COCHLEAR IMPLANTATION IN POST-MENINGITIC HEARING LOSS

Essay submitted for fulfilment of M.Sc. Degree in Otolaryngology

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ABSTRACT

The cochlea by chronic inflammatory or bony tissue. It commonly occurs after meningitis and has surgical and functional implications regarding cochlear implantation. In most cases, ossification involves only the most basal portion of the cochlea. Complete ossification of the cochlea is unusual. Cochlear obliteration is severe enough to thwart the complete insertion of an electrode array in fewer than 20% of cases.

KEY WORDS

Cochlea

Meningitic

hearing

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List of Abbreviations

ABI	Auditory Brainstem Implantation
ABR	Auditory Brainstem Responses
BKB	Bamford-Kowal-Bench
BSL	Bony Spiral Lamina
CBCT	Cone-Beam Computed Tomography
CERA	Cortical Electrical Response Audiometry
CID	Central Institute for Deaf
CIS	Continuous Interleaved Samples
CNC	Consonant-Noun-Consonant
Cochlear Corp	Cochlear Corporation
Cochlear Ltd	Cochlear Limited Corporation
CSF	Cerebrospinal Fluid
CT	Computed Tomography
DAT	Discrimination after Training Test
dB	Decibel
EABR	Evoked Auditory Brainstem Response
ESP	Early Speech Perception
FDA	Food and Drug Administration
FMRI	Functional Magnetic Resonance Imaging
FSE-MRI	Fast Spin Echo-Magnetic Resonance Imaging
GASP	Glendonald Auditory Screening Procedure
Hib	Haemophilus Influenzae type b
HINT	Hearing in Noise Test

HRCT	High Resolution Computed Tomography
HU	Hounsfield Unit
Hz	Hertz
IAC	Internal Auditory Canal
IAM	Internal Auditory Meatus
LNT	Lexical Neighbourhood Test
LO	Labyrinthitis Ossofocans
LSCC	Lateral Semicircular Canal
MRI	Magnetic resonance imaging
Med-El	Medical Electronic Corporation
NAS	Non Auditory Stimulation
N.Meningitides	Neisseria Meningitides
NF2	Neurofibromatosis-Type 2
NRT	Neural response telemetry
OAEs	Otoacoustic Emissions
PBK	Phonetically Balanced Kindergarten
PCV 7	Heptovalent Pneumococcal Conjugated Vaccine
PMNs	Polymorphonuclear Leukocytes
PP	Postis posterior
PPV 23	23-valent pneumococcal capsular polysaccharide vaccine
PTA	Pure tone audiometry
QOL	Quality of Life
RW	Round Window
RW E Coch G	Round Window Electrocochlear Graphy

RWM	Round Window Membrane
RWN	Round window niche
SCCs	Semicirculars
SGC	Spiral Ganglion Cell
SM	Scala Media
SNHL	Sensorineural Hearing Loss
SPEAK	Spectral Peak
S.Pneumoniae	Streptococcus Pneumoniae
ST	Scala Tympani
SV	Scala Vestibuli
TICA	Totally Integrated Cochlear Amplifier
TNF-α	Tumour Necrosis Factor-α
Vs	Versus
3D	3 Dimensions

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