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Titolo	Cochlear implants : an update / / edited by T. Kubo, Y. Takahashi and T. Iwaki
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Descrizione fisica	1 online resource (615 p.)
Altri autori (Persone)	KuboT TakahashiY IwakiT
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Foreword; I. Basic studies; Chronic monopolar high rate stimulation of the auditory nerve - Physiological and histopathological effects; Comparison of promontory and round window stimulation electrical auditory brainstem response in cats; Topographical relationship between the facial nerve, chorda tympani nerve and round window with reference to the surgical approach; Blood flow in ears receiving cochlear implants; Extrusion of a cochlear implant possibly due to silicone allergy - A case report; II. Biocompatibility / Imaging Specific considerations for determining safety with MRI use in cochlear implant patientsThree-dimensional images of the inner ear for preoperative evaluation of cochlear implants; SPECT image analysis using statistical parametric mapping in postlingually deafened adults with cochlear implants; Auditory cortex activation during electrical ear canal stimulation in subjects with severe hearing loss - Preliminary results of a functional magnetic resonance imaging evaluation; Regional cerebral activation during electrical auditory stimulation using

a tympanic electrode

III. Electrophysiological testing  
Auditory neuropathy - The use of electrophysiological tests; Examination of EAP thresholds (NRT thresholds) during Nucleus cochlear implant operations; Electrically evoked compound action potentials in cochlear implant users from the National Taiwan University Hospital; The characteristics of neural response telemetry of the normal cochlea and cochlear malformation; Comparison between promontory and tympanic electrodes in electrical auditory stimulation; Postoperative measurement of neural response telemetry

Changes in electrically evoked compound action potential thresholds after implantation of the Nucleus CI24M device  
IV. New approaches for mapping; A strategy for neural response telemetry capable of approaching the subjective threshold; Reliability of intraoperative tests in cochlear implant fitting; Device programming for a child based on neural response telemetry measurements; The relationship between EABR and EAP thresholds and behavioral T/C levels in pediatric cochlear implantation; Comparison of ECAP threshold with T and C levels in children after Nucleus 24 implantation

Optimization of mapping parameters with neural response telemetry  
Intraoperative measurement of electrically evoked compound action potentials in Nucleus CI24M cochlear implant users - Their relationship to psychophysical performance; Within-subject comparison between NRT predicted MAP and behaviorally measured MAP in Nucleus 24 cochlear implant children using the ACE strategy; Electrically evoked stapedial reflex in cochlear implantation; Considerations for mapping children with limited electrodes; Investigation of the advantages of program selectability in speech processors

V. Speech codings

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