

CHAP T. LE, Ph. D.
Distinguished Professor of Biostatistics, School of Public Health
Director of Biostatistics & Bioinformatics, Masonic Cancer Center
University of Minnesota

SUMMARY:

Dr. Le teaches PubH 7405 (Biostatistics Regression; 4 credits) and PubH 7470 (Statistics for Translational and Clinical Research; 3 credits). His health-related research has focused on analyses of survival and categorical data from clinical trials, epidemiological and laboratory studies; currently, major concentrations are in the areas of cancers and tobacco research. His methodological research interests are mostly data-driven and in the areas of epidemiological methods, cross-over designs, survival analysis, correlated binary data, ordered alternatives, ROC curves, and the design and analysis of In Vitro experiments - especially in the area of combination chemotherapy. Dr. Le received the *Leonard M. Schuman Excellence in Teaching Award* presented by the University of Minnesota School of Public Health (1988) and the Award for *Outstanding Contributions to Post-Baccalaureate, Graduate and Professional Education* by the University of Minnesota (2001; designated throughout his career at the University of Minnesota as "Distinguished Teaching Professor of Biostatistics"). He is the author of *Fundamentals of Biostatistical Inference* (1992), *Health and Numbers: Basic Biostatistical Methods* (1995, with J.B. Boen), *Applied Survival Analysis* (1997), *Applied Categorical Data Analysis* (1998), *Health and Numbers: A Problems-Based Introduction to Biostatistics* (2001), *Introductory Biostatistics* (2003), *Statistics Quick Reference Guide for Medical Affairs* (2007), *Health and Numbers: Introductory Biostatistics with Microsoft Excel* (2010), *Applied Categorical Data Analysis and Translational Research* (2010), and over 170 research papers in *Biometrics*, *Statistical Methods in Medical Research*, *Journal of Biopharmaceutical Statistics*, *Statistics in Medicine*, *American Journal of Epidemiology*, and other major journals in biomedical sciences.

Dr. Le was born in Vietnam, is an Engineering graduate of California State University at Fresno. He received his Ph. D. in Statistics from the University of New Mexico and has been at the University of Minnesota since 1978.

GENERAL INFORMATION:

Chap T. Le

U.S. citizen

Present Position:

Professor & Distinguished Teaching Professor
Division of Biostatistics
School of Public Health
University of Minnesota

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University of Minnesota
Minneapolis, Minnesota 55455
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EDUCATION:

California State University, Fresno: B.A. in Mathematics, 1970
California State University, Fresno: B.S. in Mechanical Engineering, 1970
California State University, Fresno: M.A. in Mathematics, 1971
University of New Mexico: Ph.D. in Statistics, 1978

ACADEMIC APPOINTMENTS:

Instructor (Mathematics and Engineering Mechanics): University of Hue, Vietnam;
1971-1975
Assistant Professor (Mathematics): California State University, Fresno; Fall 1975
Assistant Professor (Biometry, Public Health): U of Minnesota; 1978-1983
Associate Professor (Biometry, Public Health): U of Minnesota; 1983-1989
Professor (Biostatistics, Public Health): U of Minnesota; 1989-Present
Distinguished Teaching Professor of Biostatistics: U of Minnesota; 2001-Present

OTHER APPOINTMENTS:

Director of Biostatistics: U of Minnesota Cancer Center, 1995-2007
Director of Biostatistics & Informatics: U of M Masonic Cancer Center, 2007-Present
Director of Graduate Studies (Biostatistics, 1990-1995)
Major Chairperson (MPH Program in Biostatistics, 1991-1994)
Director of Undergraduate Studies (Biostatistics, 1984-1988)

Statistical Consultant:

Regional Kidney Disease Program
Travenol Laboratories Inc.
Chronic Illness Care Inc.
Land O'Lakes and 3M
ConvенеPro
AstraZeneca

Grant Review Panels:

National Cancer Institute
National Institute for Drug Abuse
U.S. Agency for International Development
Veteran's Administration

Editorial Referee:

American Journal of Epidemiology
American Journal of Public Health
American Statistician
Biometrics
Cancer Research
Communications in Statistics: Theory and Methods
Controlled Clinical Trials
Epidemiology
Journal of the American Statistical Association
Lifetime Data Analysis
Statistics in Medicine (Member of Editorial Board)
Clinical Oncology
Vaccine

HONORS, AWARDS, AND AFFILIATIONS:

- (1) 1966: Top Scorer, (Vietnamese National) Mathematics Olympiads
- (2) 1970: Magna Cum Laude: California State University (B.A. and B.S.)
- (3) 1970: Phi Kappa Phi Honor Society
- (4) 1971: Graduation with Distinction 4.0: California State University (M.A.)
- (5) 1981: Sigma Xi Research Honor Society
- (6) 1986: Tenure granted
- (7) 1988: Leonard M. Schuman Excellence in Teaching Award
- (8) 1989: Delta Omega Public Health Honor Society
- (9) 2001: Outstanding Contributions to Post-Baccalaureate, Graduate and & Professional Education Award; U of Minnesota (designated throughout his career as "Distinguished Teaching Professor of Biostatistics")
- (10) Memberships: Biometric Society & American Statistical Association

GRANT SUPPORTS: (underlined items are currently active)

- (1) **Project:** Chronic Otitis Media Intervention Strategies; Co-investigator and Biostatistician (10% efforts; 1982-1984) - Funded by the Robert Wood Johnson Foundation
- (2) **Project:** Viral Infection in Pneumococcal Disease Pathogenesis; Co-investigator and Biostatistician (10% efforts; 1985-1989) - Funded by the National Institutes of Health
- (3) **Project:** Autoantibodies in Technicians Handling Lupus Blood; Co-investigator and Biostatistician (10% efforts; 1986-1989) - Funded by the National Institutes of Health
- (4) **Project:** Olmsted Farm Injuries (a study of agricultural trauma); Co-investigator and Biostatistician (10% efforts; 1987-1989) - Funded by the Centers for Disease Control
- (5) **Program Project:** Pathogenesis of Otitis Media; Principal Investigator/Director of Biostatistics Core (25-40%; 1979-1981, 1981-1986, 1986-1991, and 1991-1996) - Funded by the National Institutes of Health
- (6) **Project:** Clinical Trial of Ribavirin for Laryngeal Papillomatosis; Co-Investigator and Biostatistician (10% efforts; 1994-1997) - Funded by the National Institutes of Health
- (7) **Project:** Cancer Surveillance Using Claim-based Data Systems; Co-investigator and Principal Biostatistician (10% efforts; 1997-1998) - Funded by the National Institutes of Health (NCI)
- (8) **Project:** The Genetic Epidemiology of Breast-Prostate Cancer; Co-investigator and Principal Biostatistician (10% efforts; 1997-1998)- Funded by the National Institutes of Health (NCI)
- (9) **Program Project:** Otitis Media Clinical Research Center; Principal Investigator/ Director of Biostatistics Core (15% efforts; 1996-2001) - Funded by the National Institutes of Health (NIDCD)
- (10) **Program Project:** Chemoprevention of Lung and Esophageal Cancers; Co-investigator and Biostatistician (10-15% efforts; 1998-2003); Joint efforts between U of Minnesota, Ohio State U, and NY Health Foundation - Funded by the National Institutes of Health (NCI)

- (11) **Project:** Maternal Immunization to Prevent Infant Otitis Media; Co-Investigator and Biostatistician (10% efforts; 2000-2003) - Funded by the National Institutes of Health (NIDCD)
- (12) **Program Project:** Otitis Media Core Center; Co-Investigator and Biostatistician (5% efforts; 2001-2003) - Funded by the National Institutes of Health (NIDCD)
- (13) **Project:** Automated Methods for Measurement of Hearing Sensitivity; Co-Investigator and Biostatistician (3% efforts; 2002-2004) - Funded by the National Institutes of Health (NIDCD)
- (14) **Project:** MRS and MRI of Breast Cancer at Very High Magnetic Field; Co-Investigator and Biostatistician (5% efforts; 2002-2007) - Funded by the National Institutes of Health (NCI)
- (15) **Project:** Lung Cancer Chemoprevention: Isothiocyanate, inositol (Principal Investigator: S. Hecht); Co-Investigator and Biostatistician (5% efforts; 2004-2005; 2006-2009) - Funded by the National Institutes of Health (NCI)
- (16) **Project:** Epidemiology of Infant Leukemia (Principal Investigator: J. Ross); Co-Investigator and Biostatistician (5% efforts; 2004-2007) - Funded by the National Institutes of Health (NCI)
- (17) **Program Project:** Transdisciplinary Tobacco Use Research Center (TTURC; Program Director: D. Hatsukami); Principal Investigator/Director Design and Analysis Core (10% efforts; 1999-2004, 2004-2009) - Funded by the National Institutes of Health (NCI and NIDA)
- (18) **Project:** Metabolic Syndrome in Childhood Cancer Survivors (Principal Investigator: J. Steinberger); Co-Investigator and Biostatistician (5% efforts; 2006-2009) - Funded by the National Institutes of Health (NCI).
- (19) **Project:** Metabolic Syndrome Following Transplant for Leukemia (Principal Investigator: S. Baker); Co-Investigator and Biostatistician (5% efforts; 2006-2009) - Funded by the National Institutes of Health (NCI). Grant is funded until 2011 but PI moved.
- (20) **Project:** Predictors of Adult Leukemia (Principal Investigator: J. Ross); Co-Investigator and Biostatistician (5% efforts; 2005-2010) - Funded by the National Institutes of Health (NCI)
- (21) **Project:** Carcinogenic Cyclic Nitrosamine DNA Adducts (Principal Investigator: S. Hecht); Co-Investigator and Biostatistician (5% efforts; 2006-2012) - Funded by the National Institutes of Health (NCI).
- (22) **Project:** 2-Amino-9-pyridine(2,3-b)indole: A potential colorectal carcinogen formed in tobacco smoke (Principal Investigator: S. Hecht); Co-Investigator and

Biostatistician (2% efforts; 2009-2013) - Funded by the National Institutes of Health (NCI).

- (23) **Project:** Effect of Physiological Response to Stress and to Smoking Cues on Cessation (Principle Investigator: M. Kotlyar); Co-Investigator and Biostatistician (1% efforts; 2011-2013) - Funded by the National Institutes of Health (NCI).
- (24) **Project:** Randomized Trial of PEITC as a Modifier of NNK Metabolism (Principal Investigator: J. Yuan); Co-Investigator and Biostatistician (2% efforts; 2008-2013) - Funded by the National Institutes of Health (NCI).
- (25) **Project:** Green Tea and Reduction of Breast Cancer Risk (Principal Investigator: M. Kurzer); Co-Investigator and Biostatistician (4% efforts; 2008-2013) - Funded by the National Institutes of Health (NCI).
- (26) **R01:** Benzo(a)pyrene Metabolism: Phenotyping and Genotyping (Principal Investigator: S. Hecht); Co-Investigator and Biostatistician (5%-10% efforts; 2001-2006, 2007-2012, 2012-2017) - Funded by the National Institutes of Health (NCI)
- (27) **P01:** Biology and Transplantation of the Human Stem Cell (Program Director: P. McGlave); Principal Investigator/Director of Biostatistics Core (10% efforts; 2004-2005, 2005-2010, 2010-2015) - Funded by the National Institutes of Health (NCI)
- (28) **P01:** NK Cells, their Receptors and Unrelated Donor Transplant (multi-center, Program Director: J. Miller); Principal Investigator/Director of Biostatistics Core (10% efforts; 2005-2010, 2010-2015) - Funded by the National Institutes of Health (NCI)
- (29) **P30:** Cancer Center Support Grant (CCSG; Program Director: D Yee, Masonic Cancer Center Director); Principal Investigator/Director of Biostatistics and Bioinformatics Core (20%-37% efforts; 1998-2003, 2003-2008, 2009-2014, 2014-2019) - Funded by the National Institutes of Health (NCI)
- (30) **P50:** UAB/UMN SPORE in Pancreatic Cancer (Principal Investigator: S. Vickers)); Co-Principal Investigator/Co-Director of Biostatistics Core (5% efforts; 2010-2015) - Funded by the National Institutes of Health (NCI)
- (31) **P30:** Minnesota Obesity Center(Program Director: Allen Levine); Co-investigator (1-2% efforts, 1995-2016) – Funded by the National Institutes of Health (NIDDK)
- (32) **U54:** Evaluating New Nicotine Standards for Cigarettes (multi-center; Program Directors: E. Donny and D. Hatsukami); Principal Investigator/Director of Biostatistics Core (15%-20% efforts; 2011-2016) - Funded by the National Institutes of Health (NIDA) and FDA.

- (33) **U19**: Models for Tobacco Products Evaluation (multi-center; Program Director: D. Hatsukami); Principal Investigator/Director of Biostatistics Core (10% efforts; 2012-2017) - Funded by the National Institutes of Health (NIDA) and FDA.
- (34) **U54**: Transdisciplinary Collaborative Center for Research on Men's Health (multi-center UMN/UAB; Program Director: S. Vickers); Principal Investigator/Director of Biostatistics Core (10%-15% efforts; 2013-2018) - Funded by the National Institutes of Health (NIMHD).
- (35) **R01**: Metabolism of Carcinogenic Tobacco-Specific Nitrosamine (Principal Investigator: S. Hecht); Co-Investigator and Biostatistician (5% efforts; 2014-2019) - Funded by the National Institutes of Health (NCI).
- (36) **R01**: Normicotine in smokeless tobacco as a precursor for carcinogen exposure (Principal Investigator: I. Stepanov); Co-Investigator and Biostatistician (5% efforts; 2014-2019) - Funded by the National Institutes of Health (NCI).

PUBLICATIONS

A. Books

- (1) Fundamentals of Biostatistical Inference
Marcel Dekker, Inc., 1992: 272 pages
- (2) Health and Numbers: Basic Biostatistical Methods
John Wiley and Sons, 1995: 248 pages, with J.B. Boen
- (3) Applied Survival Analysis
John Wiley and Sons, 1997: 257 pages
- (4) Applied Categorical Data Analysis
John Wiley and Sons, 1998: 287 pages
- (5) Health and Numbers: A Problems-Based Introduction to Biostatistics
John Wiley and Sons, 2001: 366 pages
- (6) Introductory Biostatistics
John Wiley and Sons, 2003: 525 pages
- (7) Statistics Quick Reference Guide for Medical Affairs
By and For AstraZeneca, 2007: 64 pages
- (8) Health and Numbers: Introductory Biostatistics with Microsoft Excel
John Wiley and Sons, 2009: 310 pages
- (9) Applied Categorical Data Analysis and Translational Research
John Wiley and Sons, 2009: 399 pages

B. Peer-reviewed Publications on Methods/Statistics

Le C. T. A new estimator for infection rates using pools of variable size. *American Journal of Epidemiology* **114**: 132-136, **1981**.

Le C. T. and M. M. Price. Survival from spinal cord injury. *Journal of Chronic Diseases* **35**: 487-492, **1982**.

- Sundararaj N., **Le C. T.**, and R. B. McHugh. Estimation of the efficacy of thermal microbial disinfection. *Biometrics* **38**: 371-376, **1982**.
- Le C. T.** Sample size requirements. *Journal of Chronic Diseases* **36**: 663-664, **1983**.
- Le C. T.** The analysis of pair-matched case-control studies. *Biometrics* **39**: 294-5, **1983**.
- Le C. T.** On relative risk estimation under multiple matching. *Biometrika* **71**: 195-196, **1984**.
- Le C. T.** Logistic models for cross-over designs. *Biometrika* **71**: 216-217, **1984**.
- Le C. T.** A symmetric bivariate binomial distribution and its applications to the analysis of clustered samples in medical research. *Biometrical Journal* **26**: 289-294, **1984**.
- Le C. T.** A new test for cross-over clinical trials with order effects. *Biometrical Journal* **26**: 583-587, **1984**.
- Le C. T.** and M. M. Cary. Analysis of cross-over designs with a categorical response. *Biometrical Journal* **26**: 859-865, **1984**.
- Le C. T.** and O. Gomez-Marin. Estimation of parameters in binomial cross-over designs. *Biometrical Journal* **26**: 167-171, **1984**.
- McHugh R. B. and **C. T. Le**. Confidence estimation and the size of a clinical trial. *Controlled Clinical Trials* **5**: 157-163, **1984**.
- Yeh C., **Le C. T.**, and R. B. McHugh. Competing risk analysis for life-table data with known observation times. *Biometrical Journal* **26**: 111-118, **1984**.
- Le C. T.** Testing the homogeneity of relative risk in case-control studies with multiple matching. *Biometrical Journal* **28**: 381-383, **1986**.
- Le C. T.** Statistical comparison of two hand washing protocols. *Statistics in Medicine* **5**: 593-596, **1986**.
- Umen A. J. and **C. T. Le**. Prognostic factors, models and related Statistical problems in the survival of end-stage renal disease patients on hemodialysis. *Statistics in Medicine* **5**: 637-652, **1986**.
- Le C. T.** On testing a trend in means in one-way layout. *Biometrical Journal* **29**: 173-180, **1987**.
- Le C. T.** Analysis of nested designs with binomially-distributed outcome variables. *Biometrical Journal* **29**: 153-161, **1987**.

Le C. T. A new rank test against ordered alternatives in k-sample problems. *Biometrical Journal* 30: 87-92, **1988**.

Le C. T. Testing for linear trends using correlated otolaryngology or ophthalmology data. *Biometrics* 44: 299-303, **1988**.

Le C. T. and B. R. Lindgren. Computational implementation of the conditional logistic regression model in the analysis of epidemiologic matched studies. *Computers and Biomedical Research* 21: 48-52, **1988**.

Le C. T. and B. R. Lindgren. Randomization using packaged programs. *Computers and Biomedical Research* 21: 593-596, **1988**.

Connett J. E., Rhame F., Thomas J., and **C. T. Le**. Estimation of infectious potential of blood containing human immunodeficiency virus. *Biometrical Journal* 32: 781-789, **1990**.

Le C. T. and B. R. Lindgren. Statistical methods for determining risk factors of chronic otitis media with effusion. *Statistics in Medicine* 9: 1495-1500, **1990**.

Le C. T. A different approach to the analysis of person-years data. *Biometrical Journal* 32: 615-619, **1990**.

Le C. T. The relationship between two statistical tests for the comparison of two exponential distributions. *Biometrical Journal* 33: 369-372, **1991**.

Le C. T., Lindgren B. R., Zelterman D. and A. J. Umen. Homogeneity of the relative risk in cohort studies. *Statistics in Medicine* 10: 1267-1272, **1991**.

Zelterman D. and **C. T. Le**. Tests of homogeneity for the relative risk in multiply-matched case-control studies. *Biometrics* 47: 751-756, **1991**.

Le C. T., Daly K. A., Margolis R. H., Lindgren B. R., and G. S. Giebink. A clinical profile of otitis media. *Archives of Otolaryngology* 118: 1225-1228, **1992**.

Le C. T. and D. Zelterman. Tests of goodness of fit for Cox's proportional hazards regression models. *Biometrical Journal* 34: 557-566, **1992**.

Le C. T. A test for linear trend in constant hazards and its application to a problem in occupational health. *Biometrics* 49: 1220-1224, **1993**.

Le C. T., Grambsch P. M., Zelterman D., and B. R. Lindgren. Evaluation of staging systems for colorectal cancer. *Biometrical Journal* 35: 701-705, **1993**.

Le C. T. Some tests for linear trend of variances. *Communications in Statistics: Theory and Methods* 23: 2269-2282, **1994**.

Le C. T. and P. M. Grambsch. Tests of association between survival time and a continuous covariate. *Communications in Statistics: Theory and Methods* 23: 1009-1019, **1994**.

Le C. T., Grambsch P. M., and T. A. Louis. Association between survival time and ordinal covariates. *Biometrics* 50: 213-219, **1994**.

Le C. T., Hunter L. L., Margolis R. H., Daly K. A., Lindgren B. R., and G. S. Giebink. A clinical profile of otitis media without an intact tympanic membrane. *Archives of Otolaryngology* 120: 513-516, **1994**.

Le C. T., Lindgren B. R., Daly K. A., and G. S. Giebink. Treatment evaluation in otitis media research. *Archives of Otolaryngology* 120: 507-509, **1994**.

Zelterman D., Grambsch P. M., **Le C. T.**, Ma Z. and J. W. Curtsinger. Piecewise exponential survival curves with smooth transitions. *Mathematical Biosciences* 120: 233-250, **1994**.

Le C. T. and B. R. Lindgren. Construction and comparison of two receiving operating characteristic curves derived from the same samples. *Biometrical Journal* 37: 869-877, **1995**

Le C. T. and B. R. Lindgren. Duration of Ventilating Tubes: A test for comparing two clustered samples of censored data. *Biometrics* 52: 328-334, **1996**.

Zelterman D., **Le C. T.**, and T. A. Louis. Bootstrap techniques for proportional hazards models with censored observations. *Statistics and Computing* 6: 191-199, **1996**.

Le C. T. Evaluation of confounding effects in ROC studies. *Biometrics* 53: 998-1007, **1997**.

Shen W. and **C. T. Le**. Linear rank tests for censored survival data. *Communications in Statistics: Simulation and Computation* 29: 21-36, **2000**.

Pan W. and **C. T. Le**. Bootstrap model selection in generalized linear models. *Journal of Agricultural, Biological and Environmental Statistics* 6: 49-61, **2001**.

Qiu P. and **C. T. Le**. ROC curve estimation based on local smoothing. *Journal of Statistical Computation and Simulation* 70: 55-69, **2001**.

Pan, W., Lin, J. and **C. T. Le**. Model-Based Cluster Analysis of Microarray Gene Expression Data. *Genome Biology* 3(2): 1-8, **2002**.

Pan, W., Lin, J. and **C. T. Le**. How many replicates of arrays are required to detect gene expression changes in microarray experiments? A mixture model approach. *Genome Biology* 3(5): 1-10, 2002.

Le C. T., Grambsch P. M., and G. S. Giebink. Quality control and the identification of vaccine responders using ELISA-derived antibody data. *Statistics in Medicine* 22: 2935-2942, **2003**.

Le C. T., Liu P., Lindgren B. R., Daly K. A., and G. S. Giebink. Some statistical methods for investigating the date of birth as a disease indicator. **Statistics in Medicine** 22: 2127-2135, **2003**.

Pan, W., Lin, J. and **C. T. Le**. A mixture model approach to detecting differentially expressed genes with microarray data. *Functional and Integrative Genomics* 3: 117-124, **2003**.

Le C. T. and P. M. Grambsch. Design and Analysis of In Vitro Experiments for Combination Chemotherapy. *Journal of Biopharmaceutical Statistics* 15(1): 179-186, **2005**.

Le C. T., Grambsch P. M., and Liu A. Estimation of cancer drug potencies and relative potencies from In Vitro Data. *Journal of Biopharmaceutical Statistics* 15(6): 903-912, **2005**.

Le C. T. A Solution for the most basic Optimization Problem associated with an ROC Curve. *Statistical Methods in Medical Research* 15(6): 571-584, **2006**.

DeFor TE, Majhail NS, Weisdorf DJ, Brunstein CG, McAvoy S, Arora M, **Le CT**. A modified comorbidity index for hematopoietic cell transplantation. *Bone Marrow Transplant* 45(5): 933-938, **2010**; PMID: 19802025

Liao W, Luo X, **Le C. T.**, Chu H, Epstein LH, Yu J, Ahluwalia JS, Thomas J. Analysis of cigarette purchase task instrument data with a left-censored mixed effects model. *Experimental and Clinical Psychopharmacology* 21(2): 124-132, **2013**; PMID: 23356731

C. Peer-reviewed Publications from Biomedical Research Collaborations

Cosio F. G., Giebink G. S., **Le C. T.**, and G. Schiffman. Pneumococcal vaccination in patients with chronic renal disease and renal allograft recipients. *Kidney International* 20: 254-258, **1981**.

Giebink G. S., **Le C. T.**, Cosio F. G., Spika J. S., and G. Schiffman. Serum antibody responses in high-risk children and adults to vaccination with capsular polysaccharides of streptococcus pneumoniae. *Reviews of Infectious Diseases* 3: S168-S178, **1981**.

Giebink G. S., **Le C. T.**, and J. S. Spika. Summarized versus type-specific analysis of antibody to pneumococcal capsular polysaccharides. *Reviews of Infectious Diseases* 3: S43-S46, **1981**.

Giebink G. S., Juhn S. K., Weber M. L., and **C. T. Le**. The bacteriology and cytology of chronic otitis media with effusion. *Pediatric Infectious Diseases* 1: 98-103, **1982**.

Giebink G. S., **Le C. T.**, and M. M. Paparella. The epidemiology of otitis media with effusion in children. *Archives of Otolaryngology* **108**: 563-566, **1982**.

Meyerhoff W. L., Giebink G. S., Shea D. A., and **C. T. Le**. Effect of tympanostomy tubes on the pathogenesis of acute otitis media. *American Journal of Otolaryngology* **3**: 189-195, **1982**.

Giebink G. S., Heller K. A., and C. T. Le. Prediction of serous versus purulent otitis media by otoscopy and tympanometry in animal models. *The Laryngoscope* **93**: 208-211, **1983**.

Le C. T. and G. S. Giebink. The cefaclor-amoxicillin controversy. *Pediatric Infectious Diseases* **2**: 263-264, **1983**.

McDermott J. C., Giebink G. S., **Le C. T.**, Hartford E. R., and M. M. Paparella. Children with persistent otitis media: Audiometric and tympanometric findings. *Archives of Otolaryngology* **109**: 360-363, **1983**.

Giebink G. S., Batalden P. B., Russ J. N., and **C. T. Le**. Cefaclor versus amoxicillin in the treatment of acute otitis media. *American Journal of Diseases of Children* **138**: 287-292, **1984**.

Giebink G. S., **Le C. T.**, and G. Schiffman. Decline of serum antibody in splenectomized children after vaccination with pneumococcal capsular polysaccharides. *Journal of Pediatrics* **105**: 576-582, **1984**.

Paparella M. M., Morizono T., **Le C. T.**, Mancini F., Sipila P., Choo Y. B., Liden-G., and C. K. Kim. Sensorineural hearing loss in otitis media. *Annals of Otolaryngology, Rhinology and Laryngology* **93**: 623-629, **1984**.

Giebink G. S., Carlson B. A., Hetherrington S. C., Hosteller M. K., **Le C. T.**, and S. K. Juhn. Bacterial and polymorphonuclear leukocyte contribution to middle ear inflammation in chronic otitis media with effusion. *Annals of Otolaryngology, Rhinology and Laryngology* **94**: 398-402, **1985**.

Vesley D., Lillquist D. R., and **C. T. Le**. A method for evaluation of non-germicidal hand washing protocols for removal of transient microbial flora. *Applied and Environmental Microbiology* **49**: 1067-1071, **1985**.

Spika J. S., Halsey N. A., **Le C. T.**, Fish A. J., Lum G. M., Lauer G. A., Schiffman G., and G. S. Giebink. Decline of vaccine-induced anti-pneumococcal antibody in children with nephrotic syndrome. *American Journal of Kidney Disease* **VII-6**: 466-470, **1986**.

Sahni R. S., Paparella M. M., Schachern P. A., Goycoolea M. V., and **C. T. Le**. Thickness of the human round window membrane. *Archives of Otolaryngology* 113: 630-634, **1987**.

Vesley D., Klapes N. A., Benzow K., and **C. T. Le**. Microbiological evaluation of wet and dry floor sanitation systems in hospital patient rooms. *Applied and Environmental Microbiology* **53**: 1042-1045, **1987**.

Daly K., Giebink G. S., **Le C. T.**, Lindgren B. R., Batalden P. B., Anderson R. S., and J. N. Russ. Determining risk for chronic otitis media with effusion. *Pediatric Infectious Diseases* 7: 471-475, 1988.

Canafax D. M., Nonomura N., Erdmann G. R., **Le C. T.**, Juhn S. K., and G. S. Giebink. Experimental animal models for studying antimicrobial pharmacokinetics in otitis media. *Pharmaceutical Research* **6**: 279-285, **1989**.

Pan S. H., Canafax S. M., **Le C. T.**, Cipolle R. J., Uden D. L., and W. J. Warwick. Intravenous theophylline bronchodilates patients with cystic fibrosis: Results from a blinded placebo-controlled cross-over clinical trial. *Pediatric Pulmonology* **6**: 172-179, **1989**.

Jossart G. H., Erdmann G. R., Levitt D. G., Kucera P., **Le C. T.**, Juhn S. K., Giebink G. S., and D. M. Canafax. An experimental model for measuring middle ear antimicrobial drug penetration in otitis media. *Pharmaceutical Research* **7**: 1242-1247, **1990**.

Giebink G. S., Batalden P. B., **Le C. T.**, Lassman F. M., Buran D. J., and A. E. Seltz. A controlled trial comparing three treatments for chronic otitis media with effusion. *Pediatric Infectious Diseases* **9**: 33-40, **1990**.

Daly K., Giebink G. S., Batalden P. B., Anderson R. S., **Le C. T.**, and B. R. Lindgren. Resolution of otitis media with effusion using a stepped treatment regimen of trimethoprim-sulfamethoxazole and prednisone. *Pediatric Infectious Diseases* **10**: 500-506, **1991**.

Levine S. C., Antonelli P. J., **Le C. T.**, and S. J. Haines. Relative value of diagnostic tests for small acoustic neuromas. *American Journal of Otology* **12**: 341-345, **1991**.

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