

Professor: Dr. Yu-Ching Chou



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Education & Training

- Graduate Institute of Medical Sciences, National Defense Medical Center, Taiwan, Ph.D., 2003-2007, Epidemiology
- School of Public Health, National Defense Medical Center, Taiwan, Master, 1999-2001, Epidemiology
- School of Public Health, National Defense Medical Center, Taiwan, Bachelor, 1992-1996, Public Health

Research interests

Epidemiology, Applied Biostatistics, Data Analysis, Molecular Epidemiology

Selected Publications

- **Chou YC**, You SL, Bai CH, Liao YC, Wei CY, Sun CA. Utility of apolipoprotein measurements in predicting incident type 2 diabetes: A Chinese cohort study. *J Formos Med Assoc* 2020 Jan;119(1 Pt 1):51-58. (2019 JCR SCI, IF= 3.008, 42/165=26%, Medicine, General & Internal) (**First author**)
- Hsu CH, Hsiao CW, Sun CA, Wu WC, Yang T, Hu JM, Liao YC, Huang CH, Chen CY, Lin FH, **Chou YC***. Multiple gene promoter methylation and clinical stage in adjacent normal tissues: Effect on prognosis of colorectal cancer in Taiwan. *Sci Rep* 2020 Jan 10;10(1):145. (2019 JCR SCI, IF= 3.998, 17/71=24%, Multidisciplinary sciences) (**Corresponding author**)
- Hsu CH, Hsiao CW, Sun CA, Wu WC, Yang T, Hu JM, Huang CH, Liao YC, Chen CY, Lin FH, **Chou YC***. Novel methylation gene panel in adjacent normal tissues predicts poor prognosis of colorectal cancer in Taiwan. *World J Gastroenterol* 2020 January 14; 26(2): 154-167. (2019 JCR SCI, IF= 3.665, 35/88=39.8%, Gastroenterology & Hepatology) (**Corresponding author**)

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- Liu WH, Lin JC, **Chou YC**, Li MH, Tsai JT. CD44-associated radioresistance of glioblastoma in irradiated brain areas with optimal tumor coverage. ***Cancer Med*** 2020 Jan;9(1):350-360. (2019 JCR SCI, IF= 3.491, 111/244=45.5%, Oncology)
- Ding JJ, Lin SH, Huang JL, Wu TW, Hsia SH, Lin JJ, **Chou YC**, Tseng MH. Risk factors for complications of percutaneous ultrasound-guided renal biopsy in children. ***Pediatr Nephrol*** 2020 Feb;35(2):271-278. (2019 JCR SCI, IF= 2.676, 28/128=21.9%, Pediatrics)
- Chen CY, Hu JM, Shen CJ, **Chou YC**, Tian YF, Chen YC, You SL, Hung CF, Lin TC, Hsiao CW, Lin CY, Sun CA. Increased incidence of colorectal cancer with obstructive sleep apnea: a nationwide population-based cohort study. ***Sleep Med*** 2020 Feb; 66:15-20. (2019 JCR SCI, IF= 3.038, 80/204=39.2%, Clinical Neurology)
- **Chou YC**, Lin CH, Wong CS*, Chou WY, Chang JY, Sun CA*. Statin use and the risk of renal cell carcinoma: national cohort study. ***J Investig Med*** 2020 Mar;68(3):776-781. doi: 10.1136/jim-2019-001209. Epub 2019 Dec 9. (2019 JCR SCI, IF= 2.304, 60/165=36.4%, Medicine, General & Internal) **(First author)**
- Wu WC, Lai YW, **Chou YC**, Liao YC, You SL, Bai CH, Sun CA. Serum Uric Acid Level as a Harbinger of Type 2 Diabetes: A Prospective Observation in Taiwan. ***Int J Environ Res Public Health*** 2020 Mar 28;17(7):2277. (2019 JCR SCI, IF= 2.849, 58/193=30.1%, Public, Environmental &Occupational Health)
- **Chou YC**, Hsieh CJ, Cheng CA, Wu DC, Wu WC, Lin FH, Yu CP. Epidemiologic Characteristics of Imported and Domestic Chikungunya Cases in Taiwan: A 13-Year Retrospective Study. ***Int J Environ Res Public Health*** 2020 May 21;17(10):3615. (2019 JCR SCI, IF= 2.849, 58/193=30.1%, Public, Environmental &Occupational Health) **(First author)**

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- Chung HH, Lee CT, Hu JM, **Chou YC**, Lin YW, Shih YL. NKX6.1 Represses Tumorigenesis, Metastasis, and Chemoresistance in Colorectal Cancer. ***Int J Mol Sci*** 2020 Jul 19;21(14):5106. (2019 JCR SCI, IF= 4.556, 74/297=24.9%, Biochemistry & Molecular Biology)
- Hsieh CJ, Li CW, Cheng CA, Wu DC, Wu WC, Lin FH, **Chou YC***, Yu CP*. Epidemiologic Characteristics of Domestic Patients with Hemorrhagic Fever with Renal Syndrome in Taiwan: A 19-Year Retrospective Study. ***Int J Environ Res Public Health*** 2020 Jul 22;17(15):E5291. (2019 JCR SCI, IF= 2.849, 58/193=30.1%, Public, Environmental & Occupational Health) (**Co-corresponding author**)
- Chang CY, Chen LC, **Chou YC**, Li TY, Ho TY, Wu YT. The Effectiveness of Platelet-Rich Plasma and Radial Extracorporeal Shock Wave Compared with Platelet-Rich Plasma in the Treatment of Moderate Carpal Tunnel Syndrome. ***Pain Med*** 2020 Aug 1;21(8):1668-1675. (2019 JCR SCI, IF= 2.513, 51/165=31%, Medicine, General & Internal)
- **Chou YC**, Chan PC, Yang T, You SL, Bai CH, Sun CA. Apolipoprotein B Level and the Apolipoprotein B/Apolipoprotein A-I Ratio as a Harbinger of Ischemic Stroke: A Prospective Observation in Taiwan. ***Cerebrovasc Dis*** 2020;49(5):487-494. (2019 JCR SCI, IF= 2.698, 31/65=48%, Peripheral Vascular Disease) (**First author**)
- Mok TYD, Tseng MH, Lee JC, **Chou YC**, Lien R, Lai MY, Lee CC, Lin JJ, Chou IJ, Lin KL, Chiang MC. A retrospective study on the incidence of acute kidney injury and its early prediction using troponin-I in cooled asphyxiated neonates. ***Sci Rep*** 2020 Sep 24;10(1):15682. (2019 JCR SCI, IF= 3.998, 17/71=24%, Multidisciplinary sciences)

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- Lee YT, Chen HY, Yang YS, Chou YC, Chang TY, Hsu WJ, Lin IC; ACTION Study Group, Sun JR. AdeABC Efflux Pump Controlled by AdeRS Two Component System Conferring Resistance to Tigecycline, Omadacycline and Eravacycline in Clinical Carbapenem Resistant Acinetobacter nosocomialis. *Front Microbiol.* 2020 Nov 2;11:584789. (2019 JCR SCI, IF= 4.236, 34/136=25%, Microbiology)
- Chen LY, Lin HJ, Wu WT, Chen YC, Chen CL, Kao J, You SL, **Chou YC***, Sun CA*. Clinical Use of Acid Suppressants and Risk of Dementia in the Elderly: A Pharmaco-Epidemiological Cohort Study. *Int J Environ Res Public Health* 2020 Nov 9;17(21):8271. (2019 JCR SCI, IF= 2.849, 58/193=30.1%, Public, Environmental & Occupational Health) **(Co-corresponding author)**
- Yeh FC, Chen HC, **Chou YC**, Lin CL, Kao CH, Lo HY, Liu FC, Yang TY. Positive association of Parkinson's disease with ankylosing spondylitis: a nationwide population-based study. *J Transl Med* 2020 Nov 30;18(1):455. (2019 JCR SCI, IF= 4.124, 45/139=32.4%, Medicine, Research & Experimental)
- Liu LC, Tsai YH, **Chou YC**, Jheng YC, Lin CK, Lyu NY, Chien Y, Yang YP, Chang KJ, Chang KH, Lee YL, Wang PH, Chu TW, Chang CC. Concordance analysis of intrapartum cardiotocography between physicians and artificial intelligence-based technique using modified one-dimensional fully convolutional networks. *J Chin Med Assoc* 2021 Feb 1;84(2):158-164. (2020 JCR SCI, IF= 2.743, 62/169=36.7%, Medicine, General & Internal)
- Yu CP, **Chou YC**, Wu DC, Cheng CG, Cheng CA. Surveillance of foodborne diseases in Taiwan: A retrospective study. *Medicine (Baltimore)* 2021 Feb 5;100(5):e24424. (2020 JCR SCI, IF= 1.889, 99/169=58.6%, Medicine, General & Internal)

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- 20. Wang V, Kuo TT, Huang EY, Ma KH, **Chou YC**, Fu ZY, Lai LW, Jung J, Choi HI, Choi DS, Li Y, Olson L, Greig NH, Hoffer BJ, Chen YH. Sustained Release GLP-1 Agonist PT320 Delays Disease Progression in a Mouse Model of Parkinson's Disease. ***ACS Pharmacol Transl Sci*** 2021 Mar 16;4(2):858-869. (Non-SCI)
- 21. Chen SR, Shen YP, Ho TY, Li TY, Su YC, **Chou YC**, Chen LC, Wu YT. One-Year Efficacy of Platelet-Rich Plasma for Moderate-to-Severe Carpal Tunnel Syndrome: A Prospective, Randomized, Double-Blind, Controlled Trial. ***Arch Phys Med Rehabil*** 2021 May;102(5):951-958. (2020 JCR SCI, IF=3.966, 5/68=7.4% in Rehabilitation; 23/88=26.2% in Sport Sciences)
- 22. Chang YC, Tsai PH, **Chou YC**, Lu KC, Chang FY, Wu CC. Biomarkers Linked with Dynamic Changes of Renal Function in Asymptomatic and Mildly Symptomatic COVID-19 Patients. ***J Pers Med*** 2021 May 19;11(5):432. (2020 JCR SCI, IF= 4.945, 31/169=18.4%, Medicine, General & Internal)
- 23. Chen HY, Chuang CC, **Chou YC**, Hsu WJ, Lin IC, Action Study Group, Sun JR. Rapid typing of carbapenem-resistant *Acinetobacter baumannii* and *Acinetobacter nosocomialis* by multiplex Pan- and OXA-PCR assays. ***J Med Microbiol*** 2021 Jul;70(7). (2020 JCR SCI, IF= 2.472, 104/137=76.0%, Microbiology)
- 24. Chang CC, Huang CH, **Chou YC**, Chang JY, Sun CA. Association Between Age-Related Macular Degeneration and Risk of Heart Failure: A Population-Based Nested Case-Control Study. ***J Am Heart Assoc*** 2021 Aug 3;10(15):e020071. (2020 JCR SCI, IF= 5.501, 35/141=24.9%, Cardiac & Cardiovascular Systems)
- 25. Hsu HH, Ko KH, **Chou YC**, Wu YC, Chiu SH, Chang CK, Chang WC. Performance and reading time of lung nodule identification on multidetector CT with or without an artificial intelligence-powered computer-aided detection system. ***Clin Radiol*** 2021 Aug;76(8):626.e23-626.e32. (2020 JCR SCI, IF= 2.350, 88/134=65.7%, Radiology, Nuclear Medicine & Medical Imaging)

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- 26.Huang CL, Wang TW, Chen YC, Hu JM, Ku PM, Hsieh CH, Lee CH, Kuo FC, Lu CH, Su CC, Liu JS, Lin FH, **Chou YC**, Sun CA. Gout as a risk factor for acute myocardial infarction: evidence from competing risk model analysis. *J Investig Med* 2021 Aug;69(6):1161-1167. (2020 JCR SCI, IF= 2.895, 59/169=35.0%, Medicine, General & Internal)
- 27.Tsai CH, **Chou YC**, Lin JD, Chen GS. The effectiveness of a patakara device in improving oral function and quality of life in people with intellectual disabilities. *J Med Sci (Taiwan)* 2021 Sep 2;41(2):68-75.(Non-SCI)
- 28. Wang SH, Yang KY, Sheu CC, Chen WC, Chan MC, Feng JY, Chen CM, Wu BR, Zheng ZR, **Chou YC**, Peng CK, On Behalf Of The T-Care Taiwan Critical Care Infection Group. Efficacies of Colistin–Carbapenem versus Colistin–Tigecycline in Critically Ill Patients with CR-GNB-Associated Pneumonia: A Multicenter Observational Study. *Antibiotics* 2021 Sep 7;10(9):1081. (2020 JCR SCI, IF= 4.639, 26/92=28.3%, in Infectious diseases; 76/275=27.7% in Pharmacology& Pharmacy)
- 29.Lee CC, Kuo YC, Hu JM, Chang PK, Sun CA, Yang T, Li CW, Chen CY, Lin FH, Hsu CH*, **Chou YC***. MTNR1B polymorphisms with CDKN2A and MGMT methylation status are associated with poor prognosis of colorectal cancer in Taiwan. *World J Gastroenterol* 2021 Sep 14;27(34): 5737-5752. (2020 JCR SCI, IF= 5.742, 28/92=30.5%, Gastroenterology & Hepatology) (**Co-corresponding author**)
- 30.Lin FH, **Chou YC**, Chen BC, Lu JC, Liu CJ, Hsieh CJ, Yu CP*. An Increased Risk of School-Aged Children with Viral Infection among Diarrhea Clusters in Taiwan during 2011–2019. *Children* Sep 15;8(9):807 (2020 JCR SCI, IF= 2.863, 40/129=31.1%, Pediatrics)

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- 31.Cheng YC, Wu PH, Chen YJ, Yang CH, Huang JL, **Chou YC**, Chang PK, Wen CC, Jao SW, Huang HH et al. Using Comorbidity Pattern Analysis to Detect Reliable Methylated Genes in Colorectal Cancer Verified by Stool DNA Test. **Genes** 2021 Sep 28; 12: 1539. (2020 JCR SCI, IF= 4.096, 65/175=37.2%, Genetics & Heredity)
- 32.Hsu PC, Chao TK, **Chou YC**, Yu MH, Wang YC, Lin YH, Lee YL, Liu LC, Chang CC*. AIM2 Inflammasome in Tumor Cells as a Biomarker for Predicting the Treatment Response to Antiangiogenic Therapy in Epithelial Ovarian Cancer Patients. **J Clin Med** 2021 Sep 30; 10: 4529. (2020 JCR SCI, IF= 4.241, 39/169=23.1%, Medicine, General & Internal)
- 33.Lin FH, Chen BC, **Chou YC**, Hsieh CJ, Yu CP*. Incidence and Risk Factors for Notifiable Typhoid and Paratyphoid in Taiwan during the Period 2011–2020. **Healthcare** 2021 Oct 1; 9: 1316. (2020 JCR SCI, IF= 2.645, 57/108=52.8%, Health Care Sciences & Services)
- 34. Wu CH, **Chou YC**, Lin FH, Hsieh CJ, Wu DC, Peng CK*, Yu CP*. Epidemiological features of domestic and imported cases with COVID-19 between January 2020 and March 2021 in Taiwan. **Medicine (Baltimore)** 2021 Oct 1;100(39):e27360. (2020 JCR SCI, IF= 1.889, 99/169=58.6%, Medicine, General & Internal)
- 35.Shen YP, Li TY, **Chou YC**, Chen LC, Wu YT*. Outcome predictors of platelet-rich plasma injection for moderate carpal tunnel syndrome. **Int J Clin Pract** 2021 Oct;75(10):e14482. doi: 10.1111/ijcp.14482. Epub 2021 Jun 23. PMID: 34107143. (2020 JCR SCI, IF= 2.503, 73/169=43.2%, Medicine, General & Internal)
- 36.Hu JM, Wu JJ, Hsu CH, Chen YC, Tian YF, Chang PK, Chen CY, **Chou YC**, Sun CA*. Association between gastroesophageal reflux disease and colorectal cancer risk: a population-based cohort study. **Int J Colorectal Dis** 2021 Nov;36(11):2411-2418. (2020 JCR SCI, IF=2.571, 98/212=46.3%, Surgery)

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- 37. Liu NT, Perng CL, **Chou YC**, Ko PS, Lin YJ, Lin YC, Chang CC, Wang YC, Shang HS, Chao TK*. Loss of ten-eleven translocation 1 (TET1) expression as a diagnostic and prognostic biomarker of endometrial carcinoma. ***PLoS One*** 2021 Nov 3;16(11):e0259330. (2020 JCR SCI, IF=3.240, 26/73=35.6%, Multidisciplinary sciences)
- 38. Lin FH, **Chou YC**, Chien WC, Chung CH, Hsieh CJ, Yu CP. Epidemiology and Risk Factors for Notifiable Scrub Typhus in Taiwan during the Period 2010-2019. ***Healthcare (Basel)*** 2021 Nov 23;9(12):1619. (2020 JCR SCI, IF= 2.645, 57/108=52.8%, Health Care Sciences & Services)
- 39. Chang SY, Chen YC, Tsai CL, Wu SW, Peng CK, Shen CH, **Chou YC**, Chian CF. Sonographic septation: a useful diagnostic predictor of complicated parapneumonic effusion. ***J Investig Med*** 2021 Dec;69(8):1447-1452. (2020 JCR SCI, IF= 2.895, 59/169=35.0%, Medicine, General & Internal)
- 40. Lin KH, Hsu HM, Hsu KF, Chu CH, Hong ZJ, Fu CY, **Chou YC**, Mehra G, Dai MS, Yu JC, Liao GS. Survival outcomes in elderly Taiwanese women according to breast cancer subtype and lymph node status: A single-center retrospective study. ***PLoS One*** 2021 Dec 30;16(12):e0261258. (2020 JCR SCI, IF=3.240, 26/73=35.6%, Multidisciplinary sciences)
- 41. Tsai YT, **Chou YC**, Wu CC, Yeh TT. Traditional versus Minimally Invasive Spinopelvic Fixation for Sacral Fracture Treatment in Vertically Unstable Pelvic Fractures. ***J Pers Med*** 2022 Feb 11;12(2):262. (2021 JCR SCI, IF= 3.508, 69/172=40.1%, Medicine, General & Internal)
- 42. Hsu CJ, Lin WC, **Chou YC**, Yang CM, Wu HL, Cheng YH, Liu PC, Chang JY, Chen HY, Sun JR*. Dynamic Changes of the Blood Chemistry in Syrian Hamsters Post-Acute COVID-19. ***Microbiol Spectr*** 2022 Feb 23;10(1):e0236221. (2021 JCR SCI, IF= 9.043, 20/136=14.7%, Microbiology)

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- 43. Su JQ, Lai PY, Hu PH, Hu JM, Chang PK, Chen CY, Wu JJ, Lin YJ, Sun CA, Yang T, Hsu CH*, Lin HC*, **Chou YC***. Differential DNA methylation analysis of SUMF2, ADAMTS5, and PXDN provides novel insights into colorectal cancer prognosis prediction in Taiwan. ***World J Gastroenterol*** 2022 Feb 28;28(8):825-839. (2021 JCR SCI, IF= 5.374, 31/93=33.4%, Gastroenterology & Hepatology) (**Co-corresponding author**)
- 44. Chu CC, Chen YC, Lin MH, Wu WT, Liu FC, Chen HC, **Chou YC**, Sun CA*. Association between Clinical Use of Colchicine and Risk of Type 2 Diabetes Mellitus among Gouty Patients: A Nationwide Cohort Study. ***Int J Environ Res Public Health*** 2022 Mar 14;19(6):3395. (2021 JCR SCI, IF= 4.614, 71/210=33.9%, Public, Environmental & Occupational Health)
- 45. Kuo YS, Hu MH, Chan WH, Huang TY, **Chou YC**, Huang GS. Evaluation of the Preventive Effects of Fish Oil and Sunflower Seed Oil on the Pathophysiology of Sepsis in Endotoxemic Rats. ***Front Nutr*** 2022 Apr 6;9:857255.(2021 JCR SCI, IF= 6.59, 16/90=17.8%, NUTRITION & DIETETICS)
- 46. Kuo CY, Liu WH, **Chou YC**, Li MH, Tsai JT, Huang DY, Lin JC. To Optimize Radiotherapeutic Plans for Superior Tumor Coverage Predicts Malignant Glioma Prognosis and Normal Tissue Complication Probability. ***J Clin Med*** 2022 Apr 25;11(9):2413.(2021 JCR SCI, IF= 4.964, 54/172=31.4%, Medicine, General & Internal)
- 47. Lin FH, **Chou YC**, Chien WC, Chung CH, Hsieh CJ, Yu CP. The Most Common Location of Schools with Viral Upper Respiratory Tract Infection Clusters in Taiwan, 2011-2019. ***Children (Basel)*** 2022 May 13;9(5):720.(2021 JCR SCI, IF= 2.835, 59/130=45.4%, Pediatrics)
- 48. Lin MH, Wu WT, Chen YC, Lu CH, Su SC, Kuo FC, **Chou YC**, Sun CA. Association between Non-Steroidal Anti-Inflammatory Drugs Use and the Risk of Type 2 Diabetes Mellitus: A Nationwide Retrospective Cohort Study. ***J Clin Med*** 2022 Jun 2;11(11):3186.(2021 JCR SCI, IF= 4.964, 54/172=31.4%, Medicine, General & Internal)

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- 49. Hu MH, Huang TY, **Chou YC**, Huang GS. Platelet CD40L Expression Response to Mixing of pRBCs and Washed Platelets but no Causality Association between Platelet ROS Generation and CD40L Expression: An In Vitro Study. ***Antioxidants (Basel)*** 2022 Jun 2;11(6):1108. (2021 JCR SCI, IF= 7.675, 50/296=16.9%, BIOCHEMISTRY & MOLECULAR BIOLOGY)
- 50. Lin FH, Chen BC, **Chou YC**, Chien WC, Chung CH, Hsieh CJ, Yu CP. The Epidemiology of Entamoeba histolytica Infection and Its Associated Risk Factors among Domestic and Imported Patients in Taiwan during the 2011-2020 Period. ***Medicina (Kaunas)*** 2022 Jun 17;58(6):820.(2021 JCR SCI, IF= 2.948, 87/172=50.6%, Medicine, General & Internal)
- 51. Lai CY, Li TY, Lam KHS, **Chou YC**, Hueng DY, Chen LC, Wu YT. The Long-Term Analgesic Effectiveness of Platelet-Rich Plasma Injection for Carpal Tunnel Syndrome: A Cross-Sectional Cohort Study. ***Pain Med*** 2022 Jul 1;23(7):1249-1258. (2021 JCR SCI, IF= 3.637, 65/172=37.8%, Medicine, General & Internal)
- 52. Wang SH, Yang KY, Sheu CC, Chen WC, Chan MC, Feng JY, Chen CM, Wu BR, Zheng ZR, **Chou YC**, Peng CK; T.-CARE (Taiwan Critical Care, Infection) Group. The necessity of a loading dose when prescribing intravenous colistin in critically ill patients with CRGNB-associated pneumonia: a multi-center observational study. ***Crit Care*** 2022 Apr 4;26(1):91. (2021 JCR SCI, IF= 19.346, 4/35=11.4%, CRITICAL CARE MEDICINE)
- 53. Chen CY, Wu JJ, Lin YJ, Hsu CH, Hu JM, Chang PK, Sun CA, Yang T, Su JQ*, **Chou YC***. Significance of Hypermethylation of Tumor-Suppressor Genes PTGER4 and ZNF43 at CpG Sites in the Prognosis of Colorectal Cancer. ***Int J Mol Sci*** 2022 Sep 6;23(18):10225. (2021 JCR SCI, IF= 6.208, 69/296=23.4%, BIOCHEMISTRY & MOLECULAR BIOLOGY) (Co-corresponding author)