

Curriculum Vitae

Dr. Chiu-Hsieh (Paul) Hsu

Contact Information

Mel and Enid Zuckerman College of Public Health
University of Arizona
1295 N Martin Ave.
Drachman Hall A232
Tucson, AZ 85724

pchhsu@email.arizona.edu
(520) 626-5054

EDUCATION

- 1997 M.S. in Statistics, National Tsing Hua University, Hsinchu, Taiwan
Advisor: Professor Anne Chao. Thesis: "Under Random Effect Models, Inference for Capture-Recapture When Time, Behavioral Response, and Heterogeneity Affect Capture Probabilities"
- 2000 M.S. in Biostatistics, School of Public Health, University of Michigan, Ann Arbor
- 2003 Ph.D. in Biostatistics, School of Public Health, University of Michigan, Ann Arbor. Advisor: Professor Jeremy M. G. Taylor. Thesis: "Survival Analysis via Nonparametric Multiple Imputation"

EMPLOYMENT AND APPOINTMENTS

- 1996-1998 Research & Teaching Assistant, Department of Statistics, National Tsing Hua University, HsinChu, Taiwan
- 1998-1999 Teaching Assistant, Biostatistics Department, University of Michigan, Ann Arbor
- 1999-2003 Research Assistant, Biostatistics Department, University of Michigan, Ann Arbor
- 2003-2005 Assistant Professor (NTE), Mel and Enid Zuckerman College of Public Health (MEZCOPH), University of Arizona, Tucson, Arizona
- 2005-2011 Assistant Professor (TE), Mel and Enid Zuckerman College of Public Health (MEZCOPH), University of Arizona, Tucson, Arizona
- 2011-2017 Associate Professor, Mel and Enid Zuckerman College of Public Health (MEZCOPH), University of Arizona, Tucson, Arizona
- 2013- Assistant Director for Biostatistics, Phase I & II Consortium, University of Arizona Cancer Center
- 2014-2016 Biostatistician, College of Nursing, University of Arizona
- 2016- Biostatistician, Department of Surgery, University of Arizona
- 2017- Professor, Mel and Enid Zuckerman College of Public Health

(MEZCOPH), University of Arizona, Tucson, Arizona

HONORS AND AWARDS

- 1996 Scholarship of the Outstanding First-Year Master Student, Ministry of Education Taiwan
- 1999 Travel Grant to the NSF/CBMS Regional Conference (Houghton, MI) in Statistics Inference in Genetic Data, National Science Foundation
- 2000 Award for Best Performance in Ph.D. Qualifying Examination, Department of Biostatistics, University of Michigan
- 2002 Travel Grant, Rackham Graduate School, University of Michigan, Ann Arbor
- 2002 Travel Award to the 17th International Workshop on Statistical Modelling, Crete, Greece
- 2003 One-Term Dissertation Fellowship, Rackham Graduate School, University of Michigan, Ann Arbor
- 2004 Distinguished Student Paper Award, International Biometric Society (Eastern North American Region)
- 2004 Travel Grant to the 22nd International Biometric Conference (Cairns, Australia), International Affairs Office, University of Arizona, Tucson
- 2005 Travel Grant to the 8th North American Meeting of New Researchers in Statistics and Probability, Minneapolis, Minnesota
- 2006 Travel Grant to International Workshop on Statistical Modelling (Galway, Ireland), International Affairs Office, University of Arizona, Tucson
- 2007 Travel Grant to International Workshop on Statistical Modelling (Barcelona, Spain), International Affairs Office, University of Arizona, Tucson
- 2008 Travel Grant to American Association for Cancer Research Cancer Biostatistics Workshop, Sonoma, CA
- 2012 Visiting Scholar, Genetic Epidemiology, International Agency for Research on Cancers, Lyon, France.
- 2016- Elected member, International Statistical Institute

PROFESSIONAL AFFILIATIONS/MEMBERSHIPS

- 2003- Member, American Statistical Association
- 2007- Member, U of AZ Statistics Graduate Interdisciplinary Program (GIDP)
- 2010- Comprehensive Member, University of Arizona Cancer Center (UACC)
- 2010- Member, Statistical Modelling Society
- 2011- Statistician, International Cardiac Arrest Registry (Etiology)

SERVICE/OUTREACH

National/International Outreach

Grant review

- 2008-2009 Research Grants Council of Hong Kong

Journal Editing

- 2008- Editorial Board Member, Open Statistics and Probability Journal
- 2010- Editorial Board Member, Journal of Biometrics and Biostatistics
- 2011- Editor (Data Analysis, Statistics and Modelling), BMC Medical Research Methodology

Reviewing (ad-hoc)

Biometrics

BMC Medical Research Methodology
Canadian Medical Association Journal
Genetics Selection Revolution
Journal of Applied Statistics
Journal of Statistical Computation and Simulation
Lifetime Data Analysis
Open Statistics and Probability
Preventive Medicine
Statistics in Medicine

Tenure Review (external)

2011 University of Michigan, Dearborn, MI
2012 University of Calgary, Canada
2013 Moffitt Cancer Center, Tampa, FL

PhD Dissertation review (external)

2014 University of the Punjab, Pakistan

Conferences

2008 Chair, Invited Session: Joint Modeling Approaches for Longitudinal Data under Complex Study Designs, ENAR Spring Meeting, Arlington, VA.
2009 Chair, Contributed Papers: Missing Values in Survival and/or Longitudinal Data, ENAR Spring Meeting, San Antonio, TX

Local/state outreach

2005 Provide statistical service and advice to a local middle school student on his science projects. The student won an award for his project.
2016 Grand award judge, Intel International Science and Engineering Fair in Phoenix

University Committees

2003- Member, Biostatistics Shared Resource Center, UACC
2004 Discussant, Grant Preparation and Review Workshop, Arizona Cancer Center
2008 Member, Curriculum Committee, GIDP in Statistics
2008 Reviewer, Arizona Cancer Center Pilot Research Program
2013- Member, Admission Committee, Statistics GIDP
2013- Member, Data Safety & Monitoring Committee, DIME Study
2013- Member, Data Safety & Monitoring Committee, AI Sulindac Study
2014- Statistical Reviewer, BTE Review Committee, UACC
2014- Statistical Reviewer, ACS/IRG Review Committee, UACC
2015 Member, Evaluation Committee for Synchronous Meeting Tool RFP
2015- Member, Data Safety & Monitoring Committee, Turmeric in RA Trial Study
2015- Member, Scientific Review Committee, UACC

Junior Faculty Mentoring Committees

2010 Jesse Nodora, Assistant Professor, College of Public Health. American Cancer Society mentored research scholar grant application
2014 Bellal Joseph, Associate Professor, Department of Surgery. Beeson K23 application
2014-2015 Josephine Taverna, R25 Cancer Prevention Fellow, UACC

- 2015- Michelle Kahn-John, Assistant Professor, College of Nursing. AHSC Career Development Award
- 2015- Dan Combs, Pediatrics Fellow, UA School of Medicine. AHRQ K08 application
- 2016- Felipe Maegawa, Assistant Professor, Department of Surgery. DoD Career Development Award
- 2016- Nima Toosizadeh, Assistant Professor, College of Medicine. K25 Award
- 2016- Ken Batai, Research Scientist, Department of Urology. Urology Care Foundation Research Scholar Award

College Committees

- 2004 Member, MPH Summer Intern Project Reviewing Committee, MEZCOPH
- 2004-2007 Member, Epidemiology & Biostatistics Qualifying Exam Committee, MEZCOPH
- 2006 Director, MPH Biostatistics Concentration, MEZCOPH
- 2006-2007 Judge, Epidemiology Forum, MEZCOPH
- 2006 Judge, Student Internship Conference (Fall), MEZCOPH
- 2006-2011 Member, MPH Student Affairs Committee, MEZCOPH
- 2008; 2012- Member, Epidemiology & Biostatistics Peer Review Committee, MEZCOPH
- 2004-2012 Member, MPH Biostatistics Concentration Admission Committee, MEZCOPH
- 2006-2013 Member, Biostatistics Search Committee, MEZCOPH
- 2009-2012 Member, Online Course Standards Committee, MEZCOPH
- 2011-2014 Member, Promotion and Tenure Committee, MEZCOPH
- 2014 Chair, Assistant Professor in Biostatistics Search Committee, MEZCOPH
- 2014- Member, Research Advisory Committee, MEZCOPH
- 2015-2016 Member, 5-year review committee for Department Chair of Epidemiology & Biostatistics, MEZCOPH

RESEARCH

Research Area

Missing data
 Survival analysis
 Early phase clinical trials
 Statistical modelling for colorectal polyp prevention data

Peer reviewed journal articles

References with * indicate work with a graduate student supervisee. References with # indicate work while I was a graduate student.

1. #Chao A, Chu W, **Hsu CH**. Capture-Recapture When Both Time and Behavioral Response Affect Capture Probabilities, *Biometrics* 2000; **56**: 427-433.
2. #Taylor JMG, Weiss RE, Li W, **Hsu CH**, Suwinski R. Estimation for Paired Binomial Data with Application to Radiation Therapy. *Statistics in Medicine* 2001; **20**: 3375-3390.
3. #Taylor JMG, Murray S, **Hsu CH**. Survival Estimation and Testing via Multiple Imputation. *Statistics and Probability Letters* 2002; **58**: 221-232.
4. **Hsu CH**. Joint Modeling of Recurrence and Progression of Adenoma Polyps: A Latent Variable Approach. *Statistical Modelling* 2005; **5**: 201-215.
5. #**Hsu CH**, Taylor JMG, Murray S, Commenges D. Survival Analysis Using Auxiliary Variables via Nonparametric Multiple Imputation. *Statistics in Medicine* 2006; **25**: 3503-3517.

6. Chow H-HS, Hakim IA, Vining DR, Crowell JA, Cordova CA, Chew MW, Xu M-J, **Hsu CH**, Ranger-Moore J, Alberts DS. Effects of Repeated Green Tea Catechin Administration on Human Cytochrome P450 Activity. *Cancer Epidemiology, Biomarker & Prevention* 2006; **15**: 2473-2476.
7. Einspahr JG, Martinez ME, Jiang R, **Hsu CH**, Rashid A, Bhattacharrya AK, Ahnen DJ, Jacobs ET, Houlihan PS, Webb CR, Alberts DS, Hamilton SR. Association of Ki-ras Proto-oncogene Mutation and p53 Gene Overexpression in Sporadic Colorectal Adenomas with Demographic and Clinicpathologic Characteristics. *Cancer Epidemiology, Biomarker & Prevention* 2006; **15**: 1443-1450. PMID: 16896030.
8. Baker AF, Powis G, Tate WR, Ramanathan R, Roe D, **Hsu CH**, Kirkpatrick DL, Dragovich T. The Antitumor Thioredoxin-1 Inhibitor PX-12 (1-methylpropyl 2-imidazolyl disulfide) Decreases Thioredoxin-1 and VEGF Levels in Patient Plasma. *Journal of Laboratory and Clinical Medicine* 2006; **147** (2): 83-90.
9. Jacobs ET, Lanza E, Alberts DS, **Hsu CH**, Jiang R, Schatzkin A, Thompson PA, Martinez ME. Fiber, Gender, and Colorectal Adenoma: Results of a Pooled Analysis. *American Journal of Clinical Nutrition*, 2006; **83** (2): 343-349. PMID: 16469993.
10. Hess LM, Benham-Hutchins M, Herzog TJ, **Hsu CH**, Malone DC, Skrepnek GH, Slack MK, Alberts DS. A Meta-Analysis of the Efficacy of Intraperitoneal versus Intravenous Chemotherapy Regimens for the Front-Line Treatment of Ovarian Cancer. *International Journal of Gynecological Cancer* 2007; **17**: 561-570.
11. **Hsu CH**. A Weighted Zero-Inflated Poisson Model for Estimation of Recurrence of Adenomas. *Statistical Methods in Medical Research* 2007; **16**: 155-166.
12. **Hsu CH**, Taylor JMG, Murray S, Commenges D. Multiple Imputation for Interval Censored Data with Auxiliary Variables. *Statistics in Medicine* 2007; **26**: 769-781.
13. **Hsu CH**, Green SB, He Y. A Weighted Logistic Regression Model for Estimation of Recurrence of Adenomas. *Statistics in Medicine* 2007; **26**: 1567-1578.
14. Tung WC, Farmer S, Ding K, Tung WK, **Hsu CH**. Stages of Condom Use and Decisional Balance among College Students. *International Nursing Review* 2009; **56**:346-353.
15. Tung WC, **Hsu CH**. Assessing Transcultural Validity of the Transtheoretical Model with Chinese Americans and Physical Activity. *Journal of Transcultural Nursing* 2009; **20**: 286-295.
16. Nyitray AG, Kim J, **Hsu CH**, Papenfuss M, Villa L, Lazcano-Ponce E, Giuliano AR. The Test-Retest Reliability of a Sexual Behavior Interview for Men Residing in Brazil, Mexico, and the United States: The HIM study. *American Journal of Epidemiology* 2009; **170**: 965-974.
17. **Hsu CH**, Taylor JMG. Nonparametric Comparison of Two Survival Distributions with Dependent Censoring via Nonparametric Multiple Imputation. *Statistics in Medicine* 2009; **28**: 462-475.
18. **Hsu CH**, Taylor JMG, Long Q, Alberts DS. Analysis of Colorectal Adenoma Recurrence Data Subject to Informative Censoring. *Cancer Epidemiology, Biomarkers & Prevention* 2009; **18** (3): 712-717.
19. **Hsu CH**, Long Q, Alberts DS. Estimation of Colorectal Adenoma Recurrence with Dependent Censoring. *BMC Medical Research Methodology* 2009; **9**: 66 doi:10.1186/1471-2288-9-66.
20. Komenaka IK, Torabi R, Nair RG, Jayaram L, **Hsu CH**, Bouton ME, Dave H, Hobohm DW. Intraoperative Touch Imprint and Frozen Section Analysis of Sentinel Lymph Nodes after Neoadjuvant Chemotherapy for Breast Cancer. *Annals of Surgery* 2010; **251**: 319-322.
21. Bartley AN, Thompson PA, Buckmeier JA, Kepler CY, **Hsu CH**, Snyder MS, Lance MP, Bhattacharyya A, Hamilton SR. Expression of Gastric Pyloric Mucin MUC6 in Colorectal Serrated Polyps. *Modern Pathology* 2010; **23**: 169-176.

22. Thompson PA, **Hsu CH**, Green S, Stopeck AT, Johnson K, Alberts DS, Chow H-HS. Sulindac and Sulindac Metabolites in Nipple Aspirate Fluid and Effect on Drug Targets in a Phase I Trial. *Cancer Prevention Research* 2010; **3**: 101-107.
23. Komenaka IK, Pennington PE, Jr., Schneider BP, **Hsu CH**, Norton LE, Clare SE, Zork NM, Goulet RJ, Jr. Differences in compliance of university hospital and county hospital breast cancer patients. *Clinical Breast Cancer* 2010 Oct 1; **10**(5): 385-91.
24. Stratton M, Algotar A, Ranger-Moore J, Stratton S, Slate E, **Hsu CH**, Thompson P, Clark LC, Ahmann FR. Oral Selenium Supplementation Has No Effect on PSA Velocity in Men Undergoing Active Surveillance for Localized Prostate Cancer. *Cancer Prevention Research* 2010; **3**: 1035-1043.
25. Algotar AM, Thompson PA, Ranger-Moore J, Stratton MS, **Hsu CH**, Ahmann FR, Stratton SP. Effect of Aspirin, Other NSAIDs, and Statins on PSA and PSA Velocity. *The Prostate* 2010; **70**: 883-888.
26. Bouton M, Green A, Nodora J, Martinez M, **Hsu CH**, Komenaka I. Understanding of Breast Cancer Concepts in an Undereducated County Hospital Population. *Journal of Surgical Oncology* 2010; **102**: 398-403.
27. Algotar AM, Stratton MS, Stratton SP, **Hsu CH**, Ahmann FR. No Effect of Selenium Supplementation on Serum Glucose Levels in Men with Prostate Cancer. *American Journal of Medicine* 2010; **123**: 765-768.
28. Chow H-H, Garland L, **Hsu CH**, Vining D, Chew W, Miller J, Alberts D, Perloff M, Crowell J. Resveratrol Modulates Drug and Carcinogen Metabolizing Enzymes in a Healthy Volunteer Study. *Cancer Prevention Research* 2010; **3**: 1168-1175.
29. Komenaka IK, Martinez ME, Pennington RE, Jr., **Hsu CH**, Clare SE, Thompson PA, Murphy C, Zork NM, Goulet RJ, Jr. Race and Ethnicity and Breast Cancer Outcomes in an Underinsured Population. *JNCI* 2010; **102**: 1178-1187.
30. **Hsu CH**, Taylor JMG. A Robust Weighted Kaplan-Meier Approach for Data with Dependent Censoring Using Linear Combinations of Prognostic Covariates. *Statistics in Medicine* 2010; **29**: 2215-2223.
31. Long Q, Zhang X, **Hsu CH**. Nonparametric multiple imputation for ROC analysis when some biomarker values are missing. *Statistics in Medicine* 2011; **30**: 3149-61.
32. **Hsu CH**, Li Y, Long Q, Zhao Q. A Weighted Logistic Regression Model for Estimation of Recurrence of Adenomas with Dependent Censoring. *PLoS ONE* 2011; **6**: e25141
33. Komenaka IK, **Hsu CH**, Martinez ME, Low BG, Salganick JA, Bouton ME, Nodora J, Hibbard ML, Jha C. Preoperative chemotherapy for operable breast cancer is associated with improved compliance with adjuvant therapy in matched Stage II and IIIA patients. *The Oncologist* 2011; **16**: 742-51.
34. Davis KM, **Hsu CH**, Bouton ME, Wilhelmson KL, Komenaka IK. Intraoperative ultrasound can decrease re-excision lumpectomy rate in patients with palpable breast cancers. *The American Surgeon* 2011; **6**: 720-725.
35. Komenaka IK, Hibbard ML, **Hsu CH**, Low BG, Salganick JA, Bouton ME, Jha C. Preoperative chemotherapy for operable breast cancer improves surgical outcomes in the community hospital setting. *The Oncologist* 2011 Jun; **16**(6): 752-9.
36. Algotar AM, Stratton MS, Xu MJ, Dalkin BL, Nagle RB, **Hsu CH**, Clark LC, Stratton SP. Dose-dependent effects of selenized yeast on total selenium levels in prostatic tissue of men with prostate cancer. *Nutrition and Cancer* 2011; **63**: 1-5.
37. Algotar AM, Stratton SP, Ranger-Moore J, Stratton MS, **Hsu CH**, Ahmann FR, Nagle RB, Thompson PA. Association of obesity and smoking with PSA and PSA velocity. *American Journal of Men's Health* 2011; **5**: 272-278.
38. Nguyen MM, Ahmann FR, Nagle RB, **Hsu CH**, Tangrea JA, Parnes HL, Sokoloff1 MH, Gretzer MB, Chow H-HS. Randomized, Double-Blind, Placebo-Controlled Trial of

- Polyphenon E in Prostate Cancer Patients before Prostatectomy: Evaluation of Potential Chemopreventive Activities. *Cancer Prevention Research* 2012; **5**: 290-298.
39. Bouton ME, Shirah GR, Nodora J, Pond E, **Hsu CH**, Klemens AE, Martinez ME, Komenaka IK. Implementation of educational video improves patient understanding of basic breast cancer concepts in an undereducated county hospital population. *Journal of Surgical Oncology* 2012 Jan; **105**(1): 48-54.
 40. Curiel-Lewandrowski C, Swetter SM, Einsphar JG, **Hsu CH**, Nagle R, Sagerman P, Tangrea P, Parnes H, Alberts DS, Chow H-H. Randomized, Double-blind, Placebo Controlled Trial of Sulindac in Individuals at Risk for Melanoma: Evaluation of Potential Chemopreventive Activity. *Cancer* 2012; **118** (23): 5848-56.
 41. Le A, Friese RS, **Hsu CH**, Wynne JL, Rhee P, O'Keeffe T. Sleep Disruptions and Nocturnal Nursing Interactions in the Intensive Care Unit. *Journal of Surgical Research* 2012; **177** (2): 310-4.
 42. Algotar AM, Thompson PA, Ranger-Moore J, Stratton MS, **Hsu CH**, Ahmann FR, Nagle RB, Stratton SP. Differences in characteristics of men with localised prostate cancer who demonstrate low, intermediate or high prostate-specific antigen velocity. *Internal Medicine Journal* 2012; **42**: 374-380.
 43. Thompson P, Roe DJ, Fales L, Buckmeier J, Wang F, Hamilton SR, Bhattacharyya A, Green S, **Hsu CH**, Chow H-HS, Ahnen DJ, Boland CR, Heigh RI, Fay DE, Martinez ME, Jacobs E, Ashbeck EL, Alberts DS, Lance P. Design and baseline characteristics of participants in a phase III randomized trial of celecoxib and selenium for colorectal adenoma prevention. *Cancer Prevention Research* 2012; **5** (12): 1381-93. PMID: 23060037.
 44. Miller JA, Thompson PA, Hakim IA, Lopez AM, Thomson CA, Chew W, **Hsu CH**, Chow H-HS. Safety and Feasibility of Topical Application of Limonene as a Massage Oil to the Breast. *Journal of Cancer Therapy* 2012; **3**: 749-754.
 45. Long Q, **Hsu CH**, Li Y. Doubly Robust Nonparametric Multiple Imputation for Ignorable Missing Data. *Statistica Sinica* 2012; **22**: 149-172.
 46. **Hsu CH**, Nance DM, Amagase H. A Meta-Analysis of Clinical Improvements of General Well-being by a Standardized Lycium barbarum. *Journal of Medicinal Foods* 2012; **15** (11): 1006-14.
 47. Algotar AM, **Hsu CH**, Singh P, Stratton SP. Selenium supplementation has no effect on serum glucose levels in men at high risk for prostate cancer. *Journal of Diabetes* 2013; doi: 10.1111/1753-0407.
 48. Algotar AM, Stratton MS, Ahmann FR, Ranger-Moore J, Nagle RB, Thompson PA, Slate E, **Hsu CH**, Dalkin BL, Sindhwani P, Holmes MA, Tuckey JA, Graham DL, Clark LC, Stratton SP. Phase 3 clinical trial investigating the effect of selenium supplementation in men at high risk for prostate cancer. *Prostate* 2013; **73** (3): 328-35: PMID: 22887343.
 49. Miller JA, Lang JE, Ley M, Nagle R, **Hsu CH**, Thompson PA, Cordova C, Waer A, Chow H-HS. Human breast tissue disposition and bioactivity of limonene in women with early stage breast cancer. *Cancer Prevention Research* 2013; **6**: 577-584.
 50. Torabi R, **Hsu CH**, Patel PN, Dave H, Bouton ME, Komenaka IK. Predictors of margin status after breast conserving operations in an underscreened population. *Langenbecks Arch Surg* 2013 (Accepted for publication October 2012). PMID: 23184267.
 51. Kurzius-Spencer M, O'Rourke MK, **Hsu CH**, Hartz V, Harris R, Burgess JL. Measured versus modeled dietary arsenic and relation to urinary arsenic excretion and total exposure. *Journal of Exposure Science and Environmental Epidemiology* 2013; **23**: 442-449. PMID: 23321855.

52. Joseph B, Pandit V, Aziz H, Tang A, Kulvatunyou N, Wynne J, **Hsu P**, O’Keeffe T, Gries L, Friese RS, Rhee P. Rehabilitation after trauma: does age matter? *Journal of Surgical Research* 2013; **184**: 541-545.
53. Bartley AN, Parikh N, **Hsu CH**, Roe DJ, Buckmeier JA, Corley L, Phipps RA, Gallick G, Lance P, Thompson PA, Hamilton SR. Colorectal adenoma stem-like cell populations: associations with adenoma characteristics and metachronous colorectal neoplasia. *Cancer Prevention Research* 2013; **6**: 1162-70.
54. Chou C-H, Tulolo A, Raver EW, **Hsu CH**, Young G. Effects of race and health insurance on health disparities: results from the national health interview survey 2010. *Journal of Health Care for the Poor and Underserved* 2013; **24**: 1353-63.
55. Riaz BI, Dhoble A, Mizyed A, **Hsu CH**, Husnain M, Lee ZJ, Lotun K, Lee SK. Transcatheter patent foramen ovale closure versus medical therapy for cryptogenic stroke: a meta-analysis of randomized clinical trials. *BMC Cardiovascular Disorder* 2013; **13**:116.
56. Bansal S, Thai HM, **Hsu CH**, Sai-Sudhakar CB, Goldman S, Rhenman BE. Fast track extubation post coronary artery bypass graft: a retrospective review of predictors of clinical outcomes. *World Journal of Cardiovascular Surgery* 2013; **3**: 81-86.
57. Stonnington CM, Locke DEC, **Hsu CH**, Ritenbaugh C, Lane RD. Somatization is associated with deficits in affective theory of mind. *Journal of Psychosomatic Research* 2013; **74**: 479-485.
58. Miller JA, Thompson PA, Hakim IA, Lopez AM, Thomson CA, **Hsu CH**, Chow H-HS. Expression of epidermal growth factor, transforming growth factor- β 1 and adiponectin in nipple aspirate fluid and plasma of pre and post-menopausal women. *Biomarker Research* 2013; **1**: 1-18.
59. Kurzius-Spencer M, Burgess JL, Harris RB, Hartz V, Roberge J, Huang S, **Hsu CH**, O’Rourke MK. Contribution of diet to aggregate arsenic exposures—An analysis across populations. *Journal of Exposure Science and Environmental Epidemiology* 2014; **24**: 156-162.
60. Garcia F, Cornelison T, Nuno T, Greenspan DL, Byron JW, **Hsu CH**, Alberts DS, Chow H-HS. Results of a Phase II Randomized, Double-blind, Placebo Controlled Trial of Polyphenon E in Women with Persistent High Risk HPV Infection and Low Grade Cervical Intraepithelial Neoplasia. *Gynecologic Oncology* 2014; S0090-8258(13)01398-X. doi: 10.1016/j.ygyno.2013.12.034.
61. Chow HH, Garland LL, Heckman-Stoddard BM, **Hsu CH**, Butler VD, Cordova CA, Chew WM, Cornelison TL. A pilot clinical study of resveratrol in postmenopausal women with high body mass index: effects on systemic sex steroid hormones. *Journal of Translational Medicine* 2014; **12**:223 doi:10.1186/s12967-014-0223-0. PMID: 25115686.
62. Hollenbeck RD, McPherson JA, Mooney MR, Unger BT, Patel NC, McMullan PW, **Hsu CH**, Seder DB, Kern KB. Early Cardiac Catheterization is Associated with Improved Survival in Comatose Survivors of Cardiac Arrest Without STEMI. *Resuscitation* 2014; **85**: 88-95.
63. Komenaka IK, Nodora JN, Machado L, **Hsu CH**, Klemens AE, Martinez ME, Bouton ME, Wilhelmson KL, Weiss BD. Health literacy assessment and patient satisfaction in surgical practice. *Surgery* 2014; **155**: 374-383.
64. Klimentidis YC, Chen Z, Arora A, **Hsu CH**. Association of physical activity with lower type-2 diabetics incidence is weaker among individuals at high genetic risk. *Diabetologia* 2014; **57**: 2530-4. PMID: 25273344.
65. Olsen-Deeter L, **Hsu CH**, Nodora JN, Bouton ME, Nalagan J, Martinez ME, Komenaka IK. Factors which affect use of breast conservation and mastectomy in an underinsured Hispanic population. *Surg Oncol* 2014; **23**: 186-91. PMID: 25443563.

66. **Hsu CH**, Long Q, Li Y, Jacobs E. A Nonparametric Multiple Imputation Approach for Data with Missing Covariate Values with Application to Colorectal Adenoma Data. *Journal of Biopharmaceutical Statistics* 2014; **24**: 634-648.
67. Bell ML, Fiero M, Horton NJ, **Hsu CH**. Handling missing data in RCTs: a review of the top medical journals. *BMC Medical Research Methodology* 2014; **14**: 118. doi: 10.1186/1471-2288-14-118. PMID: 25407057.
68. Komenaka IK, Winton LM, Bouton ME, **Hsu CH**, Nodora JN, Olson L, Maffi TR, Nessel EM, Martinez ME. Women's impression of the expected breast appearance and its association with breast cancer operations. *Annals of Surgical Oncology* 2015; **22**: 2010-6. PMID: 25398279
69. Klemens AE, Olsen-Deeter L, **Hsu CH**, Bouton ME, Djenic B, Winton LM, Komenaka IK. Factors which affect use of lumpectomy and mastectomy in an underinsured, safety net hospital population. *Am J Surgery* 2015; **209**: 985-91. PMID: 25457245.
70. Bouton ME, Jayaram L, O'Neill PJ, **Hsu CH**, Komenaka IK. Management of idiopathic granulomatous mastitis with observation. *Am J Surg* 2015; **210**: 258-62. PMID: 25746911.
71. Komenaka IK, Nodora JN, **Hsu CH**, Martinez ME, Gandhi SG, Bouton ME, Klemens AE, Wikholm LI, Weiss BD. Association of Health Literacy With Adherence to Screening Mammography Guidelines. *Obstetrics & Gynecology* 2015; **125**: 852-9. PMID: 25751204.
72. Komenaka IK, Heberer MA, O'Neill PJ, **Hsu CH**, Nessel EM, Goldberg RF, Winton LM, Bouton ME, Caruso DM. The effect of an evidence based medicine curriculum on breast cancer knowledge and satisfaction of surgical residents. *J Surg Education* 2015; **72**: 717-25. PMID: 25687958.
73. Kern KB, Lotun K, Patel N, Mooney MR, Hollenbeck RD, McPherson JA, McMullan PW, Unger B, **Hsu CH**, Seder DB. Outcomes of comatose cardiac arrest survivors with and without STEMI: Importance of coronary angiography. *JACC Cardiovasc Interv.* 2015 Jul;8(8):1031-40. doi: 10.1016/j.jcin.2015.02.021. Epub 2015 Jun 24. PMID: 26117462
74. Tang D, Malone DC, Warholak TL, Chong J, Armstrong EP, Slack MK, **Hsu CH**, Labiner DM. Healthcare resource burden of newly diagnosed epilepsy in the US low-income population. *European Geriatric Medicine* 2015; **6**: 251-256.
75. Tang D, Malone DC, Warholak TL, Chong J, Armstrong EP, Slack MK, **Hsu CH**, Labiner DM. Prevalence and incidence of epilepsy in the United States elderly and low-income population. *J Clin Neurol.* 2015 Jul;11(3):252-61. PMID: 26022458.
76. Curiel-Lewandrowski C, Tang JY, Einspahr JG, Bermudez Y, **Hsu CH**, Rezaee M, Lee AH, Tangrea J, Parnes HL, Alberts DS, Chow HH. Pilot Study on the Bioactivity of Vitamin D in the Skin after Oral Supplementation. *Cancer Prev Res (Phila).* 2015 Jun;8(6):563-9. PMID: 25835512.
77. Lane RD, **Hsu CH**, Locke DE, Ritenbaugh C, Stonnington CM. Role of theory of mind in emotional awareness and alexithymia: Implications for conceptualization and measurement. *Conscious Cogn.* 2015; **33**: 398-405. PMID: 25766906.
78. Klimentidis YC, Chougule A, Arora A, Frazier-Wood AC, **Hsu CH**. Triglyceride-Increasing Alleles Associated with Protection against Type-2 Diabetes. *PLoS Genet.* 2015 May 28;11(5):e1005204. doi: 10.1371/journal.pgen.1005204. eCollection 2015 May. PMID: 26020539.
79. Algotar AM, Behnejad R, Singh P, Thompson PA, **Hsu CH**, Stratton SP. Effect of selenium supplementation on proteomic serum biomarkers in elderly men. *Journal of Frailty & Aging* 2015; **4**: 108-110. PMID: 26366377.
80. LeGendre-McGhee S, Rice PS, Wall RA, Sprute KJ, Bommireddy R, Luttman AM, Nagle RB, Abril ER, Farrell K, **Hsu CH**, Roe DJ, Gerner EW, Ignatenko NA, Barton JK. Time-

serial assessment of drug combination interventions in a mouse model of colorectal carcinogenesis using optical coherence tomography. *Cancer Growth Metastasis* 2015; 8: 63-80. PMID: 26396545.

81. **Hsu CH**, Taylor JMG, Hu CC. Analysis of accelerated failure time data with dependent censoring using auxiliary variables via multiple imputation. *Stat Med.* 2015 Aug 30;34(19):2768-80. PMID: 25999295.
82. Lee KS, Lee JZ, **Hsu CH**, Husnain M, Riaz H, Riaz IB, Thai H, Cassese S, Finn A, Samady H, Byrne RA. Temporal Trends in Strut-Level Optical Coherence Tomography Evaluation of Coronary Stent Coverage: A Systematic Review and Meta-Analysis. *Catheter Cardiovasc Interv.* 2015 Dec 28. doi: 10.1002/ccd.26374. PMID: 26708687.
83. Kurzius-Spencer M, Harris RB, Hartz V, Roberge J, **Hsu CH**, O'Rourke MK, Burgess JL. Relation of dietary inorganic arsenic to serum matrix metalloproteinase-9 (MMP-9) at different threshold concentrations of tap water arsenic. *Journal of Exposure Science and Environmental Epidemiology*, 2016; 26(5): 445-51. PMID: 25605447.
84. Zangbar B, Rhee P, Pandit V, **Hsu CH**, Khalil M, Okeefe T, Neumayer L, Joseph B. Seasonal Variation in Emergency General Surgery. *Ann Surg.* 2016; 263: 76-81. Apr 14. PMID: 25876008
85. Shirah GR, **Hsu CH**, Heberer MA, Wikholm LI, Goodman JJ, Bouton ME, Komenaka IK. Teaching residents may affect the margin status of breast-conserving operations. *Surg Today.* 2016; 46: 437-444. May 24. PMID: 26003052.
86. Winton LM, Nodora JN, Martinez ME, **Hsu CH**, Djenic B, Bouton ME, Aristizabal P, Ferguson EM, Weiss BD, Komenaka IK. Factors associated with surgical management in an underinsured, safety net population. *Surgery* 2016; 159: 580-90. PMID: 26444326.
87. Winton LM, Ferguson EM, **Hsu CH**, Agee N, Eubanks RD, O'Neill PJ, Goldberg RF, Kopelman TR, Nodora JN, Caruso DM, Komenaka IK. Does Self-Assessment Improve the Effectiveness of Grand Rounds Lectures in a Community-Based Teaching Hospital? *Journal of surgical education.* 2016; 73(6):968-973. PMID: 27236365
88. Heberer MA, Komenaka IK, Nodora JN, **Hsu CH**, Gandhi SG, Welch LE, Bouton ME, Aristizabal P, Weiss BD, Martinez ME. Factors associated with cervical cancer screening in a safety net population. *World journal of clinical oncology.* 2016; 7(5):406-413. PMID: 27777883
89. Lopez AM, Pruthi S, Boughey JC, Perloff M, **Hsu CH**, Lang JE, Ley M, Frank D, Taverna JA, Chow HS. Double-blind, Randomized Trial of Alternative Letrozole Dosing Regimens in Postmenopausal Women with Increased Breast Cancer Risk. *Cancer Prev Res (Phila).* 2016; 9: 142-8. PMID: 26667449.
90. **Hsu CH**, He Y, Li Y, Long Q, Friese R. Doubly robust multiple imputation using kernel-based techniques. *Biometrical Journal* 2016; 58: 588-606. PMID: 26647734.
91. Eric M. Lander EM, Wertheim BC, Koch SM, Chen Z, **Hsu CH**, Thomson CA. Vegetable protein intake is associated with lower gallbladder disease risk: Findings from the Women's Health Initiative prospective cohort. *Preventive Medicine.* 2016; 88: 20-26.

92. Banerjee B, Shaheen NJ, Martinez JA, **Hsu CH**, Trowers E, Gibson BA, Della'Zanna GJ, Richmond E, Chow HS. Clinical Study of Ursodeoxycholic Acid in Barrett's Esophagus Patients. *Cancer Prev Res (Phila)*. 2016 Feb 23. pii: canprevres.0276.2015.
93. Knolhoff JB, Djenic B, **Hsu CH**, Bouton ME, Komenaka IK. Missed Appointments in a Breast Clinic: Patient-Related Factors. *The American journal of the medical sciences*. 2016; 352(4):337-342. PMID: 27776713
94. Knight EP, Shea K, Rosenfeld AG, Schmiede S, **Hsu CH**, DeVon HA. Symptom Trajectories Following an Emergency Department Visit for Potential Acute Coronary Syndrome. *Nursing Research* 2016; 65 (4): 268-78. PMID: 27362513
95. Thompson PA, Ashbeck EL, Roe DJ, Fales L, Buckmeier J, Wang F, Bhattacharyya A, **Hsu CH**, Chow HHS, Ahnen DJ, Boland CR, Heigh RI, Fay DE, Hamilton SR, Jacobs ET, Martinez ME, Alberts DS, Lance P. Selenium Supplementation for Prevention of Colorectal Adenomas and Risk of Associated Type 2 Diabetes. *JNCI* 2016 Aug 16; 108(12). pii: djw152. doi: 10.1093/jnci/djw152. Print 2016 Dec. PMID: 27530657
96. Thompson PA, Ashbeck EL, Roe DJ, Fales L, Buckmeier J, Wang F, Bhattacharyya A, **Hsu CH**, Chow HHS, Ahnen DJ, Boland CR, Heigh RI, Fay DE, Hamilton SR, Jacobs ET, Martinez ME, Alberts DS, Lance P. Celecoxib for the Prevention of Colorectal Adenomas: Results of a Suspended Randomized Controlled Trial. *JNCI* 2016 Aug 16;108(12). pii: djw151. doi: 10.1093/jnci/djw151. PMID: 27530656
97. Kern KB, Hanna JM, Young HN, Ellingson CJ, White JJ, Heller B, Illindala U, **Hsu CH**, Zuercher M. Importance of Both Early Reperfusion and Therapeutic Hypothermia in Limiting Myocardial Infarct Size Post Cardiac Arrest in a Porcine Model. *JACC: Cardiovascular Interventions* 2016; 9(23):2403-2412.
98. Zhai J, **Hsu CH**, Daye J. Riddle for sparse regression with mandatory covariates with application to the genetic assessment of histologic grades of breast cancer. *BMC Medical Research Methodology* 2017; 17:12 DOI: 10.1186/s12874-017-0291-y
99. Eubanks RD, Nodora JN, **Hsu CH**, Bagley M, Bouton ME, Martinez ME, Komenaka IK. The feasibility and time required for routine health literacy assessment in surgical practice and effect on patient satisfaction. *Am Surg*. 2017; 83 (5): 458-464. PMID: 27541854
100. Habib S, Khan K, **Hsu CH**, Meister E, Rana A, Boyer T. Differential Simultaneous Liver and Kidney Transplant Benefit Based on Severity of Liver Damage at the Time of Transplantation. *Gastroenterology Res*. 2017 Apr;10(2):106-115. doi: 10.14740/gr803w. Epub 2017 Apr 19. PMID: 28496531
101. Zhou M*, He Y, Yu M, **Hsu CH**. A Nonparametric Multiple Imputation Approach for Missing Categorical Data. *BMC Medical Research Methodology* 2017 17:87 DOI: 10.1186/s12874-017-0360-2
102. Toosizadeh N, Wendel C, **Hsu CH**, Zamrini E, Mohler J. Frailty Assessment in Older Adults using Upper-extremity Function: Index Development. *BMC Geriatrics* (in press).

Complete List of Dr. Hsu's Publications can be accessed at

<http://www.ncbi.nlm.nih.gov/sites/myncbi/chiu-hsieh.hsu.1/bibliography/47866684/public/?sort=date&direction=ascending>

Peer reviewed published abstracts

1. #**Hsu CH**, Taylor JMG, Murray S. Survival Analysis Using Auxiliary Variables via Nonparametric Multiple Imputation. Proceeding of the 17th International Workshop on Statistical Modeling, Crete, Greece, 2002.
2. #**Hsu CH**, Taylor JMG. Monotone Smoothing Splines Application to Radiotherapy Data. Proceeding of the XXist International Biometric Conference.
3. Einspahr JG, Alberts DS, **Hsu CH**, Bhattacharya AK, Martinez ME, Buckmeier JA, Lance MP, Hamilton SR. Association of specific K-ras mutation and recurrence of advanced colorectal adenomas. AACR 2004.
4. **Hsu CH**. Modelling of Recurrence of Adenoma: A Latent Variable Approach. Proceeding of the International Workshop on Statistical Modeling, Galway, Ireland, 2006.
5. **Hsu CH**, Taylor JMG, Long Q, Alberts DS, Thompson PA. A Weighted Kaplan-Meier Approach for Estimation of Recurrence of Colorectal Adenomas. Proceeding of the International Workshop on Statistical Modeling, Barcelona, Spain, 2007.
6. Algotar AM, Stratton MS, Ranger-Moore J, Slate E, **Hsu CH**, Stratton SP, Monroe K, Schwartzberg G, Epstein F, Ahmann FR. Phase II clinical trial of selenium in subjects on active surveillance for prostate cancer progression. 2008 Genitourinary Cancers Symposium, San Francisco, CA, February 13-16, 2008.
7. Stratton MS, Algotar AM, Ranger-Moore J, Slate E, **Hsu CH**, Stratton SP, Thompson PA, Ahmann FR. Phase 2b clinical trial of selenium in prostate cancer patients on active surveillance. American Society of Clinical Oncology Annual Meeting. Chicago, Illinois. May 30-June 3, 2008.
8. Algotar AM, Thompson PA, Ranger-Moore J, Stratton MS, **Hsu CH**, Ahmann FR, Stratton SP. Effect of aspirin, NSAIDs, and statins on prostate cancer progression. American Association of Cancer Research, Annual Meeting 2009. Denver, CO, April 18-22.
9. Shirah GR, **Hsu CH**, Bouton ME, Komenaka IK. Differences in the sentinel node procedure with methylene blue compared to isosulfan blue. Poster Presentation #3115. San Antonio Breast Cancer Symposium 2009. December 2009. San Antonio, TX.
10. Davis K, **Hsu CH**, Bouton M, Komenaka IK. Intraoperative Ultrasound Can Decrease Re-Excision Lumpectomy Rate in Patients with Palpable Breast Cancers. American Society of Breast Surgeons, Annual Meeting 2010. Las Vegas, NV, April 28-May.
11. Torabi R, **Hsu CH**, Bouton ME, Komenaka IK. Predictors of margin status after breast-conserving operations for breast cancer. American Society of Clinical Oncology Annual Meeting 2010. June 2010. Chicago, IL.
12. Shirah GR, **Hsu CH**, Goodman JJ, Bouton ME, Komenaka IK. Technical ability of residents may affect surgical outcomes in breast cancer. American College of Surgeons 96th Clinical Congress. October 2010. Washington, DC.
13. Machado L, Klemens AE, Nodora J, **Hsu CH**, Zenuk R, Martinez ME, Borbon L, Bouton ME, Komenaka IK. Patient health literacy may affect use of screening mammography in an underinsured patient population. The Science of Cancer Health Disparities 2010. October 2010. Miami, FL.
14. Shirah GR, Bouton ME, Nodora J, **Hsu CH**, Klemens AE, Martinez ME, Komenaka IK. Implementation of video improves understanding of breast cancer concepts in an undereducated county hospital population. The Science of Cancer Health Disparities 2010. October 2010. Miami, FL.

15. Machado L, Komenaka IK, Nodora J, **Hsu CH**, Zenuk R, Klemens AE, Martinez ME, Bouton ME, Weiss BD. Health literacy affects use of screening mammography in an underinsured patient population. San Antonio Breast Cancer Symposium 2011. December 2011. San Antonio, TX.
16. Knolhoff JK, **Hsu CH**, Nodora J, Martinez ME, Bouton ME, Komenaka IK. Evaluation of patient related factors associated with missed appointments for clinic and procedures. The Science of Cancer Health Disparities 2011. September 2011. Washington, DC.
17. Nguyen M, Ahmann F, Nagle R, **Hsu CH**, Tangrea J, Parnes H, Sokoloff M, Gretzer M, Chow HHS. Randomized, double-blind, placebo controlled trial of polyphenon E in prostate cancer patients before radical prostatectomy: evaluation of potential chemopreventive activities. American Urological Association meeting 2012. Atlanta.
18. Klemens AE, Olsen L, **Hsu CH**, Bouton ME, Thompson PA, Komenaka IK. Factors which affect use of breast conservation and mastectomy in an underinsured, county hospital population. Society of Surgical Oncology Annual Cancer Symposium 2012. March 2012. Orlando, FL.
19. Olsen L, Klemens AE, **Hsu CH**, Bouton ME, Nodora J, Martinez ME, Thompson PA, Komenaka IK. Factors which affect use of breast conservation and mastectomy in Hispanic patients from a county hospital population. Society of Surgical Oncology Annual Cancer Symposium 2012. March 2012. Orlando, FL.
20. Knolhoff J, Nodora J, **Hsu CH**, Martinez ME, Bouton ME, Weiss BD, Komenaka IK. Patient related factors associated with increased risk for missed appointments. American College of Surgeons 98th Clinical Congress 2012. October 2012. Chicago, IL.
21. Olsen L, Klemens AE, **Hsu CH**, Nodora J, Martinez ME, Thompson PA, Bouton ME, Komenaka IK. Factors which affect surgical management in an underinsured, county hospital population. San Antonio Breast Cancer Symposium 2012. December 2012. San Antonio, TX.
22. Amagase H, **Hsu CH**, Nance DM. 2013. Pooled analysis of impact of Lycium barbarum Fruit (Goji) intake on central adiposity, sleep quality and general well-being: randomized double-blind, placebo-controlled human clinical studies. The Journal of the Federation of American Societies for Experimental Biology. April 2013.
23. Chow HHS, Garland LL, Heckman-Stoddard BM, **Hsu CH**, Butler VD, Cordova CK, Chew WM, Cornelison TL. 2013. Modulating effects of resveratrol on systemic markers associated with breast cancer risk: a pilot clinical study in postmenopausal women with high adiposity. *Cancer Research* 73.
24. Wikholm L, Komenaka IK, **Hsu CH**, Wells K, Bouton ME, Thompson PA, Nodora J, Martinez ME. Perception of breast cancer risk in an underinsured safety net population. San Antonio Breast Cancer Symposium 2013. December 2013. San Antonio, TX.
25. Komenaka IK, **Hsu CH**, Bouton ME, Olson L, Pond E, Nodora J, Martinez ME, Maffi TR, Nessel EM. Patients' impression of the expected appearance of breasts in 2013. San Antonio Breast Cancer Symposium 2013. December 2013. San Antonio, TX.
26. Heberer M, Komenaka IK, Nodora J, **Hsu CH**, Bouton ME, Gandhi SG, Martinez ME. Factors which affect cervical cancer screening in an underinsured safety net population. The Science of Cancer Health Disparities 2013. December 2013. Atlanta, GA.
27. Bouton ME, Wait A, **Hsu CH**, Hoffman M, Komenaka IK. Granulomatous mastitis. American College of Surgeons 98th Clinical Congress 2013. October 2013. Washington DC.
28. Heberer MA, Komenaka IK, Nodora JN, **Hsu CH**, Winton LM, Bouton ME, Martinez ME. Implementation of cancer risk assessment and genetic testing in underserved patients. San Antonio Breast Cancer Symposium 2014. December 2014. San Antonio, TX.
29. Eubanks RX, Komenaka IK, Nodora JN, Martinez ME, **Hsu CH**, Bouton ME, Weiss BD. The feasibility and time required for routine health literacy assessment in surgical practice.

American College of Surgeons 99th Clinical Congress 2014. October 2014. San Francisco, CA. Podium Presentation.

30. Wikholm LI , Komenaka IK, Nodora J, **Hsu CH**, Klemens AE, Martinez ME, Bouton ME, Weiss BD. The association of health literacy with screening mammography. Society of Surgical Oncology Annual Cancer Symposium 2014. March 2014. Phoenix, AZ.
31. **Hsu CH**, Taylor JMG, Hu C. Analysis of Accelerated Failure Time Data with Dependent Censoring Using Auxiliary Variables via Nonparametric Multiple Imputation. International Workshop for Statistical Modelling, Linz, Austria, July 2015.
32. Knight EP, Shea K, Schmiege S, Rosenfeld AG, **Hsu CH**, DeVon HA. Symptom trajectories after emergent evaluation for acute coronary syndrome. *Communicating Nursing Research Conference Proceedings* 2016, 49, 134.
33. Rosenfeld AG, McEwen MM, **Hsu CH**. Symptom experience of Mexican American women with diabetes & heart disease. *Communicating Nursing Research Conference Proceedings* 2016,49, 377.

Technical reports

1. #Chao A, Chu W, **Hsu CH**. 1998. Capture-Recapture When Both Time and Behavioral Response Affect Capture Probabilities. Technical Report, Institute of Statistics, National Tsing Hua University, Hsin-Chu, Taiwan.
2. #**Hsu CH**, Taylor JMG, Murray S. 2004. Survival Analysis Using Auxiliary Variables via Nonparametric Multiple Imputation. Biostatistics Department, University of Michigan, Ann Arbor.
3. **Hsu CH**. 2004-2011. Adverse Event Reports for the Selenium/Celecoxib Trial. Arizona Cancer Center, University of Arizona.

Manuscripts in Submission

1. **Hsu CH**, Yu M. Survival analysis with missing covariates via nonparametric multiple imputation. In submission.
2. Kern KB, Hanna JM, Young HN, Ellingson CJ, White JJ, Heller B, Illindala U, **Hsu CH**, Zuercher M. Importance of both early reperfusion and therapeutic hypothermia in limiting myocardial infarct size post cardiac arrest. In submission.
3. Bea JW, Blew RM, Going SB, **Hsu CH**, Lee MC, Lee VR Caan BJ, Kwan ML, Lohman TG. Dual energy X-ray absorptiometry spine scans to determine abdominal fat in post-menopausal women. In submission.
4. VanArsdale S, Yost S, **Hsu CH**, Meer M, Schoentag S, Habib S. Pyridoxine Deficiency after Solid Organ Transplant. In submission.

Book and Manuscript in preparation (only methods papers shown)

1. He Y, Zhang G, **Hsu CH**, Schenker N. Multiple imputation analysis for observational data. Chapman & Hall (anticipate to be released in 2017).
2. *Zhou M, He Y, Yu M, **Hsu CH**. A nonparametric multiple imputation approach for missing categorical data.
3. *Grunow N, **Hsu CH**. Estimation of recurrence of colorectal adenoma subject to misclassification.
4. *Davidson C, **Hsu CH**. A Model Selection Paradigm for Modeling Recurrent Adenoma Data in Polyp Prevention Trials.
5. **Hsu CH**. A Robust weighted Kaplan-Meier approach using time-dependent prognostic covariates.
6. **Hsu CH**. Survival analysis using auxiliary variables via local multiple imputation.

PRESENTATIONS

Invited

1. Joint Modeling of Recurrence and Progression of Adenoma Polyps: A Latent variable Approach. College of Pharmacy, University of Arizona, March 2, 2005.
2. Survival Analysis Via Nonparametric Multiple Imputation. Department of Applied Mathematics, National Chung-Hsing University, May 28, 2007.
3. Survival Analysis Via Nonparametric Multiple Imputation. College of Public Health, China Medical University, May 30, 2007.
4. Survival Analysis Using Auxiliary Variables Via Nonparametric Multiple Imputation, Institute of Statistical Science, Academia Sinica, June 4, 2007.
5. Survival Analysis Via Nonparametric Multiple Imputation, GIDP, University of Arizona, February 12, 2008.
6. Nonparametric Multiple Imputation for Censored Data and Regression with Missing Covariates. NCI/DCCPS/SRP, December 11, 2012
7. Multiple Imputation Using Smoothing Techniques. Keynote Speaker for ASA San Diego Chapter 2014 Business Meeting, February 6, 2014.
8. Survival Analysis with Missing Covariates. WNAR, Hawaii, June, 2014.
9. Survival Analysis via Nonparametric Multiple Imputation. Allergan, California, 2015.
10. Survival Analysis with Missing Covariates via Nonparametric Multiple Imputation. Biometric Research Program, NCI, December 2015.

Conferences & Seminar

1. **Hsu CH**, Taylor JMG, Murray S. Survival analysis using auxiliary variables via nonparametric multiple imputation, Presented at the 17th International Workshop on Statistical Modelling, Chania, Crete, Greece, July, 2002.
2. **Hsu CH**, Taylor JMG. Monotone smoothing splines application to radiotherapy data. Abstract accepted for poster short presentation at the 21st International Biometric Conference, Freiburg, Germany, July, 2002.
3. **Hsu CH**, Taylor JMG, Murray S. Survival estimation and testing via multiple imputation. Presented at the Joint Statistical Meetings, New York City, August, 2002.
4. **Hsu CH**, Taylor JMG, Murray S. Survival analysis using auxiliary variables via nonparametric multiple imputation, Presented at the ENAR Spring Meeting, Tampa, March, 2003.
5. **Hsu CH**, Taylor JMG, Murray S. Survival analysis using auxiliary variables via nonparametric multiple imputation, Presented at the ENAR Spring Meeting, Pittsburgh, March, 2004.
6. **Hsu CH**. Survival Analysis with Dependent Censoring. Presented at CPC Seminar, Arizona Cancer Center, May, 2004.
7. **Hsu CH**, Taylor JMG. Nonparametric Comparison of Two Survival Distributions with Dependent Censoring via Nonparametric Multiple Imputation. Presented at the 22nd International Biometric Conference, Cairns, Australia, July, 2004.
8. **Hsu CH**. Joint Modeling of Recurrence and Progression of Adenoma Polyps: A Latent Variable Approach, Presented at the 8th New Researchers Conference, Minneapolis, Minnesota, August 2-6, 2005.
9. **Hsu CH**. Alternative Approaches to Analyzing Polyp Data at CPC Seminar, Arizona Cancer Center, October, 2005.
10. **Hsu CH**. Modelling of Recurrence of Adenoma: A Latent Variable Approach. Galway, Ireland, July, 2006.

11. **Hsu CH**, Taylor JMG. Nonparametric Comparison of Two Survival Distributions with Dependent Censoring via Nonparametric Multiple Imputation. Presented at the 2006 JSM, Seattle, Washington, August, 2006.
12. **Hsu CH**. Shall We Adjust for Non-compliance in a Polyp Prevention Trial? CPC Seminar, Arizona Cancer Center, November, 2006.
13. **Hsu CH**, Taylor JMG, Long Q, Alberts DS, Thompson PA. A Weighted Kaplan-Meier Approach for Estimation of Recurrence of Colorectal Adenomas. ENAR Spring Meeting, Atlanta, Georgia, March 2007.
14. **Hsu CH**, Taylor JMG, Long Q, Alberts DS, Thompson PA. A Weighted Kaplan-Meier Approach for Estimation of Recurrence of Colorectal Adenomas. International Workshop on Statistical Modelling, Barcelona, Spain, July 2007.
15. **Hsu CH**, Taylor JMG. A Robust Weighted Kaplan-Meier Approach Using Linear Combinations of Prognostic Covariates. ENAR Spring Meeting, Washington DC, March 2008.
16. **Hsu CH**, Long Q. A Double Robust Local Multiple Imputation. ENAR Spring Meeting, San Antonio, Texas, March 2009.
17. **Hsu CH**, Khanna S. Statistical Models for Adenoma Data from Colorectal Polyp Prevention Trials. JSM Vancouver, August 2010.
18. **Hsu CH**, Long Q, Li Y. A Nonparametric Multiple Imputation Approach for Data with Missing Covariate Values with Application to Colorectal Adenoma Data. ENAR Spring meeting, Miami, Florida, March 2011.
19. **Hsu CH**, Long Q, Li Y, Jacobs E. A Nonparametric Multiple Imputation Approach for Data with Missing Covariate Values with Application to Colorectal Adenoma Data. International Workshop for Statistical Modelling, Prague, Czech Republic, July 2012.
20. **Hsu CH**, Taylor JMG, Hu C. Analysis of Accelerated Failure Time Data with Dependent Censoring Using Auxiliary Variables via Nonparametric Multiple Imputation. International Workshop for Statistical Modelling, Linz, Austria, July 2015.
21. **Hsu CH**, Yu M. Survival Analysis with Missing Covariates via Nonparametric Multiple Imputation CMStatistics, Sevilla, Spain, December 2016.

GRANTS, CONTRACTS AND CONSULTING

Ongoing Research Support

- | | |
|-----------|--|
| 2016-2020 | Statistician, NIH/NCI 3 P30 CA 23704 (Kraft, PI) Cancer center support grant. |
| 2014-2018 | Biostatistician, ABRC (Kern, PI) "A Pilot Randomized Clinical Trial of Early Coronary Angiography Versus No Early Coronary Angiography for Post-Cardiac Arrest Patients Without ECG ST Segment Elevation". |
| 2012-2019 | Biometry Director, NIH/NCI HHSN2612012000311 (Sherry Chow, PI) Cancer prevention agent development program: early phase clinical research Phase. effort. |
| 2015-2018 | Biostatistician, NIH 1U53DD001162-01 (Pettygrove, PI) Arizona Developmental Disabilities Surveillance Program (ADDSP). |
| 2015-2020 | Biostatistician, NIEHS P50ES026089 (Burgess, PI) Center for Indigenous Environmental Health Research (CIEHR). |

Completed Research Support

- | | |
|-----------|---|
| 2003-2009 | Statistician, NIH/NCI P30 (Alberts, PI) Cancer center support grant. |
| 2003-2009 | Statistician, NIH/NCI (Gerner, PI) SPORE in GI cancer |
| 2005-2006 | Statistician, NIH/NCI R03 (Jacobs, PI) "A pooling project of fiber, gender and colorectal adenoma". |

- 2006 Statistician, BTE (Hess, PI) “Health care preferences of ovarian cancer survivor and oncology physicians”.
- 2005-2010 Co-investigator, NIH/NCI P01 (Lance, PI) “Colon cancer chemoprevention program project”.
- 2005-2010 Co-investigator, NIH/NCI R01 (Ahmann/Stratton, Co-PI) “Phase III Trial of Selenium for Prostate Cancer Prevention (Negative Biopsy Trial)”.
- 2006 Principal investigator, American Cancer Society IRG Grant and the Cancer Center Support Grant “Model Surrogate Biomarkers in a Colorectal Cancer Prevention Trial”.
- 2007 Principal investigator, American Cancer Society IRG Grant and the Cancer Center Support Grant “Statistical Methods for Missing Data in Colorectal Cancer Research”.
- 2007 Statistician, NIH/NCI R01 (Weihs, PI) “Oxytocin study for breast cancer”.
- 2008-2010 Co-investigator, EPA STAR “Modeling dietary contributions to arsenic dose and methylation: elucidating predictive linkages”.
- 2009-2013 Statistician, NIH R01 (Liu, PI) “Tc-99m-Labeled Cytokine Ligands and SPECT Inflammation Imaging of Ischemic Hearts”.
- 2009-2011 Co-investigator, NIH/NCI R21 (Chow, PI) “Clinical study of disposition and biological activity of d-limonene”.
- 2009-2012 Principal investigator, NIH/NCI Grant R03 CA130089-01A1 “Statistical methods for colorectal neoplastic prevention trials”.
- 2011-2014 Co-investigator, NIH/NCI 1R01CA151708 (Peter Lance, PI) “Selenium colorectal cancer chemoprevention trials”.
- 2011-2015 Co-investigator, NIH R01 (Lane, PI) “Typical Daily Emotion, Ischemia and Repolarization in Coronary Artery Disease”.
- 2003-2014 Biometry Director, NIH/NCI N01-CN-35158 (Sherry Chow, PI) “Phase I & II clinical trials of cancer chemo-preventive agents”.

Consulting

- 2014 NCI Surveillance Research Program “Develop a robust method to handle survival analysis with missing covariates”.
- 2016 NCI Surveillance Research Program “Develop R package to implement the robust method for handling survival analysis with missing covariates”.