

Chang Gung Medical Journal

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- 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-1 β 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 Osteogenic 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 promotor). 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.

- 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
The serum IL-6, TNF- α , and TGF- β 1 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- β 1 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.
- 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
We conducted a randomized, double-blind study to compared the effectiveness and tolerability of a combination of salmeterol and fluticasone propionate (Seretide 50/250 μ g) with fluticasone (FP) 250 μ g alone, both administrated 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 μ g 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 μ g alone.
- 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
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 ortavirus 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.
- 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
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.
- 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
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.

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

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.

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

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.

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

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.

440 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.

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