

# Chang Gung Medical Journal

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### REVIEW ARTICLES

- 469** **New Insights into the Role of the Ubiquitin-proteasome Pathway in the Regulation of Apoptosis**  
Cui-Hua Liu, PhD; Alfred L. Goldberg, PhD; Xiao-Bo Qiu, PhD  
The ubiquitin-proteasome pathway (UPP) is the major system responsible for degradation of intracellular proteins in eukaryotes, and regulates almost all of the cellular activities. UPP is composed of the ubiquitination system that marks proteins for degradation and the proteasome which degrades the ubiquitinated proteins. In this review, we attempt to highlight the recent progress in research on UPP and its role in the regulation of apoptosis by focusing on several of its important components, including the ubiquitin ligase Nrdp1, the ubiquitin-carrier protein BRUCE/Apollon (an Inhibitor of Apoptosis Protein), and the novel proteasome subunit hRpn13.
- 480** **Surgical Treatment of Posterior Cruciate Ligament Injury**  
Chih-Hwa Chen, MD  
Variables that affect the results of restoring posterior cruciate ligament function include combined associated ligaments injury, difficulty to duplicate posterior cruciate ligament (PCL) anatomy, wide variation in femoral insertion footprint, difficulty in accurate placement of tunnel, high internal graft stresses and graft elongation. Surgical reconstruction is indicated for symptomatic severe posterior knee instability and multiple ligament injuries. Controversy continues over the choice of graft tissue, one or two bundle reconstruction, location of tunnel placement, knee position when securing the graft, and fixation technique. From the accumulated clinical experience, we have developed various surgical techniques to improve the outcomes of reconstruction.

### ORIGINAL ARTICLES

- 493** **Unusual Increase of Vancomycin-resistant *Enterococcus faecium* but not *Enterococcus faecalis* at a University Hospital in Taiwan**  
Ping-Cherng Chiang, MD; Tsu-Lan Wu, MS; Jiunn-Yih Su, MD; Yhu-Chering Huang, MD, PhD; Yueh-Pi Chiu, MS; Ju-Hsin Chia, MS; An-Jing Kuo, MS; Lin-Hui Su, MS  
An unusual increase of vancomycin-resistant *Enterococcus faecium* at a university hospital in Taiwan was investigated in this study. Multivariate analysis revealed that prior use of imipenem or clindamycin, positive urine cultures and penicillin resistance were significantly associated with the infections caused by vancomycin-resistant *E. faecium*. Genotyping analysis demonstrated a predominant genotype in 71 (83.5%) of the *E. faecium* isolates. Up to the end of 2005, primary efforts to restrict imipenem usage and reinforce infection control measures have reduced by half the infections caused by vancomycin-resistant *E. faecium*.
- 504** **Periacetabular Osteotomy for Painful Non-paralytic Dysplastic Hip Joints in Adults Affected by Poliomyelitis**  
Tzu-Ping Lin, MD; Jih-Yang Ko, MD; Sung-Hsiung Chen, MD; Re-Wen Wu, MD; To Wong, MD; Wen-Yi Chou, MD  
Periacetabular osteotomy was performed on eight non-paralytic hip joints via a modified Ollier transtrochanteric approach. At an average follow-up of  $9.0 \pm 3.8$  years, six patients (75%) had satisfactory results, two patients (25%) had unsatisfactory results. The degree of osteoarthritis remained unchanged in seven hip joints (87.5%), and got worse in one (12.5%). Periacetabular osteotomy through a modified Ollier transtrochanteric approach provides extensive correction and relief of symptoms in most painful non-paralytic dysplastic hip joints in adults affected by poliomyelitis.
- 513** **Hospital Course and Early Clinical Outcomes of Two-incision Total Hip Arthroplasty**  
Meng-Ling Lu, MD; Shih-Wei Chou, MD, PhD; Wen-E Yang, MD; Vinesh Senan, MD; Pang-Hsing Hsieh, MD; Hsin-Nung Shih, MD; Mel S. Lee, MD, PhD  
This study analyzed the hospital course and early clinical outcomes of a series of 63 two-incision total hip arthroplasties. The mean operation time, blood loss, wound length, and hospital stay were 151 minutes, 700 ml, 9.9 cm, and 5 days, respectively. The mean cup abduction angle was  $42.9^\circ$  and the mean cup anteversion angle was  $17.9^\circ$ . The majority of patients recovered quickly with satisfactory functional results. We suggest using the minimally invasive approach for total hip arthroplasty based on the encouraging clinical outcomes from this study.

**521 Forecasting the Declining Rate of Chronic Hepatitis-B Carrier Status at a Taiwanese University: Twenty Years after Implementation of an Universal HBV Vaccination Program in Taiwan**

Fu-Hsiung Su, BMBS; Hsiao-Yun Huang, PhD; Hong-Jer Chang, PhD; Jin-Ju Jeng, BS; Yi-Hui Liu, BA; Chih-Dao Chen, MD

This study used regression methods and a time series model to forecast trends in hepatitis B virus (HBV) carrier rates at a Taiwanese university. From the year 2000 to 2004, 28,763 students were tested for HBV surface antigen status and grouped according to 10 birth cohorts. A decreasing trend in the HBV carrier rate among students was observed. We predict the rate of chronic HBV infection would approach a minimal level in the year 2006. Our data projected that the universal vaccination program would need to continue for at least 21 years in order for the HBV carrier rate to reach zero.

**529 Cleft Oronasal Fistula: A Review of Treatment Results and A Surgical Management Algorithm Proposal**

Enrina Diah, MD; Lun-Jou Lo, MD; Claudia Yun, MA; Ruby Wang, MA; Luh K. Wahyuni, MD; Yu-Ray Chen, MD

Sixty-four cleft patients were reviewed for outcome after surgical intervention for oronasal fistula. Local flap and two-flap palatoplasty were the most common techniques used for closure of the fistula. Twenty-five percent of patients needed more than one repair. The overall fistula closure success rate was 90.5%. Speech function improved from 26.8% before treatment to 64.3% after treatment with adequate velopharyngeal closure.

**538 Comparison of the Effects of Sibutramine and Orlistat on Obese, Poorly-Controlled Type 2 Diabetic Patients**

Kuei-Mei Chou, MD; Be-Yi Huang, MD; Jen-kuang Fanchiang, MD; Chih-Hung Chen, MD

To assess the influence of anti-obesity agents (sibutramine and orlistat) on glucose, lipid parameters and insulin sensitivity, this study enrolled 34 participants in a weight-reduction program. They were categorized into a group of 20 who were treated with sibutramine 10 mg/day and a group of 14 who were treated with orlistat 120 mg tid/day for 3 months. They then entered a 3-month wash-out period and switched the anti-obesity agent for another 3 months. The sibutramine group had greater reduction in weight than the orlistat group after 3 months on the program. However, no significant differences in lipid, glucose control and waist circumference were found between the 2 groups.

**547 Sonographic Features of Soft Tissue Tumors in the Hand and Forearm**

Ju-Wen Cheng, MD; Simon F. T. Tang, MD; Tung-Yang Yu, MD; Shih-Wei Chou, MD, PhD; Alice M. K. Wong, MD; Wen-Chung Tsai, MD, PhD

Thirty-one soft tissue tumors were evaluated by ultrasound. Pathologic diagnoses obtained after subsequent surgery were lipoma, ganglion cyst, neurilemmoma, neurofibroma, giant cell tumor, tenosynovitis, and malignant lymphoma. An adjacent tendon or communication duct extending to the joint space could be found in most giant cell tumors and ganglion cysts. A traceable nerve could be found in most nerve sheath tumors. The only malignant tumor appeared ill-defined without a color Doppler signal. Ultrasonography could be a valuable tool for preoperative evaluation of soft tissue tumors of the hand and forearm.

**CASE REPORT**

**555 Schwannoma of the Penis: A Report of Two Cases**

Chi-Ju Yeh, MD; Wen-Yu Chuang, MD; Shih-Tsung Huang, MD; Shih-Ming Jung, MD

Schwannomas of the penis are extremely rare. Only 18 cases of penile schwannomas have been reported previously in the English-language literature. Here we report two additional cases of penile schwannomas, including one case of multiple penile schwannomas. Penile schwannomas tend to occur on the dorsal penile shaft, the location of the penile dorsal nerves. Multiple tumors have been noted in 30% of the cases, whereas most schwannomas at other locations present as a single tumor. No reported patients had malignant transformation, but two patients experienced recurrence. Simple excision with follow up should be the treatment of choice.

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