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Investigator /Deputy

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Education

- 1987
B.S. in Mathematics,
National Central University, Taiwan
- 1989
M.S. in Mathematics,
National Central University, Taiwan
- 1997
Ph.D. in Statistics,
University of Wisconsin-Madison, Wisconsin, U.S.A.

Professional Experiences

- 2014/08-present
Institute of Population Health Sciences, National Health Research
Institutes, Taiwan
Deputy Director
- 2011/10-present
Institute of Population Health Sciences, National Health Research
Institutes, Taiwan
Investigator
- 2011/1-2014/7
Division of Clinical Trial Statistics, Institute of Population Health
Sciences, National Health Research Institutes, Taiwan
Director
- 2012/8-present
National Yang Ming University, Taiwan
Adjunct Professor
- 2011/8- present
National Chiao Tung University, Taiwan
Adjunct Professor
- 2006/2- present
National Taiwan University, Taiwan
Adjunct Professor
- 2004/9-2011/9
Division of Biostatistics and Bioinformatics, Institute of Population
Health Sciences, National Health Research Institutes, Taiwan
Associate Investigator
- 2001/2-2004/9
Division of Biostatistics and Bioinformatics, National Health Research
Institutes, Taiwan
Assistant Investigator

Research Interests

Bayesian analysis, clinical trials, genetic study

Research Activities & Accomplishment

Over 136 SCI papers (since 1997), 4 book chapters, and one book in statistical, medical, genomics, and bioinformatics journals.

National Health Research Institutes-Institutional Repository:

<http://ir.nhri.org.tw/handle/3990099045/5410>

Selected Publications

Book:

Liu JP, Chow SC, and **Hsiao CF**. (2012). Design and Analysis of Bridging Studies, Chapman & Hall/CRC, Taylor & Francis, New York, NY.

Book Chapters:

Hsiao CF, Tsou, HH, Liu JP, Wu YJ. (2012). A Bayesian approach for evaluation of bridging studies. In: Liu JP, Chow SC, and Hsiao CF (Eds.), Design and Analysis of Bridging Studies, Chapman & Hall/CRC, Taylor & Francis, New York, NY.

Hsiao CF, Tsou, HH, Liu JP, Wu YJ. (2012). Two-stage designs of bridging studies. In: Liu JP, Chow SC, and Hsiao CF (Eds.), Design and Analysis of Bridging Studies, Chapman & Hall/CRC, Taylor & Francis, New York, NY.

Hsiao CF, Wang M, Chen HD, and Liu JP. (2008). Translation in clinical information between populations-bridging studies. In: Cosmatos D and Chow SC (Eds.), Translational Medicine: Strategies and Statistical Methods, Chapman Hall/CRC Press, Taylor & Francis, New York, NY.

Hsiao CF, Tsou HH, and Chow SC. Translation in clinical technology-traditional Chinese medicine. In: Cosmatos D and Chow SC (Eds.), Translational Medicine: Strategies and Statistical Methods, Chapman Hall/CRC Press, Taylor & Francis, New York, NY.

Papers:

Liu JT, Tsou HH*. Lan KKG, Chen CT, Lai YH, Chang WJ, Tzeng CS, **Hsiao CF***. (2016). Assessing the consistency of the treatment effect under the discrete random effects model in multiregional clinical trials, accepted by Statistics in Medicine.

Chie WC, Blazeby JM, **Hsiao CF**, Chiu HC, Poon RT, Mikoshiba N, Al-Kadhimi G, Heaton N, Calara J, Collins P, Caddick K, Costantini A, Vilgrain V, Chiang C. (2016). Differences in health-related quality of life between European and Asian patients with primary liver cancer, accepted by Asia-Pacific Journal of Clinical Oncology.

Chen MH, Lin J, **Hsiao CF**, Shan YS, Chen YC, Chen LT, Liu TW, Li CP, Chao Y. (2016). A phase II study of sequential capecitabine plus oxaliplatin followed by docetaxel plus capecitabine in patients with unresectable

gastric adenocarcinoma: The TCOG 3211 clinical trial, *Medicine*, 95(3):e2565.

Chen KY, **Hsiao CF**, Chang GC, Tsai YH, Su WC, Chen YM, Huang MS, Tsai FY, Jiang SS, Chang IS, Chen CY, Hsiung CA, Chen CJ, Yang PC. (2015).

Estrogen receptor gene polymorphisms and lung adenocarcinoma risk in never-smoking women, *Journal of Thoracic Oncology*, 10(10):1413-20.

Wu YJ, Chen CT, Tsou HH, **Hsiao CF**. (2015). Evaluating the relative cost of a targeted design versus an untargeted design for randomized clinical trials, *Drug Designing: Open Access*, 4:120.

Chie WC, Yu F, Li M, Baccaglini L, Blazeby JM, **Hsiao CF**, Chiu HC, Poon RT, Mikoshiba N, Al-Kadhimi G, Heaton N, Calara J, Collins P, Caddick K, Costantini A, Vilgrain V, Chiang C. (2015). Quality of life changes in patients undergoing treatment for hepatocellular carcinoma, *Qual Life Res*, 24(10):2499-506.

Chiang C, **Hsiao CF**, Liu JP. (2014) Sample size determination for individual bioequivalence inference. *PLoS ONE*, 9(10):e109746. (Co-first author)

Yoon S, Assimes TL, Quertermous T, **Hsiao CF**, Chunag LM, Hwu CM, Rajaratnam B, Olshen RA. (2014). Insulin resistance: regression and clustering, *PLoS One*, 9(6):e94129.

Chiang C, **Hsiao CF**, Liu JP. (2014). Sample size determination for within-device precision, *Journal of Chemometrics*, 28(3):202-211. (Co-first author)

Wang LW, **Hsiao CF**, Chen WT, Lee HH, Lin TC, Chen HC, Chen HH, Chien CR, Lin TY, Liu TW. (2014). Celecoxib plus chemoradiotherapy for locally advanced rectal cancer: A phase II TCOG study, *Journal of Surgical Oncology*, 109(6):580-585.

Wu YJ, Tan TS, Chow SC, **Hsiao CF***. (2014). Sample size estimation of multiregional clinical trials with heterogeneous variability across regions, *Journal of Biopharmaceutical Statistics*, 24: 254-271.

Huang YF, Chang WJ, **Hsiao CF***. (2013). An empirical Bayes approach to evaluation of results for a specific region in multi-regional clinical trials, *Pharmaceutical Statistics*, 11(4):295-299.

Chen KY, **Hsiao CF**, Chang GC, Tsai YH, Su WC, Chen YM, Huang MS, Hsiung CA, Chen CJ, Yang PC. (2013). EGFR polymorphisms, hormone replacement therapy, and lung adenocarcinoma risk: analysis from a genome-wide association study in never-smoking women, *Carcinogenesis*, 34(3):612-619. (co-first author)

Lo YL, **Hsiao CF**, Chang GC, Tsai YH, Huang MS, Su WC, Chen YM, Hsin CW, Chang CH, Yang PC, Chen CJ, Hsiung CA. (2013). Risk factors for primary lung cancer among never smokers by gender in a matched

case-control study, *Cancer Causes Control*, 24(3):567-576.

Shiah HS, Chen CY, Dai CY, **Hsiao CF**, Lin YJ, Su WC, Chang JY, Whang-Peng J, Lin PW, Huang JD, Chen LT. (2013). Randomised clinical trial: comparison of two everolimus dosing schedules in patients with advanced hepatocellular carcinoma, *Alimentary Pharmacology & Therapeutics*, 37(1): 62-73.

Hsiao CF, Sheu WWH, Huang YJ, Lin MW, Curb D, Ranade K, Quertermous T, Chen YM, Chen IYD, Wu KD. (2012). The effects of the rennin-angiotensin-aldosterone system gene polymorphisms on insulin resistance in hypertensive families, *Journal of The Rennin-Angiotensin-Aldosterone System*, 13(4): 446-454.

Tsou HH, Hung J, Chen YM, Huang WS, Chang WJ, **Hsiao CF***. (2012). Establishing consistency across all regions in a multi-regional clinical trial, *Pharmaceutical Statistics*, 11(4):295-299. (Correspondence)

Tsou HH, Tsong Y, Chang WJ, Done XY, **Hsiao CF**. (2012). Design and analysis issues of multi-regional clinical trials with different regional primary endpoints, *Journal of Biopharmaceutical Statistic*, 22(5): 1051-1059.

Chow SC, Chiang C, Liu JP, **Hsiao CF***. (2012). Statistical methods for bridging studies, *Journal of Biopharmaceutical Statistic*, 22(5): 903-915. (Correspondence)

Chen CT, Hung HMJ, **Hsiao CF***. (2012). Design and evaluation of multi-regional trials with heterogeneous treatment effect across regions, *Journal of Biopharmaceutical Statistic*, 22(5): 1037-1050. (Correspondence)

Huang WS, Liu JP, **Hsiao CF***. (2011). An alternative phase II/III design for continuous endpoint, *Pharmaceutical Statistics*, 10: 105-114. (Correspondence)

Tsou HH, Chien TY, Liu JP, **Hsiao CF***. (2011). A consistency approach to evaluation of bridging studies and multiregional trials, *Statistics in Medicine*, 17: 2171-2186. (Correspondence)

Chow SC, **Hsiao CF**. (2010). Bridging diversity: extrapolating foreign data to a new region, *Pharmaceutical Medicine*, 24(6): 349-362. (Equally contributed)

Tsai HJ, **Hsiao CF**, Ho LT, Chuang LM, He CT, Curb JD, Quertermos T, Hsiung CA, Sheu HH. (2010). Genetic Variants of Human Urea Transporter-2 are Associated with Metabolic Syndrome in Asian Population, *Clinica Chimica Acta*, 14: 411(23-24). (co-first author)

Tsou HH, Chow SC, Lan KKG, Liu JP, Wang M, Chern HD, Ho LT, Hsiung CA, **Hsiao CF***. (2010). Proposals of Statistical Consideration to Evaluation of Results for a Specific Region in Multi-regional Trials – Asian Perspective, *Pharmaceutical Statistics*, 9: 201-206. (Correspondence).

Ko FS, Tsou HH, Liu JP, **Hsiao CF***. (2010). Sample size determination for a

specific region in a multi-regional trial, *Journal of Biopharmaceutical Statistic*, 24: 870-885. (Correspondence)

Lo YL, **Hsiao CF**, Jou YS, Chang GC, Tsai YH, Su WC, Chen YM, Huang MS, Chen HL, Yang PC, Chen CJ, Hsiung CA. (2010). ATM polymorphisms, environmental tobacco smoke (ETS) exposure and risk of lung cancer among never smokers, *Lung Cancer*, 69(2): 148-154.

Hsieh TC, Chow SC, Liu JP, **Hsiao CF**, Chi E. (2010). Statistical test for evaluation of biosimilarity in variability of follow-on biologics, *Journal of Biopharmaceutical Statistic*, 20: 75-89.

Hsieh E, **Hsiao CF**, Liu JP. (2009). Statistical methods for evaluating the linearity in assay validation, *Journal of Chemometrics* 23: 56–63. (co-first author)

Hsiao CF, Tsou HH, Pong A, Liu JP, Lin CH, Chang YJ, Chow SC. (2009). Statistical validation of traditional Chinese medicine diagnostic procedure, *Drug Information Journal* 43(1): 83-95.

Hsiao CF*, Tsou HH, Wu YJ, Lin CH, Chang YJ. (2008). Translation in different diagnostic procedures-traditional Chinese medicine and western medicine, *Journal of the Formosan Medical Association* 107(12): S74-S85.

Tsou HH, **Hsiao CF**, Chow SC, Liu JP. (2008). A two-stage design for drug screening trials based on continuous endpoints, *Drug Information Journal* 42(3): 253-262. (co-first author)

Chen KY, **Hsiao CF**, Chang GC, Tsai YH, Su WC, Perng RP, Huang MS, Hsiung CA, Chen CJ, Yang PC. (2007). Hormone replacement therapy and lung cancer risk Chinese, *Cancer* 110(8):1768-1775.

Tsou HH, **Hsiao CF***, Chow SC, Yue L, Xu YL, Lee SJ. (2007). Mixed non-inferiority margin and statistical tests in active controlled trials, *Journal of Biopharmaceutical Statistic* 17: 339-357. (Correspondence)

Hsiao CF, Hsu YY, Tsou HH, Liu JP. (2007). Use of prior information for Bayesian evaluation of bridging studies, *Journal of Biopharmaceutical Statistic* 17(1): 109-121.

Hsiao CF and Clayton MK. (2007). Bayes optimal sequential trial designs, *Journal of Statistical Planning and Inference* 137(4): 1129-1137.

Hsiao CF, Chiu YF, Chiang FT, Ho LT, Lee WJ, Hung YJ, Chen YD, Donlon TA, Jorgenson E, Curb D, Risch N, Hsiung CA. (2006). Genome-wide linkage analysis of lipids in non-diabetic Chinese and Japanese from the SAPPHiRe family study, *American Journal of Hypertension* 19(12): 1270-1277.

Patent