |
| 12.30- 13.00 | LUNCH |
| 13.00-13.45 | ASSR and ABR techniques: 2 channel recordings, CROS hearing and masking |
| Exercise: ABR masking |
| 13.45-14.45 | Strategy, how to use the best test to get you the quickest answer |
| 14.45-15.00 | Refreshment break |
| 15.00-16.00 | Cochlear Microphonics and Auditory Neuropathy Spectrum Disorder |
| 16.00-16.10 | Refreshment break |
| 16.10-17.30 | Case studies and difficult cases |
| Learning outcomes:1. Anatomy and physiology of peripheral and central auditory system with respect to ABR and ASSR
2. Patient preparation and stimulus parameters and why we do things the way we do
3. Good strategy including patient exercises
4. What does normal and abnormal look like? Clear Response, response absent and inconclusive followed by case exercises
5. Masking in ABR
6. Cochlear microphonic and ANSD testing with case studies
7. What to do next exercise
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| **17th May 2021: Paediatric Assessment Workshop****Jay Jindal, Au.D.** |
| **9:00 - 10.00** | Pre – reading / viewing (afternoon material): 1 hour |
| **10.00 – 11.00** | Advanced ear examination: a review of outer and middle ear pathologies and differential diagnosis with ear examination |
| **11.00 - 12.00** | Scientific principles of tympanometry and otoacoustic emission measurement and how to use distortion product OAE in monitoring hearing profile. |
| **12.00 – 12.30** | OAE Demo and close |
| **Learning outcomes:**1. **Delegates will understand how to use ear examination for diagnosing ear pathologies and making onward referrals**
2. **Delegates will have a review of tympanometry and acoustic reflex testing**
3. **Delegates will learn about the parameters, method, interpretation, and clinical use of transient evoked and distortion product otoacoustic emission testing.**
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| **17th May 2021: Paediatric Assessment Workshop****Josephine Marriage, Ph.D.** |
| **13.30 – 13.45** | Zoom Start time: Introduction and Polls 1-3 |
| **13.45 – 14.30** | Reinforcement Theory (RT) for hearing assessment in children  |
| **14.30 – 14.45** | **Quiz and Break** |
| **14.45 - 15.30** | VRA study, signals and judging responses |
| **15.30- 15.45** | **Quiz and Break** |
| **15.45 - 16.30** | Application of reinforcement theory to conditioned play audiometry (CPA) |
| **16.30 - 17.00** | Case study with discussion groups |
| **17.00 – 17.30** | Delegates complete Survey Monkey appraisal form and finish |
| **Learning outcomes:**1. **Delegates will understand foundations of reinforcement theory (RT) and how it relates to behavioural testing with visual reinforcement audiometry (VRA)**
2. **Delegates will become familiar with 2 theories of developmental delay and deviance in testing hearing in children**
3. **Delegates will understand how they can embed these theories into their clinical practice for hearing assessment and management of hearing loss in children**
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| **18th May 2021: Pediatric Amplification Workshop****Marlene Bagatto, Au.D., Ph.D.** |
| **11:05am– 11:15am** | Introduction to paediatric hearing aid fitting |
| **11.15am -11.30am** | Review of using ABR threshold estimations to fit hearing aids for infants |
| **11:30am – 12:10am** | Revisiting RECD basics and applications with demo |
| **12:10am – 12:25am** | Common principles of the Desired Sensation Level Method |
| **12:25am – 12:50am** | Infant-friendly hearing aid verification-Considerations for open fittings |
| **12:50am – 1:05pm** | The Speech Intelligibility Index (SII) as a tool with hearing aid fitting |
| **1:05pm – 1:30pm** |  **BREAK**  |
| **1:30pm – 1:45pm** | Verification Demonstration |
| **1:45pm – 2:30pm** | Noise reduction in paediatric hearing aid fittings |
| **2:30pm – 2:45pm** | Verification Demonstration |
| **2:45pm – 3:15pm** | Frequency lowering in paediatric hearing aid fittings |
| **3:15pm – 3:30pm** | Verification Demonstration |
| **3:30pm – 3:45pm** |  **BREAK** |
| **3:45pm – 4:00pm** | Considerations for fitting bone conduction hearing devices to children  |
| **4:00pm – 4:30pm** | Outcome measures for infants and young children who wear hearing aids |
| **4:30pm – 5:00pm** |  Case studies |
| **5:00pm – 5:15pm** |  **BREAK** |
| **5:15pm – 5:45pm** | Managing mild bilateral hearing loss in children |
| **5:45pm – 6:15pm** | Profound unilateral hearing loss: Fitting CROS/BiCROS hearing systems for children |
| **6:15pm – 6:30pm** | Discussion and wrap-up |
| **Learning Outcomes:**1. **Understanding the scientific principles underlying the common verification and validation techniques in paediatric amplification**
2. **Understanding how to use speech intelligibility index in optimising amplification**
3. **Setting and verifying frequency lowering in paediatric fittings**
4. **Learning about the best practices in managing children with mild and unilateral hearing loss**
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