CONTENTS IN BRIEF

REVIEW ARTICLES

331 Rotator Cuff Lesions with Shoulder Stiffness: Updated Pathomechanisms and Management
Jih-Yang Ko, MD; Feng-Sheng Wang, PhD

341 Facial Asymmetry: Etiology, Evaluation, and Management
You-Wei Cheong, MD; Lun-Jou Lo, MD

352 Current Status of Vertebroplasty for Osteoporotic Compression Fracture
Lih-Hui Chen, MD; Po-Liang Lai, MD; Wen-Jer Chen, MD

ORIGINAL ARTICLES

360 Survivin Expression in Cardiac Myxoma
Yu-Sheng Lin, MD; Shih-Ming Jung, MD; Hsueh-Hwa Wu; Tzu-Fang Shiu; Feng-Chun Tzai, MD; Jaw-Ji Chu, MD; Pyng-Jing Lin, MD; Pao-Hsien Chu, MD

367 Shockwaves Enhance the Osteogenetic Gene Expression in Marrow Stromal Cells from Hips with Osteonecrosis
Tsung-Cheng Yin, MD; Ching-Jen Wang, MD; Kunder D. Yang, MD, PhD; Feng-Sheng Wang, PhD; Yi-Chih Sun, BS

375 Increased Interleukin-6 Level in Taiwanese Schizophrenic Patients
Chin-Chuen Lin, MD; Chia-Ming Chang, MD; Pi-Yueh Chang, MS; Tiao-Lai Huang, MD

382 Efficacy and Tolerability of Salmeterol/Fluticasone Propionate versus Fluticasone Propionate in Asthma Patients: A Randomized, Double-blind Study
Yu-Sung Lee, MD; Horng-Chyuan Lin, MD; Chien-Da Huang, MD; Kang-Yun Lee, MD, PhD; Chien-Ying Liu, MD; Chih-Teng Yu, MD; Chun-Hua Wang, MD; Han-Pin Kuo, MD, PhD

395 Effects of Lactoferrin-containing Formula in the Prevention of Enterovirus and Rotavirus Infection and Impact on Serum Cytokine Levels: A Randomized Trial
Meng-Hsiu Yen, MD; Cheng-Hsun Chiu, MD, PhD; Yhu-Chering Huang, MD, PhD; Tzou-Yien Lin, MD

403 Woodward Procedure Improves Shoulder Function in Sprengel Deformity
Ka-Kit Siu, MD; Jih-Yang Ko, MD; Chung-Cheng Huang, MD; Feng-Sheng Wang, PhD; June-Ming Chen, MD; To Wong, MD

410 Autonomic Activity Difference during Continuous Positive Airway Pressure Titration in Patients with Obstructive Sleep Apnea/Hypopnea Syndrome with or without Hypertension
Jen-Hao Cheng, MD; Chung-Ching Hua, MD; Ning-Hung Chen, MD; Yu-Chih Liu, PhD; Chung-Chieh Yu, MD
418 Higher Serum Potassium Level Associated with Late Stage Chronic Kidney Disease
Ming-Fang Hsieh, MD; I-Wen Wu, MD; Chin-Chan Lee, MD; Shun-Yin Wang; Mai-Szu Wu, MD

426 Clinical Analysis and Strategy for Liver Transplantation in Patients with Pre-existing Portal Vein Thrombosis
Tsung-Han Wu, MD; Yann-Sheng Lin, MD; Chen-Fang Lee, MD; Ting-Jung Wu, MD; Ming-Chin Yu, MD; Kun-Ming Chan, MD; Wei-Chen Lee, MD

CASE REPORTS

435 Cervical Posterior Triangle Castleman’s Disease in A Child – Case Report & Literature Review
Chien-Yu Lin, MD; Tzu-Chin Huang, MD, MSc

440 The Treatment of Fetishism in An Adolescent with Attention Deficit Hyperactivity Disorder
Hsueh-Ling Chang, MD; Chia-Chi Chow, MSc

444 INSTRUCTIONS TO AUTHORS
CONTENTS

REVIEW ARTICLES

331 Rotator Cuff Lesions with Shoulder Stiffness: Updated Pathomechanisms and Management
Jih-Yang Ko, MD; Feng-Sheng Wang, PhD
The differences in pathologic processes between rotator cuff lesions with shoulder stiffness and adhesive capsulitis remain unclear. Our investigation revealed that increased IL-1β expression and myofibroblast recruitment in the subacromial bursa correlated with rotator cuff lesions with stiffness. This provides a new molecular role for the subacromial bursa in rotator cuff lesions with shoulder stiffness. Although rotator cuff repair is a shoulder-tightening procedure and is suggested after resolution of the shoulder stiffness, our data suggest that a combined procedure of manipulation, lysis of adhesions, acromioplasty, and rotator cuff repair is a useful procedure if symptoms do not improve after 3 months of aggressive rehabilitation.

341 Facial Asymmetry: Etiology, Evaluation, and Management
You-Wei Cheong, MD; Lun-Jou Lo, MD
Facial asymmetry can cause functional as well as aesthetic problems requiring evaluation and management. The underlying etiology should be investigated but may be unknown in many cases. Evaluation involves physical examination and medical imaging. Orthognathic surgery is performed to treat facial asymmetry combined with dental occlusal problems. Additional surgical procedures may be required to increase or reduce the volume of skeletal and soft tissue components to achieve better symmetry.

352 Current Status of Vertebroplasty for Osteoporotic Compression Fracture
Lih-Hui Chen, MD; Po-Liang Lai, MD; Wen-Jer Chen, MD
The utilization of vertebroplasty for the treatment of painful osteoporotic compression fracture has been widely accepted. This article summarizes the advances in vertebroplasty, and discusses the indications, technique, alternative methods, results and complications. The contents include a review of the supporting evidence to provide a comparison of the safety and efficacy of vertebroplasty and kyphoplasty.

ORIGINAL ARTICLES

360 Survivin Expression in Cardiac Myxoma
Yu-Sheng Lin, MD; Shih-Ming Jung, MD; Hsueh-Hwa Wu; Tzu-Fang Shiu; Feng-Chun Tzai, MD; Jaw-Ji Chu, MD; Pyng-Jing Lin, MD; Pao-Hsien Chu, MD
This study involved 40 patients with cardiac myxoma. Detailed clinical parameters and immunohistochemical staining in the myxomas were reported. The location of the myxoma and clinical events did not differ in terms of pathological changes, but these tumors were characterized by a survivin dependent pathway with 100% immunohistochemical staining in the cytoplasm. Therefore, survivin may play an important role in the apoptosis pathway in cardiac myxomas.

367 Shockwaves Enhance the Osteogenetic Gene Expression in Marrow Stromal Cells from Hips with Osteonecrosis
Tsung-Cheng Yin, MD; Ching-Jen Wang, MD; Kunder D. Yang, MD, PhD; Feng-Sheng Wang, PhD; Yi-Chih Sun, BS
Bone marrow stromal cells (BMSCs) were harvested from the bone marrow cavity of the proximal femur in 6 patients undergoing hip replacement. The BMSCs were treated with shockwaves, shockwaves plus L-NAME (NO inhibitor) or NOC18 (a nitric oxide promoter). The control group received no shockwaves. The evaluations included cell proliferation (MTT), alkaline phosphatase, RT-PCR analysis for VEGF, BMP-2, RUNX-2, and osteocalcin and von Kossa stain for mineralized nodules. The results showed that shockwaves significantly enhanced the angiogenic and osteogenic effects of BMSCs mediated through the nitric oxide pathway in hips with osteonecrosis.
Increased Interleukin-6 Level in Taiwanese Schizophrenic Patients
Chin-Chuen Lin, MD; Chia-Ming Chang, MD; Pi-Yueh Chang, MS; Tiao-Lai Huang, MD
The serum IL-6, TNF-α, and TGF-β1 levels of 34 acute stage schizophrenic patients and 30 healthy control subjects were collected. These levels were again collected in the 34 patients after 1 month of treatment. ANCOVA adjusted for gender found significantly increased IL-6 levels in the schizophrenic patients compared with the control group (p = 0.02), but there were no significant differences in TNF-α and TGF-β1 levels. After 1 month of medical treatment, there were no significant differences in all markers, although IL-6 appeared to be normalizing. An increase in the IL-6 level may play a role in the pathophysiology of schizophrenia.

Efficacy and Tolerability of Salmeterol/Fluticasone Propionate versus Fluticasone Propionate in Asthma Patients: A Randomized, Double-blind Study
Yu-Sung Lee, MD; Horng-Chyuan Lin, MD; Chien-Da Huang, MD; Kang-Yun Lee, MD, PhD; Chien-Ying Liu, MD; Chih-Teng Yu, MD; Chun-Hua Wang, MD; Han-Pin Kuo, MD, PhD
We conducted a randomized, double-blind study to compare the effectiveness and tolerability of a combination of salmeterol and fluticasone propionate (Seretide 50/250 µg) with fluticasone (FP) 250 µg alone, both administered twice daily in treating patients with mild to moderate asthma. The primary objective was the mean change from baseline in the mean morning peak expiratory flow (PEF) over the two week period. Other parameters included lung function, daily asthma symptom scores, evening PEF, percentage of days free of rescue medication use and daily rescue medication use. Seretide 50/250 µg was safe and effective, and had a high level of patient satisfaction resulting in significantly greater increases in morning PEF and forced expiratory volume in one second (FEV1) compared with the use of FP 250 µg alone.

Effects of Lactoferrin-containing Formula in the Prevention of Enterovirus and Rotavirus Infection and Impact on Serum Cytokine Levels: A Randomized Trial
Meng-Hsiu Yen, MD; Cheng-Hsun Chiu, MD, PhD; Yhu-Chering Huang, MD, PhD; Tzou-Yien Lin, MD
A total of 172 health children aged 2 to 6 year of age completed this prospective randomized single blind trial. The intake of lactoferrin was about 70 mg/day for children receiving oral supplement containing lactoferrin. During the study period the disease burden of EV71 or rotavirus infection was low. There is no significance in incidence of EV71 or rotavirus infection and serum level of INF-γ and IL-10 between children receiving or not receiving oral supplement with lactoferrin. This study indicates that a dose of 70 mg/day lactoferrin supplemented dose not show any benefits in the prevention of EV71 or rotavirus infections.

Woodward Procedure Improves Shoulder Function in Sprengel Deformity
Ka-Kit Siu, MD; Jih-Yang Ko, MD; Chung-Cheng Huang, MD; Feng-Sheng Wang, PhD; June-Ming Chen, MD; To Wong, MD
Sprengel deformity is a congenital failure of descent of the scapula with limited shoulder abduction and a poor cosmetic appearance. Eight patients (9 shoulders) who underwent Woodward procedures were evaluated. After a mean follow-up of 113 ± 29 months, the cosmetic appearance and Cavendish cosmetic grade had improved. The superior displacement ratio was decreased. The height-to-width ratio of the affected scapula was increased and the abduction of the shoulder was improved. The average abduction power of the involved shoulders was not affected. The average Constant score for the operated shoulders was 91.7 ± 4.2 points. The Woodward procedure improves shoulder function and cosmetic appearance.

Autonomic Activity Difference during Continuous Positive Airway Pressure Titration in Patients with Obstructive Sleep Apnea/Hypopnea Syndrome with or without Hypertension
Jen-Hao Cheng, MD; Chung-Ching Hua, MD; Ning-Hung Chen, MD; Yu-Chih Liu, PhD; Chung-Chieh Yu, MD
Both obstructive sleep apnea-hypopnea syndrome (OSAHS) and hypertension are associated with dysfunction in autonomic activity. We compared heart rate variability between hypertensive and normotensive OSAHS patients before and during continuous positive airway pressure (CPAP) titration. Since the reduction in low frequency was statistically significant in the hypertensive group, we conclude that CPAP treatment induced more autonomic activity change in OSAHS patients with hypertension than in those without hypertension.
Higher Serum Potassium Level Associated with Late Stage Chronic Kidney Disease
Ming-Fang Hsieh, MD; I-Wen Wu, MD; Chin-Chan Lee, MD; Shun-Yin Wang; Mai-Szu Wu, MD
The serum potassium (K⁺) level is maintained by normal renal function. Progression of chronic kidney disease (CKD) might be associated with a higher serum K⁺ level, but the average serum K⁺ level at each stage is unclear. We analyzed the average serum potassium level of 531 patients in the late stages of CKD and found that it increased along with the decline of eGFR in the late stages of CKD. The variation in the serum K⁺ level became wider as renal function deteriorated. Male gender, diabetes mellitus, and anemia might also be contributing risk factors for higher serum K⁺ levels in late stage CKD patients.

Clinical Analysis and Strategy for Liver Transplantation in Patients with Pre-existing Portal Vein Thrombosis
Tsung-Han Wu, MD; Yann-Sheng Lin, MD; Chen-Fang Lee, MD; Ting-Jung Wu, MD; Ming-Chin Yu, MD; Kun-Ming Chan, MD; Wei-Chen Lee, MD
Liver transplantation in patients with portal vein thrombosis remains a challenge for transplant surgeons. In the present study, we analyzed patients with pre-existing portal vein thrombosis undergoing liver transplantation, and examined patient outcomes after transplantation. The results suggest that a favorable outcome can only be achieved with ideal surgical management to overcome portal vein thrombosis during liver transplantation. We thus propose a simplified algorithm for the management of portal vein thrombosis during liver transplantation.

Cervical Posterior Triangle Castleman’s Disease in A Child – Case Report & Literature Review
Chien-Yu Lin, MD; Tzu-Chin Huang, MD, MSc
Castleman’s disease (CD) is an uncommon disease. It rarely occurs in the cervical area of children. We report a new case of cervical posterior triangle unicentric CD in a 9-year-old boy. Eventual treatment was by complete excision. At the 3-year follow up, there were no signs of recurrence. We should keep in mind that CD could be a cause of persistent cervical lymphadenopathy in children. Since CD can be unicentric or multicentric, systemic evaluation is recommended for a precise diagnosis and treatment.

The Treatment of Fetishism in An Adolescent with Attention Deficit Hyperactivity Disorder
Hsueh-Ling Chang, MD; Chia-Chi Chow, MSc
Fetishism is characterized by recurrent, intense sexual fantasy or behavior involving the use of nonliving objects, such as women’s undergarments, over a period of at least six months. This disorder occurs mostly in males and usually begins by adolescence. The neurobiological etiologies of fetishism remain unclear, and studies on treatment had been limited. We present a 14-year-old boy with attention deficit hyperactivity disorder with fetishistic behavior who was treated successfully with 36 mg extended-release methylphenidate daily and 4 months of cognitive–rational emotive psychotherapy.

INSTRUCTIONS TO AUTHORS
長庚醫誌

綜說

331 旋轉肌袖疾患合併肩僵直—最新病理機轉及治療趨勢
郭繼陽 王逢興

341 顱面不對稱：原因、檢查、和治療
張有為 羅維洲

352 椎體整型術治療骨質疏鬆壓迫性骨折的現況
陳力輝 賴伯亮 陳文哲

原著

360 生存素於心臟黏液瘤的表現
林益謙 容世明 吳雪華 許慈芳 蔡鍾鈞 朱肇基 林舜章 諸柏顯

367 體外震波增進股骨頭壞死症骨髓幹細胞在試管中的新生血管及骨骼增生效果
鄭宗誠 王清貞 楊崑德 王逢興 孫儀芝

375 台灣精神分裂症患者有較高的第六介白素
林明淳 張家銘 張崇月 黃錦來

382 氣喘病患使用 Salmeterol/Fluticasone Propionate 與 Fluticasone Propionate 的療效與耐受度比較：隨機雙盲研究
李育松 林鴻輝 黃建達 吳美逵 劉劍英 余志賡 王圳華 郭漢彬

395 含乳鐵蛋白之幼兒奶粉於預防腸病毒及輪狀病毒感染之效用：臨床研究
顏盟修 邱政洵 黃玉成 林泰延

403 Woodward 手術法有效改善 Sprengel 氏畸形之肩功能
蕭家傑 郭繼陽 黃宗正 王逢興 陳駿銘 黃浩

410 心律變異度在有高血壓或正常血壓的睡眠呼吸中止症病患接受連續性正壓呼吸滴定時的變化
鄭人豪 花仲樞 陳淳宏 劉育志 千燦傑

418 後期慢性腎臟病相關之高血鉀濃度
謝明芳 吳逸文 李進昌 王秀英 吳多斯

426 肝門靜脈栓塞的病患接受肝葉移植的臨床分析與策略
吳宗翰 林泰Serviço 李正方 吳庭榕 楊明晉 蕭明昆 李威震

病例報告

435 發生於孩童之頸後三角卡索門氏病 (Castleman’s disease) — 病例報告及文獻回顧
林建佑 黃子愷

440 注意力不足過動症合併癲癇症之治療
張學岑 周嘉琪

444 長庚醫誌投稿須知

本誌榮獲83、85-93年度中華民國行政院國家科學委員會優良期刊獎