

# 花蓮慈濟醫院研究部

## 江元宏醫師 研究室

主持人：江元宏

### 研究簡介

- 膀胱表皮功能於各下尿路疾病之角色
- 肉毒桿菌素注射於各下尿路疾病之臨床運用
- 錄影尿動力學於各下尿路疾病之診斷與應用
- 多尺度熵數以及心律變異分析於下尿路疾病之應用

### 計畫與經費來源

計畫名稱	擔任工作內容	起迄年月	補助或委託機構	執行情形	經費總額
膀胱表皮功能異常及慢性發炎可能是反覆細菌性膀胱炎潛在的病理生理學	計畫主持人	2012/01/01~ 2012/12/31	花蓮慈濟醫院	已結案	120,000 元
尿路結石造成膀胱發炎及膀胱表皮功能失調之可能致病機轉	計畫主持人	2013/01/01~ 2013/12/31	花蓮慈濟醫院	已結案	160,000 元
使用肉毒桿菌毒素治療功能障礙型排尿之效果評估- 一個隨機、雙盲、安慰劑控制之研究	計畫主持人	2014/01/01~ 2014/12/31	花蓮慈濟醫院	已結案	200,000 元
高壓及低壓原發性膀胱頸功能異常可能具不同致病因- 免疫組織學與自主神經系統分析	計畫主持人	2015/01/01~ 2015/12/31	花蓮慈濟醫院	已結案	200,000 元
利用蛋白質體探討間質性膀胱炎診斷之潛在血清及尿液生物標記，探討chemokines、神經生長因子、BDNF、CRP及其他發炎蛋白質扮演的角色	子計畫主持人	2016/07/01~ 2019/06/30	慈濟醫療志業跨院 校合作研究計畫	執行中	1,980,000 元

### 研究成果 (第一作者論文)

1. **Jiang YH**, Ke QS, Kuo HC: Clinical symptoms and videourodynamic findings of detrusor overactivity in women. Urol Sci (2011)
2. **Jiang YH**, Kuo HC, Hsu YH: Renal Endometriosis Mimicking an Angiomyolipoma: A Case Report. Urol Sci (2013)
3. **Jiang YH**, Wang CC, Chuang FC, Ke QS, Kuo HC: Positioning of a suburethral sling at the bladder neck is associated with a higher recurrence rate of stress urinary incontinence. J Ultrasound Med. (2013) **(SCI)**
4. **Jiang YH\***, Lin VC\*, Liao CH, Kuo HC: International prostatic symptom score - voiding/storage subscore ratio in association with total prostatic volume and maximum flow rate is diagnostic of bladder outlet-related lower urinary tract dysfunction in men with lower urinary tract symptoms. PLoS One. (2013) **(SCI)** (\*: equal contribution)
5. **Jiang YH**, Peng CH, Liu HT, Kuo HC: Increased pro-inflammatory cytokines, CRP and NGF expressions in serum of patients with IC/ BPS. PLoS One. (2013) **(SCI)**
6. **Jiang YH**, Liu HT, Kuo HC.: Decrease of urinary nerve growth factor but not brain-derived neurotrophic factor in patients with IC/BPS. PLoS One. (2014) **(SCI)**
7. **Jiang YH**, Liao CH, Tang DL, Kuo HC: Efficacy and safety of intravesical onabotulinumtoxinA injection on elderly patients with chronic CNS lesions and OAB. PLoS One. (2014) **(SCI)**
8. **Jiang YH**, Kuo HC.: Urothelial dysfunction and increased suburothelial inflammation of urinary bladder are involved in patients with upper urinary tract urolithiasis--clinical and immunohistochemistry study. PLoS One. (2014) **(SCI)**
9. **Jiang YH**, Liao CH, Kuo HC.: Current and potential urological applications of botulinum toxin A. Nat Rev Urol. 2015 Sep;12(9):519. **(SCI)**
10. **Jiang YH**, Kuo HC.: Reduction of urgency severity is the most important factor in the subjective therapeutic outcome of intravesical onabotulinumtoxinA injection for overactive bladder. Neurourol Urodyn. (2015) **(SCI)**
11. **Jiang YH**, Liu HT, Kuo HC.: Urothelial dysfunction and chronic inflammation in patients with spinal cord injuries at different levels and correlation with urodynamic findings. Neurourol Urodyn. (2015) **(SCI)**
12. Wu HT\*, **Jiang YH\***, Liu AB, Liu CW, Ou YN, Kuo HC, Sun CK.: Multiscale Entropy Analysis of Surface Electromyographic Signals from the Urethral Sphincter as a Prognostic Indicator for Surgical Candidates with Primary Bladder Neck Obstruction. Entropy. (2015) **(SCI)** (\*: equal contribution)
13. **Jiang YH**, Lee CL, Kuo HC.: Urothelial dysfunction, suburothelial inflammation, and altered sensory protein expression in men with BOO and various bladder dysfunctions: correlation with urodynamics. J Urol. (2016) **(SCI)**
14. **Jiang YH**, Jhang JF, Kuo HC.: Revisiting the Role of Potassium Sensitivity Testing and Cystoscopic Hydrodistention for the Diagnosis of IC. PLoS One. (2016) **(SCI)**
15. **Jiang YH**, Liao CH, Kuo HC. Role of Bladder Dysfunction in Men with LUTS Refractory to Alpha-blocker Therapy: A VUDS Analysis. Low Urin Tract Symptoms. (2016) **(SCI)**
16. **Jiang YH**, Wang CC, Kuo HC. OnabotulinumtoxinA Urethral Sphincter Injection as Treatment for Non-neurogenic Voiding Dysfunction - A Randomized, Double-Blind, Placebo-Controlled Study. Sci Rep. (2016) **(SCI)**
17. **Jiang YH**, Ong HL, Kuo HC.: Predictive factors of adverse events after intravesical suburothelial onabotulinumtoxinA injections for OAB syndrome-A real-life practice of 290 cases in a single center. Neurourol Urodyn. (2017) **(SCI)**
18. **Jiang YH**, Kuo HC. Urothelial Barrier Deficits, Suburothelial Inflammation and Altered Sensory Protein Expressions in Detrusor Underactivity. J Urol. (2017) **(SCI)**