



# Angela Shin-Yu Lien

## Associate Professor

### Section Head of Registry Section

#### EDUCATION

- PhD National Taiwan University  
(2016)
- Visit William F. Connell School of  
Scholar Nursing, Boston College  
(2008-2009)
- MS National Defense Medical Center  
(1996)

#### CONTACT

#### INFORMATION

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#### RESEARCH DIRECTIONS

- Adolescent and Family Health
- Health Education for Patients with Diabetes Mellitus
- Meta-Analysis, Big Data Analysis

#### TEACHING SUBJECTS

- Human Development (with Practice)
- Pediatric Nursing (with Practice)
- Health Issues on Aboriginal Children's Health in Taiwan
- Healthy Issues for Children and Adolescents
- Advanced Women and Children Health Nursing (with Practice)
- Independent Research
- Teamwork in Medical and Allied Health Professions

#### RESEARCH WITHIN THREE YEARS

- *Technology intervention for children's and adolescents' health in rural area --The application of diffusion of innovation theory(PI, Chang Gung Medical Foundation Research Grand, 2023-2025)*
- *The Construction and Testing of a Smart Telemedicine System with Deep Learning Method to Management Diabetic Foot Ulcer (PI, Chang Gung Medical Foundation Research Grand, 2022-2023)*
- *The Application of Design Thinking in University Social Responsibility Research Implement of Health Promotion for Indigenous Children and Adolescent (PI, MOE Teaching Practice Research Program, 2022-2024)*
- *Severe Complication Prediction Model Construction Combined with Statistical and Machine Learning Algorithms for Patient with Diabetes Related Fatigue, Sleep and Quality of Life (PI, National Science and Technology Council, 2020-2021)*
- *The Construction and Testing of the Effectiveness of the Intelligent Diabetic Foot Ulcer Surveillance Management System (PI, National Science and Technology Council, 2019-2021)*

## PUBLICATIONS

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1. **Lien, A.S.Y.\***, Chiu, S.Y.H., Chen, S.L.S., Fann, J.C.Y., Yen, A.M.F., Yeh, M.C., Lou, M.F., Huang, K.C., Sheu, W.H.H., Chen, H.H. & Gau, B.S. (2022). Community-based multiple screening for metabolic syndrome by innovative theory: A longitudinal study. *Public Health Nursing*, 39(1): 303-312. <https://doi.org/10.1111/phn.13033>
2. Wen, C.Y., **Lien, A.S.Y.**, & Jiang, Y.D.(2022). Sarcopenia in elderly diabetes. *Journal of Diabetes Investigation*, 13(6), 944-946. <https://doi.org/10.1111/jdi.13752>
3. **Lien, A.S.Y.\***, Lai, C.Y., Wei, J.D., Yang, H. M., Yeh, J.T., & Tai, H.C. (2022). A Granulation Tissue Detection Model to Track Chronic Wound Healing in DM Foot Ulcers. *Electronics*, 11(16), 2617. <https://doi.org/10.3390/electronics11162617>
4. **連心瑜\***、蔡佳玲、張賢宗 ( 2022 ) 。應用跨專業教師社群與混成式教學模式設計於改善兒童青少年健康議題課程教學成效之實踐研究。 *長庚科技學刊* , 36 , 73-88
5. 高宇涵、陳秀湏、**連心瑜\*** ( 2022 ) 。高濕度環境對非常低出生體重早產兒之影響-系統性文獻回顧。 *護理雜誌* , 69(4) , 88-98
6. Fang, C.Y., **Lien, A.S.Y.\***, Tsai, J.L., Yang, H.C., Chan, H.L., Chen, R.S., & Chang, Y.J. (2021). The effect and dose-response of functional electrical stimulation cycling training on spasticity in individuals with spinal cord injury: a systematic review with meta-analysis. *Frontiers in Physiology*, 12, 756200. <https://doi.org/10.3389/fphys.2021.756200>
7. Wang,T.J., Kang,C.L., Tsai,J.L., Song,W.T & **Lien,A.S.Y.\*** (2021). Social media (Facebook) improper use and the influence of sleeping quality in Taiwan's university students. *Science Progress*, 104(2), 1-20. <https://doi.org/10.1177/00368504211011878>
8. **Lien, A.S.Y.\***, Jiang, Y.D., Tsai, J.L., Hwang, J.S., & Lin, W.C. (2020). Prediction of diabetic nephropathy from the relationship between fatigue, sleep and quality of life. *Applied Sciences*, 10(9):3282-13. <https://doi.org/10.3390/app10093282>
9. Fang, C.Y., Tsai, J.L., Li, G.S., **Lien, A.S.Y.**, & Chang, Y.J. (2020). Effects of robot-assisted gait training in individuals with spinal cord injury: a meta-analysis. *BioMed Research International*, 2020, 2102785-1. <https://doi.org/10.1155/2020/2102785>
10. Hwang, J.S., **Lien, A.S.Y.**, & Jiang, Y.D. (2020). Commentary on the effects of receptor activator of nuclear factor- $\kappa$ B ligand inhibition on bone mass and muscle strength. *Journal of Diabetes Investigation*, 11(2):287-289. <https://doi.org/10.1111/jdi.13165>
11. Ho, T.W., Tsai, Y.J., Huang, C.T., **Lien, A.S.Y.**, & Lai, F. (2020). Impact of tobacco-related chronic obstructive pulmonary disease on developmental trajectories of comorbidities in the Taiwan population. *Scientific Reports*, December 2020, 10(1):1-9. <https://doi.org/10.1038/s41598-020-78325-y>

12. Wang, T.J., **Lien, A.S.Y.**, Chen, J.L., Lin, C.H., Yang, Y.S., & Yang, S.H. (2019). A randomized clinical efficacy trial of red yeast rice (*Monascus pilosus*) against hyperlipidemia. *The American Journal of Chinese Medicine*, 47(02):323-335. <https://doi.org/10.1142/S0192415X19500150>
13. Ho, T.W., Huang, C.T., Tsai, Y.J., **Lien, A.S.Y.**, Lai, F., & Yu, C.J. (2019). Metformin use mitigates the adverse prognostic effect of diabetes mellitus in chronic obstructive pulmonary disease. *Respiratory Research*, 20(1):69-10. <https://doi.org/10.1186/s12931-019-1035-9>
14. 陳麗如、孟瑛如、**連心瑜** (2019)。發展學生的個別適性學習策略-運用「青年聽讀寫學習優勢發展量表」分析學習特質及發展學習策略。 *特教論壇* · 27 · 1-16
15. **Lien, A.S.Y.\***, Hwang, J.S., & Jiang, Y.D. (2018). Diabetes related fatigue sarcopenia, frailty. *Journal of Diabetes Investigation*, 9(1):3-4. <https://doi.org/10.1111/jdi.12752>
16. Yang, P.Y., Lou, M.F., **Lien, A.S.Y.**, & Gau, B.S. (2018) Adolescent perceptions of peer responses to diabetes self-management: a qualitative study. *Journal of Nursing Research*, 26(2):104-111. <https://doi.org/10.1097/jnr.0000000000000234>
17. **Lien, A.S.Y.\*** & Jiang, Y.D. (2018) Integration of diffusion of innovation theory into diabetes care. *Journal of Diabetes Investigation*, 8(3):259-260. <https://doi.org/10.1111/jdi.12568>
18. 蔡培琳、何沛蓉、蔡明陞、蔡佳玲、**連心瑜** (2018)。運用治療性遊戲於一位齒源性蜂窩組織炎學齡前期兒童口腔衛生教育之成效。 *長庚護理* · 29(2) · 294-304
19. **Lien, A.S.Y.\***, Tsai, J.L., Lee, J.T., Wu, M.Y., Jiang, Y.D., & Yen, H.R. (2017). A systematic review and meta-analysis of the effect of lifestyle modification on metabolic control in overweight children. *Evidence-Based Complementary and Alternative Medicine*, 2017: 5681909, <https://doi.org/10.1155/2017/5681909>
20. **Lien, A.S.Y.\***, Young, L., Gau, B.S., & Shiao, S.P.K. (2017). Meta-prediction of MTHFR gene polymorphism-mutations, air pollution, and risks of leukemia among world populations. *Oncotarget*, 8(3):4387-4398. <https://doi.org/10.18632/oncotarget.13876>
21. **Lien, A.S.Y.\***, Jiang, Y.D., Mou, C.H., Sun, M.F., Gau, B.S., & Yen, H.R. (2016). Integrative traditional Chinese medicine therapy reduces the risk of diabetic ketoacidosis in patients with type 1 diabetes mellitus. *Journal of Ethnopharmacology*, 191:324-330. <https://doi.org/10.1016/j.jep.2016.06.051>
22. **連心瑜** (2016)。社區整合式篩檢世代之創新擴散研究。 *國立臺灣大學護理學研究所學位論文* · 1-109
23. Chung, F.F., Lin, H.L., Liu, H.E., **Lien, A.S.Y.**, Hsiao, H.F., Chou, L.T. & Wan, G.H. (2015). Aerosol distribution during open suctioning and long-term surveillance of air quality in a respiratory care center within a medical center. *Respiratory Care*, 60(1):30-37. <https://doi.org/10.4187/respcare.03310>

24. Lee, J.T., Lin, H.H., Tsai, J.L., Chen, C.P., Huang, K.G. & **Lien, A.S.Y.** (2015). Transformation of Sexual Expression in Taiwanese Women After Treatment for Gynecological Cancer. *Cancer Nursing*, 38(6):475-483.  
<https://doi.org/10.1097/NCC.0000000000000224>
25. 陳冠伶、張宮綺、周郁庭、蔡佳玲、**連心瑜** (2015)。運用治療性遊戲協助一位學齡期肺炎病童促進肺部擴張之成效。 *長庚護理*，26(4)，513-525
26. Huang, T.P., Liu, P.H., **Lien, A.S.Y.**, Yang, S.L., Chang, H.H. & Yen, H.R. (2014). A nationwide population-based study of traditional Chinese medicine usage in children in Taiwan. *Complementary Therapies in Medicine*, 22(3):500-510.  
<https://doi.org/10.1016/j.ctim.2014.04.002>
27. Lin, J.F., Liu, P.H., Huang, T.P., **Lien, A.S.Y.**, Ou, L.S., Yu, C.H., Yang, S.L., Chang, H.H. & Yen, H.R. (2014). Characteristics and prescription patterns of traditional Chinese medicine in atopic dermatitis patients: ten-year experiences at a medical center in Taiwan. *Complementary Therapies in Medicine*, 22(1):141-147.  
<https://doi.org/10.1016/j.ctim.2013.12.003>
28. Yu, C.H., Liu, P.H., Van, Y.H., **Lien, A.S.Y.**, Huang, T.P., Yen, H.R. (2014). Traditional Chinese medicine for idiopathic precocious puberty: a hospital-based retrospective observational study. *Complementary Therapies in Medicine*, 22(2):258-265.  
<https://doi.org/10.1016/j.ctim.2014.01.002>
29. 游景卉、顏宏融、劉碧華、**連心瑜**、沈建忠、楊淑齡、黃子坪 (2014)。子宮內膜異位症中醫用藥規律研究。 *成都中醫藥大學學報*，37(1)，118-120。  
<https://www.cqvip.com/qk/90586a/201401/48874944.html>
30. **連心瑜**、羅美芳、高碧霞 (2014)。創新擴散理論之發展與護理應用。 *長庚護理*，25(4)，402-412。 <https://10.3966/102673012014122504003>
31. 蔡佳玲、**連心瑜** (2014)。運用概念圖於護理教學之探討。 *長庚科技學刊*，20，13-21。 <https://10.6192/CGUST.2014.6.20.2>
32. Huang, T.P., Liu, P.H., **Lien, A.S.Y.**, Yang, S.L., Chang, H.H. & Yen, H.R. (2013). Characteristics of traditional Chinese medicine use in children with asthma: a nationwide population-based study. *Allergy*, 68(12):1610-1613. <https://doi.org/10.1111/all.12273>
33. 林嘉玲、**連心瑜**、吳雪菁、張媚 (2013)。第二型糖尿病患者之睡眠品質。 *台灣醫學*，17(4)，441-446。 [https://10.6320/FJM.2013.17\(4\).13](https://10.6320/FJM.2013.17(4).13)
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35. 連心瑜、卓燕華、蔡佳玲 ( 2013 ) 。運用健康生活型態方案於兒童肥胖防治成效評估—系統性文獻回顧。 *護理雜誌* , 60(4) , 33-42 。 <https://10.6224/JN.60.4.33>
36. 連心瑜、戴玉慈、李雅玲 ( 2013 ) 。青少年嘲弄與霸凌概念模式。 *護理雜誌* , 60(4) , 86-92 。 <https://10.6224/JN.60.4.86>
37. 林敬凡、劉碧華、黃子坪、連心瑜、陳俊良、顏宏融 ( 2013 ) 。異位性皮膚炎患者使用中醫藥型態分析研究。 *中醫藥雜誌* , 24(2) , 293-301 。 <https://10.3966/101764462013122402009>
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39. 陳麗如、陳盈君、連心瑜 ( 2011 ) 。特殊教育需求滿足—從調整與修改思考課程學習的需求滿足。 *台東特教* , (33) , 1-6 。
40. 連心瑜、張自強、陳麗如 ( 2011 ) 。癲癇兒童的疾病適應。 *臺灣職能治療研究與實務雜誌* , 7(1) , 64-73 。
41. Chan, E.A., Chung, J.W., Wong, T.K., Lien, A.S.Y., & Yang, J.Y. (2007). Application of a virtual reality prototype for pain relief of pediatric burn in Taiwan. *Journal of clinical nursing* , 16(4), 786-793. <https://doi.org/10.1111/j.1365-2702.2006.01719.x>
42. 連心瑜、莊文怡、楊瑞永、陳胡安琪、鍾慧儀、汪國成 ( 2007 ) 。虛擬實境應用於一位燒燙傷兒童疼痛減輕成效之初探。 *長庚護理* , 18(2) , 294-306 。
43. 連心瑜、吳亭芳、陳麗如、毛新春 ( 2005 ) 。護理人員在早期療育的角色功能。 *護理雜誌* , 52(6) , 63-70 。 <https://10.6224/JN.52.6.63>
44. 連心瑜、毛新春 ( 1999 ) 。兒童癲癇症護理。 *護理雜誌* , 46(4) , 5-9 。 <https://10.6224/JN.46.4.5>