LIST OF REFERENCES FOR MILD AND UNILATERAL HEARING LOSS

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PREVALENCE

SCHOOL-AGE

- 1. Axelsson A, Aniansson G, Costa O. Hearing loss in school children: a longitudinal study of sensorineural hearing impairment. Scand Audiol. 1987;16(3):137–43.
- 2. Lee D, Gomez-Marin O, Lee H. Prevalence of unilateral hearing loss in children: the National Health and Nutrition Examination Survey II and the Hispanic Health and Nutrition Examinaton Survey. Ear Hear. 1997;19:329–332.
- 3. Lundeen C. Prevalence of hearing impairment among school children. Lang Speech Hear Serv Sch. 1991;22(1):269–71.
- 4. Niskar AS, Kieszak SM, Holmes AE, Esteban E, Rubin C, Brody DJ. Prevalence of hearing loss among children 6 to 19 years of age. JAMA. 1998;279(14):1071–75.
- 5. Niskar AS, Kieszak SM, Holmes AE, Esteban E, Rubin C, Brody DJ. Estimated prevalence of noise-induced hearing threshold shifts among children 6 to 19 years of age: the Third National Health and Nutrition Examination Survey, 1988-1994, U.S. Pediatrics. 2001;108:40–3.
- 6. Rytzner B, Rytzner C. Schoolchildren and noise. The 4 kHz dip-tone screening in 14391 schoolchildren. Scand Audiol. 1981; 10(4):213–6.
- 7. Sorri M, Rantakallio P. Prevalence of hearing loss at the age of 15 in a birth cohort of 12 000 children from northern Finland. Scand Audiol. 1985;14(4):203–7.

NEWBORN PERIOD

- 1. Dalzell L, Orlando M, MacDonald M, Berg A, Bradley M, Cacace A, Campbell D, DeCristofaro J, Gravel J, Greenberg E, Gross S, Pinheiro J, Regan J, Spivak L, Stevens F, Prieve B. The New York State universal newborn hearing screening demonstration project: ages of hearing loss identification, hearing aid fitting, and enrollment in early intervention. Ear Hear. 2000; 21:118–30.
- 2. De Capua B, Costantini D, Martufi C, Latini G, Gentile M, De Felice C: Universal neonatal hearing screening: The Siena (Italy) experience on 19,700 newborns. Early Hum Dev. 2007;83(9):601-6.
- 3. Flynn M, Austin N, Flynn TS, Ford R, and Buckland L: Universal Newborn Hearing Screening introduced to NICU infants in Canterbury Province, New Zealand. The New Zealand Medical Journal. 2004: 117(1206).
- 4. Hille ETM, van Straaten HLM, Verkerk, PH: Prevalence and independent risk factors for hearing loss in NICU infants. Acta Paediatr. 2007;96:1155-8.
- 5. Lévêque M, Schmidt P, Leroux B, Danvin JB, Langagne T, Labrousse M, Chays A: Universal newborn hearing screening: a 27- month experience in the French region of

- Champagne-Ardenne. Acta Paediatr. 2007; 96:1150-4.
- 6. Mehl A, Thomson V: Newborn hearing screening: The great omission. Pediatrics. 1998; 101(1) e4.
- 7. Nagapoornima P, Ramesh A, Srilakshm, Rao S, Patricia PL, Gore M, Dominic M, Swarnarekha: Universal Hearing Screening. Indian J Pediatr. 2007;74:545-9.
- 8. Vohr, B: The Rhode Island Hearing Assessment Program. Rhode Island Medicine. 1995;78:11–13.
- 9. Vohr BR, Carty LM, Moore PE, Letourneau K: The Rhode Island Hearing Assessment Program: experience with statewide hearing screening (1992-1996). J Pediatr. 1998;133:353–357.
- 10. Vohr, B, Simon P, McDermot, C, Kurtzer-White E, Johnson MJ, Topol D: Early Hearing Screening, Detection and Intervention (EHDI) in Rhode Island. Medicine and Health/Rhode Island. 2002; 85(12):369–372.
- 11. Watkin PM, Baldwin M: Confirmation of deafness in infancy. Arch Dis Child. 1999; 81:380–389.
- 12. White KR, Vohr BR, Maxon AB, Behrens TR, McPherson MG, Mauk GW: Screening all newborns for hearing loss using transient evoked otoacoustic emissions. Int J Pediatr Otorhinolaryngol. 1994; 29:203–217.

FLUCTUATING & PROGRESSIVE HEARING LOSS

- 1. Brookhouser PE, Worthington DW, Kelly WJ. Fluctuating and/or progressive sensorineural hearing loss in children. Laryngoscope. 1994;104(8 Pt 1):958–64.
- 2. Tharpe A, Bess F. Minimal, progressive, and fluctuating hearing losses in children. Characteristics, identification, and management. Pediatr Clin North Am. 1999; 46(1):65–78.

OUTCOMES

MILD BILATERAL LOSS: OUTCOMES

- 1. Blair J, Peterson M, Viehwed S. The effects of mild sensorineuroal hearing loss on academic performance of young school-age children. The Volta Review. 1985;87:87–93.
- 2. Briscoe J, Bishop DV, Norbury CF. Phonological processing, language, and literacy: a comparison of children with mild-to-moderate sensorineural hearing loss and those with specific language impairment. J Child Psychol Psychiatry. 2001;42(3):329–40.
- 3. Brown J. Examination of grammatical morphemes in the language of hard-of-hearing children. Volta Review. 1984;86:229–38.

- 4. Davis JM, Elfenbein J, Schum R, Bentler RA. Effects of mild and moderate hearing impairments on language, educational, and psychosocial behavior of children. J Speech Hear Disord. 1986;51(1):53–62.
- 5. Elfenbein JL, Hardin-Jones MA, Davis JM. Oral communication skills of children who are hard of hearing. J Speech Hear Res. 1994; 37(1): 216–26.
- 6. Gilbertson M, Kamhi AG. Novel word learning in children with hearing impairment. J Speech Hear Res. 1995; 38(3):630–42.
- 7. Halliday LF, Bishop DV: Frequency discrimination and literacy skills in children with mild to moderate sensorineural hearing loss. J Speech Lang Hear Res. 2005; 48: 1187–1203.
- 8. Hansson K, Sahlén B, Mäki-Torkko M. Can a "single hit" cause limitations in language development? A comparative study of Swedish children with hearing impairment and children with specific language impairment. Int J Lang Comm Disord. 2007; 42(3): 307–323.
- 9. Most T. Assessment of school functioning among Israeli Arab children with hearing loss in the primary grades. Am Ann Deaf. 2006; 151(3): 327–335.
- 10. Norbury CF, Bishop DV, Briscoe J. Production of English finite verb morphology: a comparison of SLI and mild-moderate hearing impairment. J Speech Lang Hear Res. 2001;44(1):165–78.
- 11. Teasdale TW, Sorensen, MH: Hearing loss in relation to educational attainment and cognitive abilities; A population study. Int J Audiology. 2007; 46:172–175.
- 12. Wake M, Tobin S, Cone-Wesson B, Dahl, HH, Gillam L, McCormick L, Poulakis Z, Richards FW, Saunders K, Ukoumunne OC, Williams, J: Slight/Mild sensorineural hearing loss in children. Pediatrics. 2006; (118):1842–1851.

UNILATERAL LOSS: OUTCOMES

- 1. Bess FH. The unilaterally hearing-impaired child: a final comment. Ear Hear. 1986; 7(1):52–4.
- 2. Bess FH, Klee T, Culbertson JL. Identification, assessment, and management of children with unilateral sensorineural hearing loss. Ear Hear. 1986; 7(1):43–51.
- 3. Bess FH, Tharpe AM. Unilateral hearing impairment in children. Pediatrics. 1984;74(2):206–16.
- 4. Bess FH, Tharpe AM. An introduction to unilateral sensorineural hearing loss in children. Ear Hear. 1986;7(1):3–13.
- 5. Bess FH, Tharpe AM, Gibler AM. Auditory performance of children with unilateral sensorineural hearing loss. Ear Hear. 1986;7(1):20–6.
- 6. Bess F, Tharpe A. Case history data on unilaterally hearing-impaired children. Ear Hear. 1986; 7(1):14–9.

- 7. Bess F, Tharpe A. Performance and management of children with unilateral sensorineural hearing loss. Scand Audiol Suppl. 1988; 30:75–9.
- 8. Bovo R, Martini A, Agnoletto M, Beghi A, Carmignoto D, Milani M, et al. Auditory and academic performance of children with unilateral hearing loss. Scand Audiol Suppl. 1988; 30:71–4.
- 9. Brookhouser PE, Worthington DW, Kelly WJ. Unilateral hearing loss in children. Laryngoscope. 1991;101(12 Pt 1):1264–72.
- 10. Colletti V, Fiorino FG, Carner M, Rizzi R. Investigation of the long-term effects of unilateral hearing loss in adults. Br J Audiol. 1988; 22(2):113–8.
- 11. Culbertson JL, Gilbert LE. Children with unilateral sensorineural hearing loss: cognitive, academic, and social development. Ear Hear. 1986;7(1):38–42.
- 12. Dancer J, Burl NT, Waters S. Effects of unilateral hearing loss on teacher responses to the SIFTER. Screening Instrument for Targeting Educational Risk. Am Ann Deaf. 1995;140(3):291–4.
- 13. Hallmo P, Møller P, Lind O, Tonning FM. Unilateral sensorineural hearing loss in children less than 15 years of age. Scand Audiol. 1986; 15(3):131–7.
- 14. Hartvig Jensen J, Børre S, Johansen PA. Unilateral sensorineural hearing loss in children: cognitive abilities with respect to right/left ear differences. Br J Audiol. 1989; 23(3):215–20.
- 15. Ito K. Can unilateral hearing loss be a handicap in learning? Arch Otolaryngol Head Neck Surg. 1998; 124(12): 1389–90.
- 16. Keller WD, Bundy RS. Effects of unilateral hearing loss upon educational achievement. Child Care Health Dev. 1980;6(2):93–100.
- 17. Kiese-Himmel C. Unilateral sensorineural hearing impairment in childhood: analysis of 31 consecutive cases. Int J Audiol. 2002;41(1):57–63.
- 18. Klee TM, Davis-Dansky E. A comparison of unilaterally hearing-impaired children and normal-hearing children on a battery of standardized language tests. Ear Hear. 1986; 7(1):27–37.
- 19. Niedzielski A, Humeniuk E, Przemyslaw B, Gwizda G: Intellectual efficiency of children with unilateral hearing loss. Int J Pediatr Otorhinolaryngology; 2006; 70: 1529–1532.
- 20. Lieu JE. Speech-language and educational consequences of unilateral hearing loss in children. Arch Otolaryngol Head Neck Surg. 2004;130(5):524–30.
- 21. Oyler R, Oyler A, Matkin N. Unilateral hearing loss: demographics and educational impact. Lang Speech Hear Serv Sch. 1988;19:191–210.
- 22. Oyler R, Oyler A, Matkin N. Warning: A unilateral hearing loss may be detrimental to a child's academic career. The Hearing Journal. 1987; 9:18–22.
- 23. Tieri L, Masi R, Ducci M, Marsella P. Unilateral sensorineural hearing loss in children. Scand Audiol Suppl. 1988; 30:33–6.

MILD BILATERAL & UNILATERAL LOSS: OUTCOMES

- 1. Bess FH. The minimally hearing-impaired child. Ear Hear. 1985; 6(1):43–7.
- 2. Bess F, Dodd-Murphy J, Parker R. Children with minimal sensorineural hearing loss: prevalence, educational performance, and functional status. Ear Hear. 1998;19(5):339–54.
- 3. Davis A, Reeve K, Hind SB: Children with mild and unilateral hearing loss. In: A Sound Foundation Through Early Amplification 2001 Proceedings of the Second International Conference Section V. 2001;179–86.
- 4. Tharpe AM, Bess F. Identification and management of children with minimal hearing loss. Int J Pediatr Otorhinolaryngol. 1991; 21(1): 41–50.
- 5. Wake M, Poulakis Z. Slight and mild hearing loss in primary school children. J Paediatr Child Health. 2004; 40(1-2):11–3.

SPEECH RECOGNITION

MILD BILATERAL LOSS: SPEECH RECOGNITION

- 1. Crandell CC. Speech recognition in noise by children with minimal degrees of sensorineural hearing loss. Ear Hear. 1993;14(3):210–6.
- 2. Needleman AR, Crandell CC. Speech recognition in noise by hearing-impaired and noise-masked normal-hearing listeners. J Am Acad Audiol. 1995;6(6):414–24.

UNILATERAL LOSS: SPEECH RECOGNITION

- 1. Ruscetta MN, Arjmand EM, Pratt SR. Speech recognition abilities in noise for children with severe-to-profound unilateral hearing impairment. Int J Pediatr Otorhinolaryngol. 2005;69(6):771–9.
- 2. Sargent EW, Herrmann B, Hollenbeak CS, Bankaitis AE. The minimum speech test battery in profound unilateral hearing loss. Otol Neurotol. 2001; 22(4):480–6.
- 3. Welsh LW, Welsh JJ, Rosen LF, Dragonette JE. Functional impairments due to unilateral deafness. Ann Otol Rhinol Laryngol. 2004;113 (12):987–93.

AUDITORY PROCESSING

MILD BILATERAL LOSS: AUDITORY PROCESSING

1. Bourland Hicks C, Tharpe A. Listening effort and fatigue in school-age children with and without hearing loss. J Speech Lang Hear Res. 2002;45(3):573–84.

UNILATERAL LOSS: AUDITORY PROCESSING

- 1. Fujiki N, Naito Y, Nagamine T, Shiomi Y, Hirano S, Honjo I, et al. Influence of unilateral deafness on auditory evoked magnetic field. Neuroreport. 1998; 9(14): 3129–33.
- 2. Hartvig Jensen J, Johansen PA, Borre S. Unilateral sensorineural hearing loss in children and auditory performance with respect to right/left ear differences. Br J Audiol. 1989;23(3):207–13.
- 3. Schmithorst VJ, Holland SK, Ret J, Duggins A, Arjmand E, Greinwald J. Cortical reorganization in children with unilateral sensorineural hearing loss. Neuroreport. 2005;16(5):463–7.

UNII ATERAL LOSS: LOCALIZATION

- 1. Humes LE, Allen SK, Bess FH. Horizontal sound localization skills of unilaterally hearing-impaired children. Audiology. 1980;19(6):508–18.
- 2. Newton VE. Sound localisation in children with a severe unilateral hearing loss. Audiology. 1983; 22(2):189–98.

AMPLIFICATION & ACOUSTICS

MILD BILATERAL LOSS: AMPLIFICATION & ACOUSTICS

- 1. Anderson KL, Goldstein H. Speech perception benefits of FM and infrared devices to children with hearing aids in a typical classroom. Lang Speech Hear Serv Sch. 2004;35(2):169–84.
- 2. Bess F. Classroom acoustics: an overview. Volta Review. 2000; 101(5):1-14.
- 3. Crandell CC, Smaldino JJ Classroom acoustics for children with normal hearing and with hearing impairment. Lang Speech Hear Serv Sch. 2000;31:362–70.
- 4. Davis J. Utilization of audition in the education of the hearing-impaired child. In: F Bess, B Freeman, J Sinclair (eds.), Amplification in education. Alex Graham Bell Assn for Deaf: Washington, DC. 1981;109-20.
- 5. Flexer C. Audiological rehabilitation in the schools. ASHA. 1990;32(4):44-5.
- 6. Hawkins DB. Comparisons of speech recognition in noise by mildly-to-moderately hearing-impaired children using hearing aids and FM systems. J Speech Hear Disord. 1984;49(4):409–18.
- 7. Smaldino JJ, Crandell CC. Classroom amplification technology: theory and pPractice. Lang Speech Hear Serv Sch. 2000; 31:371–5.
- 8. Tharpe A, Ricketts T, Sladen D. FM systems for children with minimal to mild hearing loss. ACCESS: Achieving Clear Communication Employing Sound Solutions. Proceedings of Chicago conference, Nov. 2003;191–9.

UNILATERAL LOSS: AMPLIFICATION & ACOUSTICS

1. Kenworthy OT, Klee T, Tharpe AM. Speech recognition ability of children with unilateral sensorineural hearing loss as a function of amplification, speech stimuli and listening condition. Ear Hear 1990;11(4):264-70.

- 2. Kopun JG, Stelmachowicz PG, Carney E, Schulte L. Coupling of FM systems to individuals with unilateral hearing loss. J Speech Hear Res. 1992; 35(1): 201–7.
- 3. McKay S. To aid or not to aid: Children with unilateral hearing loss. Healthy Hearing 2002. http://www.healthyhearing.com/library/article_content.asp?article_id=163
- 4. Updike CD. Comparison of FM auditory trainers, CROS aids, and personal amplification in unilaterally hearing impaired children. J Am Acad Audiol. 1994;5(3):204–9.

INTERVENTION

MILD BILATERAL & UNILATERAL LOSS

- 1. English K, Church G. Unilateral hearing loss in children: an update for the 1990's. Lang Speech Hear Serv Sch. 1999;30:26–31.
- 2. Gordon-Brannan M, Hodson BW, Wynne MK. Remediating unintelligible utterances of a child with a mild hearing loss. Am J Speech Lang Pathol. 1992;1(4):28–38.
- 3. Matkin N, Wilcox A. Considerations in the education of children with hearing loss. Pediatr Clin North Am. 1999; 46(1):143–52.

PSYCHOSOCIAL

- Newman CW, Jacobson GP, Hug GA, Sandridge SA. Perceived hearing handicap of patients with unilateral or mild hearing loss. Ann Otol Rhinol Laryngol. 1997; 106(3): 210–4.
- 2. Stein D. Psychosocial characteristics of school-age children with unilateral hearing losses. J. Acad. Rehabil. Audiol. 1983;16:12–22.
- 3. Watkin P, Baldwin M, Laoide S. Parental suspicion and identification of hearing impairment. Arch Dis Child. 1990;65(8):846–50.

DEGREES OF HEARING LOSS

DEGREES OF HEARING LOSS: OUTCOMES

- 1. Davis JM, Shepard NT, Stelmachowicz PG, Gorga MP. Characteristics of hearing-impaired children in the public schools: part II--psychoeducational data. J Speech Hear Disord. 1981; 46(2):130–7.
- 2. Huttunen KH, Sorri MJ. Long-term outcome of early childhood hearing impairments in northern Finland. Scand Audiol Suppl. 2001;52:106–8.
- 3. Jarvelin MR, Maki-Torkko E, Sorri MJ, Rantakallio PT. Effect of hearing impairment on educational outcomes and employment up to the age of 25 years in northern Finland. Br J Audiol. 1997; 31(3):165–75.

- 4. Kiese-Himmel C, Schroff J KE. Identification and diagnostic evaluation of hearing impairments in early childhood German-speaking infants. Eur Arch Otorhinolaryngol. 1997; 254(3):133–9.
- 5. Moeller M. Early intervention and language development in children who are deaf and hard of hearing. Pediatrics. 2000; 106(3):1–9.
- 6. Pressman L, Pipp-Siegel S, Yoshinaga-Itano C, Deas A. Maternal sensitivity predicts language gain in preschool children who are deaf and hard of hearing. J Deaf Stud Deaf Educ. 1999;4(4):294–304.
- 7. Wake M, Hughes EK, Poulakis Z, Collins C, Rickards FW. Outcomes of children with mild-profound congenital hearing loss at 7 to 8 years: a population study. Ear Hear 2004; 25(1):1–8.

DEGREES OF HEARING LOSS: PARENTS

- 1. Calderon R. Parental involvement in deaf children's education programs as a predictor of child's language, early reading, and social-emotional development. J Deaf Stud Deaf Educ. 2000; (5):140–55.
- 2. Haggard RS, Primus MA. Parental perceptions of hearing loss classification in children. Am J Audiol 1999;8(2):83–92
- 3. Meadow-Orlans K, Mertens D, Sass-Lehrer M, Scott-Olson K. Support services for parents and their children who are deaf or hard of hearing: a national survey. Am Ann Deaf. 1997;142(4):278–88.

DEGREES OF HEARING LOSS: PREVALENCE/SERVICES/AMPLIFICATION

- 1. Shepard NT, Davis JM, Gorga MP, Stelmachowicz PG. Characteristics of hearing-impaired children in the public schools: part I--demographic data. J Speech Hear Disord. 1981; 46(2):123–9.
- 2. Watkin PM. The age of identification of childhood deafness--improvements since the 1970s. Public Health. 1991; 105(4): 303–12.

HARD-OF-HEARING

- 1. Meadow-Orlans K, Mertens D, Sass-Lehrer M, Scott-Olson K. Support services for parents and their children who are deaf or hard of hearing: A National Survey. Am Ann Deaf. 1997;142(4):278–88.
- 2. Pudlas K. Self-esteem and self-concept: Special education as experienced by deaf, hard of hearing and hearing students. British Columbia Journal of Special Education. 1996; 20(1):23–39.
- 3. Ross, M. Don't ignore the hearing of hard of hearing students. Odyssey. 2003; 4(2):14–17.

