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### **Education**

- PhD, Institute of Occupational and Environmental Medicine, National Cheng Kung University, Tainan, Taiwan, 2009.
- MS, Institute of Occupational and Environmental Medicine, National Cheng Kung University, Tainan, Taiwan, 2001.
- MD, National Taiwan University, Taipei, Taiwan, 1989.

### **Area of Specialty**

Travel Medicine, Health management, Toxicology, Biotechnology, Biomedical engineering

### **Academic Experience/Work Experience**

- Professor, Department of Leisure, Recreation, and Tourism Management, Southern Taiwan University of Science and Technology, Tainan, Taiwan, 2013 to present.
- Associate Professor, Department of Biotechnology, Southern Taiwan University, Tainan, Taiwan, 2009 to 2012.
- Assistant Professor, Department of Occupational Safety & Health, Chang Jung Christian University, 2005 to 2007.
- Lecturer, Department of Occupational Safety & Health, Chia Nan University of Pharmacy and Science, Tainan, Taiwan, 2001.

### **Publications**

#### **Journal Papers**

1. Wu, K. T., Kuo, P. L., **Su, S. B.**, Chen, Y. Y., Yeh, M. L., Huang, C. I., Yang, J. F., Lin, C. I., Hsieh, M. H., Hsieh, M. Y., Huang, C. F., Lin, W. Y., Yu, M. L., Dai, C. Y., & Wang, H. Y. (2016). Nonalcoholic fatty liver disease severity is associated with the ratios of total cholesterol and triglycerides to high-density lipoprotein cholesterol,

- J Clin Lipidol*, 10(2), 420-425.e1. PMID: 27055973.
2. Chang, Y. S., Weng, S. F., Chang, C., Wang, J. J., **Su, S. B.**, Huang, C. C., Wang, J. Y., & Jan, R. L. (2016). Risk of Nonarteritic Anterior Ischemic Optic Neuropathy Following End-Stage Renal Disease, *Medicine (Baltimore)*, 95(12), 3174. PMID: 27015205.
  3. Kao, Y., Hsu, C. C., Weng, S. F., Lin, H. J., Wang, J. J., **Su, S. B.**, Huang, C. C., & Guo, H. R. (2015). Subsequent mortality after hyperglycemic crisis episode in the non-elderly: a national population-based cohort study, *Endocrine*, 51(1), 72-82. PMID: 26115971.
  4. Lee, Y. S., Hsu, C. C., Weng, S. F., Lin, H. J., Wang, J. J., **Su, S. B.**, Huang, C. C., & Guo, H. R. (2015). Cancer Incidence in Physicians: A Taiwan National Population-based Cohort Study, *Medicine (Baltimore)*, 94(47), e2079. PMID: 26632715.
  5. Kuo, W. Y., Huang, C. C., Weng, S. F., Lin, H. J., **Su, S. B.**, Wang, J. J., Guo, H. R., & Hsu, C. C. (2015). Higher migraine risk in healthcare professionals than in general population: a nationwide population-based cohort study in Taiwan, *J Headache Pain*, 16:102. PMID: 26631235.
  6. Wu, C. J., Lin, H. J., Weng, S. F., Hsu, C. C., Wang, J. J., **Su, S. B.**, Huang, C. C., & Guo, H. R. (2015). Acute Myocardial Infarction: A Comparison of the Risk between Physicians and the General Population, *BioMed Research International*, ID: 904328.
  7. Lin, H. Y., Weng, S. F., Lin, H. J., Hsu, C. C., Wang, J. J., **Su, S. B.**, Guo, H. R., & Huang, C. C. (2015). Peptic Ulcer Disease in Healthcare Workers: A Nationwide Population-Based Cohort Study, *PLoS One*, 10(8), e0135456. PMID: 26301861.
  8. **Su, S. B.**, Hashim, J. H., & Yan, C.H. (2015). Applications of Environmental Epidemiology in Addressing Public Health Challenges in East Asia, *Biomed Res Int.*, 462426. PMID:26295038.
  9. Huang, H. S., Hsu, C. C., Weng, S. F., Lin, H. J., Wang, J. J., **Su, S. B.**, Huang, C. C., & Guo, H. R. (2015). Acute Anticholinesterase Pesticide Poisoning Caused a Long-Term Mortality Increase: A Nationwide Population-Based Cohort Study, *Medicine (Baltimore)*, 94(30), e1222. PMID: 26222853.
  10. Guo, H.R., Hashim, Z., & **Su, S. B.** (2015). Bundschuh J. Environmental Toxicology in Addressing Public Health Challenges in East Asia, *Biomed Res Int.*, 920518. PMID: 26064966.
  11. Chen, Y. T., Huang, C. C., Weng, S. F., Hsu, C. C., Wang, J. J., Lin, H. J., **Su, S. B.**, Guo, H. R., & Juan, C. W. (2015). Acute Myocardial Infarction Risk in Patients with Coronary Artery Disease Doubled after Upper Gastrointestinal Tract Bleeding: A Nationwide Nested Case-Control Study, *PLOS*, e0142000.
  12. Zou, J. F., Guo, Q., Shao, H., Li, B., Du, Y., Liu, M., Liu, F., Dai, L., Lin, H. J., **Su, S. B.**, Guo, H. R., & Huang, C. C. (2015). Lack of pupil reflex and loss of consciousness

- predict 30-day neurological sequelae in patients with carbon monoxide poisoning, *PLoS One*, 10(3), e0119126. PMID: 25738593.
13. Lin, C. Y., Lee, C. H., Huang, C. C., Lee, S. T., Guo, H. R., & **Su, S. B.** (2015). Impact of High Glucose on Metastasis of Colon Cancer Cells, *World J Gastroenterol*, 21(7), 2047-57. PMID: 25717237.
  14. Huang, C. C., Weng, S. F., Tsai, K. T., Chen, P. J., Lin, H. J., Wang, J. J., **Su, S. B.**, Chou, W., Guo, H. R., & Hsu, C.C. (2015). Long-term Mortality Risk After Hyperglycemic Crisis Episodes in Geriatric Patients With Diabetes: A National Population-Based Cohort Study, *Diabetes Care*, 38(5), 746-51. PMID:25665811.
  15. Huang, C. C., Chung, M. H., Lin, H. J., Lin, S. J., Guo, H. R., Wang, H. Y., **Su, S. B.**, & Hsu, C. C. (2015). The Impact of Rotating Night Shifts on the Breast Milk Collection Volume among Employed Breastfeeding Mothers, *J Occup Health*, 57(1), 81-6. PMID: 25410265.
  16. Chung, M. H., Chu, F. Y., Yang, T. M., Lin, H. J., Chen, J. H., Guo, H. R., Vong, S. C., **Su, S. B.**, Huang, C. C., & Hsu, C. C. (2014). Hypotension, Bedridden, Leukocytosis, Thrombocytopenia and Elevated Serum Creatinine Predict Mortality in Geriatric Patients with Fever, *Geriatr Gerontol Int.*, 15(7), 834-9. PMID:25302851.
  17. Chou, W., Chung, M. H., Wang, H. Y., Chen, J. H., Chen, W. L., Guo, H. R., Lin, H. J., **Su, S. B.**, Huang, C. C., & Hsu, C. C. (2014). Clinical Characteristics of Hyperglycemic Crises in Patients without a History of Diabetes, *J Diabetes Investig*, 5(6), 657-62. PMID: 25422765.
  18. Chung, M. H., Huang, C. C., Vong, S. C., Yang, T. M., Chen, K. T., Lin, H. J., Chen, J. H., **Su, S. B.**, Guo, H. R., & Hsu, C. C. (2014). Geriatric Fever Score: a New Decision Rule for Geriatric Care, *PLoS One*, 9(10), e110927. PMID: 25340811.
  19. Foo, N. P., Chang, J. H., **Su, S. B.**, Chen, K. T., Cheng, C. F., Chen, P. C., Lin, T. Y., & Guo, H. R. (2014). A Stabilization Device that Promotes the Efficiency of Cardiopulmonary Resuscitation During Ambulance Transportation to the Level as Under Non-moving Conditions, *PLoS One*, 9(10), e107960. PMID: 25329643.
  20. Lee, Y. H., **Su, S. B.**, Huang, C. C., Sheu, H. M., Tsai, J. C., Lin, C. H., Wang, Y. J., & Wang, B. J. (2014). N-acetylcysteine Attenuates Hexavalent Chromium-induced Hypersensitivity through Inhibition of Cell Death, ROS-related Signaling and Cytokine Expression, *PLoS One*, 9(9), e108317. PMID: 25248126.
  21. Huang, C. C., Chung, M. H., Weng, S. F., Chien, C. C., Lin, S. J., Lin, H. J., Guo, H. R., **Su, S. B.**, Hsu, C. C., & Juan, C. W. (2014). Long-term Prognosis of Patients with Carbon Monoxide Poisoning: A Nationwide Cohort Study, *PLoS One*, 9(8), e105503. PMID: 25167083.
  22. Yang, T. M., Kao, Y., Wang, C. T., Chung, M. H., Lin, H. J., Lin, S. J., Guo, H. R., **Su, S. B.**, Huang, C. C., & Hsu, C. C. (2014). ACLS Training: Comparison of Physicians and Nurses with Teamwork-based High-fidelity Simulation, *Am J Emerg*

- Med*, 32(9), 1132-4. PMID: 24974370.
23. **Su, S. B.** & Poon, T. C. (2013). Thongboonkerd V. Human body fluid, *Biomed Res Int*, 918793. PMID:24083249.
  24. Huang, C. C., Chien, T. W., **Su, S. B.**, Guo, H. R., Chen, W. L., Chen, J. H., Chang, S. H., Lin, H. J., & Wang, Y. F. (2013). Infection, Absent Tachycardia, Cancer History, and Severe Coma are Independent Mortality Predictors in Geriatric Patients with Hyperglycemic Crises, *Diabetes Care*, 36(9), e151-2. PMID:23970727.
  25. Foo, N. P., Chang, J. H., **Su, S. B.**, Lin, H. J., Chen, K. T., Cheng, C. F., Lin, T. Y., Chen, P. C., & Guo, H. R. (2013). A Stabilization Device to Improve the Quality of Cardiopulmonary Resuscitation during Ambulance Transportation: a Randomized Crossover Trial, *Resuscitation*, 84(11), 1579-84. PMID: 23816898.
  26. Yang, M. H., Wang, H. Y., Lu, C. Y., Tsai, W. C., Lin, P. C., **Su, S. B.**, & Tyan, Y. C. (2013). Proteomic Profiling for Peritoneal Dialysate: Differential Protein Expression in Diabetes Mellitus, *Biomed Res Int.*, 642964. PMID: 23781506.
  27. Huang, C. C., Kuo, S. C., Chien, T. W., Lin, H. J., Guo, H. R., Chen, W. L., Chen, J. H., Chang, S. H., & **Su, S. B.** (2013). Predicting the Hyperglycemic Crisis Death (PHD) Score: A New Decision Rule for Emergency and Critical Care, *Am J Emerg Med*, 31(5), 830-4. PMID: 23602758.
  28. Lai, W. P., Chien, T. W., Lin, H. J., **Su, S. B.**, & Chang, C. H. (2013). A Screening Tool for Dengue Fever in Children, *Pediatr Infect Dis J.*, 32(4),320-4. PMID: 23249912.
  29. Tyan, Y. C., **Su, S. B.**, Ting, S. S., Wang, H. Y., & Liao, P. C. (2013). A Comparative Proteomics Analysis of Peritoneal Dialysate Before and After the Occurrence of Peritonitis Episode by Mass Spectrometry, *Clin Chim Acta*, 420, 34-44. PMID: 23078846.
  30. Wu, C. L., **Su, S. B.**, Lien, H. Y., & Guo, H. R. (2012). The Role of the Chemical Burns Caused by Hydroxide Ion in the Toxicity of Dermal Exposure to Tetramethylammonium Ion in a Rat Model, *Burns*, 38(7), 1051-7. PMID: 22698842.
  31. Kan, W. C., Wang, H. Y., Chien, C. C., Li, S. L., Chen, Y. C., Chang, L. H., Cheng, C. H., Tsai, W. C., Hwang, J. C., **Su, S. B.**, Huang, L. H., & Chuu, J. J. (2012). Effects of Extract from Solid-State Fermented Cordyceps Sinensis on Type 2 Diabetes Mellitus, *Evid Based Complement Alternat Med*, 743107. PMID:22474523.
  32. Wang, H. Y., Lin, C. Y., Chien, C. C., Kan, W. C., Tian, Y. F., Liao, P. C., Wu, H. Y.,& **Su, S. B.** (2012). Impact of Uremic Environment on Peritoneum: A Proteomic View, *J Proteomics*, 75(7), 2053-63. PMID:22266485.
  33. Wu, C. L., **Su, S. B.**, Chen, J. L., Chang, C. P., & Guo, H. R. (2012). Tetramethylammonium Ion Causes Respiratory Failure Related Mortality in a Rat Model, *Resuscitation*, 83(1), 119-24. PMID: 21762667.
  34. Chien, T. W., Lai, W. P., Wang, H. Y., Hsu, S. Y., Castillo, R. V., Guo, H. R., Chen,

- S. C., & **Su, S. B.** (2011). Applying the Revised Chinese Job Content Questionnaire to Assess Psychosocial Work Conditions among Taiwan's Hospital Workers, *BMC Public Health*, *11*, 478. PMID: 21682912.
35. Kan, W. C., Wang, H. Y., Chien, C. C., Tan, C. K., Lin, C. Y., & **Su, S. B.** (2012). Intermediate Bioelectrolyte Changes after Phospho-soda or Polyethylene Glycol Precolonoscopic Laxatives in a Population undergoing Health Examinations, *Nephrol Dial Transplant*, *27*(2), 752-7. PMID:21617195.
36. Chien, T. W., Lai, W. P., Lu, C. W., Wang, W. C., Chen, S. C., Wang, H. Y., & **Su, S. B.** (2011). Web-based Computer Adaptive Assessment of Individual Perceptions of Job Satisfaction for Hospital Workplace Employees, *BMC Med Res Methodol*, *11*, 47. PMID: 21496311.
37. Wu, C. C., Chang, J. H., Chen, C. C., **Su, S. B.**, Yang, L. K., Ma, W. Y., Zheng, C. M., Diang, L. K., Lu, K. C. (2011). Calcitriol Treatment Attenuates Inflammation and Oxidative Stress in Hemodialysis Patients with Secondary Hyperparathyroidism, *Tohoku J Exp Med*, *223*(3), 153-9. PMID: 21350317.
38. Yang, M. H., Chu, P. Y., Chen, S. C., Chung, T. W., Chen, W. C., Tan, L. B., Kan, W. C., Wang, H. Y., **Su, S. B.**, & Tyan, Y. C. (2011). Characterization of ADAM28 as a Biomarker of Bladder Transitional Cell Carcinomas by Urinary Proteome Analysis, *Biochem Biophys Res Commun*, *411*(4), 714-20. PMID:21782798.
39. Chien, C. C., Wang, H. Y., Wang, J. J., Kan, W. C., Chien, T. W., Lin, C. Y., & **Su, S. B.** (2011). Risk of Acute Kidney Injury after Exposure to Gadolinium-based Contrast in Patients with Renal Impairment, *Ren Fail*, *33*(8), 758-64. PMID: 21777176.

## **Dissertation**

Su, Shih-Bin. (2009). Adverse Health Outcomes Associated with Controlled Environment in High-tech industries. Unpublished doctoral thesis, Institute of Environmental Occupational Health, Medical College, National Cheng Kung University.

## **Patents**

1. Mini Pahsco-vac, M 467466, 2013-2023.
2. Automatic performance evaluation system, I 426457, 2014-2031.