中文題目:樟芝菌絲體營養補充劑應用於改善非酒精性脂肪變性肝炎(NASH)的 隨機、雙盲臨床研究

英文題目:Clinical safety and beneficial effects of *Antrodia cinnamomea* mycelia in non-alcoholic steatosis hepatitis (NASH), randomized, double-blind clinical study

作 者:康玉縈¹, 喬長誠², 邱駿弘²,楊燕萍³,吳牧臻³,邱雅鈴^{1*}, 柯萬盛^{4*}

服務單位:¹弘光科技大學營養系暨營養醫學所,²弘光科技大學生物科技系 (所),³弘光科技大學健康事業管理系(所),⁴光田綜合醫院內科部

Background: The nonalcoholic fatty liver disease (NAFLD) is a common disease which could further developing into nonalcoholic steatohepatitis (NASH), fibrosis and hepatocellular carcinoma. The Antrodia cinnamomea (A.cinnamomea; synonym: Antrodia camphorata) is a traditional medicinal fungus in Taiwan. Ithas been reported have medicinal and pharmacological activities, including antitumor, to antiinflammatory, antioxidant, immunomodulatory, and hepatoprotective effects.In hepatoprotective effects, the studies indicated Antrodia cinnamomea mycelia (ACM) can reduce serum AST and ALT levels. The aim of this study will to investigate theclinical /antioxidant status and immunity effects of oral administration ACM in NASHpatients. Materials & Methods: The 28 NASH subjects were double-blinded randomized divided into two groups: (1) placebo group: 13 patients received diet and exercise education but no oral administration ACM; (2) study group: 15 patients received diet /exercise educationandoral administration ACM (1.8g /day). The duration of experiment is 24 months. The body weight, serum levels of AST, ALT, glucose, insulin, TG, cholesterol, FibroMax test, TNF-α, IL-6,IL-1β and immune function will be examined. **Results:** Instudy group, the levels of AST,ALT, AC sugar, Ferrtin and and FibroMax index (hepatic steatosis and inflammation scores) reduced but the percentage of CD3⁺CD8⁺ cells increased during 0, 3 and 6 months significantly (p<0.05). However, the levels of levels of AST, ALT, AC sugar, Ferrtin scorereduced(p < 0.05) but inflammation hepatic steatosisscore CD3⁺CD8⁺ cells showed no difference significantly in placebo group during 0, 3 and 6 months. **Conclusion:** This study is the first study of *Antrodia cinnamomea* mycelia for NASH patients. The effects of Antrodia cinnamomea mycelia could reduce liver inflammation / steatosis and increased the percentage of CD3⁺CD8⁺ cellsin NASH patients.