Certificate course: Post Cochlear Implant Rehabilitation

Instructors: Dr K.R. Meghanadh (MS-ENT) & Dr Udit Saxena (PhD, Audiology).

General Outline

A COCHLEAR IMPLANT is a surgically implanted electronic device that helps in providing the sensation of sound to a person who has severe to profound hearing loss in both ears. It is also used in case of single sided deafness.

Why this course is important

- Most Audiologists/Cochlear Implant clinicians have cochlear Implants course in their graduate/post graduate program, but they are not exposed to in-depth science underlying cochlear implants.
- Cochlear implant manufacturers do offer technical-training but the broad scientific knowledge which is important for clinicians is not covered.
- No practical experience in pre-implant and post-implant audiological tests, mapping, auditory verbal therapy, etc.
- This program will address all the necessary issues, so to provide the framework for best practices in the cochlear implant rehabilitation.

Course content

- **Auditory Neuroscience and Cochlear Implantation**
  - Anatomy and physiology of the auditory system with special reference to cochlear implantation
- **Audiology tests in Cochlear Implantation**
  - Aided/unaided audiograms
  - Speech perception tests in adults and children with cochlear implants.
- **Programming Cochlear Implants/ Mapping of CI**
  - Basic principles involved in the programming/mapping of cochlear implants for children and adults.
• Various speech processing strategies used in cochlear implant processors.
  • Aural (Re)habilitation/Auditory Verbal Therapy for Cochlear Implant Recipients
    o Development of auditory milestones, specific intervention strategies and techniques that can maximize the auditory potential of cochlear implant recipients.
  • Psycho-social and Professional Issues in Cochlear Implant Candidacy & Selection
    o Risk factors associated with cochlear implantation
    o Social and cultural concerns of cochlear implants
    o Selection and fitting of bilateral combinations of cochlear implants and hearing aids
    o Issues related to the quality of life
    o Cost/benefit issues provided by cochlear implants
    o Government regulations overseeing the provision of cochlear implants
    o Practice management issues as they affect the provision of cochlear implant services, specific to adults and children.
  • Troubleshooting of Cochlear Implants
    o Basic hardware of cochlear implant systems
    o Terminologies associated with cochlear implantation
    o Troubleshooting common complaints/complications associated with cochlear implant use, etc

Course Design: The course consists of lecture, laboratory sessions and clinical practical with additional self-study sessions. Clinical posting will be there every day.

Fees: Rs 25000/-

Course Duration: 6 months.

Eligibility to join this course: B.Sc (Speech and Hearing)/BASLP /M.Sc (Speech and Hearing) /MASLP.

Attendance: Students maintaining 80% attendance in classes and clinics will be eligible for writing final exam.
**Pass criteria/ Certification:** Certificate of Completion will be given to the students passing with a minimum 60% of marks. Job consideration will be given to the students passing with distinction >75%. 