

**BILATERAL COCHLEAR IMPLANTATION**  
**PEER REVIEWED JOURNAL ARTICLES**  
as of February 2008

**Bilateral Cochlear Implantation Review Articles**

1. Brown KD, Balkany TJ. Benefits of bilateral cochlear implantation: a review. *Curr Opin Otolaryngol Head Neck Surg* 2007; 15: 315-318.
2. Das S, Buchman CA. Bilateral cochlear implantation: Current concepts. *Current Opinion in Otolaryngology & Head & Neck Surgery* 2005;13: 290-293.
3. Murphy J, O'Donoghue G. Bilateral cochlear implantation: An evidence-based evaluation. *Laryngoscope* 2007;117: 1412-1418.
4. Noble W, Tyler R, Dunn C, Witt S. Binaural hearing has advantages for cochlear implant users also. *Hearing Journal* 2005;58: 56-64.
5. Papsin BC, Gordon KA. Bilateral cochlear implants should be the standard for children with bilateral sensorineural deafness. *Curr Opin Otolaryngol Head Neck Surg* 2008; 16:69-74.
6. Van Hoesel RJM. Exploring the benefits of bilateral cochlear implants. *Audiology & Neuro-Otology* 2004;9: 234-246.

**Bilateral Cochlear Implantation In Children**

1. Bauer PW, Sharma A, Martin K, Dorman M. Central auditory development in children with bilateral cochlear implants. *Arch Otolaryngol Head Neck Surg* 2006;132:1133-6.
2. Beijen J-W, Snik AFM, Mylanus EAM. Sound localization ability of young children with bilateral cochlear implants. *Otol Neurotol* 2007;28:479-485.
3. Galvin KL, Mok M, Dowell RC. Perceptual benefit and functional outcomes for children using sequential bilateral cochlear implants. *Ear Hear* 2007;28:470-482.
4. Kuhn-Inacker H, Shehata-Dieler W, Müller J, Helms J. Bilateral cochlear implants: a way to optimize auditory perception abilities in deaf children? *Intl J Pediatr Otorhinolaryngol* 2004;68:1257-1266.
5. Litovsky RY, Johnstone PM, Godar S. Benefits of bilateral cochlear implants and/or hearing aids in children. *Int J Audiol* 2006;45 (Suppl):78-91.
6. Litovsky RY, Johnstone PM, Godar S, et al. Bilateral cochlear implants in children: localization acuity measured with minimum audible angle. *Ear Hear* 2006;27: 43-59.
7. Peters BR, Litovsky R, Parkinson A, Lake J. Importance of age and post-implantation experience on speech performance in children with sequential bilateral cochlear implants. *Otol Neurotol* 2007;28: 649-657.

## **Bilateral Cochlear Implantation In Children, continued**

8. Scherf F, van Deun L, van Wieringen A, et al. Hearing benefits of second-side cochlear implantation in two groups of children. *Int J Pediatr Otorhinolaryngol* 2007;71: 1855-63.
9. Steffens T, Lesinski-Schiedat A, Strutz J, et al. The benefits of sequential bilateral cochlear implantation for hearing-impaired children. *Acta Otolaryngol.* 2007;22:1-13.
10. Wolfe J, Baker S, Caraway T, et al. 1-year postactivation results for sequentially implanted bilateral cochlear implant users. *Otol Neurotol* 2007; 28:589-596.

## **Bilateral Cochlear Implantation In Adults**

1. Au DK, Hui Y, Wei WI. Superiority of bilateral cochlear implantation over unilateral cochlear implantation in tone discrimination in Chinese patients. *Am J Otolaryngol* 2003;24:19-23.
2. Buss E, Pillsbury HC, Buchman CA, et al. Multicenter U.S. bilateral MED-EL cochlear implantation study: speech perception over the first year of use. *Ear Hear* 2008;29: 20-32.
3. Dunn CC, Tyler RS, Witt SA, Gantz BJ. Effects of converting bilateral cochlear implant subjects to a strategy with increased rate and number of channels. *Ann of Oto Rhinol Laryngol* 2006;115:425-432.
4. Gantz BJ, Tyler RS, Rubenstein JT, Wolaver A, et al. Binaural cochlear implants placed during the same operation. *Otol Neurotol* 2002;23:169-180.
5. Grantham DW, Ashmead DH, Ricketts TA, et al. Horizontal-plane localization of noise and speech signals by postlingually deafened adults fitted with bilateral cochlear implants. *Ear Hear* 2007; 28:524-41.
6. Laszig R, Aschendorff A, Stecker M, Müller-Deile J, et al. Benefits of bilateral electrical stimulation with the Nucleus cochlear implant in adults: 6-month postoperative results. *Otol Neurotol* 2004;25:958-968.
7. Litovsky RY, Parkinson A, Arcaroli J, Sammeth C. Simultaneous bilateral cochlear implantation in adults: a multicenter clinical study. *Ear Hear* 2006;27: 714-731.
8. Litovsky RY, Parkinson A, Arcaroli J, Peters R, et al. Bilateral cochlear implants in adults and children. *Arch Otolaryngol Head Neck Surg* 2004;130:648-655.
9. Long CJ, Carlyon RP, Litovsky RY, Downs DH. Binaural unmasking with bilateral cochlear implants. *JARO* 2006;7: 352-360.
10. Müller J, Schön F, and Helms J. Speech understanding in quiet and noise in bilateral users of the MED-EL COMBI 40/40+ cochlear implant system. *Ear Hear* 2002;23:198-206.
11. Neuman A, Haravon A, Sislian N, Waltzman S. Sound-direction identification with bilateral cochlear implants. *Ear Hear* 2007;28: 73-82.

## **Bilateral Cochlear Implantation In Adults, continued**

12. Nopp P, Schleich P, D'Haese P. 2004. Sound localization in bilateral users of MED-EL COMBI 40/40+ cochlear implants. *Ear Hear* 25:205-214.
13. Ramsden R, Greenham P, O'Driscoll M, Mawman D. Evaluation of bilaterally implanted adult subjects with the Nucleus 24 cochlear implant system. *Otol Neurotol* 2005;26:988-998.
14. Ricketts TA, Grantham DW, Ashmead DH, et al. Speech recognition for unilateral and bilateral cochlear implant modes in the presence of uncorrelated noise sources. *Ear Hear*. 2006; 27:763-73.
15. Schleich P, Nopp P, D'Haese P. Head shadow, squelch, and summation effects in bilateral users of the MED-EL COMBI 40/40+ cochlear implant. 2004; *Ear Hear* 25:197-204.
16. Schön F, Müller J, Helms J, Nopp P. Sound localization and sensitivity to interaural cues in bilateral users of the Med-El Combi 40/40+ cochlear implant system. *Otol Neurotol* 2005;26:429-437.
17. Schön F, Müller J, Helms J. Speech reception thresholds obtained in a symmetrical four-loudspeaker arrangement from bilateral users of MED-EL cochlear implants. *Otol Neurotol* 2002;23:710-714.
18. Seeber BU, Baumann U, and Fastl H. Localization ability with bimodal hearing aids and bilateral cochlear implants. *J Acoust Soc Am* 2004;116:1698-709.
19. Senn P, Kompis M, Vischer M, Haeusler R. Minimum audible angle, just noticeable interaural differences and speech intelligibility with bilateral cochlear implants using clinical speech processors. *Audiol Neurotol* 2005;10:342-352.
20. Summerfield AQ, Barton GR, Toner J, McAnallen C, et al. Self-reported benefits from bilateral cochlear implantation in post-lingually deafened adults: randomised controlled trial. *Int J Audiol* 2006;45:1-9.
21. Tyler RS, Dunn CC, Witt SA, Noble WG. Speech perception and localization with adults with bilateral sequential cochlear implants. *Ear Hear* 2007;28(2 Suppl):86S-90S.
22. Tyler RS, Gantz BJ, Rubinstein JT, Wilson BS, Parkinson AJ, et al. Three-month results with bilateral cochlear implants. *Ear Hear* 2002; 23 (1 Suppl): 80S-89S.
23. Tyler RS, Noble W, Dunn C, Witt S. Some benefits and limitations of binaural cochlear implants and our ability to measure them. *Int J Audiol*. 2006; (Suppl 1):S113-9.
24. Verschuur CA, Lutman M, Ramsden R, Greenham P, O'Driscoll M. Auditory localization abilities in bilateral cochlear implant recipients. *Otol Neurotol* 2005; 26:965- 971.
25. van Hoesel RJ, Tyler RS. Speech perception, localization, and lateralization with bilateral cochlear implants. *J Acoust Soc Am* 2003; 113:1617-1630.
26. Wackym PA, Runge-Samuels CL, Firszt JB, et al. More challenging speech-perception tasks demonstrate binaural benefit in bilateral cochlear implant users. *Ear Hear* 2007;28(2 Suppl): 80S-85S.