

# Chang Gung Medical Journal

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### REVIEW ARTICLES

- 525 Toll-like Receptors and Renal Bacterial Infections**  
Alain Vandewalle, MD, PhD  
Toll-like receptors (TLRs) which recognize specific molecular patterns of pathogens are essential components of innate immunity, the first line of defense against invading pathogens. This review summarizes some aspects of the functions of the TLRs expressed in the kidney, particularly in renal tubule epithelial cells, and their role in host defense during urinary tract infection and pyelonephritis most frequently due to uropathogenic *Escherichia coli*.
- 538 Surgical Treatment of Atrial Fibrillation with Concomitant Mitral Valve Disease: An Asian Review**  
Mien-Cheng Chen, MD; Jen-Ping Chang, MD; Yung-Lung Chen, MD  
The Cox maze III procedure is the first effective operation for atrial fibrillation (AF) and is recognized as the gold standard therapy for atrial fibrillation associated with organic heart disease. Several groups in Asia have successfully developed less invasive approaches using a number of different energy sources to create continuous lines of ablation to replace the surgical incisions with results similar to those with the Cox maze III procedure. The preoperative left atrial size and duration of atrial fibrillation are primary predictors of sinus conversion by the maze procedure using saline-irrigated unipolar radiofrequency energy for patients with persistent AF and mitral valve disease.

### ORIGINAL ARTICLES

- 546 Cocktail Therapy for Hip Necrosis in SARS Patients**  
To Wong, MD; Ching-Jen Wang, MD; Shan-Lin Hsu, MD; Wen-Yi Chou, MD; Po-Chun Lin, MD; Chung-Cheng Huang, MD  
There are no treatment guidelines for hip necrosis in severe acute respiratory syndrome (SARS) patients. Eight hips developed osteonecrosis of the femoral head after administration of corticosteroids in the treatment of SARS. A new regimen of cocktail therapy that included extracorporeal shockwave therapy (ESWT), hyperbaric oxygen therapy (HBO) and oral alendronate was utilized. At the 4-year follow up, significant improvement in the pain score and functional score were observed and no surgery was needed in all cases ( $p < 0.001$ ). All patients were able to return to work. In conclusion, cocktail therapy delayed the disease progression in SARS-associated femoral head necrosis in the short term.
- 554 The Prevalence of Group A Beta-hemolytic *Streptococcus* in Healthy Turkish Children in Day-care Centers in Ankara**  
Irfan Sevinc, VMD; Murat Enoz, MD  
Our aim is to investigate the carrier rates of group A beta-hemolytic *Streptococci* (GAS) in various seasons of the year in the upper respiratory tract in healthy children. In this descriptive study, a total of 1893 throat swabs obtained from healthy children were screened for beta-hemolytic *Streptococci* in Ankara, Turkey. A total of 61 isolates of beta-hemolytic *Streptococci* were obtained. The rate of isolation was 1.03% in spring, 1.2% in summer, 2.26% in winter, and 4.08% in autumn. The GAS carrier rate was highest in autumn in healthy children.
- 559 A Randomized Study of Gemcitabine plus Cisplatin and Vinorelbine plus Cisplatin in Patients with Advanced Non-small-cell Lung Cancer**  
John Wen-Cheng Chang, MD; Thomas Chang-Yao Tsao, MD, PhD; Cheng-Ta Yang, MD; Meng-Chih Lin, MD; Yun-Chung Cheung, MD; Chung-Chi Liaw, MD; Chih-Hung Chen, MD  
Gemcitabine plus cisplatin (GC) and vinorelbine plus cisplatin (VC) are active and well-tolerated regimens for advanced non-small cell lung cancer (NSCLC). Response rates were 38% and 31% and median survivals were 12.9 and 9.0 months in the 34 patients of the GC arm and 39 patients of the VC arm, respectively. One-year survival rates were respectively 55.9% in the GC arm and 33.3% in the VC arm. The efficacies exhibited by both regimens were observed to be of a similar degree.
- 567 Web-based Clinical Pathway for Reducing Practice Variations in Radical Prostatectomy**  
Yu-Chao Hsu, MD; Ke-Hung Tsui, MD; Chien-Lun Chen, MD; Sheng-Hui Lee, MD; Ya-Shen Wu, MD; Phei-Lang Chang, MD  
The clinical pathway is a clinical method to reduce practice variations and improve the quality of care. The web-based clinical pathway eliminates most of the variation by monitoring practice variance on the web in real time. The

benefits of reduced hospital stay are significant. Because of the characteristic of real time monitoring, it is very convenient to modify and create a new pathway for better results.

- 576 Muscular Recovery of Hip Flexors and Extensors after Two-incision Total Hip Arthroplasty**  
Shih-Wei Chou, MD, PhD; Steve WN Ueng, MD; Mel S. Lee, MD, PhD  
The influence of two-incision total hip arthroplasty (THA) on the muscular function was studied using a cybex dynamometer. It was found the muscle torque improved from 0.51 (preoperative) to 0.68 Ft-Lbs/Lbs at 6 weeks. ( $p = 0.007$ ) However, this improvement was contributed by the flexors but not the extensors. In contrast, the extensors torques significantly decreased to 86%, 78%, and 63% at the angular velocity of 60°/min, 90°/min, and 180°/min, respectively. The causes for the delayed recovery could be related to surgical techniques during femoral canal preparation and stem implantation.
- 583 Two-stage Revision of Infected Total Knee Arthroplasty Using an Antibiotic-impregnated Static Cement-spacer**  
Chi-Shiung Hsu, MD; Chia-Chen Hsu, MD; Jun-Wen Wang, MD; Po-Chun Lin, MD  
Thirty-one patients (32 knees) with an infected total knee arthroplasty had a two-stage reimplantation with a static antibiotic-impregnated cement spacer. Twenty-seven patients (28 knees) were available for clinical evaluation at a mean of 68.3 months. Twenty-four knees (86%) were free of recurrent infection. There was significant improvement in both knee and functional scores as well as knee motion after reimplantation. However, of 12 knees with a V-Y quadricepsplasty, 3 developed an extension lag from 20° to 45° and three had a patella baja postoperatively. Weakness of the extensor mechanism associated with a V-Y quadricepsplasty because of difficulty in surgical exposure at revision is of great concern.
- 592 The Effects of CAM Vision Stimulator for Bilateral Amblyopia of Different Etiologies**  
Hsiu-Mei Huang, MD; Hsi-Kung Kuo, MD; Po-Chiung Fang, MD; Hsiu-Fen Lin, MD; Pei-Wen Lin, MD; Sue-Ann Lin, MD  
The 105 children enrolled in the retrospective study were all younger than 7 years old and had bilateral amblyopia. All children wearing full-correction glasses regularly received CAM treatment once per week. The major cause of bilateral amblyopia was refractive error. The myopic group showed significantly poorer visual outcomes than the other children after CAM treatment ( $p < 0.05$ ). Older patients, and those with better initial best corrected visual acuity had better visual outcomes. Therefore, CAM treatment for bilateral amblyopia can achieve satisfactory improvement in 3 months in most instances.
- 599 Intrahepatic Sarcomatoid Cholangiocarcinoma: Clinical Analysis of Seven Cases during a 15-year Period**  
Yung-Kuan Tsou, MD; Ren-Chin Wu, MD; Chien-Fu Hung, MD; Ching-Song Lee, MD  
The clinicopathological features of intrahepatic sarcomatoid cholangiocarcinoma are largely unknown and we report seven cases to clarify its clinicopathological characteristics. Intrahepatic sarcomatoid cholangiocarcinoma is a rare but aggressive malignancy. Diagnosis is only possible by pathology and immunohistochemical study since clinicomorphological findings are not disease-specific. Early detection and complete resection of the tumor offer the only chance for long term survival.

## CASE REPORTS

- 606 Good Response to Gefitinib for Lung Adenocarcinoma with Hyperamylasemia: A Case Report**  
How-Wen Ko, MD; Ying-Huang Tsai, MD; Chih-Teng Yu, MD; Chun-Yao Huang, MD; Chih-Hung Chen, MD  
Hyperamylasemia in patients with bronchogenic carcinoma has been reported rarely. Gefitinib, an oral tyrosine kinase inhibitor of epidermal growth factor receptor (EGFR) signaling, has shown activity for treating patients with refractory advanced non-small-cell lung cancer (NSCLC). This report describes a patient with lung adenocarcinoma with hyperamylasemia who was successfully treated with gefitinib. We suggest that treatment with gefitinib is an effective therapeutic option for this rare patient subset.
- 612 Massive Lower Gastrointestinal Bleeding from an External Iliac Artery Fistula in a Patient with Bladder Cancer**  
Chih-Chien Chin, MD; Chien-Yuh Yeh, MD; Yi-Hung Kuo, MD; Jeng-Yi Wang, MD  
Arterioenteric fistula is a rare cause of lower gastrointestinal bleeding, yet it can potentially cause massive, life-threatening bleeding. Patients with an advanced pelvic malignancy can develop hemorrhage from an arterioenteric fistula. Selective mesenteric angiography is unable to demonstrate the source of bleeding in these patients, so evaluation of the iliac arteries is essential. We present a 67-year old man with advanced bladder cancer presenting as massive, life-threatening lower gastrointestinal bleeding from an external iliac arterial fistula to the cecum.
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