

Chang Gung Medical Journal

CONTENTS IN BRIEF

REVIEW ARTICLES

- 589** **Mitochondrial Dysfunction and Biogenesis in the Pathogenesis of Parkinson's Disease**
Tsu-Kung Lin, MD, PhD; Cha-Wei Liou, MD; Shang-Der Chen, MD;
Yao-Chung Chuang, MD, PhD; Mao-Meng Tiao, MD; Pei-Wen Wang, MD; Jin-Bor Chen, MD;
Jiin-Haur Chuang, MD

ORIGINAL ARTICLES

- 600** **Variation and Clinical Significance of Extensor Pollicis Brevis: A Study in South Indian Cadavers**
Soubhagya R. Nayak, MSc; Muktyaz Hussein, MSc; Ashwin Krishnamurthy, MD;
Dil Islam Mansur, MD; Latha V. Prabhu, MS; Prima D'Souza, MSc; Bhagath K. Potu, MSc;
Ganesh K. Chettiar, MD
- 605** **Uric Acid Is Not An Independent Predictor of Cardiovascular Death in Patients with Angiographically Proven Coronary Artery Disease**
Tzu-Hsien Tsai, MD; Yung-Lung Chen, MD; Shyh-Ming Chen, MD; Cheng-Hsu Yang, MD;
Chih-Yuan Fang, MD; Yuan-Kai Hsieh, MD; Chiung-Jen Wu, MD; Hon-Kan Yip, MD;
Chi-Ling Hang, MD; Morgan Fu, MD; Mien-Cheng Chen, MD
- 614** **FibroQ: An Easy and Useful Noninvasive Test for Predicting Liver Fibrosis in Patients with Chronic Viral Hepatitis**
Yung-Yu Hsieh, MD; Shui-Yi Tung, MD; I-Lin Lee, MD; Kamfai Lee, MD;
Chien-Heng Shen, MD; Kuo-Liang Wei, MD; Te-Sheng Chang, MD; Chia-Sheng Chuang, MD;
Cheng-Shyong Wu, MD; Yi-Hsiung Lin, MS
- 623** **Risk Factors Associated with Transrectal Ultrasound Guided Prostate Needle Biopsy in Patients with Prostate Cancer**
Sheng-Hui Lee, MD; Shao-Ming Chen, MD; Chung-Rong Ho, MD; Phei-Lang Chang, MD;
Chien-Lun Chen, MD, PhD; Ke-Hung Tsui, MD
- 628** **Follow-up of Developmental Profiles in Children with Spastic Quadriplegic Cerebral Palsy**
Kai-Hua Chen, MD; Chung-Yao Chen, MD; Hung-Chih Hsu, MD; Chia-Ling Chen, MD, PhD;
Chu-Hsu Lin, MD; Wei-Chi Hsieh, MD; Chien-Min Chen, MD; Jia-Pei Hong, MD
- 636** **Comprehensive Dental Treatment under General Anesthesia in Healthy and Disabled Children**
Pei-Ying Lee, DDS, MSc; Ming-Yen Chou, DDS, MSc; Yi-Ling Chen, DDS, MSc;
Li-Ping Chen, DDS, MSc; Ching-Jung Wang, DDS; Wen-Hsi Huang, DDS

643 Effect of Warm Lidocaine on the Sensory Onset of Epidural Anesthesia: A Randomized Trial

Fu-Chao Liu, MD, PhD; Jiin-Tarng Liou, MD; Yuan-Ji Day, MD, PhD; Allen H. Li, MD, PhD; Huang-Ping Yu, MD, PhD

650 Health Promoting Lifestyles and Related Factors in Pregnant Women

Yu-Hua Lin, RN, MSN; Eing-Mei Tsai, MD, PhD; Te-Fu Chan, MD; Fan-Hao Chou, RN, PhD; Yu-Ling Lin, RN

CASE REPORTS

662 Idiopathic Spinal Epidural Lipomatosis – Two Cases Report and Review of Literature

Jun-Yeen Chan, MD; Chih-Ju Chang, MD, MS; Chin-Ming Jeng, MD; Shih-Hung Huang, MD; Yuan-Kai Liu, MD; Jing-Shan Huang, MD

668 Alternative Therapy for Autosensitization Dermatitis

Ya-Ting Chang, MD; Jiann-Jong Shen, MD, PhD; Wen-Rou Wong, MD; Hung-Rong Yen, MD

LETTER TO THE EDITOR

674 Midline Laser Glossectomy: Complications and Risks Are against the Potential Benefits

Murat Enoz, MD

675 Reply to Enoz

Hsueh-Yu Li, MD

676 INSTRUCTIONS TO AUTHORS

Chang Gung Medical Journal

CONTENTS

REVIEW ARTICLES

589 Mitochondrial Dysfunction and Biogenesis in the Pathogenesis of Parkinson's Disease

Tsu-Kung Lin, MD, PhD; Cha-Wei Liou, MD; Shang-Der Chen, MD;
Yao-Chung Chuang, MD, PhD; Mao-Meng Tiao, MD; Pei-Wen Wang, MD; Jin-Bor Chen, MD;
Jiin-Haur Chuang, MD

Parkinson's disease (PD) is a progressive neurological disorder and the mortality of PD is two to five times as high among affected persons as among age-matched controls. Recent identification of specific gene mutations that cause PD has further reinforced the relevance of oxidative stress and mitochondrial dysfunction in the familial and sporadic forms of the disease. Since mitochondria are the major intracellular organelles regulating both cell survival and death, clarifying the involvement of mitochondrial dysfunction and biogenesis during the process of PD could provide treatment strategies that might successfully intervene in the pathogenesis and slow the progression of the disease.

ORIGINAL ARTICLES

600 Variation and Clinical Significance of Extensor Pollicis Brevis: A Study in South Indian Cadavers

Soubhagya R. Nayak, MSc; Muktyaz Hussein, MSc; Ashwin Krishnamurthy, MD;
Dil Islam Mansur, MD; Latha V. Prabhu, MS; Prima D'Souza, MSc; Bhagath K. Potu, MSc;
Ganesh K. Chettiar, MD

We studied 156 upper limbs from adult cadavers of south Indian origin to observe the number of extensor pollicis brevis (EPB) tendons and the presence of an osseo-fibrous septum in the first extensor compartment of the wrist. The EPB had a single tendon in 133 limbs and the EPB was present in all of the upper limbs included in our study. Variation in the number of EPB tendons and site of insertion should be taken into consideration by clinicians and surgeons when performing surgical decompression of the first extensor compartment of the wrist in de Quervain's syndrome.

605 Uric Acid Is Not An Independent Predictor of Cardiovascular Death in Patients with Angiographically Proven Coronary Artery Disease

Tzu-Hsien Tsai, MD; Yung-Lung Chen, MD; Shyh-Ming Chen, MD; Cheng-Hsu Yang, MD;
Chih-Yuan Fang, MD; Yuan-Kai Hsieh, MD; Chiung-Jen Wu, MD; Hon-Kan Yip, MD;
Chi-Ling Hang, MD; Morgan Fu, MD; Mien-Cheng Chen, MD

This study comprised 647 consecutive patients with coronary artery disease. The five-year survival rates for patients free from all-cause mortality with levels of uric acid ≥ 6.4 mg/dL and < 6.4 mg/dL were 82% and 92% respectively ($p < 0.0001$). Five-year survival rates for patients free from cardiovascular mortality with levels of uric acid ≥ 6.4 mg/dL and < 6.4 mg/dL were 91% and 97% ($p = 0.003$). Multivariate Cox regression analysis showed that serum uric acid was an independent predictor of all-cause death but was not an independent predictor of cardiovascular mortality.

614 FibroQ: An Easy and Useful Noninvasive Test for Predicting Liver Fibrosis in Patients with Chronic Viral Hepatitis

Yung-Yu Hsieh, MD; Shui-Yi Tung, MD; I-Lin Lee, MD; Kamfai Lee, MD;
Chien-Heng Shen, MD; Kuo-Liang Wei, MD; Te-Sheng Chang, MD; Chia-Sheng Chuang, MD;
Cheng-Shyong Wu, MD; Yi-Hsiung Lin, MS

Fibro-quotient (FibroQ), a novel noninvasive test, is a useful and easy tool to evaluate liver fibrosis in patients with chronic viral hepatitis. FibroQ performed better than the aspartate aminotransferase (AST)-to-platelet ratio index (APRI) and the AST/alanine aminotransferase (ALT) ratio (AAR) in the prediction of significant fibrosis

[area under the receiver operating characteristic curve (AUC): 0.783 vs 0.631 ($p = 0.02$) and 0.783 vs 0.733 ($p = 0.26$), respectively] and cirrhosis [AUC: 0.791 vs 0.634 ($p = 0.03$) and 0.791 vs 0.782 ($p = 0.47$)], respectively. Further prospective studies are warranted to validate its efficacy.

623 Risk Factors Associated with Transrectal Ultrasound Guided Prostate Needle Biopsy in Patients with Prostate Cancer

Sheng-Hui Lee, MD; Shao-Ming Chen, MD; Chung-Rong Ho, MD; Phei-Lang Chang, MD; Chien-Lun Chen, MD, PhD; Ke-Hung Tsui, MD

Transrectal ultrasound (TRUS) guided prostate needle biopsy is an important method for urologists to detect prostate cancer. We determined the associated risk factors for those patients who suffered major complications and required hospitalization after TRUS guided prostate biopsy. The results of our study demonstrate that urinary tract infection and rectal preparation might affect the complication rate. Thus, TRUS guided prostate needle biopsy is a safe and effective diagnostic tool.

628 Follow-up of Developmental Profiles in Children with Spastic Quadriplegic Cerebral Palsy

Kai-Hua Chen, MD; Chung-Yao Chen, MD; Hung-Chih Hsu, MD; Chia-Ling Chen, MD, PhD; Chu-Hsu Lin, MD; Wei-Chi Hsieh, MD; Chien-Min Chen, MD; Jia-Pei Hong, MD

A longitudinal study assessed the developmental profiles of preschool children with spastic quadriplegic cerebral palsy (SQ CP), using the Chinese Children Developmental Inventory for the initial and final assessments. Development quotients (DQs) and DQ change indexes (%) for eight domains were calculated. The children exhibited impairments across the full spectrum of developmental domains. The DQ distributions were lowest for the gross motor and self help domains, higher for the fine motor, situation comprehension, and personal social domains, and highest for the expressive language, concept comprehension, and general development domains. Most developmental functions did not increase proportionally with increasing age.

636 Comprehensive Dental Treatment under General Anesthesia in Healthy and Disabled Children

Pei-Ying Lee, DDS, MSc; Ming-Yen Chou, DDS, MSc; Yi-Ling Chen, DDS, MSc; Li-Ping Chen, DDS, MSc; Ching-Jung Wang, DDS; Wen-Hsi Huang, DDS

Pediatric patients who received dental treatment under general anesthesia were reviewed. Patients with at least one type of mental or physical disability were assigned to the disabled group (group D), and those without mental or physical disability were assigned to the healthy group (group H). There were a greater mean total number of teeth extracted in group D. There were more stainless steel crown reconstructions and pulp therapies in group H. The findings suggested that the underlying medical or mental condition might influence the dental condition and treatment modality.

643 Effect of Warm Lidocaine on the Sensory Onset of Epidural Anesthesia: A Randomized Trial

Fu-Chao Liu, MD, PhD; Jiin-Tarnng Liou, MD; Yuan-Ji Day, MD, PhD; Allen H. Li, MD, PhD; Huang-Ping Yu, MD, PhD

Eighty patients scheduled for elective anal surgery was randomly allocated to two groups and received lumbar epidural anesthesia. Three patients were excluded. Administration of lidocaine at body temperature compared to room temperature shortens the time to onset of sensory block with no associated adverse effects.

650 Health Promoting Lifestyles and Related Factors in Pregnant Women

Yu-Hua Lin, RN, MSN; Eing-Mei Tsai, MD, PhD; Te-Fu Chan, MD; Fan-Hao Chou, RN, PhD; Yu-Ling Lin, RN

The purpose of this study was to explore health promoting lifestyles and related factors in pregnant women. A descriptive study including 172 Taiwanese pregnant women was conducted. The results showed that the standardized total score of health promoting lifestyles was 66.88 (moderate level). Perception of the family or peers' health-promoting behaviors, self-efficacy of health behaviors, perceived health status and chronic diseases were the four significant predictors of health-promoting lifestyles, accounting for 62.4% of the variance. The findings of this study could be used as a reference for prenatal care, nursing education, and maternal / neonatal health policies.

CASE REPORTS

662 Idiopathic Spinal Epidural Lipomatosis – Two Cases Report and Review of Literature

Jun-Yeen Chan, MD; Chih-Ju Chang, MD, MS; Chin-Ming Jeng, MD; Shih-Hung Huang, MD; Yuan-Kai Liu, MD; Jing-Shan Huang, MD

Spinal epidural lipomatosis (SEL) is a rare disease. Obesity, steroid treatment or obvious endocrinopathy might be associated with this condition. We report two cases of idiopathic SEL. Their clinical manifestations were lower back pain, progressive lower extremities weakness and numbness. Endocrine and radiographic studies were obtained. The operation was carried out by the procedure of laminectomy and debulking of the epidural fat. We reviewed the literature and summarized current trends in the management of this condition.

668 Alternative Therapy for Autosensitization Dermatitis

Ya-Ting Chang, MD; Jiann-Jong Shen, MD, PhD; Wen-Rou Wong, MD; Hung-Rong Yen, MD

We present a 14-year-old male with autosensitization dermatitis caused by *Dendrocnide meyeniana*. The pruritus and scattered erythematous eruptions over the four limbs and trunk disappeared after 7 days use of the combined Traditional Chinese Medicine (TCM) formula of *Xiao-feng-san* and *Huang-lian-jie-du-tang*. No side effects were noted during TCM therapy.

LETTER TO THE EDITOR

674 Midline Laser Glossectomy: Complications and Risks Are against the Potential Benefits

Murat Enoz, MD

675 Reply to Enoz

Hsueh-Yu Li, MD

676 INSTRUCTIONS TO AUTHORS

長 庚 醫 誌

綜 說

- 589 粒線體功能異常及生物合成於巴金森氏病之病因論述
林祖功 劉嘉為 陳尚德 莊曜聰 刁茂盟 王佩文 陳靖博 莊錦豪

原 著

- 600 **Variation and Clinical Significance of Extensor Pollicis Brevis: A Study in South Indian Cadavers**
Soubhagya R. Nayak Muktyaz Hussein Ashwin Krishnamurthy Dil Islam Mansur
Latha V. Prabhu Prima D'Souza Bhagath K. Potu Ganesh K. Chettiar
- 605 血清尿酸值對於血管攝影證明有冠狀動脈疾病的病人並不是一個預測因心血管疾病死亡的獨立因子
蔡子賢 陳永隆 陳世明 楊正旭 方志元 謝元凱 吳炯仁 葉漢根 洪志凌 傅懋洋 陳勉成
- 614 用 FibroQ 來評估病毒性肝炎患者之肝纖維化程度
謝詠諭 董水義 李宜霖 李錦輝 沈建亨 魏國良 張德生 莊家盛 吳正雄 林億雄
- 623 攝護腺癌男性病患利用經直腸超音波引導前列腺切片時之相關危險因子
李勝惠 陳紹民 何宗融 張慧朗 陳建綸 崔克宏
- 628 四肢痙攣型腦性麻痺孩童之發展追蹤
陳凱華 陳仲堯 許宏志 陳嘉玲 林衢序 謝煒基 陳建旻 洪家佩
- 636 健康與身心障礙兒童於全身麻醉下進行牙科治療之比較
李沛縈 周明媽 陳翊綾 陳麗萍 汪靜蓉 黃雯熙
- 643 加溫 Lidocaine 對硬脊膜外麻醉感覺起始作用影響之隨機研究
柳復兆 劉錦棠 戴元基 李漢倫 余黃平
- 650 懷孕婦女健康促進生活型態及其相關因素探討
林玉華 蔡英美 詹德富 周汎濤 林玉玲

病例報告

- 662 原發性脊椎硬膜外脂肪過多症：二病例報告和文獻回顧
陳俊賢 張志儒 鄭慶明 黃世鴻 劉元凱 黃金山
- 668 中藥治療自體敏感性皮膚炎經驗
張雅婷 沈建忠 翁雯柔 顏宏融

LETTER TO THE EDITOR

- 674 **Midline Laser Glossectomy: Complications and Risks Are against the Potential Benefits**
Murat Enoz, MD
- 675 **Reply to Enoz**
Hsueh-Yu Li, MD
- 676 長庚醫學雜誌投稿須知