

The Cochlear Implant: An Overview

The monograph “The cochlear Implant: An Overview” was edited by Dr. Madhuri Gore. This monograph contains a detailed overview about the cochlear implant (CI), technology involved, candidacy criteria for the CI, pre-operative evaluation, evaluation during surgery and post-operative switch on and the habilitation/rehabilitation aspects.

The first chapter deals with the history of the cochlear implantation in India. This chapter highlights the contribution of the different professionals in introducing the cochlear implant to the Indian population. The second and the third chapters deal with the technological aspects of the cochlear implant and the difference in the physical and the psychophysical aspects between the cochlear implant and the hearing aids.

The fourth and the fifth chapters deal with the candidacy criteria for the cochlear implantation for children as well as for adults. The sixth chapter discusses the importance of electrical Auditory Brainstem Response in deciding the candidacy and also to decide about the ear to be implanted. The seventh and the eighth chapter deal with the surgical issues in auditory implant and the role of audiologist in the operation theatre. The ninth and the tenth chapter discuss the post-operative switch on of the device and the programming of the cochlear implant. It also focuses on the approaches towards advance mapping.

The eleventh and the twelfth chapter deal with the care and maintenance of the speech processor of the cochlear implant and also discuss about how to trouble shoot the device. Chapter thirteen to eighteen focuses on the habilitation of children and adults recipient of cochlear implant and auditory brainstem implant. It focuses on auditory verbal therapy for all the age groups. The nineteenth chapter deals with the case presentation of special population of Meningitis. Chapter twenty through twenty fourth deals with the measurement of speech and language outcome in individuals with cochlear implant using behavioural and electrophysiological measures. The author of the twenty fifth chapter shares the experience of setting up of cochlear implant clinic.