

Shu-Yuan Chen 's CURRICULUM VITAE :

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Education: (教育)

1992- 1998	Ph.D., Epidemiology	National Taiwan University, Taipei, Taiwan, (國立臺灣大學)
1989- 1991	M.S., Public Health	National Taiwan University, Taipei, Taiwan, (國立臺灣大學)
1985- 1989	B.S., Public Health	National Taiwan University, Taipei, Taiwan, (國立臺灣大學)

Teaching Experience and Research: (教學經歷和研究)

2004-present	Associate Professor (副教授) Department of Public Health (公共衛生學系) Graduate Institute of Medicine (醫學院) Tzu Chi University, Hualien, Taiwan (慈濟大學, 台灣)
2001-2004	Assistant Investigator (助研究員) Division of Biostatistics and Bioinformatics (生物統計暨生物資訊組)

National Health Research Institute, Taipei, Taiwan
(國家衛生研究院, 台北, 台灣)

1998-2001 Postdoctoral Research Scientist (博士後研究科學者)
Department of Environmental Health Sciences, (環境衛生科學研究所)
Mailman School of Public Health, Columbia University, New York, USA
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Research Interests:

- Population-based studies (族群為基礎的研究)
- Long term care studies (長期照護研究)
- Aging studies (老化研究)
- Environmental exposure and health (環境暴露和健康)
- Physical activity and health (運動和健康)

Publications:

1. Lin, Y.L., Liou, H.H., Wang, C.H., Lai, Y.H., Kuo, C.H., **Chen, S.Y.***, Hsu, B.G.** Impact of sarcopenia and its diagnostic criteria on hospitalization and mortality in chronic hemodialysis patients: A 3-year longitudinal study. *J Formos Med Assoc* 119: 1219-29, 2020.
2. Lin, Y.L., **Chen, S.Y.**, Lai, Y.H., Wang, C.H., Kuo, C.H., Liou, H.H.** , Hsu, B.G.* Serum creatinine to cystatin C ratio predicts skeletal muscle mass and strength in patients with non-dialysis chronic kidney disease. *Clin Nutr* 39: 2435 – 41, 2020.
3. Lin, Y.L., **Chen, S.Y.**, Lai, Y.H., Wang, C.H., Kuo, C.H., Liou, H.H.* , Hsu, B.G.* Angiotensin II receptor blockade is associated with preserved muscle strength in chronic hemodialysis patients. *BMC Nephrol* 20(1):54-60, 2019.
4. Lin, Y.L., Liou, H.H., Lai, Y.H., Wang, C.H., Kuo, C.H., **Chen, S.Y.***, Hsu, B.G.**. Decreased serum fatty acid binding protein 4 concentrations are associated with sarcopenia in chronic hemodialysis patients. *Clin Chim Acta.* 485:113 – 8, 2018.
5. Cheng, K.Y., **Chen, S.Y.**, Lin, C.Y. Mortality among patients with schizophrenia and vocational rehabilitation program services under Taiwan's psychiatric care reform. *Int J Ment Health Syst.* 10:32, 2016.
6. Cheng, K.Y., Lin, C.Y., Chang, T.K., Lin, C.C.H., Lu, T.H., **Chen, S.Y.*** Mortality among long-stay patients with schizophrenia during the setting-up of community facilities under the Yuli model. *Health Psychol Behav Med.* 2(1): 602 – 12, 2014.
7. Hsu, W.L., Chien, Y.C., Chiang, C.J., Yang, H.I., Lou, P.J., Wang, C.P., Yu, K.J., You, S.L., Wang, L.Y., **Chen, S.Y.**, Yang, C.S., Chen, C.J. Lifetime risk of distinct upper aerodigestive tract cancers and consumption of alcohol, betel and cigarette. *Int J Cancer.* 135(6):1480-6, 2014.
8. Lee, M.H., Yang, H.I., Lu, S.N., Jen, C.L., You, S.L., Wang, L.Y., L'Italien, G., Chen, C.J., Yuan, Y.; **REVEAL-HCV Study Group**. Hepatitis C virus genotype 1b increases cumulative lifetime risk of hepatocellular carcinoma. *Int J Cancer.* 135(5):1119-26, 2014.

9. Liu, J., Yang, H.I., Lee, M.H., Lu, S.N., Jen, C.L., Batrla-Utermann, R., Wang, L.Y., You, S.L., Hsiao, C.K., Chen, P.J., Chen, C.J.; **R.E.V.E.A.L.-HBV Study Group**. Spontaneous seroclearance of hepatitis B seromarkers and subsequent risk of hepatocellular carcinoma. *Gut*. 63(10):1648-57, 2014.
10. Lee, M.H., Yang, H.I., Liu, J., Batrla-Utermann, R., Jen, C.L., Iloeje, U.H., Lu, S.N., You, S.L., Wang, L.Y., Chen, C.J.; **R.E.V.E.A.L.-HBV Study Group**. Prediction models of long-term cirrhosis and hepatocellular carcinoma risk in chronic hepatitis B patients: risk scores integrating host and virus profiles. *Hepatology*. 58(2):546-54, 2013.
11. Chung, C.J., Huang, Y.L., Huang, Y.K., Wu, M.M., **Chen, S.Y.**, Hsueh, Y.M., Chen, C.J. Urinary arsenic profiles and the risks of cancer mortality: a population-based 20-year follow-up study in arseniasis-endemic areas in Taiwan. *Environ Res*. 122:25-30, 2013.
12. Chiang, C.H., Yang, H.I., Jen, C.L., Lu, S.N., Wang, L.Y., You, S.L., Su, J., Iloeje, U.H., Chen, C.J.; **REVEAL-HBV Study Group**. Association between obesity, hypertriglyceridemia and low hepatitis B viral load. *Int J Obes (Lond)*. 37(3):410-5, 2013.
13. Yang, H.I., Hung, H.L., Lee, M.H., Liu, J., Jen, C.L., Su, J., Wang, L.Y., Lu, S.N., You, S.L., Iloeje, U.H., Chen, C.J.; Risk Evaluation of Viral Load Elevation and Associated Liver Disease/Cancer–HBV (**REVEAL-HBV**) **Study Group**. Incidence and determinants of spontaneous seroclearance of hepatitis B e antigen and DNA in patients with chronic hepatitis B. *Clin Gastroenterol Hepatol*. 10(5):527-34.e1-2, 2012.
14. Lee, M.H., Yang, H.I., Jen, C.L., Lu, S.N., Yeh, S.H., Liu, C.J., You, S.L., Sun, C.A., Wang, L.Y., Chen, W.J., Chen, C.J.; **R.E.V.E.A.L.-HCV Study Group**. Community and personal risk factors for hepatitis C virus infection: a survey of 23,820 residents in Taiwan in 1991-2. *Gut*. 60(5):688-94, 2011.
15. **Chen, S.Y.**: Stomach cancer. In: Chen, C.J: Cancers in Taiwan, epidemiological characteristics and prevention strategies. Taipei: Shan Young Tau Cancer Prevention Foundation Press; 2010

16. Liu, J., Yang, H.I., Lee, M.H., Lu, S.N., Jen, C.L., Wang, L.Y., You, S.L., Iloeje, U.H., Chen, C.J.; **REVEAL-HBV Study Group**. Incidence and determinants of spontaneous hepatitis B surface antigen seroclearance: a community-based follow-up study. *Gastroenterology*. 139(2):474-82, 2010.
17. Chen, J.D., Yang, H.I., Iloeje, U.H., You, S.L., Lu, S.N., Wang, L.Y., Su, J., Sun, C.A., Liaw, Y.F., Chen, C.J.; Risk Evaluation of Viral Load Elevation and Associated Liver Disease/Cancer in HBV **(REVEAL-HBV) Study Group**. Carriers of inactive hepatitis B virus are still at risk for hepatocellular carcinoma and liver-related death. *Gastroenterology*. 138(5):1747-54, 2010.
18. Chen, C.J., Yang, H. I., Iloeje, U.H.; **REVEAL-HBV Study Group**. Hepatitis B virus DNA levels and outcomes in chronic hepatitis B. *Hepatology*. 49(5 Suppl):S72-84, 2009.
19. Wu, H.C., Wang, Q., Yang, H.I., Ahsan, H., Tsai, W.Y., Wang, L.Y., **Chen, S.Y.**, Chen, C.J., Santella, R.M. Aflatoxin B1 exposure, hepatitis B virus infection, and hepatocellular carcinoma in Taiwan. *Cancer Epidemiol Biomarkers Prev*. 18(3):846-53, 2009.
20. Huang, Y. K., Huang, Y. L., Hsueh, Y. M., Yang, M. H., Wu, M. M., **Chen, S. Y.**, Hsu, L. I., and Chen, C. J. Arsenic exposure, urinary arsenic speciation, and the incidence of urothelial carcinoma: a twelve-year follow-up study. *Cancer Causes Control* 19: 829-39, 2008.
21. Wu, H. C., Wang, Q., Yang, H. I., Ahsan, H., Tsai, W. Y., Wang, L. Y., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Urinary 15-F_{2t}-isoprostane, aflatoxin B₁ exposure and hepatitis B virus infection and hepatocellular carcinoma in Taiwan. *Carcinogenesis* 29(5): 971-6, 2008.
22. Wu, H. C., Wang, Q., Wang, L. W., Yang, H. I., Ahsan, H., Tsai, W. Y., Wang, L. Y., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Urinary 8-oxodeoxyguanosine, aflatoxin B1 exposure and hepatitis B virus infection and hepatocellular carcinoma in Taiwan. *Carcinogenesis* 28(5): 995-9, 2007.
23. Wu, H. C., Wang, Q., Wang, L. W., Yang, H. I., Ahsan, H., Tsai, W. Y., Wang, L. Y., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Polycyclic aromatic hydrocarbon- and aflatoxin-albumin adducts, hepatitis B virus infection and hepatocellular

- carcinoma in Taiwan. *Cancer Lett.* 252: 104-14, 2007.
24. Zhang, Y. J., Wu, H. C., Shen, J., Ahsan, H., Tsai, W. Y., Yang, H. I., Wang, L. Y., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Predicting hepatocellular carcinoma by detection of aberrant promoter methylation in serum DNA. *Clin. Cancer Res.* 13(8): 2378-2384, 2007.
25. Chen, C. J., Wang, S. L., Chiou, J. M., Tseng, C. H., Chiou, H. Y., Hsueh, Y. M., **Chen, S. Y.**, Wu, M. M., and Lai, M. S. Arsenic and diabetes and hypertension in human population: A review. *Toxicol. Appl. Pharmacol.* 222: 298-304, 2007.
26. Wang, C. H., Hsiao, C. K., Chen, C. L., Hsu, L. I., Chiou, H. Y., **Chen, S. Y.**, Hsueh, Y. M., Wu, M. M., and Chen, C. J. A review of the epidemiologic literature on the role of environmental arsenic exposure and cardiovascular diseases. *Toxicol. Appl. Pharmacol.* 222: 315-26, 2007.
27. Chen, C. J., Hsu, L. I., Wang, C. H., Shih, W. L., Hsu, Y. H., Tseng, M. P., Lin, Y. C., Chou, W. L., Chen, C. Y., Lee, C. Y., Wang, L. H., Cheng, Y. C., Chen, C. L., **Chen, S. Y.**, Wang, Y. H., Hsueh, Y. M., Chiou, H. Y., and Wu, M. M. Biomarkers of exposure, effect, and susceptibility of arsenic-induced health hazards in Taiwan. *Toxicol. Appl. Pharmacol.* 206: 198-206, 2005.
28. Zhang, Y. J., Chen, Y., Ahsan, H., Lunn, R. M., **Chen, S. Y.**, Lee, P. H., Chen, C. J., and Santella, R. M. Silencing of glutathione S-transferase P1 by promoter hypermethylation and its relationship to environmental chemical carcinogens in hepatocellular carcinoma. *Cancer Lett.* 221: 135-43, 2005.
29. Chen, C. L., Hsu, L. I., Chiou, H. Y., Hsueh, Y. M., **Chen, S. Y.**, Wu, M. M., and Chen, C. J. Ingested arsenic, cigarette smoking, and lung cancer risk: a follow-up study in arseniasis-endemic areas in Taiwan. *JAMA* 292: 2984-90, 2004.
30. **Chen, S. Y.**, Liu, T. Y., Shun, C. T., Wu, M. S., Lu, T. H., Lin, J. T., Sheu, J. C., Santella, R. M., and Chen, C. J. Modification effects of *GSTM1*, *GSTT1*, and *CYP2E1* polymorphisms on associations between raw salted food and incomplete intestinal metaplasia in a high-risk area of stomach cancer. *Int. J. Cancer* 108:606-12, 2004.
31. Faraglia, B., **Chen, S. Y.**, Gammon, M. D., Zhang, Y. J., Teitelbaum, S. L., Neugut,

- A. I., Ahsan, H., Garbowski, G. C., Hibshoosh, H., Lin, D., Kadlubar, F. F., and Santella, R. M. Evaluation of 4-aminobiphenyl-DNA adducts in human breast cancer: the influence of tobacco smoke. *Carcinogenesis* 24(4): 719-25, 2003.
32. Liao, K. M., **Chen, S. Y.**, and Chen, C. J. Epidemiology of lung cancer: global and local characteristics. [Lecture Article in Annual Meeting] *J. Internal Med. Taiwan* 2002
33. Zhang, Y. J., Ahsan, H., Chen, Y., Lunn, R. M., Wang, L. Y., **Chen, S. Y.**, Lee, P. H., Chen, C. J., and Santella, R. M. High frequency of promoter hypermethylation of RASSF1A and p16 and its relationship to aflatoxin B1-DNA adduct levels in human hepatocellular carcinoma. *Mol. Carcinogenesis* 35(2): 85-92, 2002.
34. **Chen, S. Y.**, Wang, L. Y., Lunn, R. M., Tsai, W. Y., Lee, P. H., Lee, C. S., Ahsan, H., Zhang, Y. J., Chen, C. J., and Santella, R. M. Polycyclic aromatic hydrocarbon-DNA adducts in liver tissues of hepatocellular carcinoma patients and controls. *Int. J. Cancer* 99(1): 14-21, 2002.
35. Zhang, Y. J., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Polymorphisms in cyclin D1 gene and hepatocellular carcinoma. *Mol. Carcinogenesis* 33(2): 125-129, 2002.
36. Zhang, Y. J., **Chen, S. Y.**, Hsu, T. M., and Santella, R. M. Immunohistochemical detection of malondialdehyde-DNA adducts in human oral mucosa cells. *Carcinogenesis* 23(1): 207-211, 2002.
37. **Chen, S. Y.**, Chen, C. J., Chou, S. R., Hsieh, L. L., Wang, L. Y., Tsai, W. Y., Ahsan, H., and Santella, R. M. Association of aflatoxin B₁-albumin adduct levels with hepatitis B surface antigen status among adolescents in Taiwan. *Cancer Epidemiol. Biomarkers & Prevent.* 10: 1223-1226, 2001.
38. **Chen, S. Y.**, Chen, C. J., Tsai, W. Y., Ahsan, H., Liu, T. Y., Lin, J. T., and Santella, R. M. Associations of plasma aflatoxin B₁-albumin adduct level with plasma selenium level and genetic polymorphisms of glutathione S-transferase *M1* and *T1*. *Nutr Cancer* 38 (2): 179-185, 2001.
39. Zhang, Y. J., **Chen, S. Y.**, Tsai, W. Y., Ahsan, H., Chen, C. J., and Santella, R. M. Expression of cytochrome P450 1A1/2 and 3A4 in liver tissues of hepatocellular

- carcinoma cases and control from Taiwan and their relationship to hepatitis B virus and Aflatoxin B₁- and 4-aminobiphenyl-DNA adducts. *Biomarkers* 5: 295-306, 2000.
40. **Chen, S. Y.**, Lin, J. T., and Chen, C. J. Epidemiologic characteristics and risk factors of gastric cancer. *Chinese J. Public Health (ROC)* 17:275-292, 1998.
 41. **Chen, S. Y.**, Liu, T. Y., Chen, M. J., Lin, J. T., Sheu, J. C., and Chen, C. J. Seroprevalence of hepatitis B and C viruses and *Helicobacter pylori* infection in a small, isolated population at high risk of gastric cancer and liver cancer. *Int. J. Cancer* 71: 776-779, 1997.
 42. Wu, M. S., **Chen, S. Y.**, Shun, C. T., Lee, W. J., Wang, H. P., Wang, T. H., Chen, C. J., and Lin, J. T. Increased prevalence of *Helicobacter pylori* infection among patients affected with intestinal-type gastric cancer at non-cardiac locations. *J. Gastroenterol. Hepatol.* 12: 425-428, 1997.
 43. Shun, C. T., Wu, M. S., Lin, J. T., **Chen, S. Y.**, Wang, H. P., Lee, W. J., Wang, T. H., and Chuang, S. M. Relationship of p53 and c-erbB-2 expression to histopathological features, *Helicobacter pylori* infection and prognosis in gastric cancer. *Hepato-Gastroenterol.* 44: 604-609, 1997.
 44. Liou, H. H., Tai, M. C., Chen, C. J., Jeng, J. S., Chang, Y. C., **Chen, S. Y.**, and Chen, R. C. Environmental risk factors and Parkinson's disease: a case-control study in Taiwan. *Neurology* 48: 1583-1588, 1997.
 45. Chen, C. J., Hsueh, Y. M., Lai, M. S., Shyn, M. P., **Chen, S. Y.**, Wu, M. M., Kuo, T. L., and Tai, T. Y. Increased prevalence of hypertension and long-term arsenic exposure. *Hypertension* 25: 53-60, 1995.
 46. Lai, M. S., Hsueh, Y. M., Chen, C. J., Shyu, M. P., **Chen, S. Y.**, Wu, M. M., Kuo, T. L., and Tai, T. Y. Ingested inorganic arsenic and prevalence of diabetes melitus. *Am. J. Epidemiol.* 139: 484-492, 1994.
 47. **Chen, S. Y.**, Yu, H. S., Cheng, G. S., Kuo, T. L., and Chen, C. J. Early arsenic exposure and cancer – a community-based case-control study in an endemic area of blackfoot disease. *J. Natl. Public Health Assoc. (ROC)* 12:1-9, 1993.

Abstracts

1. Cheng, K.Y., Lu, T.H., **Chen, S.Y.**, Lin, C.Y. (2013). Hospital-treat physical illness and avoidable mortality in the long-stay patients with schizophrenia under the different smoking-allowed settings: an 11-year retrospective follow-up study. *Taiwan Psychiatry Association, Annular Congress* (p.) .
2. Cheng, K.Y., **Chen, S.Y.**, Lin, C.Y. (2011). Mortality among Long-Stay Schizophrenic Patients in the Establishment of Community Facilities in Yuli Model. *World Psychiatry Association, Asian Regional Congress* (p.)
3. Cheng, K.Y., **Chen, S.Y.**, Lin, C.Y. (2011). The mortality of long-stay schizophrenic patients during the development of vocational rehabilitation in Yuli model. *International Federation Psychiatric Epidemiology XIII* (p.)
4. 陳介文, 王耀進, 葉人鳳, 邱子齊, **陳淑媛**. 全國空氣品質與心臟疾病之生態相關研究. 台灣公共衛生年會, 2011. (海報摘要)
5. 葉人鳳, 王耀進, 陳介文, 邱子齊, **陳淑媛**. 全國空氣品質與肺癌之生態相關研究. 台灣公共衛生年會, 2011. . (海報摘要)
6. **Chen, S.Y.**, Chen, C.W., Wang, Y. C., Yeh, J. F., and Chiu, T. C. Associations between female lung cancer mortality and NO, NO_x, and NO₂ in Kaohsiung, Taiwan. *Proc. Int. Society Environ. Epi.* 2011 (abstract)
7. Wu, H. C., Wang, Q., Wang, L. W., Yang, H. I., Wang, L. Y., **Chen, S. Y.**, Ahsan, H., Tsai, W. Y., Chen, C. J., and Santella, R. M. Baseline levels of urinary 8-oxodeoxyguanosine and hepatocellular carcinoma risk. *Proc. Am. Assoc. Cancer Res.*, 23:921, 2006 (abstract).
8. Wu, H. C., Wang, Q., Wang, L. W., Yang, H. I., Ahsan, H., Tsai, W. Y., Wang, L. Y., **Chen, S. Y.**, Chen, C. J., and Santella, R. M. Baseline levels of urinary 15-F_{2t}-isoprostane, and chronic hepatitis B virus infection in relation to risk of hepatocellular carcinoma in Taiwan. *Proc. Am. Assoc. Cancer Res.*, 2: 1737, 2007 (abstract).

9. **Chen, S. Y.**, Yang, C. S., Lin, J. T., Yang, H. I., and Chen, C. J. Socioeconomic factors, cigarette smoking, EBV and stomach cancer risk. Proc. Am. Assoc. Cancer Res., 45:473, 2004 (abstract).
10. Zhang, Y. J., Chen, Y., Ahsan, H., Lunn, R. M., **Chen, S. Y.**, Lee, P. H., Chen, CJ, Santella, R. M. Silencing of glutathione S-transferase P1 by promoter hypermethylation and its relationship to environmental chemical carcinogens in hepatocellular carcinoma. Proc. Am. Assoc. Cancer Res., 45:41, 2004 (abstract).
11. **Chen, S. Y.**, Yang, C. S., Lin, J. T., and Chen, C. J. Risk factors of stomach cancer in Taiwan from a cohort study. Proc. Am. Assoc. Cancer Res., 43:2838, 2002 (abstract).
12. **Chen, S. Y.**, Chen, C. J., Zhang, Y. J., Tsai, W. Y., Ahsan, H., Lee, P. H., Lee, C. S., and Santella, R. M. PAH-DNA adducts in liver tissues of HCC cases and controls. Proc. Am. Assoc. Cancer Res., 42: 3569, 2001 (abstract).
13. **Chen, S. Y.**, Chen, C. J., Tsai, W. Y., Ahsan, H., Liu, T. Y., Lin, J. T., and Santella, R. M. Aflatoxin B₁-albumin adducts, hepatitis B surface antigen, selenium, and micronutrients in Matzu, Taiwan, an area of high hepatocellular carcinoma mortality. Proc. Am. Assoc. Cancer Res., 41:159, 2000 (abstract).
14. **Chen, S. Y.**, Liu, T. Y., Lin, J. T., and Chen, C. J. Risk factors of intestinal metaplasia in Matzu, Taiwan, isolated islets with high stomach cancer mortality. Proc. Am. Assoc. Cancer Res., 40:1608, 1999 (abstract).