

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Sue-Min Lai		POSITION TITLE Professor and Director	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
National Cheng Chi University, Taipei, Taiwan	B.A.	1975-1979	Economics
Miami University, Oxford, OH	M.B.A.	1980-1981	Accounting
Temple University, Philadelphia, PA	M.S.	1983-1985	Statistics
University of Pittsburgh, Pittsburgh, PA	Ph.D.	1991-1992	Epidemiology

A. Positions and Honors.**PROFESSIONAL POSITIONS:**

1990-1991 **Instructor**, Dept. of Biometry and Computing, Hahnemann University, PA
1987-1991 **Epidemiologist / Statistician**, Dept. of Neurology, Medical College of Pennsylvania, Pittsburgh, PA
1991-1993 **Epidemiologist / Statistician**, Dept. of Medicine, Division of Dermatology, Hahnemann University, PA
1991-1993 **Epidemiologist / Statistician**, Dept. of Neurology, School of Public Health, School of Medicine, Medical College of Pennsylvania, University of Pittsburgh, Pittsburgh, PA
8/93-6/98 **Assistant Professor**, Dept. of Preventive Medicine, University of Kansas Medical Center, Kansas City, KS
1994-present **Director**, Kansas Cancer Registry, University of Kansas Medical Center, Kansas City, KS
1997-2000 **Adjunct Associate Professor**, Department of Neuroscience, King/Drew Medical Center, Los Angeles, CA
7/98-6/05 **Associate Professor**, Department of Preventive Medicine & Public Health, University of Kansas Medical Center, Kansas City, KS
7/98-present **Scientist**, Center on Aging, University of Kansas Medical Center, Kansas City, KS
7/05-present **Professor**, Department of Preventive Medicine & Public Health, University of Kansas Medical Center, Kansas City, KS

STUDY SECTION AND REVIEW PANEL:

1996 – present Editorial Board, Neuroepidemiology
1998 – present Executive Committee, Research Group in Neuroepidemiology, World Federation Neuroepidemiology
2000 – present Reviewer, Neurology
2000 – present Reviewer, Mayo Clinic Proceedings
2001 – present Reviewer, Archives of Physical Medicine and Rehabilitation
2002 – present Reviewer, Stroke
2002 – present Reviewer, Journal of Rehabilitation Research and Development
2002 – present Reviewer, Journal of Quality of Life Research
2004 Reviewer, American Journal of Medicine
2005- Reviewer, Annals of Epidemiology
2002 - 2003 Grant reviewer, CDC - Possible Extramural Research Topics (PERTS), Prevention Research Centers, ATPM & CDC Fellowship Applications
2003 Study Section, Canadian Stroke Network
2004 - 2005 Study Section, NIH Epidemiology of Chronic Diseases (ECD)
2004 - 2005 Harrington Spine Symposium

Principal Investigator/Program Director (Last, First, Middle): Lai, Sue Min

10/05 – 2009 Charter member, NIH Cardiovascular and Sleep Epidemiology Study Section
2007 Reviewer, Irish Health Service Research Board Study Section
2007 Reviewer, SBIR Study Section, NIH/NCI

AWARDS/HONORS:

2000 Veteran's Administration Research Excellence Award
1999 Russell S. Hibbs Clinical Award, Scoliosis Research Society
1999 Patent, Stroke Impact Scale (March 29, 1999)
2000 Speaker, the President's Cancer Panel meeting sponsored by the National Cancer Institute
2001 Expert Witness, the U.S. Senate Sub-Committee for Cancer Coalition for testimony to the "Hearing on Cancer Clusters".
2002 Co-Chair, Section of Epidemiology of Spine Deformity, International Research Society of Spinal Deformities, Athens, Greece.
2003 Expert Witness - Invited by the KS Senate Committee of Public Health and Welfare
2003 Presidential Neurological Disorders Poster Award, American Geriatrics
2003 Poster Award, North America Association of Central Cancer Registry
2004 Poster Award, North America Association of Central Cancer Registry

B. PEER-REVIEWED PUBLICATIONS (Selected from more than 90 Peer Reviewed Publications)

1. Lai SM, Zhang ZX, Alter M, Sobel E. World-wide trends in multiple sclerosis mortality. Neuroepidemiology 1989;8:56-67.
2. Lai SM, Alter M, Friday G, Gil-Peralta A, McCoy RL, Levitt LP, Isack T. Transient ischemic attacks: Their frequency in the Lehigh Valley. Neuroepidemiology 1990;9:124-130.
3. Vonderheid EC, Diamond LW, Lai SM, Au F, Dellavecchia MA. Lymph node histopathologic findings in cutaneous T-cell lymphoma: A prognostic classification system based on morphologic assessment. Am J Clin Pathol 1992;97:121-129.
4. Vonderheid E, Diamond LW, Van Vloten WA, Scheffer E, Meijer CJLM, Cashell AW, Hardman JM, Lai SM, Hermans J, Matthews MJ. Lymph node classification systems in cutaneous T-cell lymphoma and evidence for the utility of the working formulation of non-hodgkin's lymphomas for clinical usage. Cancer 1994;73:207-218.
5. Lai SM, Alter M, Friday G, Sobel E. A multifactorial analysis of risk factors for recurrence of ischemic stroke. Stroke 1994;25:958-962.
6. Lai SM, Alter M, Friday G, Sobel E. Prognosis for survival after an initial stroke. Stroke 1995;26:2011-2015.
7. Duncan PW, Lai SM. Stroke recovery. Top Stroke Rehabil.1997;4(3):51-58.
8. Neuberger JS, Pierce JT, Lai SM. Cancer cluster investigation in a school district. J Sch Health 1997;67(9):380-383.
9. Lai SM, Alter M, Friday G, Lai SL, Sobel E. Disposition after acute stroke: Who is not sent home from the hospital? Neuroepidemiology 1998; 17:21-29.
10. Lai SM, Duncan PW, Keighley J. Prediction of functional outcome after stroke: Comparison of the Orpington Prognostic Scale and the NIH Stroke Scale. Stroke 1998;29:1838-1842.
11. Lai SM, Alter M, Friday G, Lai SL, Sobel E. Stroke survival after discharge from an acute-care hospital. Neuroepidemiology 1999;18:210-217.
12. Burton DC, Asher MA, Lai SM. The selection of fusion levels using torsional correction techniques in the surgical treatment of idiopathic scoliosis. Spine 1999;24(16):1728-1739.
13. White SF, Asher M, Lai SM, Burton DC. Patients' perceptions of their overall function, pain and appearance following primary posterior instrumentation and fusion for idiopathic scoliosis. Spine 1999;24(16):1693-1699.
14. Lai SM, Duncan PW. Evaluation of the American Heart Association Stroke Classification System. Stroke 1999; 30:1840-1843.
15. Cook SM, Asher MA, Lai SM, Shobe J. Reoperation after primary posterior instrumentation and fusion for idiopathic scoliosis. Spine 2000;25:463-468.
16. Burton DC, Asher M, Lai SM. Scoliosis correction maintenance in skeletally immature patients with idiopathic scoliosis: Is anterior fusion really necessary? Spine 2000;25(1):61-68.

17. Duncan PW, **Lai SM**, Keighley J. Defining post-stroke recovery: Implications for design and interpretation of drug trials. Neuropharmacology 2000;39:835-841.
18. **Lai SM**, Duncan PW. Stroke Recovery Profile and the Modified Rankin Assessment. Neuroepidemiology. 2001;20(1):26-30.
19. **Lai SM**, Studenski S, Duncan PW. Persisting consequences of stroke measured by the Stroke Impact Scale. Stroke. 2002;33:1840-1844.
20. Yates JS, **Lai SM**, Duncan PW, Studenski S. Falls in community dwelling stroke survivors: An accumulated impairments model. J Rehab Res and Development. 2002;39(3):385-394.
21. Duncan PW, **Lai SM**, Tyler D, Perera S, Reker DM, Studenski S. Evaluation of proxy responses to the Stroke Impact Scale. Stroke. 2002;33:2593-2599.
22. **Lai SM**, Duncan PW, Keighley J, Johnson D. Depressive symptoms and independence in BADL and IADL. J Rehab Res and Development, 2002;9(5):580-596.
23. **Lai SM**, Duncan PW, Perera S, Bode R. Physical and social functioning after stroke: Comparison of The Stroke Impact Scale and the SF-36. Stroke. 2003;34(2):488-493.
24. Parmigiani G, Ashih HW, Samsa GP, Duncan PW, **Lai SM**, Matchar DB. Cross-calibration of stroke disability measures: Bayesian analysis of longitudinal ordinal categorical data using negative dependence. Journal American Statistical Association. 2003;98(462):273-281.
25. **Lai SM**, Gray J, Garimella S, Keighley J, Murphy P. Digital document management – There is far more to it than meets the eyes. J Registry Management, 2003;30(4):123-126.
26. Asher M, **Lai SM**, Burton D, Manna B. The influence of spine and trunk deformity on preoperative idiopathic scoliosis patients' health related quality of life questionnaire responses. Spine. 2004;29(8):861-868.
27. Asher M, **Lai SM**, Burton D, Manna B. Maintenance of trunk deformity correction following posterior Instrumentation and arthrodesis for idiopathic scoliosis. Spine. 2004;29(16):1782-1788.
28. Asher M, **Lai SM**, Burton D, Manna B, Cooper A. Safety and efficacy of Isola instrumentation and arthrodesis for adolescent idiopathic scoliosis: 2 to 12 year follow-up. Spine. 2004;29(18):2013-2023.
29. **Lai SM**, Garimella S, Keighley J. Pathology and Dermatology Reports: Key in completeness of melanoma cancer reporting in population-based cancer registries. J Registry Management. 2004;31(3):87-91.
30. **Lai SM**, Shen Z, Rushton G. Factors contributing to unsuccessful geocoding in a population-based cancer registry. J Registry Management. 2005;32(4):167-174.
31. **Lai SM**, Asher M, Burton D. Estimating SRS-22 quality of life measures with SF-36: Application in idiopathic scoliosis. Spine. 2006;31:473-478.
32. Jackson-Thompson J, Ahmed F, German RR, **Lai SM**, Friedman C. Descriptive epidemiology of colorectal cancer in the United States, 1998-2001. Cancer. 2006 Sep 1;107(5 Suppl):1103-11.
33. Reed E, Ahmed F, Jackson-Thompson J, Friedman C, German RR, **Lai SM**, Wingo PA. Foreword: Promoting the use of registry-based national cancer surveillance data for colorectal cancer prevention and control. Cancer. 2006 Sep 1;107(5 Suppl):1101-02.
34. **Lai SM**, Zhang KB, Uhler RJ, Harrison JN, Clutter GG, Williams MA. Geographic variation in the incidence of colorectal cancer in the United States, 1998-2001. Cancer. 2006 Sep 1;107(5 Suppl):1172-80.
35. Tawfik O, Kimler B, Davis M, **Lai SM**, Mayo M, Fan F, Donahue J, Damjanov I, Thomas P, Connor C. Grading invasive ductal carcinoma of the breast: Advantages of using automated proliferation index instead of mitotic count. Virchows Archive. Epub 2007;459(6):627-636.
- C. CANCER-RELATED MANUSCRIPTS SUBMITTED BUT NOT YET ACCEPTED.**
1. **Lai SM**, Richards TB, Garimella S, Stinchcomb DG, Ekwueme D, Tangka F. Human Papillomavirus Associated Cancers by the United States Census Division, 1998-2003. Cancer. 2007.
2. Tiro JA, Saraiya M, Jain N, Liddon N, Cokkinides V, **Lai SM**, Breen N, Wideroff L. HPV and cervical cancer behavioral surveillance in the United States. Cancer. 2007.
3. Benard VB, Johnson CJ, Thompson TD, Roland KB, **Lai SM**, Cokkinides V; Tangka F, Hawkins N, Lawson H, Weir HK. Examining the association between socio-economic factors (SES) and human papillomavirus (HPV)-related cancers. Cancer. 2007.

4. **Lai SM**, Shen Z, Banks D. ZIP Code Tabulation Area: An alternate unit of analysis for cluster investigation. Int J Hlth Geo. 2005.

D. RESEARCH SUPPORT

Ongoing Research Support

U55/CCU721977 Lai (PI)

7/07 – 6/12

Centers for Disease Control and Prevention, and Kansas Department of Health and Environment
“Kansas Cancer Registry & Cancer Surveillance”

The primary purpose of the Kansas Cancer Registry was to register and ascertain Kansans with cancers. Through the registration, sub-populations with excess cancers, more distant stage of cancers, and worse survival prognosis will be identified. Subsequently, programs like early screening and education will be provided to the identified sub-population to improve their health.

U50/CCU721289 Lai (PI)

10/05 – 6/08

Centers for Disease Control and Prevention
“Cardiovascular Health Survey and Examination in Kansas”

The specific study aims are: 1) To estimate the prevalence of selected cardiovascular disease risk factors including metabolic syndrome among various racial/ethnic populations in Kansas, 2) To validate self-reported CVD risk factor profiles with clinical assessment and biochemical measurements, and 3) To design and validate a NHANES like cardiovascular health survey at a state level.

Completed Research Support

U55/CCU721977 Lai (PI)

9/94 – 6/06

Centers for Disease Control and Prevention, and Kansas Department of Health and Environment
“Kansas Cancer Registry & Cancer Surveillance”

The primary purpose of the Kansas Cancer Registry was to register and ascertain Kansans with cancers. Through the registration, sub-populations with excess cancers, more distant stage of cancers, and worse survival prognosis will be identified. Subsequently, programs like early screening and education will be provided to the identified sub-population to improve their health.

TS/0454 Lai (PI)

5/01 – 12/05 (2004-05 no cost extension)

Centers for Disease Control and Prevention
“Pesticides and Risk for Prostate Cancer using the GIS technology”

The objectives of this study were to 1) use the GIS technology to identify areas in Kansas with excess prostate cancer; 2) examine confidentiality of using mapping techniques to display cancer burden in Kansas; 3) examine any potential association between pesticides and risk of prostate cancer using the GIS techniques.

Kansas Department of Health and Environment Lai (PI)

7/03 – 6/04

“Infant Mortality & Morbidity – Validation of Vital Statistics and Medicaid”

The objectives of this study were to examine the effect of Medicaid on low birth weight infants and preterm babies.

AG14635 Lai (PI)

1/1/98 – 12/31/02 (2003 no cost extension)

NIH/NIA

“Kansas City Stroke Registry - Epidemiology of Stroke Recovery: a core of the Kansas Claude D. Pepper Older Americans Independence Center”

The primary purpose of establishing a stroke registry was to provide support in patient recruitment for two intervention development studies, OAIC pilot studies, and community information dissemination. A centralized recruitment effort is cost-effective and can also integrate multidisciplinary collaboration. The secondary purpose of the Kansas City Stroke Registry was to examine factors that predispose stroke recovery in basic and instrumental activities of daily living and health related quality of life.

Role: PI