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Education

- 1994
M.S. in Mathematics,
Fu-Jen Catholic University, Taiwan
- 2002
M.A. in Mathematical Statistics,
University of Maryland, College Park, U.S.A.
- 2005
Ph.D. in Mathematical Statistics,
University of Maryland, College Park, U.S.A.

Professional Experiences

- 2013/4-present
Institute of Population Health Sciences, National Health Research
Institutes, Taiwan
Associate Investigator
- 2014/8-present
Graduate Institute of Biostatistics, College of Public Health, China
Medical University, Taichung, Taiwan
Joint Appointment Associate Investigator
- 2015/7-present
Journal of Biopharmaceutical Statistics
Associate Editor
- 2015/4-present
Invited to join PLOS ONE Statistical Advisory Board
- 2015/4-present
Taiwan Association of IRB (TAIRB), Taiwan
Member
- 2013-present
Central Institutional Review Board (c-IRB), Taiwan
Member
- 2013-present
DSMB of Taiwan Cooperative Oncology Group (TCOG), Taiwan
Member
- 2009/1-present
Chang Gung Medical Foundation Institutional Review Board, Taiwan
Member
- 2008/5-2013/3
Institute of Population Health Sciences, National Health Research
Institutes, Taiwan
Assistant Investigator
- 2005/9-2008/5
Institute of Population Health Sciences, National Health Research

Institutes, Taiwan
Postdoctoral fellow

Research Interests

Statistical Methodologies in Clinical trials, Pharmaceutical statistics, Pharmacogenetic statistics, Epidemiology, Biostatistics, Big data analysis.

Research Activities & Accomplishment

Over 57 SCI papers and 7 book chapters in clinical trials, pharmaceutical statistics, pharmacogenetic statistics, epidemiology, and geriatric research.
National Health Research Institutes-Institutional Repository:
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Selected Publications

Twu CW, Wang WY, **Tsou HH**, Liu YC, Jiang RS, Liang KL, Lin PJ, Lin TY, Lin JC. Effects of EBV viral load and different treatment modality for stage III nasopharyngeal carcinoma. *Head & Neck*. 2020 Feb 3; Article in Press.

Fang CP, Wang SC, **Tsou HH**, Chung RH, Hsu YT, Liu SC, Kuo HW, Liu TH, Chen Andrew CH, Liu YL. Genetic polymorphisms in the opioid receptor delta 1 (OPRD1) gene are associated with methadone dose in methadone maintenance treatment for heroin dependence. *Journal of Human Genetics*. 2020 Apr;65:381-386.

Chen YC, Chou WH, Fang CP, Liu TH, **Tsou HH**, Wang Y, Liu YL. Serum level and activity of butylcholinesterase: A biomarker for post-stroke dementia. *Journal of Clinical Medicine*. 2019 Oct 24;8(11): 1778.

Tsou HH, Yang HC, Hsiao CF, Hsiung CA, Liu TW, Chuang MH, Wu HY, Hsu YT, Tsui CW, Chen PJ, Cheng AL, Hsu C, on behalf of the Taiwan Cooperative Oncology Group. (2019). Cost-Effectiveness of Preventing Hepatitis B Virus Reactivation in Patients with Lymphoma and Resolved HBV Infection. *Journal of the Formosan Medical Association*. 2020 Jan;119(1):335-344.

Yen CJ*, **Tsou HH**#, Hsieh CY#, Chu CY#, Chiu CF, Chen CC, Tsao CJ, Tsai KY, Tsai ST, Chang JY, Chang KY*. Sequential therapy of neoadjuvant biochemotherapy with cetuximab, paclitaxel, and cisplatin followed by cetuximab-based concurrent bioradiotherapy in high-risk locally advanced oral squamous cell carcinoma: final analysis of a phase 2 clinical trial. *Head & Neck journal. FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*. 2019 Jun;41(6):1703-1712. (*Corresponding authors)

Tsou HH*, Cheng YC, Slud EV, Wu YJ, Hsiao CF, Wu HY, Hsu YT, Lee FJ. 2019. Estimation of treatment effect in a multi-regional clinical trial with survival endpoint. In *JSM Proceedings, Biopharmaceutical Section*. Alexandria, VA: American Statistical Association. 1031-1039. (* Corresponding author)

Kumar V, Weng YC, Wu YC, Huang YT, Liu TH, Kristian T, Liu YL, **Tsou HH**, Chou WH. Genetic inhibition of PKCε attenuates neurodegeneration after global cerebral ischemia in male mice. *Journal of Neuroscience Research*. 2019

Apr;97(4):444-455.

Chen YC, Chou WH, Tsou HH, Fang CP, Liu TH, **Tsao HH**, Hsu WC, Weng YC, Wang Y, Liu YL. (2019). A Post-hoc Study of D-amino Acid Oxidase in Blood as an Indicator of Post-stroke Dementia. *Frontiers in Neurology*. 2019 Apr 26;10:402.

Yuan HY, Wen TH, Kung YH, **Tsou HH**, Chen CH, Chen LW, Lin PS. (2019). Prediction of annual dengue incidence by hydro-climatic extremes for southern Taiwan. *International Journal of Biometeorology*. 2019. Feb;63(2):259-268.

Wang SC, Chung RH, Kuo HW, Liu TH, Fang CP, Liu SC, Liu CC, **Tsou HH**, Chen ACH, Liu YL*. GRK5 is associated with the regulation of methadone dosage in heroin dependence. (2018) *International Journal of Neuropsychopharmacology*. 2018 Oct 1;21(10):910-917.

Yang HC[#], **Tsou HH**[#], Pei SN, Chang CS, Chen JH, Yao M, Lin SJ, Lin J, Yuan Q, Xia N, Liu TW, Chen PJ, Cheng AL, Hsu C* and Taiwan Cooperative Oncology Group. (2018). Quantification of HBV core antibodies may help predict HBV reactivation in lymphoma patients with resolved HBV infection. *Journal of Hepatology*. 2018. Vol. 69, 286-292. (#First authors, * Corresponding authors)

Kuo HW, Liu SW, **Tsou HH**, Hsu YT, Wang SC, Fang CP, Liu CC, Chen ACH, Liu YL*. Inflammatory chemokine eotaxin-1 is correlated with age in heroin dependent patients under methadone maintenance therapy. (2018) *Drug and Alcohol Dependence*. 2018 Feb 01;183:19-24.

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Tsou HH*, Chen CT, Lan KK Gordon. 2017. Strategies in designing interim analyses under Discrete Random-Effects Model in a multiregional trial. In *JSM Proceedings, Biopharmaceutical Section*. Alexandria, VA: American Statistical Association. 2812-2816.

Liu TH, Chung RH, Wang SC, Fang CP, **Tsou HH**, Shih CL, Kuo HW, Wang Y, Liu YL. Missense mutation at CLDN8 associated with a high plasma interferon gamma-inducible protein 10 level in methadone-maintained patients with urine test positive for morphine. *PLOS ONE*. 2017 Nov 16;12(11):Article number e0187639.

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Chen CT, **Tsou HH***, Hsiao CF*, Lai YH, Chang WJ, Liu JT. A Tolerance Interval Approach to Assessing the Biosimilarity of Follow-On Biologics.

Statistics in Biopharmaceutical Research. 2017 Sep;9(3):286-292 (* Corresponding author)

Kuo HW, Shih CL, Tsung JH, Liu SW, Chu SK, Yang HC, **Tsou HH**, Wang ZH, Chen ACH, Liu YL*. Pharmacogenomics Study on Cadherin 2 Network with Regard to HIV Infection and Methadone Treatment Outcome. (2017) PLOS ONE. 2017 Mar 30;12(3):Article number e0174647.

Chan DC, **Tsou HH**, Chang CB, Yang RS, Tsauo JY, Chen CY, Hsiao CF, Hsu YT, Chen CH, Chang SF, Hsiung CA, Kuo KN. (2017). Integrated Care for Geriatric Frailty and Sarcopenia: a Randomized Control Trial. Journal of Cachexia, Sarcopenia and Muscle. Feb; 8(1):78-88.

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Liu JT[#], Chen CT[#], Lan KKG[#], Tzeng CS, Hsiao CF*, **Tsou HH***. (2016). Assessing Benefit and Consistency of Treatment Effect under a Discrete Random Effect Model in Multiregional Clinical Trials. In: J. Lin et al (Eds.), *Statistical Applications from Clinical Trials and Personalized Medicine to Finance and Business Analytics*, ICSA Book Series in Statistics, Springer, Springer International Publishing Switzerland 2016. DOI 10.1007/978-3-319-42568-9. ISBN 978-3-319-42567-2. ISBN 978-3-319-42568-9 (eBook). P127-136 (* Corresponding author)

Chiang NJ*, Hsu C*, Chen JS*, **Tsou HH**, Shen YY, Chao Y, Chen MH, Yeh TS, Shan YS[†], Huang SF[†], Chen LT[†]. Expression levels of ROS1/ALK/c-MET and therapeutic efficacy of cetuximab plus chemotherapy in advanced biliary tract cancer. Scientific Reports. 2016 May 3;6:Article number 25369.

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patients with post-radiation persistently detectable plasma EBV DNA. *Oncotarget*. 2016 Jul;7(27):42608-42616.

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Wu SL, Wang SC, **Tsou HH**, Kuo HW, Ho IK, Liu SW, Hsu YT, Chang YS, Liu YL. Hepatitis C Virus infection influences the S-methadone metabolite plasma concentration. PLOS ONE. 2013, 8(7):e69310.

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Kuo HW, Liu SC, **Tsou HH**, Liu SW, Lin KM, Lu SC, Hsiao MC, Hsiao CF, Liu CY, Chen CH, Lu ML, Shen WW, Tang HS, Liu SI, Chang LH, Wu HY, Chang YS, Yeh TK, Chen AC, Liu YL. *CYP1A2* genetic polymorphisms are

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Chen YT, **Tsou HH**, Kuo HW, Fang CP, Wang SC, Ho IK, Chang YS, Chen CH, Hsiao CF, Wu HY, Lin KM, Chen ACH, Tsai-Wu JJ, Liu YL. OPRM1 genetic polymorphisms are associated with the plasma nicotine metabolite cotinine concentration in methadone maintenance patients: A cross sectional study. *Journal of Human Genetics*. 2013,58(2):84-90.

Wang SC, **Tsou HH**, Chen CH, Tian JN, Ho IK, Hsiao CF, Chou SY, Lin YF, Fang KC, Huang CL, Su LW, Fang YC, Liu ML, Wu HY, Lin KM, Liu SC, Kuo HW, Chen ACH, Chen YT, Liu YL. (2012). Genetic polymorphisms in the opioid receptor mu1 gene are associated with changes in libido insomnia in methadone maintenance patients. *European Neuropsychopharmacology*. Oct;22(10):695-703.

Tsou HH[#], Tsong Y, Liu JT, Dong X, Wu YT. (2012). Weighted evidence approach of bridging study. *J. Biopharmaceutical Statistics*. 22(5):952-65. (* Corresponding author)

Chan DC, **Tsou HH**, Yang RS, Tsao JY, Chen CY, Hsiung CA, Kuo KN. (2012). A Pilot Randomized Controlled Trial to Improve Geriatric Frailty. *BMC Geriatrics*. Sep 25; 12(1): 58. (SCI; Impact Factor=1.97, 2013)

Tsou HH^{*}, Tsong Y, Chang WJ, Dong X, Hsiao CF. (2012). Design and analysis issues of multi-regional clinical trials with different regional primary endpoints. *J. Biopharmaceutical Statistics*. 22(5),1051-9. (*Corresponding author)

Tsong Y, Chang WJ, Dong X, **Tsou HH**^{*}. (2012). Assessment of regional treatment effect in a multiregional clinical trial. *J. Biopharmaceutical Statistics*. 22(5):1019-1036. (* Corresponding author)

Tuan TF, Chung CT, **Tsou HH**, Chen FW, Lin HL, Lai YK, Lee WS, Chao YS, Hwang LL, Chen CT. (2012). Putative tumor metastasis-associated genes in human gastric cancer. *International Journal of Oncology*. Sep;41(3), 1068-1084.

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- Liu YL, Tian JN, Kuo HW, **Tsou HH**, Liu SW, Lu S, Lin KM, Chen YT. (2012). CYP1A2 genetic polymorphisms associated with antidepressant escitalopram metabolism and adverse reactions at early stage. *Clinical Pharmacology and Therapeutics*. 2012 Mar;91(Suppl. 1):S62.
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- Ko FS[#], **Tsou HH**[#], Liu JP, Hsiao CF. (2010). Sample size determination for a specific region in a multi-regional trial, *Journal of Biopharmaceutical Statistics*, 24: 870-885. ([#] co-first author)
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	Patent