PUBLICATIONS

Peer-Reviewed Original Research in Refereed Journals (In Chronological Order)
rural-urban differences in the basic health care needs using national survey data)


23. Chen X, Yu SL, Chen LG. Geometric exploration of the meaning of partial regression and correlation coefficients in multivariate analysis. Chinese Journal of Health Statistics, 1997; 13(2): 12-14. (Official journal of the National Association of Chinese Health Statistics) (This is a methodological paper that uses charts and figures to illustrate the complex meaning of partial regression coefficients commonly raised by many non-statistical faculty and graduate students.)


25. Unger JB, Rohrbach LA, Howard KA, Cruz TB, Johnson CA, **Chen X**. Attitudes toward anti-tobacco policy among California youth: associations with smoking status, psychosocial variables and advocacy actions. Health Education Research, 1999; 14(6): 751-763. (IF=1.20, cited 34 times)


32. Unger JB, Cruz TB, Rohrbach LA, Ribisl KM, Baezcond-Garbaniti L, **Chen X**, Trinidad DR, Johnson CA. English language use as a risk factor for smoking initiation among Hispanic and Asian American adolescents: evidence for mediation by tobacco-related...


35. Chen X, Li Y, Unger JB, Gong J, Johnson CA, Guo Q. Hazard of smoking initiation by age among adolescents in Wuhan, China. *Preventive Medicine*, 2001; 32(5): 437-45. (IF=2.31, cited 11 times) (In this paper, the survival model was first used in study the age pattern of smoking onset.)


43. Chen X, Li GH, Unger JB, Liu X, Johnson CA. Secular trends of adolescent never-smokers from 1990 to 1999 in California: An age-period-cohort analysis. *American Journal of Public Health*, 2002; 93(12): 2099-2104 (The official journal of American Public Health Association, the world largest society for health professionals; the journal ranked the 2nd in the public, environmental and occupational health category with impact factor = 3.698, cited 17 times) (In this paper, the well known APC model was used to
demonstrate a significant prevention effect of tobacco control, a previously controversial topic in California.)


48. Chen X, Li X, Stanton B, Mao R, Sun Z, Zhang H, Qu F, Wang J, Thomas R. Patterns of cigarette smoking among students from 19 colleges and universities in Jiangsu Province, China: A latent class analysis. *Drug and alcohol dependence*, 2004; 76: 153-163. (Ranked 2nd in the ISI substance use subcategory with impact factor = 3.22, cited 14 times) (In this paper, the latent class analysis method was used the first time to study smoking patterns in China.)


complementary medicine, research design and statistical analysis)


Clemens J, Gong Y, Mao R. Differences in perception of dysentery and enteric fever and willingness to receive vaccines among rural residents in China. *Vaccine*, 2006; 24: 561-571. (A prominent journal in the field of vaccine and vaccination, IF=4.67, cited 6 times) (Creative analysis of the survey data to assess subjective perception of vaccines for strategic planning of immunization programs).


76. Chen X, Stanton B, Pach A, Nyamete A, Ochiai RL, Kaljee L, Dong B, Dipika Sur, Bhattacharya SK, Santoso SS, Agtini M, Memon Z, Bhutta Z, Do CG, Seidlein LV, John C. Perceived prevalence of enteric fever in the wider community by adults predicts incidence of laboratory validated typhoid fever in children from Asian countries. *Journal of Health, Population and Nutrition* 2007; 25(4): 469-478. (cited 4 times) (This study is an international collaborative effort with data collected in five Asian countries and investigators from seven institutions. The essential finding of this study is the establishment of the relationship between adults reported disease and the lab-verified disease incidence. This finding is of great significance for planning the evaluation of infectious disease control.)


79. **Chen X**, Weiss J. Enrichment in Pre-Kindergarten Life Predicts Initiation of Cigarette Smoking in Asian American and Hispanic/Latino Adolescents. *Journal of Child and Family Studies* 2007; 16(4): 498-507. (In this study, we reported the success of a scale I developed to assess the enrichment of pre-kindergarten life and its utility in predicting adolescent smoking.)


81. Shu S, Lin F, Ying H, **Chen X**. State estimation and detectability of probabilistic discrete event systems. *Automatica*, 2008; 44(12): 3054-60. (Prominent journal in the engineering and system control field, IF=2.08) (Jointly developed the method, and prepared and revised the manuscript for publication.) (cited once)


90. **Chen X**, Woodcroft BK. Polymorphisms in metabolic genes CYP1A1 and GSTM1 and changes in maternal smoking during pregnancy. *Nicotine and Tobacco Research* 2009;
11(3): 225-33. (The official journal of the Society for Research on Nicotine and Tobacco with IF=2.13) (This is the first paper of mine in which complex analytical methods are used to exam gene-environment interactions)


93. Chen X, Stanton B, Li X, Gong J, Fang X. Personal Social Capital Scale – An instrument for social and behavioral research. *Health Education Research* 2009; 24(2):306-317.(IF=1.20) (Measurement models are used in this study to assess the reliability and structural validity of this newly developed instrument.)

94. Chen X, Lunn S, Deveaux L, Li X, Brathwaite N, Cottrell L, Stanton B. A Cluster randomized controlled trial of an adolescent HIV prevention program among Bahamian adolescents: Effect at 12 months post-intervention. *AIDS and Behavior*, 2009; 13(3): 499-508. (IF=1.75) (In this paper, I have used a method the first time to analyze randomized controlled trial data considering the diversity of the study population and sexual risk behavior progression among pre-teens with relatively low rates of risky sex - both being significant methodological challenges).


97. Naar-King S, Parsons JT, Murphy DA, Chen X, Harris DR, Belzer M. Improving Health Outcomes for Youth Living with HIV: A Multisite randomized trial of a motivational intervention targeting multiple risks. *Archives of Pediatrics & Adolescent Medicine*. 2009. 163(12): 1092-98. (IF=3.7) (This paper involves the evaluation of a multicenter randomized controlled trial, including the assessment of interactions between behavioral prevention intervention and antiviral treatment in reducing viral loads among HIV positive youths from five locations over the United States who participated in the trial.)


Chen X, Lunn S, Harris C, Li X, Deveaux L, Marshall S, Cottrell L, Stanton B. Modeling early sexual initiation among young adolescents using quantum and continuous behavior change methods: Implications for HIV prevention. *Nonlinear Dynamics, Psychology, & Life Sciences*. 2010; 14(4): 491-509. (Supported by NIH grant, in this paper the leading author, worked with all co-authors, successfully used a cutting edge method of cusp catastrophe modeling method the first time in describing sexual initiation, one of a few key risk factors for HIV prevention among adolescents.)

Rongkavilit C, Kathryn Wright, Chen X, Naa-King S, Chuenyam T, Phanuphak P. HIV Stigma, Disclosure, and Psychosocial Distress among Thai Youth living with HIV. *International Journal of STD & AIDS*. 2010, 2(12):126-32. (My analytical expertise on measurement scale assessment and planning and actual statistical analysis make this rejected manuscript by another journal accepted by this journal without revision.)

Lin F. and Chen X. Estimation of transitional probabilities of discrete event systems from cross-sectional survey and its application in tobacco control. *Information Sciences*. 2010. 180(3): 432-40. (Supported by NIH funds, in this paper, we reported our results from the mathematical and computational aspect on the PDES method in extracting longitudinal information from cross-sectional data).

Chen X, Stanton B, Gomez P, Lunn S, Deveaux L, Brathwaite N, Li X, Marshall S, Cottrell L, Harris C. Effects on condom use of an HIV prevention program 36 months post intervention – A cluster randomized controlled trial among Bahamian youth. *International Journal of STDs and AIDS*, 2010, 21: 622-30 (In this paper, we reported sustained effect of an NIH funded HIV prevention program using advanced methodologies such as mediation and feedback analysis)

Kannikeswaran N, Sethuraman U, Chen X, Knazik S, Mahajan P. “Family Plan”- Multiple patient visits from the same family to an inner-city pediatric emergency department. *Pediatric Emergency Care Journal* 2010. In press. (My contributions include design, statistical analysis and results interpretation)

Sethuraman U, Kannikeswaran N, Chen X, Mahajan P. Effect of a rapid assessment program on total length of stay in a pediatric emergency department. *Pediatric Emergency Care Journal* 2010. In press. (My contributions include design, statistical analysis and results interpretation)

Chen X, Stanton B, Hopper J, Khankari N*. Sources, locations, and predictors of environmental tobacco smoke exposure among young children from inner-city families. *Journal of Pediatric Health Care* 2010. In press. (*: A graduate student assistant. The project was supported by CRCM)

Chen X, Lin F, and Zhang X*. APC-modeling of smoking prevalence among US Adolescents and young adults. *American Journal of Health Behavior* 2010. In press. (In this paper, we use the advanced age-period-cohort model to dissect the secular trends of cigarette smoking among US adolescents and young adults using multi-year data collected through the National Survey on Drug Use and Health. *: A research assistant. This study was supported by NIH).

Ren Y*, Chen X, Stanton B. Are urban low-income children from unplanned pregnancy exposed to higher levels of environmental tobacco smoke? *Journal of Pediatric Health Care*, 2010. In press. (*A graduate assistant. The study was supported in part by CRCM).

2010. In press. (In this invited manuscript, we reported survey data collected among 758 medical students in China to update prevalence of tobacco use and to detect risk factors for prevention through a collaborative approach. *: Primary collaborator in China).

10. **Chen X**, Stanton B, Kaljee L, Fang X, Xiong Q, Lin D, Zhang L, Li X. Social stigma, social capital reconstruction and rural migrants in urban China: A population health perspective. *Human Organization* 2010. In press. (This manuscript report data from qualitative study to support the social mechanism by which social stigma interacts with social capital construction to affect health and risk behavior among the domestic rural-to-urban migrants in China. The study was supported by NIH).


15. **Chen X** & Lin F. Validation of the PDES method in modeling smoking behavior progression with cross-sectional data. *Plos One* 2010. Under review. (This study was supported by NIH).


17. **Chen X**, Abdulhamid I, Woodcroft K, Stanton B. Maternal smoking during pregnancy, polymorphic CYP1A1 and GSTM1, and lung function measures in urban family children. *Environmental Research*. (Under review, the study was supported by CRCM.)


22. Mahajan P, Grzybowski M, Kannikeswaran N, **Chen X**, Stanley R, Singhal B, Hoyle J, Borgiali D, Duffy E, & Kuppermann N. Procalcitonin as a marker of Serious Bacterial
Infections (SBI) in Febrile Children. *American Journal of Emergency Medicine*, 2010. Under review. (My major contributions include ROC analysis and comparison of various biomarkers for as screeners of SBI.)

**Books and Invited and Peer-Reviewed Chapters**

1. **Chen X.** Chapter 6: Methodology for the Measurement of Health. In Liang HC. *Social Medicine*, Changsha, China: Hunan Scientific and Technological publication House, 1988. (This book has been selected as textbook by all medical schools run by the Chinese Ministry of Health for students majored in Preventive Medicine.)

2. **Chen X** (Leading Editor), Ren J.H., Tang Z.X., Chen J.H. (Co-Editors). *Behavioral Medicine*. Shanghai, China: Shanghai Scientific and Technological publication House, 1989. (This is the first book to introduce behavioral medicine to China and has been adapted as a textbook for students majoring in Health Education by the Tongji Medical University Correspondence Education Program, Wuhan, China.)

3. **Chen X.** Age and Sex Patterns of Mortality in China: 1950-90, UMI, Michigan, USA: University of Michigan, 1994. (In this Ph.D. dissertation of mine, I systematically examined the patterns of mortality among Chinese in four decades since the establishment of the PRC in 1949, including a detailed comparison with developed countries/areas of both eastern and western cultures, including Japan, Taiwan, United States, and Sweden)

4. **Chen X** (Leading Editor), Yin P & Peng J (Co-Editors). *Medical Research Design and Data Analysis*. Wuhan, China: Wuhan University Press, 1997. (This is a textbook for graduate students in medical and health research and has been selected for use by a number of medical schools in China, including Tongji Medical University, Ji-Nan Medical University, and Hubei Provinical Medical University.)


6. **Chen X**, Tang X, Li X, Stanton B, and Li, H. Chapter 1. Core Human Values, Risk Factors and Health Risk Behaviors: New Evidence for Advancing Risk Reduction Strategies among Adolescents. In Terry C. Rhodes, Ed. *Focus on Adolescent Behavioral Research*. Nova Scientific Publishing Company, NY, NY, 2007. Pages: 7-47. (This chapter was invited and peer-reviewed. Instead of synthesizing published data, in this chapter we reported empirical data from our own research. This is my first research to use measurement models in assessing core human values among Chinese adolescents under the assumptions that factors not explicitly related to health risk behavior may also be important in risk reduction.)

**Technical Reports**

Published Abstracts

1. **Chen X.** Epidemiological transitions in China, a paper presented at the 10th China and Dutch Friendship Week of Medicine, October 12-19, 1995, Berlin, Germany.


12. **Chen X.** An increased number of never smokers with an increased number of 30-day Smokers: A Myth of Adolescents Cigarette-Use in California. 2000 TRDRP Annual
Investigator Meeting, November 30-December 1, 2000. San Diego, CA.


51. Siddiqui F, Chen X. African-American patients with chronic hepatitis C respond similarly to PEG-IFN alpha 2a and Ribavirin as compared to PEG-IFN alpha 2b and Ribavirin combination. The 43rd Annual Meeting of European Association for the Study of Liver. April 23-27, 2008, Milan, Italy.


**Refereed and Invited Presentations**

Chen X. Tobacco use and prevention among adolescents in the US, particularly Asian American youth. TV interview at the primary time from 5:30-5:40PM, channel LA 18 (America’s largest Asian TV station), November 16, 2002. Los Angeles, CA.


7. **Chen X.** Current Status and Future Directions of Adolescent Health Behavioral Research. Invited lecture to 26 graduate students at Beijing Normal University. October 23, 2006. Beijing, China.


11. **Chen X.** Pediatric Behavioral Epidemiology, invited presentation to the Seminar of Epidemiology Expertise across Campus, Wayne State University Professional and Academic Developmental Series. April 9, 2010, Detroit, MI.


13. **Chen X.** Tobacco research among Chinese youth across the globe. Invited key note presentation to the first Meeting of the Chinese Youth Health Study Project, June 28-July 2, 2010. Wuhan, China.