

References

- **Abbas P., Brown C. and Shallop J. (1999):** Summary of results using the Nucleus C124M implant to record the electricity evoked compound action potential (EAP). *Ear Hear*, 20:45–59.
- **American Speech-Language-Hearing Association. (2004):** *Cochlear Implants*. Available from: www.asha.org/policy.
- **Arnold W., Bredberg G., Gstottner W. and Helms J. (2002):** Meningitis following cochlear implantation, patho-mechanisms, clinical symptoms, conservative and surgical treatments. *ORL J Otorhinolaryngol Relat Spec*, 64:382–389.
- **Ashmore J. (1987):** A fast motile response in guinea pig outer hair cells, the cellular basis of the cochlear amplifier. *J Physiol*, 388:323–347, cited in: Moller A., (Eds), 2006, *Physiology of the cochlea. Hearing: anatomy, physiology and disorders of the auditory system*, 2nded, *California, Elsevier Inc*, 41-56.
- **Bhatia K., Gibbin K., Nikolopoulos T. and O'Donoghue G. (2004):** Surgical complications and their management in a series of 300 consecutive pediatric cochlear implantations. *Otol Neurotol*, 25:730–739.
- **Brinson M. and Graham J. (2007):** Cochlear implantation in children. In: Graham J., Scadding G. and Bull P., (Eds) *Pediatric ENT*, *New York, Springer*, 447-458.
- **British Cochlear Implant Group / Royal National Institute for the Deaf (2009):** Standards for adult cochlear implantation. Available from: <http://www.bcig.org.uk/downloads/pdfs/BCIG%20Adult%20Quality%20Standards%20Final%20Draft%20June%202009.pdf>, (Accessed in 2011).

- **Brown C., Hughes M., Lopez S. and Abbas P. (1999):** Relationship between EABR thresholds and levels used to program the Clarion speech processor. *Ann Otol-Rhino-laryngol*, 177:50–7.
- **Brownell W., Bader C., Bertrand D. and Ribaupierre de Y. (1985):** Evoked mechanical responses of isolated cochlear hair cells. *Science*, 227:194–196, cited in: Moller A., (Eds), 2006, *Physiology of the cochlea, Hearing: anatomy, physiology and disorders of the auditory system*, 2nded, *California, Elsevier Inc*, 41-56.
- **Buechner A., Frohne-Buechner C., Gaertner L., Lesinski-Schiedat A., Battmer R. and Lenarz T. (2006):** Evaluation of advanced Bionics® high resolution mode. *International J of Audiol*, 45(7):407-416, Available from: <http://informahealthcare.com/doi/abs/10.1080/14992020600625155>, (accessed in 2011).
- **Chatterjee M. and Zwislocki J. (1998):** Cochlear mechanisms of frequency and intensity coding. Dynamic range and the code for loudness, *Hear Res*, 124:170–181.
- **Christopher W., Douglad B. and David H. (2006):** Management of cerebrospinal fluid leakage from cochleostomy during cochlear implant surgery. *Laryngoscope*, 116(11):2055-2059.
- **Clark G. (2003):** Surgery. In: Beyer R. and Clark G., (Eds), *Cochlear implants, fundamentals and application*, *New York, Springer-Verlag Inc*, 595-653.
- **Clark G. (2003):** Surgical anatomy. In: Beyer R. and Clark G., (Eds) *Cochlear implants fundamentals and applications*, *New York, Springer-Verlag*, 85-99.

- **Cohen L., Saunders E. and Clark G. (2001):** Psychophysics of a prototype peri-modiolar cochlear implant array. *Hearing Resear*, 155:63–81.
- **Cohen N. and Hoffman R. (1993):** Surgical complications of multichannel cochlear implants in North America. *Adv Otolaryn*, 48:70–74.
- **Cohen N. and Roland J. (2006):** complications of Cochlear Implant surgery. In: Waltzman S. and Ronlad J., (Eds), Cochlear implants, 2nded, New York, Thieme Medical publisher Inc, 126-132.
- **Cohen N. (2000):** Surgical techniques for cochlear implants. In: Cohen N., Waltzman S. and Roland J. (Eds), Cochlear implants, New York, Thieme Medical publisher Inc, 151-58.
- **Collet L., Kemp D., Veuillet E., Duclaux R., Moulin A. and Morgon A. (1990):** Effect of contralateral auditory stimuli on active cochlear micro-mechanical properties in human subjects. *Hear Res*, 43:251–262.
- **Colletti V., Fiorino F., Carner M., Francesco G, Sacchetto L. and Giarbini N. (2000):** New approach for cochlear implantation, cochleostomy through the middle fossa. *Otolaryngol Head Neck Surg*, 123:467–474.
- **Collins M. (1997):** Cochlear implantation in a district general hospital problems and complications in the first five years. *J Laryngol Otol.*, 111:325–332.
- **Dallos P. and Fakler B. (2002):** A new type of motor protein. *Nat Rev Mol Cell Biol*, 3:104–111.
- **Dazert S., Sudhoff H. and Hildmann H. (2006):** Cochlear implantation. In: Hildmann H. and Sudhoff H., (Eds.), Middle Ear Surgery, New York, Springer-Verlag Inc, 146-152.
- **Dodson K., Maiberger P. and Sismanis A. (2007):** Intracranial complications of cochlear implantation. *Otol Neurotol*, (4):459-462.

- **Fahy C., Carney A., Nikolopoulos T., Ludman C. and Gibbin K. (2001):** Cochlear implantation in children with large vestibular aqueduct syndrome and a review of the syndrome. *Int J Pediatr Otorhinolaryngol*, 59:207–215.
- **Falkenberg, E. (2007):** Holistic aural rehabilitation, a challenge *Scandinavian Journal of Disability Research*, 9(2):78-90.
- **Fayad J., Georges W., Micheletto J. and Parisier S. (2003):** Facial nerve paralysis following cochlear implant surgery. *Laryngoscope*, 113(8):1344-6.
- **Frijs J., Briaire J. and Grote J. (2001):** The importance of human cochlear anatomy for the results of modiolus-hugging multichannel cochlear implants. *Otol Neurotol*, 22:340–9.
- **Gacek R. (2008):** Cochlear implant surgery. In Gacek R., (Eds), *Ear surgery, Berlin, Springer-Verlag*, 111-115.
- **Gantz B., Bruce J., Tyler, Richard S., Rubinstein, Jay T., Wolaver, Abigail, Lowder, Mary, Abbas, Paul, Brown, Carolyn, Hughes, Michelle, Preece and John P. (2002):** Binaural cochlear implants placed during the same operation. *Otology & Neurotology*, 23(2):169-180.
- **Gantz B., Tyler R., Abbas P., Tye-Murray N., Knutson J., McCabe B., Lansing C., Brown C J., Woodworth G., Hinrichs J. and Kuk F. (1988):** Evaluation of five different cochlear implant designs, audiologic assessment and predictors of performance *Laryngoscope*, (98):1100-06. Available from: <http://onlinelibrary.wiley.com/doi/10.1288/00005537-198810000-00013/pdf>, (accessed in 2011).
- **Glen T., Arun K., Francis B. and Matthew W. (2003):** Cochlear Implants. *UTMB, Dept. of Otolaryngology*.

- **Gluth M., Driscoll C. and Lalwani A. (2008):** cochlear implants. In: Lalwani A. (Eds), current diagnosis & treatment otolaryngology-head & neck surgery, *New York, the McGraw-Hill companies*, 2:877-887.
- **Graham J., Lynch C. and Weber B. (1999):** The magnetless Clarion cochlear implant in a patient with neurofibromatosis 2. *J Laryngol Otol*, 113:458–63.
- **Gray H. (2000):** Anatomy of the Human Body, *Philadelphia, Lea & Febiger*. available from: www.bartleby.com/107, (accessed in 2011).
- **Guinan J. Jr. and Gifford M. (1988):** Effects of electrical stimulation of efferent olivo-cochlear neurons on cat auditory-nerve fibers II, Spontaneous rate. *Hear Res*, 33:115–128, cited by: Moller A., (Eds), 2006, Physiology of the cochlea, Hearing: anatomy, physiology and disorders of the auditory system, ^{2nd}ed, *California, Elsevier Inc*, 41-56.
- **Gulya A. (2003):** Anatomy of the ear and temporal bone. In Glasscock M., and Gulya A. (eds.), Surgery of the ear, 5thed. *Ontario, Bc Decker Inc*, 35-57.
- **Hamrouge S. and Worsfold S. (2005):** Speech and language therapy in the rehabilitation of an adult with a cochlear implant. In Pedley, K., Giles E. and Hogan, A., (eds.), adult cochlear implant rehabilitation, *London: Whurr Publishers*, 164-206.
- **Hoffman R., Downey L., Waltzman S. and Cohen N. (1997):** Cochlear implantation in children with cochlear malformations. *Am J Otol*, 18:184–7.
- **Hogan A. (2001):** Hearing rehabilitation for deafened adults, a psychosocial approach. *London, Whurr Publisher*, 8:18.
- **House W., Luxford W. and Courtney B. (1985):** Otitis media in children following the cochlear implant. *Ear Hear*, 6:24–6, cited in: Clark G., 2003,

Surgery, In: Beyer R. and Clark G., (Eds), Cochlear implants, fundamentals and application, *New York, Springer-Verlag inc*, 595-653.

- **Hudspeth A. (1989):** How the ear's works work. *Nature*, 341: 97–404, cited by: Moller A., (Eds), 2006, Physiology of the cochlea, Hearing: anatomy, physiology and disorders of the auditory system, ^{2nd}ed, *California, Elsevier Inc*, 41-56.
- **Jiang D., Bibas A. and O'Connor A. (2004):** Minimally invasive approach and fixation of cochlear and middle ear implants. *Clin Otolaryngol*, 29:618–620.
- **Kelsall D., Shallop J., Brammeier T. and Prenger E. (1997):** Facial nerve stimulation after Nucleus 22-channel cochlear implantation. *American journal of Otology*, 18:336-341.
- **Kempf H., Johan K. and Lenarz T. (1999):** Complications in pediatric cochlear implant surgery. *Eur Arch Otorhinolaryngol*, 256:128–132.
- **Kikuchi T., Kimura R., Paul D., Takasaka T. and Adams J. (2000):** Gap junction systems in the mammalian cochlea. *Brain Res Brain Res Rev*, 32:163–166.
- **Kimitsuki T., Inamitsu M., Komune S. and Komiyama S. (1999):** Congenital malformation of the inner ear associated with recurrent meningitis. *Eur Arch Otorhinolaryngol*, 256:11–14.
- **Kronenberg J., Miginov L. and Baumgartner W. (2003):** The supra-meatal approach in cochlear implant surgery, experience with 80 patients. *ORL*, 64:403–406.
- **Kumar A., Mugge R. and Lipner M. (1999):** Surgical complications of cochlear implantation, a report of three cases and their clinical features. *Ear Nose Throat J*, 78:913–919.

- **Lassig A., Zwolan T. and Telian S. (2005):** Cochlear implant failure and revision. *Otology and Neurotology*, 26:624-634.
- **Laurikainen E., Kim D., Didier A., Ren T., Miller J., Quirk W. and Nuttall A. (1993):** Stellate ganglion drives sympathetic regulation of cochlear blood flow. *Hear Res*, 64:199–204.
- **Lefebvre P. and Van De Water T. (2000):** Connexins, hearing and deafness, clinical aspects of mutations in the Connexins 26 gene. *Brain Res Rev*, 32:159–162.
- **Lighthill J. (1991):** Biomechanics of hearing sensitivity. *J Sound Vibration*, 113: 1–13.
- **Luntz M., Balkany T., Hodges A. and Telischi F. (1997):** Cochlear implants in children with congenital inner ear malformations. *Arch Otolaryngol Head Neck Surg*, 123:974–977.
- **Luntz M., Hodges A. and Balkany T. (1996):** Otitis media in children with cochlear implants. *Laryngoscope*, 106:1403–1405.
- **Mann W. and Gosepath J. (2006):** Technical note, minimal access surgery for cochlear implantation with MED-EL devices. *ORL J Otorhinolaryngol Relat Spec*, 68:208–210.
- **Manrique M., Paloma F. and Cervera-Paz I., Ruiz de E. and Garcia-Tapia R. (1995):** Treatment of cutaneous ulceration after cochlear implantation surgery. *Annals of Otology, Rhinology and Laryngology* 104(166):422–425.
- **Marshall A. and Gibbin K. (2008):** Cochlear implants, In Gleeson M. (eds). *Scott-Brawn's Otorhinolaryngology, Head and Neck Surgery*, 7th ed., Great Britain, Hodder Arnold, 239c: 3649- 3659.

- **Marshall A., Fanning N., Symons S., Chen J. and Nedzelski J. (2005):** Cochlear implantation in cochlear otosclerosis. *Laryngoscope*, 115:1728-1733.
- **Mecca M., Wagle W., Lupinetti A. and Parnes S. (2003):** Complication of cochlear implantation surgery. *AJNR Am J Neuroradiol*, 24:2089–2091.
- **Megerian C. and Murray G. (2010):** Cochlear implants, surgical technique. Available from: <http://emedicine.medscape.com/article/857242-treatment>, <http://www.emedicine.com> (Accessed in 2010).
- **Miyamoto R. and Kirk K. (2003):** Cochlear implants. In Bailey, Byron, (Eds), *Head and Neck Surgery—Otolaryngology*, 3rded, Philadelphia, Lippincott-Raven, 1949-59.
- **Miyamoto R. (1995):** Cochlear implants. *Otolaryngologic clinics of North America*, 28(2) 287-294.
- **Moller A. (2006):** Anatomy of the Ear. In: Moller A., (Eds), *Hearing: anatomy, physiology and disorders of the auditory system*, 2nded, California, Elsevier Inc, 3-41.
- **Moller A. (2006):** Physiology of the Cochlea. In: Moller A., (Eds), *Hearing: anatomy, physiology and disorders of the auditory system*, 2nded, California, Elsevier Inc, 41-56.
- **Morgan Y., Ryugo D. and Brown M. (1994):** Central trajectories of type II thin fibers of the auditory nerve in cats. *Hear Res*, 79:74–82.
- **Mountain D. and Cody A. (1999):** Multiple modes of inner hair cell stimulation. *Hear Res*, 132:1–14.
- **Nakashima T., Naganawa S., Sone M., Tominaga M., Hayashi H., Yamamoto H., Liu X. and Nuttall A. (2003):** Disorders of cochlear blood flow. *Brain Res Brain Res Rev*, 43:17–28.

- **National Institutes of Health. (1995):** Cochlear implants in adults and children. NIH consensus statement, 13(2):1-30, available from: <http://jama.ama-assn.org/content/274/24/1955.full.pdf+html>, (accessed in 2011).
- **O'Donoghue G. and Nikolopoulos T. (2002):** Minimal access surgery for pediatric cochlear implantation. *Otol Neurotol*, 23: 891–894.
- **Ohlms L., Edwards M., Mason EO., Igarashi M., Alford B. and Smith R. (1990):** Recurrent meningitis and Mondini dysplasia. *Arch Otolaryngol Head Neck Surg*, 116:608–612.
- **Parisier S., Chute P. and Popp A. (1996):** Cochlear implant mechanical failures. *Am J Otol*, 17:730-734.
- **Parisier S., Chute P., Weiss M., Hellman S. and Wang R. (1991):** Results of cochlear implant reinsertion. *Laryngoscope*, 101:1013-1015.
- **Patrick J., Busby P. and Gibson P. (2006):** The developments of the Nucleus Freedom cochlear implant system. *Trends in Amplification*, 10(4):175-200.
- **Pawlowski K. (2004):** Anatomy and Physiology of the Cochlea. In Roland P. and Rutka J., (Eds), *Ototoxicity, Ontario, BC Decker Inc*, 1-27.
- **Pedley K. and Giles E. (2005):** The assessment of adult cochlear implant candidates. In Pedley K., Giles E. and Hogan, A., (Eds), *adult cochlear implant rehabilitation, London, Whurr Publishers*, 8-49.
- **Porter G. and Gadre A. (2003):** Cochlear implants. Available from: <http://www.utmb.edu/otoref/Grnds/Cochlear-implants-030205/Cochlear-implants-030205.doc> <http://www.utmb.edu> (accessed in 2011).

- **Postelmans J., Cleffken B. and Stokroos R. (2007):** Post-operative complications of cochlear implantation in adults and children: five years experience in Maastricht. *Journal of Laryngology & Otology*, 121:318-323.
- **Probst R. (2006):** Anatomy and Physiology of the Ear. In: Basic Otorhinolaryngology, *New York, Thieme Medical publisher Inc*, 153-164.
- **Puel J. and Rebillard G. (1990):** Effect of contralateral sound stimulation on distortion product 2F1–F2, Evidence that the medial efferent system is involved. *J Acoust Soc Am.*, 87: 1630–1635.
- **Puel J. (1995):** Chemical synaptic transmission in the cochlea. *Prog Neurobiol*, 47: 449–476.
- **Roland J. Jr., Huang T. and Cohen N. (2006):** Revision cochlear implantation. *Otolaryngol Clin N Am.*, 39(4): 833–839.
- **Roland J. (2000):** Complications of cochlear implant surgery. In: Waltzman S. and Cohen N., (Eds), Cochlear implants, *New York, Thieme*, 171–175.
- **Roland J., Huang T. and Fishman A. (2006):** Cochlear implant electrode history, choices and insertion techniques. In: Waltzman S. and Ronlad J., (Eds), Cochlear Implants, 2nded, *New York, Thieme Medical publisher Inc*, 110-125.
- **Roland P. (2003):** Cochlear Implants. In: Glasscock M, and Gulya A., (Eds), Surgery of the ear, 5thed, *Ontario Bc Decker Inc*, 576-612.
- **Rubinstein J., Gantz B. and Parkinson W. (1999):** Management of cochlear implant infections. *Am J Otol*, 20:46–49.
- **Saunders E., Cohen L., Aschendorff A., Shapiro W., Knight M., Stecker M., Richter B., Waltzman S., Tykocinski M., Roland T., Laszig R. and Cowan R. (2002):** Threshold, comfortable level and impedance changes as a function of electrode-modiolar distance. *Ear and Hearing*, 23(1):28–40.

- **Sennaroglu L., Sarac S. and Turan E. (2005):** Modified minimal access surgery for Med EL and Clarion cochlear implants. *Laryngoscope*, 115:921–924.
- **Shallop J., Facer G. and Peterson A. (1999):** Neural response telemetry with the nucleus CI24M cochlear implant. *Laryngoscope*, 109:1755–9.
- **Shallop J., Peterson A., Facer G., Fabry L. and Driscoll C. (2001):** Cochlear implants in five cases of auditory neuropathy, postoperative findings and progress. *Laryngoscope*, 111(4):555–62.
- **Sharma A. and Dorman M. (2006):** Central Auditory Development in Children with Cochlear Implants: Clinical Implications. *Adv Otorhinolaryngol*, 64: 66–88.
- **Shera C. and Guinan J. (1999):** Evoked otoacoustic emissions arise by two fundamentally different mechanisms, a taxonomy for mammalian OAEs. *J Acoust Am*, 7-25.
- **Spelman F. (1999):** The past, present and future of cochlear prostheses. *IEEE Eng Med Biol Mag*, 18:27-33.
- **Teissl C., Kremser C., Hochmair E. and Hochmair D. (1999):** Magnetic resonance imaging and cochlear implants, compatibility and safety aspects. *J Magn Reson Imaging*, 9:26–38.
- **Toner J. (2008):** Pediatric cochlear implantation. In: Gleeson M. eds, *Scott-Brown's Otolaryngology, Head and Neck Surgery*, 7th ed, Edward Arnold, 12(70): 860-868.
- **Tye-Murray (2005):** Adult Cochlear Implant Rehabilitation, Forward. In: Pedley K., Giles and Hogan A., (Eds.), *London, Whurr Publishers*, 9:115-163.

- **U.S. Food and Drug Administration (2008):** FDA public health notification, continued risk of bacterial meningitis in children with cochlear implants with a positioner beyond twenty-four months post-implantation, <http://www.fda.gov/cdrh/safety/cochlear.html>. Available from: <http://www.fda.gov/> (Accessed in 2010).
- **Wackym P. and Firszt J. (2004):** Cochlear implant surgery. In: Haberman R., (Eds), Middle ear and mastoid surgery, *New York, Thieme Medical publisher Inc*, 230-244.
- **Wangemann P. (2002a):** Adrenergic and muscarinic control of cochlear endolymph production. *Adv Otorhinolaryngol*, 59:42–50.
- **Wangemann P. (2002b):** K⁺ cycling and the endocochlear potential. *Hear Res*, 165:1–9.
- **Weber B., Dillo W., Dietrich B., Maneke I., Bertram B. and Lenarz T. (1998):** Pediatric cochlear implantation in cochlear malformation. *Am J Otol*, 19:747–753.
- **Weber B., Lenarz T. and Dillo W. (1997):** Malformations in cochlear implant patients. *Am J Otol*, 18 Suppl, 6:64–65.
- **Youssefzadeh S., Baumgartner W. and Dorffner R. (1998):** MR compatibility of Med EL cochlear implants, clinical testing at 1.0 T. *J Comput Assist Tomogr*, 22:346–50.
- **Zhang S., Robertson D., Yates G. and Everett A. (1999):** Role of L-type Ca⁺ channels in transmitter release from mammalian inner hair cells I, Gross sound-evoked potentials. *J Neurophysiol*, 82:3307–3315.
- **Zwislocki J. (1991):** What is the cochlear place code for pitch? *Acta Otolaryngol (Stockh)*, 111:256-262.