

Early years language and development in deaf children – a best evidence scoping review

List of references

Date: November 2017, Author: Dr Sarah Collinson, NDCS

Ambrose, S. E., VanDam, M., Moeller, M. P. (2013) 'Linguistic input, electronic media, and communication outcomes of toddlers with hearing loss', *Ear Hear*, Vol. 35, pp. 139–147.

Ambrose, S.E., Van Dam, M. & Moeller, M.P. (2014) 'Linguistic Input, Electronic Media, and Communication Outcomes of Toddlers with Hearing Loss', *Ear & Hearing*, Vol. 35, number 2, pp.139-147.

Ambrose, S.E., Walker, E.A., Unflat-Berry, L.M. et al. (2015) 'Quantity and Quality of Caregivers' Linguistic Input to 18-Month and 3-Year-Old Children Who are Hard of Hearing', *Ear & Hearing*, Vol. 36, pp.485–595.

Bergeson, T. R., Miller, R. J., & McCune, K. (2006). Mothers' speech to hearing-impaired infants and infants with cochlear implants. *Infancy*, Vol. 10, number 3, pp.221-240

Bernier, A., Calkins, S.D. & Bell, M.A. (2016) 'Longitudinal Associations Between the Quality of Mother–Infant Interactions and Brain Development Across Infancy', *Child Development*, Vol. 87, No. 4, pp.1159–1174

Bibcok, M.B., Carpendale, J.M. & Muller, U. 'Parental scaffolding and the development of executive function', in In C. Lewis & J. I. M. Carpendale, eds., *Social interaction and the development of executive function: New directions in child and adolescent development* (Vol. 123, pp. 17–34). New York: Jossey-Bass

Boons, T., Brokx, J.P.L. et al. (2012) 'Predictors of Spoken Language Development Following Pediatric Cochlear Implantation', *Ear and Hearing*, Vol. 33, Number 5 (Sep-Oct), pp. 616-639.

Bottari D., Nava E., Ley P. & Pavani, F. (2010) 'Enhanced reactivity to visual stimuli in deaf individuals' *Restorative Neurology and Neuroscience*, Vol. 28, pp.167–179.

Brennan-Jones, C.G., White J., Rush R.W. & Law J. (2014) 'Auditory-verbal therapy for promoting spoken language development in children with permanent hearing impairments (Review)', *Cochrane Database of Systematic Reviews*, Issue 3. Art. No.: CD010100. DOI:10.1002/14651858.CD010100.pub2.

Caldwella, A. & Nitttrouer, S. (2013)'Speech Perception in Noise by Children with Cochlear Implants', *Journal of Speech, Language, and Hearing Research*, Vol. 56, pp. 13–30. DOI: 10.1044/1092-4388(2012/11-0338).

Coleman, P K., & Karraker, K. H. (2000) 'Parenting self-efficacy among mothers of school-age children: Conceptualization, measurement, and Predictors', *Family Relations*, Vol. 42, pp. 13-24.

Cross, T. G., Johnson-Morris, J. E., Nienhuys, T. G. (1980) 'Linguistic feedback and maternal speech: Comparisons of mothers addressing hearing and hearing-impaired children', *First Language*, Vol. 1, pp. 163–189.

Cruz, I., Quittner, A.L., Marker, C., DesJardin, J.L. on behalf of the CDaCI Investigative Team (2013) 'Identification of Effective Strategies to Promote Language in Deaf Children with Cochlear Implants', *Child Development*, Vol. 84, No. 2, pp. 543–559. doi:10.1111/j.1467-8624.2012.01863.x

De Boisferon, A.H., Tift, A.H., Minar, N.J & Lewkowicz, D.J. (2015) 'Selective attention to a talker's mouth in infancy: role of audiovisual temporal synchrony and linguistic experience', *Developmental Science*, pp. 1-12. DOI: 10.1111/desc.12381

Desjardin, J.L. (2005) 'Maternal Perceptions of Self-Efficacy and Involvement in the Auditory Development of Young Children with Prelingual Deafness', *Journal of Early Intervention*, Vol.27, No.3, pp.193-209.

DesJardin J.L. & Eisenberg, L. (2007) 'Maternal contributions: Supporting language development in young children with cochlear implants', *Ear & Hearing* Vol. 28, pp.456–469; doi: 10.1097/AUD.0b013e31806dclab

- DesJardin, J. L., Doll, E. R., Stika, C. J., et al. (2014) 'Parental support for language development during joint book reading for young children with hearing loss', *Communication Disorders Quarterly*, Vol. 35, pp.167–181
- Desjardin, J.L., Ambrose, S.E. & Eisenberg, L.S (2009) 'Literacy skills in children with cochlear implants: Implications for early intervention and language development', *Journal of Deaf Studies and Deaf Education*, Vol. 14, pp.22-43. doi: 10.1093/deafed/enn011
- Dilley, L. & Bergeson, T.R. (2010) 'Mothers' use of exaggerated vowel space in speech to hearing-impaired infants with hearing aids or cochlear implants'. 11th International Conference on Cochlear Implants and Other Implantable Auditory Technologies (Stockholm, Sweden).
- Dornan, D., Hickson, L., Murdoch, B., Houston, T. and Constantinescu, G. (2010) 'Is Auditory-Verbal Therapy Effective for Children with Hearing Loss?' *The Volta Review*, vol.110, no.3, pp.361-387
- Ensor, R. and Hughes, C. (2008) 'Content or Connectedness? Mother–Child Talk and Early Social Understanding', *Child Development*, Vol. 79, pp. 201–216; doi:10.1111/j.1467-8624.2007.01120.x
- Fagan M, Bergeson T & Morris K. (2014) 'Synchrony, complexity and directiveness in mothers' interactions with infants pre- and post-cochlear implantation', *Infant Behavior and Development*, Vol. 37, pp.249–57.
- Feirn, R., Sutton, G., Parker, G., Sirimanna, T., Lightfoot, G. & Wood, S. (NHSP Clinical Group) (2013) 'Guidelines for the Assessment and Management of Auditory Neuropathy Spectrum Disorder in Young Infants' (Version 2.2). London: NHS Screening Programmes (Newborn Hearing Screening and Assessment).
- Fink, E., Begeer, S., Peterson, C., Slaughter, V. & Rosnay, M. (2015) 'Friends, friendlessness, and the social consequences of gaining a theory of mind', *British Journal of Developmental Psychology*, Vol.33, Part 1: pp.27-30.
- Fitzpatrick, E.M., Grandpierre, V. et al. (2016) 'Children With Mild Bilateral and Unilateral Hearing Loss: Parents' Reflections on Experiences and Outcomes', *Journal of Deaf Studies and Deaf Education* Vol. 21, no. 1, pp.34-43 .DOI: 10.1093/deafed/env047
- Fitzpatrick, E.M., Hamel, C., Stevens, A. et al. (2016) 'Sign Language and Spoken Language for Children With Hearing Loss: A Systematic Review', *Pediatrics*, Vol.137, Issue 1.
- Gale, E. and Schick, B. (2009) 'Symbol-infused joint attention and language use in mothers with deaf and hearing toddlers', *American Annals of the Deaf*, Vol. 153, pp. 484-503.
- Gallaway, C., & Woll, B. (1994) 'Interaction and childhood deafness', in C. Gallaway & B. J. Richards (Eds.), *Input and Interaction in Language Acquisition* (pp. 197–218). New York, NY: Cambridge University Press.
- Geers, A.E., Nicholas, J.G., Sedley, A.L. (2003) 'Language skills of children with early Cochlear Implantation' *Ear Hear* Vol 24, Number 1 – Suppl., pp.46S-58S.
- Gérard, J.M., Deggouj, M., Hupin, C. et al. (2010) 'Evolution of communication abilities after cochlear implantation in prelingually deaf children', *International Journal of Pediatric Otorhinolaryngology* Vol.74, pp.642-648.
- Giezen, M.R., Baker, A.E. & Escaduro, P. (2014) 'Relationships between spoken word and sign processing in children with cochlear implants', *Journal of Deaf Studies and Deaf Education*, Vol.19, No.1, pp.107-125.
- Haggard, R. S., & Primus, M. A. (1999) 'Parental perceptions of hearing loss classification in children', *American Journal of Audiology*, Issue 8, pp. 83–92.
- Herrera, E., Reissland, N. & Shepherd, J. (2004) 'Maternal touch and maternal child-directed speech: effects of depressed mood in the postnatal period', *Journal of Affective Disorders*, Vol. 81, pp. 29-39. doi:10.1016/j.jad.2003.07.001
- Hoffman, M.F., Quittner, A.L. & Cejas, I. (2015) 'Comparisons of Social Competence in Young Children With and Without Hearing Loss: A Dynamic Systems Framework', *Journal of Deaf Studies and Deaf Education*, Vol.20, No.2, pp.115-124; doi: 10.1093/deafed/enu040

- Holt, R., Beer, J., Kronenberger, W., Pisoni, D. & Lalonde, K. (2012) 'Contribution of Family Environment to Pediatric Cochlear Implant Users' Speech and Language Outcomes: Some Preliminary Findings', *Journal of Speech, Language, and Hearing Research*, June 2012, Vol. 55, 848-864. doi:10.1044/1092-4388(2011/11-0143)
- Holt, R., Beer, J., Kronenberger, W. & Pisoni, D. (2013) 'Developmental Effects of Family Environment on Outcomes in Pediatric Cochlear Implant Recipients', *Otology & Neurotology*, Vol. 34, pp.388-395
- Houston, D.M. (2009) 'Attention to speech sounds in normal-hearing and deaf children with cochlear implants', paper for the 157th Meeting of the Acoustical Society of America. (Portland, Oregon).
- Houston, D. M., Pisoni, D. B., Kirk, K. I., Ying, E. A., & Miyamoto, R. T. (2003) 'Speech perception skills of deaf infants following cochlear implantation: A first report', *International Journal of Pediatric Otorhinolaryngology* Vol. 67, pp. 479–495.
- Houston, D.M. and Bergeson, T.R. (2014) 'Hearing versus listening: Attention to speech and its role in language acquisition in deaf infants with cochlear implants', *Lingua*, Vol. 139, pp.10-25. doi: 10.1016/j.lingua.2013.08.001
- Hubel, G., Schreier, A., Wilcox, B., Flood, M. & Hansen, D. (2017) 'Increasing Participation and Improving Engagement in Home Visitation: A Qualitative Study of Early Head Start Parent Perspectives', *Infants & Young Children*, Vol.30, Issue 1, pp.94-107; doi: 10.1097/IYC.0000000000000078
- Hurtado, N., Marchman, V. A., Fernald, A. (2008) 'Does input influence uptake? Links between maternal talk, processing speed and vocabulary size in Spanish-learning children', *Developmental Science*, Vol.11, Issue 6, pp. F31–F39.
- Kaplan, P.S., Bachorowski, J.-A., Smoski, M.J., Zinser, M. (2001) 'Role of clinical diagnosis and medication use in effects of maternal depression on infant-directed speech', *Infancy*, Vol. 2, pp. 537-548.
- Knoors, H. & Marschark, M. (2012) 'Language Planning for the 21st Century: Revisiting Bilingual Language Policy for Deaf Children', *Journal of Deaf Studies and Deaf Education*, Vol.17, No.3, pp.291-305.
- Koester, L.S., Papousek, H., Smith-Gray, S. (2000) 'Intuitive parenting, communication, and interaction with deaf infants', in P.E. Spencer, C.J. Erting, & M. Marschark (Eds.), *The Deaf Child in the Family and at School: Essays in Honor of Kathryn P. Meadow-Orlans* (pp. 55-71). Mahwah, NJ: Lawrence Erlbaum Associates, Publishers.
- Kral, A. (2013) 'Auditory Critical Periods: A Review from System's Perspective', *Neuroscience*, Issue 247, pp.117-133; doi: 10.1016/j.neuroscience.2013.05.021
- Kuhl, P. K. (2010) 'Brain mechanisms in early language acquisition', *Neuron*, Vol. 67, pp. 713–727
- Lam-Cassettari, C., Wadnerkar-Kamble, M. & James, D. (2015) 'Enhancing parent-child communication and parental self-esteem with a video-feedback intervention: outcomes with prelingually deaf and hard-of-hearing children', *Journal of Deaf Studies and Deaf Education*, Volume 20, Issue 3, pp. 266–274; doi: 10.1093/deafed/env008
- Laugen, N., Jacobsen, K.H., Rieffe, C. & Wichstrøm (2016) 'Predictors of Psychosocial Outcomes in Hard-of-Hearing Preschool Children', *Journal of Deaf Studies and Deaf Education*, Vol.21, Issue 3, pp.259-267; doi: 10.1093/deafed/enw005
- Leffel, K. & Suskind, D. (2013) 'Parent-Directed Approaches to Enrich the Early Language Environments of Children Living in Poverty', *Seminars in Speech and Language*, Issue 34, pp.267-278; doi: 10.1055/s-0033-1353443.
- Levine, D. et al. (2016) 'Language Development in the First Year of Life: What Deaf Children Might Be Missing Before Cochlear implantation', *Otology & Neurotology* 37:e56–e62.
- Leybaert, J. and LaSasso, C.J. (2010) 'Cued Speech for Enhancing Speech Perception and First Language Development of Children With Cochlear Implants', *Trends in Amplification* 14(2) 96 –112; doi: 0.1177/1084713810375567
- Lohmann, H. & Tomasello, M. (2003) 'The role of language in the development of false belief understanding: A training study', *Child Development*, 74, 1130–1144. doi:10.1111/1467-8624.00597
- Lu, J., Jones, A. & Morgan, G. (2016) 'The impact of input quality on early sign development in native and non-native language learners', *Journal of Child Language*, Vol.43, pp.537-552. doi: 10.1017/S0305000915000835

- National Institute of Child Health and Human Development Early Child Care Research Network. (2005) 'Predicting individual differences in attention, memory, and planning in first graders from experiences at home, child care, and school', *Developmental Psychology*, Vol. 41, pp.99–114
- Mancini, P., Giallini, I., et al. (2016) 'Level of emotion comprehension in children with mid to long term cochlear implant use: How basic and more complex emotion recognition relates to language and age at implantation', *International Journal of Pediatric Otorhinolaryngology*, Vol. 87, pp.219-232; doi: 10.1016/j.ijporl.2016.06.033
- Mayberry, R.I. (2007) 'When timing is everything: Age of first-language acquisition effects on second language learning', *Applied Psycholinguistics*, Vol.28, No.3, pp.537-549.
- Mayberry, R.I., Chen, J.-K., Witcher, P. & Klein, D. (2011) 'Age of acquisition effects on the functional organization of language in the adult brain', *Brain and Language*, Issue 119, pp.16-29.
- Mayer, C. & Leigh, G. (2010) 'The Changing Context for Sign Bilingual Education Programs: Issues in Language and the Development of Literacy', *International Journal of Bilingual Education and Bilingualism*, Issue 13, pp. 175–186. doi: 10.1080/13670050903474085
- McCreery, R.W., Walker, E.A. & Spratford, M. (2015) 'Longitudinal Predictors of Aided Speech Audibility in Infants and Children', *Ear and Hearing*, (Nov/Dec), Volume 36 - Supplement 1
- Meristo, M., Hjelmquist, E., Surian, L. & Siegal, M. (2012) 'Language access and theory of mind reasoning: Evidence from deaf children in bilingual and oralist environments', in A. Antonietti, E. Confalonieri & A. Manchetti (Eds.), *Metarepresentation and narrative in educational settings: A cultural framework for reflective thinking*. Cambridge: Cambridge University Press
- Moeller, M. P. & Schick, B. (2006) 'Relations between maternal input and theory of mind understanding in deaf children', *Child Development*, Issue 77, pp. 751–766.
- Moeller, M.P. & Tomblin, J.B. (2015) 'An Introduction to the Outcomes of Children with Hearing Loss Study', *Ear & Hearing* 2015;36;4S–13S)
- Moeller, M.P., Hoover, B., Peterson, B. & Stelmachowicz, P. (2009) 'Consistency of Hearing Aid Use in Infants With Early-Identified Hearing Loss', *American Journal of Audiology* (June 2009) Vol. 18, pp. 14–23.
- Morgan, G., Meristo, M., Mann, W., Hjelmquist, E., Surian, L. & Siegal, M. (2014) 'Mental state language and quality of conversational experience in deaf and hearing children', *Cognitive Development*, Issue 29, pp. 41-49. doi: 10.1016
- Morgan, G. Meristo, M. & Hjelmquist, E. (2016) 'Environment and language experience in deaf children's theory of mind development', in M. de Rosnay and V. Slaughter (eds.), *Environmental Influences on Theory of Mind Development*. London: Psychology Press.
- Most, T. and Michaelis, H. (2012) 'Auditory, Visual, and Auditory–Visual Perceptions of Emotions by Young Children With Hearing Loss Versus Children With Normal Hearing', *Journal of Speech, Language, and Hearing Research* Vol. 55 (August), pp. 1148-1162; doi:10.1044/1092-4388(2011/11-0060)
- Mulla, I. (2011) 'Pre-school Use of FM Amplification Technology'. A thesis submitted to The University of Manchester for the degree of Doctor of Philosophy In the Faculty of Medical and Human Sciences
- Netten, A. P., Rieffe, C., Theunissen, S. C. et al. (2015) 'Early identification: Language skills and social functioning in deaf and hard of hearing preschool children', *International Journal of Pediatric Otorhinolaryngology*, Vol. 79, pp.2221–6; doi:10.1016/j.ijporl.2015.10.008
- Newborn Hearing Systems Conference (2008) *Guidelines for Identification and Management of Infants and Children with Auditory Neuropathy Spectrum Disorder* (Como, Italy). Colorado: Bill Daniels Center for Children's Hearing.
- Newman, R. S., & Hussain, I. (2006) 'Changes in infant preference for infant-directed speech in low and moderate noise by 4.5- to 13-month-olds', *Infancy*, Issue 10, pp. 61–76.
- Nienhuys, T. G., Cross, T. G. & Horsborough, K. M. (1984). Child variables influencing maternal speech style. Deaf and hearing children', *Journal of Communication Disorders*, Issue 17, pp. 189–207.

- Niparko, J.K., Tobey, E.A., Thal, D.J., et al. CDaCI Investigative Team (2010) 'Spoken Language Development in Children Following Cochlear Implantation', *JAMA*, Issue 303, pp.1498-1506.
- Nittrouer, S. (2010) *Early Development of Children With Hearing Loss*. San Diego, CA: Plural Publishing.
- Nittrouer, S. (2016) 'Integrated Language Intervention for Children with Hearing Loss', in: N. M. Young and K.I. Kirk, eds., *Pediatric Cochlear Implantation: Learning and the Brain*. New York: Springer, pp 299-312. doi: 10.1007/978-1-4939-2788-3
- Pénicaud, S., Klein, D. et al. (2013) 'Structural brain changes linked to delayed first language acquisition in congenitally deaf individuals', *NeuroImage*, Volume 66, 1 February 2013, Pages 42–49
- Peterson, C.C. (2004) 'Theory-of-Mind development in oral deaf children with cochlear implants or conventional hearing aids', *Journal of Child Psychology and Psychiatry and Allied Disciplines: official organ of the Association of Child Psychology and Psychiatry*, Vol.45, No.6, pp.1096-1106
- Peterson, C.C. & Siegal, M. (2000) 'Insights into Theory of Mind from Deafness and Autism', *Mind & Language*, Vol.15, Part 1, pp.123-145
- Pisoni, D. B., Conway, C. M., Kronenberger, W., Henning, S., & Anaya, E. (2010) 'Executive function and cognitive control in deaf children with cochlear implants', in M. S. Marschark, ed., *Oxford Handbook of Deaf Studies, Language, and Education* (second edition ed., Vol. 1). New York: Oxford University Press
- Quittner, A.L., Cejas, I., Barket, D.H. & Hoffman, M.F. (2014) 'The Effects of Cochlear Implants on Young, Deaf Children's Development: Longitudinal Analyses of Behavioral Regulation, Attention and Parenting in a National Sample', in S. H. Kirwin, ed., *Cochlear Implants: Technological Advances, Psychological / Social Impacts and Long-Term Effectiveness*. New York: Nova Science Publishers (eBook).
- Quittner, A.L., Cruz, I., Barker, D.H., Tobey, E., Eisenberg, L.S. & Niparko, J.K. on behalf of the CDaCI Investigative Team (2013) 'Effects of Maternal Sensitivity and Cognitive and Linguistic Stimulation on Cochlear Implant Users' Language Development over Four Years', *Pediatrics*, Vol. 16, No.2, pp. 343–8.e3. doi:10.1016/j.jpeds.2012.08.003
- Ratner, N.B. (2013) 'Why Talk with Children Matters: Clinical Implications of Infant- and Child-Directed Speech Research', *Seminars in Speech and Language*, Vol.34, No.4, pp.131-142.
- Raver, S.A., Bobzien, J., Richels, C. et al. (2012) 'Effect of Parallel Talk on the Language and Interactional Skills of Preschoolers with Cochlear Implants and Hearing Aids', *Literacy Information and Computer Education Journal*, Vol.3, Issue 1 (March).
- Raver, S.A., Bobzien, J., Richels, C. et al. (2014) 'Using dyad-specific social stories to increase communicative and social skills of pre-schoolers with hearing loss in self-contained and inclusive settings', *International Journal of Inclusive Education*, Vol.18, Issue 1, pp.18-35; doi: 10.1080/13603116.2012.756543
- Rhoades, E. (2006) 'Research Outcomes of Auditory-Verbal Intervention: Is the Approach Justified?', *Deafness and Education International*, Vol.8, no.3: pp.125-143. Published online in Wiley InterScience. doi: 10.1002/dei.197
- Rinaldi, P., Baruffaldi, F., Burdo S. & Caselli, M.C. (2013) 'Linguistic and pragmatic skills in toddlers with cochlear implant', *International Journal of Language and Communication Disorders*, Vol. 48, Number 6, pp.715-725; doi: 10.1111/1460-6984_12046
- Roberts, M.Y. & Kaiser, A.P. (2011) 'The effectiveness of parent-implemented language interventions: a meta-analysis', *American Journal of Speech and Language Pathology*, Vol. 20, pp.180–199.
- Saint-Georges, C., Chetouani, M., Cassel, R., Apicella, F., Mahdhaoul, A., Muratori, F., Laznik, M. & Cohen, D. (2013) 'Motherese in Interaction: At the Cross-Road of Emotion and Cognition? (A Systematic Review)', *PLoS ONE* Vol. 8, number 10: e78103. doi: 10.1371/journal.pone.0078103
- Schick, B., de Villiers, P., de Villiers J., Hoffmeister, R. (2007) 'Language and Theory of Mind: A Study of Deaf Children', *Child Development*, Vol.78, Number 2 (March / April) pp.376-396.
- Spencer, P. E., Bodner-Johnson, B. A., Gutfreund, M. K. (1992) 'Interacting with infants with a hearing loss', *Journal of Early Intervention*, Issue 16, pp. 64–78.

- Strelnikov, K., Rouger, J., Lagleyre, S., Fraysse, B., Démonet, J.-F., Déguine, O. and Barone, P. (2015) 'Increased audiovisual integration in cochlear-implanted deaf patients: independent components analysis of longitudinal positron emission tomography data', *European Journal of Neuroscience*, Vol. 41, pp. 677–685, 2015. doi: 10.1111/ejn.12827
- Sundqvist, A., Lyxell, B., Jonsson, R. & Heimann, M. (2014) 'Understanding minds: Early cochlear implantation and the development of theory of mind in children with profound hearing impairment', *International Journal of Pediatric Otorhinolaryngology*, Vol. 78, pp.538-544; doi: 10.1016/j.ijporl.2013.12.039
- Szagan, G., & Stumper, B. (2012) 'Age or experience? The influence of age at implantation and social and linguistic environment on language development in children with cochlear implants', *Journal of Speech Language and Hearing Research*, Vol. 55, pp.1640–1654.
- Teti, D. M., & Gelfand, D. M. (1991) 'Behavioral competence among mothers of infants in the first year: The mediational role of maternal self-efficacy', *Child Development*, Vol. 62, 918-929.
- Tomalski, P. (2015) 'Developmental Trajectory of Audiovisual Speech Integration in Early Infancy. A Review of Studies Using the McGurk Paradigm', *Psychology of Language and Communication*, Vol.19, no.2. doi: 10.1515/plc-2015-0006
- Tomasello, M. & Farrar, M.J. (1986) 'Joint Attention and Early Language', *Child Development*, Issue 57, pp.1454-1463.
- Tomblin, J., Harrison, M. and Ambrose, S.E. (2015) 'Language Outcomes in Young Children with Mild to Severe Hearing Loss', *Ear and Hearing*, (Nov/Dec), Volume 36, Supplement 1.
- Topol, D., Girard, N., St. Pierre, L., Tucker, R., & Vohr, B. (2011) 'The effects of maternal stress and child language ability on behavioral outcomes of children with congenital hearing loss at 18-24 months', *Early Human Development* Vol. 87, pp. 807–811; doi:10.1016/j.earlhumdev.2011.06.006
- VanDam, M., Ambrose S.E., Moeller, M.P. (2012) 'Quantity of parental language in the home environments of hard-of-hearing 2-year-olds', *Journal of Deaf Studies and Deaf Education*, Issue 17, pp.402–420.
- Vohr, B., St Pierre, L., Topol, D. et al. (2010) 'Association of maternal communicative behavior with child vocabulary at 18–24 months for children with congenital hearing loss' *Early Human Development* , Vol. 86, pp. 255–260.
- Walker, E.A., McCreery, R.W. & Spratford, M. (2015)'Trends and Predictors of Longitudinal Hearing Aid Use for Children Who are Hard of Hearing', *Ear and Hearing*, (Nov/Dec), Volume 36, Supplement 1
- Wang, D.J., Trehub, S.E., Volkova, A. & van Lieshout, P. (2013) 'Child implant users' imitation of happy- and sad-sounding speech', *Frontiers in Psychology*, Vol.4, Article 351 (June)
- Werker J, and Hensch, T. (2015) 'Critical periods in speech perception: New directions', *Annual Review of Psychology*, Issue 66, pp.173–96
- Wiefferink, C.H., Rieffe, C., Ketelaar, L., De Raeve, L. & Frijns, J. (2012) 'Emotion Understanding in Deaf Children with a Cochlear Implant', *Journal of Deaf Studies and Deaf Education*, Vol. 18, Number 2, pp. 175-186; doi: 10.1093/deafed/ens042
- Wood Jackson, C. & Schatschneider, C. (2014) 'Rate of Language Growth in Children with Hearing Loss in an Auditory-Verbal Early Intervention Program', *American Annals of the Deaf*, Vol.158, No.5 (Winter 2014).
- Yanbay E, Hickson L, Scarinci N, Constantinescu G, Dettman SJ. (2014) 'Language outcomes for children with cochlear implants enrolled in different communication programs' *Cochlear Implants International* , Vol.15, No.3, pp.121–135.
- Yeung, H.H. and Werker, J.F. (2013) 'Lip Movements Affect Infants' Audiovisual Speech Perception', *Psychological Science*, Vol. 24, no.5, pp. 603 –612. doi: 10.1177/0956797612458802.
- Yoshinaga-Itano, C. (2000) 'Successful outcomes for deaf and hard of hearing children', *Seminars in Hearing*, Issue 21, pp.309-325.
- Zupan, B. (2013) 'The Role of Audition in Audiovisual Perception of Speech and Emotion in Children with Hearing Loss', chapter in P. Belin et al., eds., *Integrating Face and Voice in Person Perception*. New York: Springer

-- End --