



Chih-Cheng Hsu, MD, DrPH
Investigator and
Deputy Director

T: +886-37-246166 ext. 36336

F: +886-37-586261

cch@nhri.edu.tw

Education

- 1986
Doctor of Medicine
National Yang-Ming University, Taiwan
- 1992
Master of Public Health
National Taiwan University, Taiwan
- 2000
Doctor of Public Health
Tulane University, U.S.A.

Professional Experiences

- 2014/08-present
Institute of Population Health Sciences, National Health Research Institutes, Taiwan
Investigator and Deputy Director
- 2011-2014
Division of Geriatrics and Gerontology
Institute of Population Health Sciences, National Health Research Institutes, Taiwan
Associate Investigator and Director
- 2015-present
Institute of Clinical Medicine, National Yang-Ming University, Taiwan
Adjunct Professor
- 2006/6-2014/7
Institute of Population Health Sciences, National Health Research Institutes, Taiwan
Associate Investigator
- 2001-2006/5
Division of Health Policy Research, National Health Research Institutes, Taiwan
Assistant Investigator

Research Interests

Geriatric Research, Epidemiology and care of diabetes mellitus, Epidemiology and prevention of chronic kidney diseases, Program evaluation, Tobacco control

Research Activities & Accomplishment

Over 150 SCI papers (since 2000) in chronic kidney disease, diabetes, tobacco control, and geriatric research

National Health Research Institutes-Institutional Repository:

<http://211.76.174.198/handle/3990099045/7501>

Selected Publications (since 2018)

1. Yen FS, Yang YC, Hwu CM, Wei JC, Huang YH, Hou MC, Hsu CC*. Liver-related long-term outcomes of thiazolidinedione use in persons with type 2 diabetes. *Liver Int.* 2020 Jan 21. doi: 10.1111/liv.14385. [Epub ahead of print] PubMed PMID: 31960563. (co-corresponding author)
2. Hsu YH, Sung FC, Muo CH, Chuang SY, Chen CM, Hsu CY, Hsu CC*. Increased risk of developing peripheral artery disease in hemodialysis patients receiving statin treatments: a population-based cohort study in Taiwan. *Nephrol Dial Transplant.* 2019 Dec 10. pii: gfz251. doi: 10.1093/ndt/gfz251. [Epub ahead of print] PubMed PMID: 31821490. (co-corresponding author)
3. Huang MC, Chang CI, Chang WT, Liao YL, Chung HF, Hsu CC, Shin SJ, Lin KD. Blood biomarkers of various dietary patterns correlated with metabolic indicators in Taiwanese type 2 diabetes. *Food Nutr Res.* 2019 Nov 20;63. doi:10.29219/fnr.v63.3592. eCollection 2019. PubMed PMID: 31807124; PubMed Central PMCID: PMC6878969.
4. Hsieh TJ, Su SC, Chen CW, Kang YW, Hu MH, Hsu LL, Wu SY, Chen L, Chang HY, Chuang SY, Pan WH, Hsu CC*. Individualized home-based exercise and nutrition interventions improve frailty in older adults: a randomized controlled trial. *Int J Behav Nutr Phys Act.* 2019 Dec 2;16(1):119. doi: 10.1186/s12966-019-0855-9. PubMed PMID: 31791364. (co-corresponding author)
5. Chang JW, Liao KW, Huang CY, Huang HB, Chang WT, Jaakkola JJK, Hsu CC, Chen PC, Huang PC. Phthalate exposure increased the risk of early renal impairment in Taiwanese without type 2 diabetes mellitus. *Int J Hyg Environ Health.* 2019 Nov 26:113414. doi: 10.1016/j.ijheh.2019.10.009. [Epub ahead of print] PubMed PMID: 31784327.
6. Chang HY, Fang HL, Ting TT, Liang J, Chuang SY, Hsu CC, Wu CY, Pan WH. The Co-Occurrence Of Frailty (Accumulation Of Functional Deficits) And Depressive Symptoms, And Its Effect On Mortality In Older Adults: A Longitudinal Study. *Clin Interv Aging.* 2019 Sep 27;14:1671-1680. doi: 10.2147/CIA.S210072. eCollection 2019. PubMed PMID: 31631988; PubMed Central PMCID: PMC6775497.
7. Wang CY, Wu YL, Sheu WH, Tu ST, Hsu CC, Tai TY. Accountability and utilization of diabetes care from 2005 to 2014 in Taiwan. *J Formos Med Assoc.* 2019 Oct 4. pii: S0929-6646(19)30286-4. doi: 10.1016/j.jfma.2019.08.010. [Epub ahead of print] PubMed PMID: 31590971.
8. Lin CL, Lee TS, Hsu CC, Chen CY, Chao E, Shih SF, Hu HY. Factors associated with post-partum smoking relapse in Taiwan: A trial of Smoker's helpline. *Taiwan J Obstet Gynecol.* 2019 Sep;58(5):667-672.
9. Yen FS, Wang HC, Pan CW, Wei JC, Hsu CC*, Hwu CM. Pioglitazone Exposure Reduced the Risk of All-Cause Mortality in Insulin-Treated Patients with Type 2 Diabetes Mellitus. *J Clin Endocrinol Metab.* 2019 Sep 23. pii: dgz026. doi:10.1210/clinem/dgz026. [Epub ahead of print] PubMed PMID: 31544207. (co-corresponding author)
10. Lee IT, Hsu CC, Sheu WH, Su SL, Wu YL, Lin SY. Pay-for-performance for shared care of diabetes in Taiwan. *J Formos Med Assoc.* 2019 Aug 27. pii:S0929-6646(19)30350-X. doi: 10.1016/j.jfma.2019.08.011. [Epub ahead of print] PubMed PMID: 31471222.
11. Lin KD, Hsu CC, Ou HY, Wang CY, Chin MC, Shin SJ. Diabetes-related kidney, eye, and foot disease in Taiwan: An analysis of nationwide data from 2005 to 2014. *J Formos Med Assoc.* 2019 Aug 30. pii: S0929-6646(19)30369-9. doi:10.1016/j.jfma.2019.07.027. [Epub ahead of print] PubMed PMID: 31477486.
12. Hsu CC, Tu ST, Sheu WH. 2019 Diabetes Atlas: Achievements and challenges in diabetes care in Taiwan. *J Formos Med Assoc.* 2019 Aug 3. pii:S0929-6646(19)30441-3. doi: 10.1016/j.jfma.2019.06.018. [Epub ahead of print] PubMed PMID: 31387840.
13. Sheen YJ, Hsu CC, Jiang YD, Huang CN, Liu JS, Sheu WH. Trends in prevalence and incidence of diabetes mellitus from 2005 to 2014 in Taiwan. *J Formos Med Assoc.* 2019 Jul 9. pii: S0929-6646(19)30327-4. doi: 10.1016/j.jfma.2019.06.016. [Epub ahead of print] PubMed PMID: 31300322.
14. Chu CH, Hsu CC, Lin SY, Chuang LM, Liu JS, Tu ST. Trends in antidiabetic medical treatment from 2005 to 2014 in Taiwan. *J Formos Med Assoc.* 2019 Jun 25. pii: S0929-6646(19)30356-0. doi: 10.1016/j.jfma.2019.06.001. [Epub ahead of print]

PubMed PMID: 31248659.

15. Chen CH, Lin KD, Ke LY, Liang CJ, Kuo WC, Lee MY, Lee YL, Hsiao PJ, Hsu CC, Shin SJ. O-GlcNAcylation disrupts STRA6-retinol signals in kidneys of diabetes. *Biochim Biophys Acta Gen Subj*. 2019 Jun;1863(6):1059-1069. doi:10.1016/j.bbagen.2019.03.014. Epub 2019 Mar 21. PubMed PMID: 30905621.
16. Wu IC, Hsu CC, Chen CY, Chuang SC, Cheng CW, Hsieh WS, Wu MS, Liu YT, Liu YH, Tsai TL, Lin CC, Hsiung CA. Paradoxical Relationship Between Glycated Hemoglobin and Longitudinal Change in Physical Functioning in Older Adults: A Prospective Cohort Study. *J Gerontol A Biol Sci Med Sci*. 2019 May 16;74(6):949-956. doi:10.1093/gerona/gly147. PubMed PMID: 31095709.
17. Lee YH, Lu CW, Huang CT, Chang HH, Yang KC, Kuo CS, Chang YK, Hsu CC*, Huang KC. Impact of a home health care program for disabled patients in Taiwan: A nationwide population-based cohort study. *Medicine (Baltimore)*. 2019 Feb;98(7):e14502. doi: 10.1097/MD.00000000000014502. PubMed PMID: 30762778. (co-corresponding author)
18. Lin SY, Lin CP, Hsieh TJ, Lin CF, Chen SH, Chao YP, Chen YS, Hsu CC, Kuo LW. Multiparametric graph theoretical analysis reveals altered structural and functional network topology in Alzheimer's disease. *Neuroimage Clin*. 2019 Jan 25;22:101680. doi: 10.1016/j.nicl.2019.101680. [Epub ahead of print] PubMed PMID: 30710870; PubMed Central PMCID: PMC6357901.
19. Yeh SC, Lin YC, Hong YC, Hsu CC, Lin YC, Wu MS. Different Effects of Iron Indices on Mortality in Patients With Autosomal Dominant Polycystic Kidney Disease After Long-Term Hemodialysis: A Nationwide Population-Based Study. *J Ren Nutr*. 2019 Jan 22. pii: S1051-2276(18)30272-3. doi: 10.1053/j.jrn.2018.11.004. [Epub ahead of print] PubMed PMID: 30683605.
20. Yen FS, Chiang JH, Hwu CM, Yen YH, Lin BJ, Wei JC, Hsu CC*. All-cause mortality of insulin plus dipeptidyl peptidase-4 inhibitors in persons with type 2 diabetes. *BMC Endocr Disord*. 2019 Jan 5;19(1):3. (co-corresponding author)
21. Lee WJ, Chang YC, Almalki O, Chao SH, Lu CH, Chen CC, Huang YY, Lee YC, Hsu CC. Study design and recruitment for a prospective controlled study of diabetes: Taiwan Diabetes Study. *Asian J Surg*. 2019 Jan; 42(1): 244-250. (SCI, IF 1.895, 98/200 in SURGERY).
22. Kao CC, Liu JS, Chang YK, Lin MH, Lin YC, Chen HH, Chang WC, Hsu CC, Wu MS. Cancer and mTOR inhibitors in kidney transplantation recipients. *PeerJ*. 2018 Nov 8;6:e5864. doi: 10.7717/peerj.5864. eCollection 2018. PubMed PMID: 30473931. (SCI, IF 2.118, 19/64, MULTIDISCIPLINARY SCIENCES)
23. Chou HH, Chiou YY, Chiou YH, Tain YL, Wang HH, Yu MC, Hsu CC, Lin CY. Mortality Risks among Various Primary Renal Diseases in Children and Adolescents on Chronic Dialysis. *J Clin Med*. 2018 Nov 5;7(11). pii: E414. doi:10.3390/jcm7110414. PubMed PMID: 30400589. (SCI, IF 5.583, 15/155, MEDICINE, GENERAL & INTERNAL)
24. Wu CL, Kor CT, Chang CC, Chiu PF, Tarng DC, Hsu CC*. Association of Statin Use With Mortality After Dialysis-Requiring Acute Kidney Injury: A Population-Based Cohort Study. *Mayo Clin Proc*. 2018 Oct;93(10):1474-1483. doi: 10.1016/j.mayocp.2018.05.034. PubMed PMID: 30286832. (co-corresponding author) (SCI, IF 7.199, 11/155, MEDICINE, GENERAL & INTERNAL)
25. Wu SY, Hsu LL, Hsu CC, Hsieh TJ, Su SC, Peng YW, Guo TM, Kang YW, Pan WH. Dietary education with customised dishware and food supplements can reduce frailty and improve mental well-being in elderly people: A single-blind randomized controlled study. *Asia Pac J Clin Nutr*. 2018;27(5):1018-1030. doi: 10.6133/apjcn.032018.02. PubMed PMID: 30272850. (SCI, IF 1.335, 66/83, NUTRITION & DIETETICS)
26. Yen FS, Chen W, Wei JC, Hsu CC*, Hwu CM. Effects of metformin use on total mortality in patients with type 2 diabetes and chronic obstructive pulmonary disease: A matched-subject design. *PLoS One*. 2018 Oct 4;13(10):e0204859. (co-corresponding author) (SCI, IF 2.766, 15/64, MULTIDISCIPLINARY SCIENCES)
27. Hsu PF, Sung SH, Cheng HM, Shin SJ, Lin KD, Chong K, Yen FS, Yu BH, Huang CT, Hsu CC*. Cardiovascular benefits of acarbose versus sulfonylureas in type 2 diabetic patients treated with metformin. *J Clin Endocrinol Metab*. 2018 Oct 1;103(10):3611-3619. (corresponding author) (SCI, IF 5.789, 20/142, ENDOCRINOLOGY & METABOLISM)
28. Lu CW, Chang YK, Lee YH, Kuo CS, Chang HH, Huang CT, Hsu CC*, Huang KC. Increased Risk for Major Depressive Disorder in Severely Obese Patients after Bariatric Surgery - a 12-year Nationwide Cohort Study. *Ann Med*. 2018 Sep 7:1-8.

doi: 10.1080/07853890.2018.1511917. (co-corresponding author) (SCI, IF 3.007, 33/155, MEDICINE, GENERAL & INTERNAL)

29. Kuo KL, Hung SC, Tseng WC, Tsai MT, Liu JS, Lin MH, Hsu CC*, Tarng DC; Taiwan Society of Nephrology Renal Registry Data System. Association of Anemia and Iron Parameters With Mortality Among Patients Undergoing Prevalent Hemodialysis in Taiwan: The AIM - HD Study. *J Am Heart Assoc.* 2018 Aug 7;7(15):e009206. doi:10.1161/JAHA.118.009206. PubMed PMID: 30371224. (co-corresponding author) (SCI, IF 4.450, 36/128, CARDIAC & CARDIOVASCULAR SYSTEMS)
30. Wu CK, Lin CH, Hsu CC, Tarng DC, Kor CT, Chen YC, Wu CL, Chang CC. Association of early loss of primary functional patency of arteriovenous access with mortality in incident hemodialysis patients: A nationwide population-based observational study. *Medicine (Baltimore).* 2018 Aug;97(31):e11630. (SCI, IF 2.028, 56/155, MEDICINE, GENERAL & INTERNAL)
31. Hsieh TJ, Chang HY, Wu IC, Chen CC, Tsai HJ, Chiu YF, Chuang SC, Hsiung CA, Hsu CC*. Independent association between subjective cognitive decline and frailty in the elderly. *PLoS One.* 2018 Aug 2;13(8):e0201351. (corresponding author) (SCI, IF 2.766, 15/64 in MULTIDISCIPLINARY SCIENCES).
32. Huang MC, Lin KD, Chen HJ, Wu YJ, Chang CI, Shin SJ, Hung HC, Lee CH, Huang YF, Hsu CC*. Validity of a Short Food Frequency Questionnaire Assessing Macronutrient and Fiber Intakes in Patients of Han Chinese Descent with Type 2 Diabetes. *Int J Environ Res Public Health.* 2018 Jun 1;15(6). pii: E1142. (corresponding author) (SCI, IF 2.145, 73/180 in PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH).
33. Lin MY, Cheng LJ, Chiu YW, Hsieh HM, Wu PH, Lin YT, Wang SL, Jian FX, Hsu CC, Yang SA, Lee HL, Hwang SJ. Effect of national pre-ESRD care program on expenditures and mortality in incident dialysis patients: A population-based study. *PLoS One.* 2018 Jun 1;13(6):e0198387. (SCI, IF 2.766, 15/64 in MULTIDISCIPLINARY SCIENCES).
34. Chen CM, Chen HJ, Chen WS, Lin CC, Hsu CC, Hsu YH. Clinical effectiveness of influenza vaccination in patients with rheumatoid arthritis. *Int J Rheum Dis.* 2018 Jun;21(6):1246-1253. (SCI, IF 2.423, 20/31 in RHEUMATOLOGY).
35. Chin WS, Chang YK, Huang LF, Tsui HC, Hsu CC*, Guo YL. Effects of long-term exposure to CO and PM (2.5) on microalbuminuria in type 2 diabetes. *Int J Hyg Environ Health.* 2018 Apr 23; 221(4): 602-608. (co-corresponding author) (SCI, IF 4.848, 11/180 in PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH).
36. Wu CL, Chang CC, Kor CT, Yang TH, Chiu PF, Tarng DC, Hsu CC*. Hydroxychloroquine Use and Risk of CKD in Patients with Rheumatoid Arthritis. *Clin J Am Soc Nephrol.* 2018 May 7;13(5):702-709. (co-corresponding author) (SCI, IF 5.835, 7/76 in UROLOGY & NEPHROLOGY).
37. Yen FS, Chiang JH, Pan CW, Lin BJ, Wei JC, Hsu CC*. Cardiovascular outcomes of dipeptidyl peptidase-4 inhibitors in patients with type 2 diabetes on insulin therapy. *Diabetes Res Clin Pract.* 2018 Apr 12;140:279-287. (co-corresponding author) (SCI, IF 2.548, 91/143 in ENDOCRINOLOGY & METABOLISM).
38. Hsu CC, Wahlqvist ML, Wu IC, Chang YH, Chang IS, Tsai YF, Liu TT, Tsao CK, Hsiung CA. Cardiometabolic disorder reduces survival prospects more than suboptimal body mass index irrespective of age or gender: a longitudinal study of 377,929 adults in Taiwan. *BMC Public Health.* 2018 Feb 14;18(1):142. (SCI, IF 2.420, 63/180 in PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH).
39. Wu CC, Hwang SJ, Hsu CC, Lu KC; Taiwan Society of Nephrology. Challenges of measuring the Healthcare Access and Quality Index. *Lancet.* 2018 Feb 3;391(10119):428-429. (SCI, IF 53.254, 2/154 in MEDICINE, GENERAL & INTERNAL).
40. Chung HF, Hsu CC, Mamun AA, Long KZ, Huang YF, Shin SJ, Hwang SJ, Huang MC. Dietary patterns, dietary biomarkers, and kidney disease in patients with type 2 diabetes: a repeated-measure study in Taiwan. *Asia Pac J Clin Nutr.* 2018;27(2):366-374. (SCI, IF 1.335, 65/81 in NUTRITION & DIETETICS).
41. Hsu CC, Hsu PF, Sung SH, Tu ST, Yu BH, Huang CJ, Cheng HM. Is There a Preferred Stroke Prevention Strategy for Diabetic Patients with Non-Valvular Atrial Fibrillation? Comparing Warfarin, Dabigatran and Rivaroxaban. *Thromb Haemost.* 2018 Jan;118(1):72-81. (SCI, IF 4.952, 6/65 in PERIPHERAL VASCULAR DISEASE).
42. Lee MC, Hsu CC, Tsai YF, Chen CY, Lin CC, Wang CY. Criterion-Referenced Values of Grip Strength and Usual Gait Speed Using Instrumental Activities of Daily Living Disability as the Criterion. *J Geriatr Phys Ther.* 2018 Jan/Mar;41(1):14-19. (SCI, IF 2.096, 37/53 in GERIATRICS & GERONTOLOGY).

