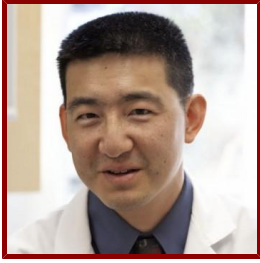



Stanford



Kay Chang

Professor of Otolaryngology - Head and Neck Surgery (Pediatrics) at the Stanford University Medical Center and, by courtesy, of Pediatrics at the Lucile Salter Packard Children's Hospital

Otolaryngology - Head & Neck Surgery Divisions

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Ear Institute**

2452 Watson Ct Ste 1500

Palo Alto, CA 94303

Tel (650) 724-4800

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Jessica Martinez - Administrative Associate

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Bio

BIO

Dr. Chang's clinical practice is based at the Lucile Packard Children's Hospital, and is focused on Pediatric Otolaryngology. He has specific clinical interests in congenital hearing loss, congenital ear anomalies, microtia and atresia reconstruction, and pediatric cochlear implantation. His research interests are also in hearing loss, and include neonatal hearing screening, genetics of hearing loss, otoacoustic emissions, auditory physiology, and ototoxicity. He is actively involved in several human clinical trials looking at the prevention of cisplatin ototoxicity that may drastically decrease the number of children developing hearing loss after chemotherapy, and also presented the Chang Ototoxicity Scale in Journal of Clinical Oncology. His current research interests include the radiologic evaluation of congenital inner ear anomalies, and the analysis of how Connexin-based mutations can alter management of infants with congenital hearing loss.

Dr. Chang received his B.A. magna cum laude at Brown University, graduating Phi Beta Kappa. He continued there for his M.D. degree, receiving the Henry Randall Prize and the Sigma Xi Award. He completed his Otolaryngology residency in Seattle, at the University of Washington. This was followed by a fellowship in Pediatric Otolaryngology at the Children's Hospital of Pittsburgh. He joined the faculty at Stanford University in 2000.

Specialties: Pediatric Otolaryngology, Auditory Research, Ototoxicity, Pediatric Cochlear Implantation, Microtia Reconstruction, Canal Atresia Reconstruction, Medical Device Research and Development

CLINICAL FOCUS

- Cochlear Implants
- Microtia Reconstruction
- Ear Canal Atresia
- Congenital Hearing Loss
- Ototoxicity
- Pediatric Otology
- Endoscopic Ear Surgery
- Congenital Ear Anomalies
- Genetic Hearing Loss
- Connexin 26
- GJB2 Hearing Loss
- Otoacoustic Emissions
- Hearing Loss
- Medical Device Design
- Cochlear Implantation
- Pediatric Otolaryngology
- Cholesteatoma
- Coblation Tonsillectomy
- Intracapsular Tonsillectomy
- Otolaryngology
- Otolaryngology - Head & Neck Surgery (Ear, Nose and Throat)

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Otolaryngology - Head & Neck Surgery Divisions
- Professor - Med Center Line (By courtesy), Pediatrics
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Editorial Board, Otolaryngology, (2012-2014)
- Executive Steering Committee, LPCH Enterprise-Wide Scheduling Initiative, (2012-2014)
- Finance Committee Chair, American Society of Pediatric Otolaryngology (ASPO), (2012-2014)
- Advanced Stanford Leadership Development Program, Stanford University, (2012-2012)
- Chair, Ototoxicity Consensus Conference, International Society of Pediatric Oncology (SIOP), (2010-2010)
- Editorial Board, Otolaryngology - Head and Neck Surgery, (2009-2014)
- Stanford Faculty Fellows Program, Stanford University, (2009-2009)
- Ped/OB FPO Finance Committee, LPCH, (2005- present)
- Faculty Senate, Stanford University School of Medicine, (2005-2008)
- Policy Committee, LPCH, (2004-2005)
- Director of Medical Student Programs, Stanford Otolaryngology, (2002-2011)
- Care Improvement Committee, LPCH, (2001-2011)

HONORS AND AWARDS

- Presidential Scholar, USA (1985)
- Phi Beta Kappa, Phi Beta Kappa (1988)
- Magna Cum Laude, Brown University (1989)
- Milton Hamolsky Prize, Brown University (1989)
- Leonard H. Campbell Scholarship, Brown University School of Medicine (1991)
- Henry Randall Prize, Brown University (1992)
- Sigma Xi Award, Sigma Xi (1992)
- Resident Teaching Award, Stanford Otolaryngology (2003)
- "Excellence in Teaching" award, Stanford University School of Medicine (2004)

- Best Doctors in America, Best Doctors (2005)
- Resident Teaching Award, Stanford Otolaryngology (2010)
- Patients' Choice Award, - (2011-2012)
- Top Ten Doctors, Vitals (2012)
- Castle Connolly's Top Doctors, Castle Connolly (2012)
- Acceptance of Triologic Thesis, Triological Society (2011)
- AAO-HNS Foundation Honor Award, American Acad of Otolaryngology - Head & Neck Surg (2013)
- American Otological Society (AOS), - (2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, International Society of Auricular Reconstruction (ISAR) (2014 - present)
- Member, American Otological Society (AOS) (2014 - present)
- Member, AAO-HNS Hearing Committee (2013 - present)
- Chair, ASPO Finance Committee (2012 - 2014)
- Editorial Board, Otology and Neurotology (2012 - 2014)
- Member, Triologic Society (2011 - present)
- Member, AAO-HNS CPT/RVU Committee (2011 - 2014)
- Member, ASPO Finance Committee (2010 - 2014)
- Member, ASPO Membership Committee (2010 - 2012)
- Co-Chair Ototoxicity Consensus Conference, International Society of Pediatric Oncology (SIOP) (2010 - 2010)
- Editorial Board, Otolaryngology - Head and Neck Surgery (2009 - 2014)
- Elected Member, ASPO Nominating Committee (2009 - 2014)
- Member, AAO-HNS Pediatric Otolaryngology Committee (2009 - 2011)
- Member, ASPO Pediatric Otolaryngology Study Group (2007 - present)
- Member, American Society of Pediatric Otolaryngology (ASPO) (2005 - present)
- Member, Society for Ear, Nose and Throat Advances in Children (SENTAC) (2004 - present)
- Member, Children's Oncology Group (COG) (2003 - present)
- Member, Association for Research in Otolaryngology (ARO) (1995 - 1998)
- Member, American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS) (1994 - present)

PROFESSIONAL EDUCATION

- Residency: University of Washington Otolaryngology Residency (1998) WA
- Internship: University of Washington Dept of Surgery (1993) WA
- Medical Education: Warren Alpert Medical School Brown University (1992) RI
- Fellowship: Children's Hospital of Pittsburgh (2000) PA
- Board Certification: Otolaryngology, American Board of Otolaryngology (1999)
- B.A., Brown University , Cognitive Science (1989)

PATENTS

- Paul Davison, Kay Chang. "United States Patent 2010/0174283 A1 Electrosurgical devices for tonsillectomy and adenoidectomy", Jan 5, 2009

LINKS

- Learn more about how we repair MICROtia: <http://www.stanfordchildrens.org/en/service/microtia>
- 3D technology to improve ear reconstruction: <http://scopeblog.stanford.edu/2017/11/20/microtia-team-embraces-3-d-printing-to-improve-ear-surgeries/>
- LinkedIn URL: <http://www.linkedin.com/in/kaywchang>
- Downloadable publications: http://www.researchgate.net/profile/Kay_Chang2/publications/
- Google Scholar Citations: <https://scholar.google.com/citations?user=o4isi0oAAAAJ&hl=en>
- Article about Chang Ototoxicity Grading Scale: <https://med.stanford.edu/news/all-news/2010/03/blastings-childrens-cancer--not-their-ears.html>
- Video of toddler who had bilateral simultaneous cochlear implantation by Dr. Chang at Lucile Packard Children's Hospital Stanford: <https://www.youtube.com/embed/pWor-ng93ew?rel=0&start=0&end=96&autoplay=1>
- Cochlear implants give boy with Down syndrome new lease on life: <http://med.stanford.edu/news/all-news/2015/03/cochlear-implants-give-boy-with-down-syndrome-new-lease-on-life.html>
- New therapy advanced at Stanford Children's Health: <http://www.stanfordchildrens.org/en/about/news/releases/2015/sacramento-girl-massive-airway-tumor-treated-by-new-therapy>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Chang's research interests include congenital hearing loss, neonatal hearing screening, genetics of hearing loss, otoacoustic emissions, auditory physiology, and ototoxicity. He is actively involved in several human clinical trials looking at the prevention of cisplatin ototoxicity that may drastically decrease the number of children developing hearing loss after chemotherapy, and also presented the Chang Ototoxicity Scale in *Journal of Clinical Oncology*. His current research interests include the radiologic evaluation of congenital inner ear anomalies, and the analysis of how Connexin-based mutations can alter management of infants with congenital hearing loss.

CLINICAL TRIALS

- In Infants With Laryngomalacia, Does Acid-Blocking Medication Improve Respiratory Symptoms?, Not Recruiting
- Non-pharmacological Analgesic Effects on Term Newborns, Not Recruiting
- Study of OTO-104 in Subjects at Risk From Cisplatin-Induced Hearing Loss, Not Recruiting

Publications

PUBLICATIONS

- **Updates in Pediatric Cholesteatoma: Minimizing Intervention While Maximizing Outcomes.** *Otolaryngologic clinics of North America*
Luu, K., Chi, D., Kiyosaki, K. K., Chang, K. W.
2019
- **Autoimmune Lymphoproliferative Syndrome with Histopathologic Features of Castleman Disease**
Lo, R., Gratzinger, D., Keiser, E., Chang, K., Gernez-Goldhammer, Y.
SPRINGER/PLENUM PUBLISHERS.2019: S103-S104
- **Recommendations for ototoxicity surveillance for childhood, adolescent, and young adult cancer survivors: a report from the International Late Effects of Childhood Cancer Guideline Harmonization Group in collaboration with the PanCare Consortium** *LANCET ONCOLOGY*
Clemens, E., van den Heuvel-Eibrink, M. M., Mulder, R. L., Kremer, L. M., Hudson, M. M., Skinner, R., Constine, L. S., Bass, J. K., Kuehni, C. E., Langer, T., van Dalen, E. C., Bardi, E., Bonne, et al
2019; 20 (1): E29-E41
- **International Consensus Recommendations on Microtia, Aural Atresia and Functional Ear Reconstruction.** *The journal of international advanced otology*
Zhang, T. Y., Bulstrode, N., Chang, K. W., Cho, Y. S., Frenzel, H., Jiang, D., Kesser, B. W., Siegert, R., Triglia, J. M.
2019; 15 (2): 204-8

- **Exploring the Medical and Psychosocial Concerns of Adolescents and Young Adults With Craniofacial Microsomia: A Qualitative Study** *CLEFT PALATE-CRANIOFACIAL JOURNAL*
Hamilton, K. V., Ormond, K. E., Moscarello, T., Bruce, J. S., Merrell, S., Chang, K. W., Bernstein, J. A.
2018; 55 (10): 1430-39
- **Renal ultrasound abnormalities in children with syndromic and non-syndromic microtia.** *International journal of pediatric otorhinolaryngology*
Koenig, J. L., Amoils, M., Grade, M. M., Chang, K. W., Truong, M. T.
2018; 113: 173-76
- **Prevention of cisplatin-induced hearing loss in children: Informing the design of future clinical trials.** *Cancer medicine*
Minasian, L. M., Frazier, A. L., Sung, L., O'Mara, A., Kelaghan, J., Chang, K. W., Krailo, M., Pollock, B. H., Reaman, G., Freyer, D. R.
2018
- **Evaluation and Management of Hearing Loss in Survivors of Childhood and Adolescent Cancers: A Report From the Children's Oncology Group** *PEDIATRIC BLOOD & CANCER*
Bass, J. K., Knight, K. R., Yock, T. I., Chang, K. W., Cipkala, D., Grewal, S. S.
2016; 63 (7): 1152-1162
- **Hearing Loss in Patients Who Received Cranial Radiation Therapy for Childhood Cancer.** *Journal of clinical oncology*
Bass, J. K., Hua, C., Huang, J., Onar-Thomas, A., Ness, K. K., Jones, S., White, S., Bhagat, S. P., Chang, K. W., Merchant, T. E.
2016; 34 (11): 1248-1255
- **Postoperative Complications in Pediatric Tonsillectomy and Adenoidectomy in Ambulatory vs Inpatient Settings** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Amoils, M., Chang, K. W., Saynina, O., Wise, P. H., Honkanen, A.
2016; 142 (4): 344-350
- **A modified technique for firm elevation of the reconstructed auricle.** *European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery*
Shan, J., Guo, Y., Chang, K. W., Zhang, T.
2016
- **Genetics of Hearing Loss-Nonsyndromic.** *Otolaryngologic clinics of North America*
Chang, K. W.
2015; 48 (6): 1063-1072
- **Hearing evaluation of patients with head and neck cancer: Comparison of Common Terminology Criteria for Adverse Events, Brock and Chang adverse event criteria in patients receiving cisplatin.** *Head & neck*
Colevas, A. D., Lira, R. R., Colevas, E. A., Lavori, P. W., Chan, C., Shultz, D. B., Chang, K. W.
2015; 37 (8): 1102-1107
- **Catch-up growth in infants with laryngomalacia after supraglottoplasty.** *International journal of pediatric otorhinolaryngology*
Czechowicz, J. A., Chang, K. W.
2015; 79 (8): 1333-1336
- **Analysis of Growth Curves in Children After Adenotonsillectomy** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Czechowicz, J. A., Chang, K. W.
2014; 140 (6): 491-496
- **Concordance between the chang and the International Society of Pediatric Oncology (SIOP) ototoxicity grading scales in patients treated with cisplatin for medulloblastoma.** *Pediatric blood & cancer*
Bass, J. K., Huang, J., Onar-Thomas, A., Chang, K. W., Bhagat, S. P., Chintagumpala, M., Bartels, U., Gururangan, S., Hassall, T., Heath, J. A., McCowage, G., Cohn, R. J., Fisher, et al
2014; 61 (4): 601-605
- **GJB2-Associated Hearing Loss: Systematic Review of Worldwide Prevalence, Genotype, and Auditory Phenotype** *LARYNGOSCOPE*
Chan, D. K., Chang, K. W.
2014; 124 (2): E34-E53
- **The proximal bronchoplasty retrieval technique for removal of embedded distal airway foreign bodies** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*

- Hoff, S. R., Chang, K. W.
2014; 78 (1): 148-151
- **Hearing outcomes of atresia surgery versus osseointegrated bone conduction device in patients with congenital aural atresia: a systematic review.** *Otology & neurotology*
Nadaraja, G. S., Gurgel, R. K., Kim, J., Chang, K. W.
2013; 34 (8): 1394-1399
 - **VALIDATION OF THE SIOP BOSTON OTOTOXICITY SCALE- AN INTERNATIONAL SCALE FOR THE EVALUATION OF PLATINUM-INDUCED OTOTOXICITY IN CHILDREN**
Sefi, E., Brock, P., Chang, K., Neuwelt, E., Knight, K., Rajput, K.
WILEY-BLACKWELL.2013: 167
 - **Lip Abscess Associated With Isotretinoin Treatment of Acne Vulgaris** *JAMA DERMATOLOGY*
Huoh, K. C., Chang, K. W.
2013; 149 (8): 960-961
 - **beta-Adrenergic receptor expression in vascular tumors** *MODERN PATHOLOGY*
Chisholm, K. M., Chang, K. W., Truong, M. T., Kwok, S., West, R. B., Heerema-McKenney, A. E.
2012; 25 (11): 1446-1451
 - **Platinum-Induced Ototoxicity in Children: A Consensus Review on Mechanisms, Predisposition, and Protection, Including a New International Society of Pediatric Oncology Boston Ototoxicity Scale** *JOURNAL OF CLINICAL ONCOLOGY*
Brock, P. R., Knight, K. R., Freyer, D. R., Campbell, K. C., Steyger, P. S., Blakley, B. W., Rassekh, S. R., Chang, K. W., Fligor, B. J., Rajput, K., Sullivan, M., Neuwelt, E. A.
2012; 30 (19): 2408-2417
 - **Is It Valid to Calculate the 3-Kilohertz Threshold by Averaging 2 and 4 Kilohertz?** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Gurgel, R. K., Popelka, G. R., Oghalai, J. S., Blevins, N. H., Chang, K. W., Jackler, R. K.
2012; 147 (1): 102-104
 - **CT Analysis Demonstrates That Cochlear Height Does Not Change with Age** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Mori, M. C., Chang, K. W.
2012; 33 (1): 119-123
 - **Clinically Accurate Assessment and Grading of Ototoxicity** *LARYNGOSCOPE*
Chang, K. W.
2011; 121 (12): 2649-2657
 - **Wegener's granulomatosis in an adolescent presenting with pachymeningitis, mastoid effusion and Horner's syndrome** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY EXTRA*
Kohlberg, G. D., Mai Thy Truong, Chang, K. W.
2011; 6 (2): 80-84
 - **Diagnostic Yield in the Workup of Congenital Sensorineural Hearing Loss Is Dependent on Patient Ethnicity** *OTOLOGY & NEUROTOLOGY*
Chan, D. K., Schrijver, I., Chang, K. W.
2011; 32 (1): 81-87
 - **Propranolol for the treatment of airway hemangiomas: A case series and treatment algorithm** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
Truong, M. T., Perkins, J. A., Messner, A. H., Chang, K. W.
2010; 74 (9): 1043-1048
 - **Practical Grading System for Evaluating Cisplatin Ototoxicity in Children** *JOURNAL OF CLINICAL ONCOLOGY*
Chang, K. W., Chinosornvatana, N.
2010; 28 (10): 1788-1795
 - **Connexin-26-associated deafness: Phenotypic variability and progression of hearing loss** *GENETICS IN MEDICINE*
Chan, D. K., Schrijver, I., Chang, K. W.
2010; 12 (3): 174-181

- **Propranolol for the Treatment of a Life-Threatening Subglottic and Mediastinal Infantile Hemangioma** *JOURNAL OF PEDIATRICS*
Truong, M. T., Chang, K. W., Berk, D. R., Heerema-McKenney, A., Bruckner, A. L.
2010; 156 (2): 335-338
- **Amifostine Does Not Prevent Platinum-Induced Hearing Loss Associated With the Treatment of Children With Hepatoblastoma** *CANCER*
Katzenstein, H. M., Chang, K. W., Krailo, M., Chen, Z., Finegold, M. J., Rowland, J., Reynolds, M., Pappo, A., London, W. B., Malogolowkin, M.
2009; 115 (24): 5828-5835
- **Otorrhea in Infants With Tympanostomy Tubes Before and After Surgical Repair of a Cleft Palate** *23rd Annual Meeting of the American-Society-of-Pediatric-Otolaryngology*
Curtin, G., Messner, A. H., Chang, K. W.
AMER MEDICAL ASSOC.2009: 748-51
- **Salivary Gland Anlage Tumor in a Neonate Presenting with Respiratory Distress: Radiographic and Pathologic Correlation** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Mogensen, M. A., Lin, A. C., Chang, K. W., Berry, G. J., Barnes, P. D., Fischbein, N. J.
2009; 30 (5): 1022-1023
- **Evaluation of unilateral referrals on neonatal hearing screening** *JOURNAL OF MEDICAL SCREENING*
Chang, K. W., O-Lee, T. J., Price, M.
2009; 16 (1): 17-21
- **Intracapsular versus subcapsular coblation tonsillectomy** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Chang, K. W.
2008; 138 (2): 153-157
- **Utility of temporal bone computed tomographic measurements in the evaluation of inner ear malformations** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Chen, J. L., Gittleman, A., Barnes, P. D., Chang, K. W.
2008; 134 (1): 50-56
- **Third branchial cleft fistula infected with Actinomyces** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY EXTRA*
Chang, K. W., Lee, B. G., Gutierrez, K. M.
2008; 3 (1): 20-23
- **Recovery from cisplatin-induced ototoxicity.** *Int J Pediatr Otorhinolaryngol*
Truong, M. T., Winzelberg, J., Chang, K. W.
2007; 71 (10): 1631-8
- **Two patients with the V371/235delC genotype: Are radiographic cochlear anomalies part of the phenotype?** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
Schrijver, I., Chang, K. W.
2006; 70 (12): 2109-2113
- **Familial laryngomalacia in two siblings with syndromic features** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
Chen, J. L., Messner, A. H., Chang, K. W.
2006; 70 (9): 1651-1655
- **Posttransplantation lymphoproliferative disorder of the paranasal sinuses in a child** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY EXTRA*
Rosen, F. S., Bingham, D., Chang, K. W.
2006; 1 (1): 22-26
- **Amifostine does not protect against the ototoxicity of high-dose cisplatin combined with etoposide and bleomycin in pediatric germ-cell tumors - A children's Oncology Group study** *CANCER*
Marina, N., Chang, K. W., Malogolowkin, M., London, W. B., Frazier, A. L., Womer, R. B., Rescorla, F., Billmire, D. F., DAVIS, M. M., Perlman, E. J., Giller, R., Lauer, S. J., Olson, et al
2005; 104 (4): 841-847
- **Not your routine foreign body: Endobronchial tuberculosis in an infant** *PEDIATRICS*
Agarwal, S., Hong, D. K., Soslow, J., Chang, K. W.

2005; 116 (1): 246-248

- **Randomized controlled trial of Coblation versus electrocautery tonsillectomy** *108th Annual Meeting of the American-Academy-of-Otolaryngology-Head-and-Neck-Surgery-Foundation*
Chang, K. W.
MOSBY-ELSEVIER.2005: 273-80
- **Prevention of cisplatin ototoxicity using transtympanic N-acetylcysteine and lactate** *OTOLOGY & NEUROTOLOGY*
Choe, W. T., Chinosornvatana, N., Chang, K. W.
2004; 25 (6): 910-915
- **A randomized study of platinum-based chemotherapy with or without amifostine for the treatment of children with hepatoblastoma: A report of the Intergroup Hepatoblastoma Study P9645.** *Proc Am Soc Clin Oncol*
Katzenstein HM, Chang K, Krailo M, et al
2004; 22: 8518
- **Pediatric residents' clinical diagnostic accuracy of otitis media** *PEDIATRICS*
Steinbach, W. J., Sectish, T. C., Benjamin, D. K., Chang, K. W., Messner, A. H.
2002; 109 (6): 993-998
- **Efferently mediated changes in the quadratic distortion product (f2-f1)** *JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA*
Chang, K. W., Norton, S. J.
1997; 102 (3): 1719-1733
- **The effects of continuous versus interrupted noise exposures on distortion product otoacoustic emissions in guinea pigs** *HEARING RESEARCH*
Chang, K. W., Norton, S. J.
1996; 96 (1-2): 1-12
- **Evaluation and management of hoarseness in children.** *Current Opinion Oto Head Neck Surg*
Chang, K. W., Inglis, A. F.
1996; 4: 396-400
- **IATROGENIC HYPONATREMIA - A CAUSE OF DEATH FOLLOWING PEDIATRIC TONSILLECTOMY** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
MCRAE, R. G., WEISSBURG, A. J., Chang, K. W.
1994; 30 (3): 227-232
- **EXTERNAL AND MIDDLE-EAR STATUS RELATED TO EVOKED OTOACOUSTIC EMISSION IN NEONATES** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Chang, K. W., Vohr, B. R., Norton, S. J., LEKAS, M. D.
1993; 119 (3): 276-282