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REVIEW ARTICLES

- 197 Phosphodiesterase 4 and Its Inhibitors in Inflammatory Diseases**
S.-L. Catherine Jin, PhD; Shiau-Li Ding, MS; Shih-Chang Lin, MD, PhD
PDE4 isozymes play a critical role in regulation of 3',5'-cyclic adenosine monophosphate (cAMP) levels in almost all inflammatory cells. Activation of cAMP signaling by inhibition of PDE4 attenuates a myriad of inflammatory responses in these cells. PDE4 inhibitors have been in development for therapy for asthma, chronic obstructive pulmonary disease (COPD), and other inflammatory diseases for more than two decades. Roflumilast, recently approved as a novel anti-inflammatory drug for severe COPD, is the first PDE4 inhibitor being marketed. A major problem for development of PDE4 inhibitors is their side effects such as nausea and emesis. Several strategies are being proposed to improve the therapeutic index of PDE4 inhibitors, such as PDE4B subtype selectivity and delivery via inhalation or topical application.
- 211 Amyloid Plaque Imaging from IMPY/SPECT to AV-45/PET**
Mei-Ping Kung, PhD; Chi-Chang Weng, MSc; Kun-Ju Lin, MD, PhD; Ing-Tsung Hsiao, PhD;
Tzu-Chen Yen, MD, PhD; Shiau-Pyng Wey, PhD
The formation and deposition of β -amyloid ($A\beta$) plaques are the earliest pathological changes in Alzheimer's disease (AD). Molecular imaging of $A\beta$ plaques could serve as a surrogate marker in early diagnosis and neuropathogenesis studies of AD. Several radionuclide labeled ligands have recently been developed for noninvasive visualization of $A\beta$ plaques in the brains of AD patients using single photon emission computed tomography or positron emission tomography. This review presents recent experience with $A\beta$ -targeting radiotracers at Chang Gung University and Chang Gung Memorial Hospital.
- 219 Optimizing Aesthetic and Functional Outcomes at Donor Sites**
Seng-Feng Jeng, MD, FACS; Ngian Chye Tan, MBBS, FRCSEd (Gen)
As the success rates of free tissue transfers have exceeded more than 95% in most microsurgical centers, there has been increasing interest in improving the aesthetic and functional outcomes of donor sites. In this review article, the importance of donor site outcomes in reconstructive surgery is highlighted. In addition, various principles and techniques to minimize donor site morbidity are illustrated. We hope more can be done to improve overall donor site outcomes in the future.

ORIGINAL ARTICLES

- 231 Antiviral Activity of Liquorice Powder Extract against Varicella Zoster Virus Isolated from Egyptian Patients**
Rania I. Shebl, MSc; Magdy A. Amin, PhD; Amal Emad-Eldin, PhD; Saad M. Bin Dajem, PhD;
Amal S. Mostafa, PhD; Essam H. Ibrahim, PhD; Aly F. Mohamed, PhD
Varicella-zoster virus (VZV) specimens from infected children were isolated on the Vero cell line. Isolates were propagated and identified with specific antiserum using immunologic assays. The growth kinetics of the viral isolates were time dependent. The inhibitory activity of liquorice powder extract containing 125 μ g/ml glycyrrhizin, acyclovir 250 μ g/ml and IFN- α 2a 10 ng/ml was 10%, 80% and 100%, respectively. In conclusion growth kinetics of the isolates increase the viral infectivity titer relative to time. Glycyrrhizin in the crude form has low antiviral activity against VZV compared with acyclovir and interferon.
- 240 Clinical Utility of Histological Examination of Gastric Ulcer Margin to Diagnose Helicobacter Pylori Infection**
Mu-Shien Lee, MD; Chi-Ju Yeh, MD; Hsing-Yu Chen, MD; Yung-Kuan Tsou, MD;
Cheng-Hui Lin, MD; Jau-Min Lien, MD
Histology examination of gastric ulcer margins (HEUM) can be used to detect *H. pylori* infection but the accuracy of this test remains unknown. We retrospectively studied 284 gastric ulcer patients who underwent concomitant HEUM and a rapid urease test (RUT). The overall detection rates of *H. pylori* infection on the initial HEUM, revised HEUM and RUT were 78.0% (128/164), 89.0% (146/164), and 94.5% (155/164), respectively. Our results also showed that HEUM is less sensitive in detecting *H. pylori* infection when the ulcers were in the proximal stomach, the ulcers were malignant, or when slides were interpreted by pathologists in a rotating manner.
- 247 Adjuvant and Salvage Radiotherapy for Urothelial Cell Carcinoma of the Upper Urinary Tract: Experience in A Single Institution**
Kang-Hsing Fan, MD; Yen-Chao Chen, MD; Wei-Man Leung, MD;
Cheng-Keng Chuang, MD, PhD; See-Tong Pang, MD, PhD; Ji-Hong Hong, MD, PhD

To review the results of radiotherapy (RT) for upper urinary tract urothelial cell carcinoma after surgery, we collected data from 40 patients who were treated by external beam RT either as adjuvant treatment or salvage after recurrence. We found that adjuvant and salvage RT were both effective. The 3-year overall survival was better in adjuvant RT (45%) than salvage RT (16%). The 3-year overall survival improved with a prescription dose \geq 50 Gy (38% vs 18%).

255 Comparison of Central Corneal Thickness Measurements by Ultrasonic Pachymetry, Orbscan II, and SP3000P in Eyes with Glaucoma or Glaucoma Suspect

Tsung-Ho Ou, MD; Ing-Chou Lai, MD; Mei-Ching Teng, MD

In this study, we compared the correlation of central corneal thickness (CCT) measurements between each of 3 devices in eyes with glaucoma or glaucoma suspect. There were significantly good linear correlations between them, especially in the cases with intermediate and thick CCTs. These results will be helpful in predicting the relationship between intraocular pressure and CCT for the diagnosis and screening of glaucoma.

263 Classification and Analysis of Pathology of the Long Head of the Biceps Tendon in Complete Rotator Cuff Tears

Chien-Hao Chen, MD; Chih-Hwa Chen, MD; Chih-Hsiang Chang, MD; Chun-I Su, MD; Kun-Chung Wang, MD; I-Chun Wang, MD; Hsien-Tao Liu, MD; Chung-Ming Yu, MD; Kuo-Yao Hsu, MD

We retrospectively collected the arthroscopic findings in repair of rotator cuff tears (RCTs) and proposed a modified classification to describe pathology of the long head of the biceps tendon (LHB), including tendonitis, subluxation, dislocation, partial tear, complete rupture, and superior labral anterior-posterior (SLAP) lesions. The incidence of concomitant LHB pathology in RCTs was 82%, and was even significantly higher in chronic, massive, and multiple or subscapularis tendon-involved RCTs. The incidence of SLAP lesions in RCTs was 6%. In evaluating LHB integrity during RCT repair, surgeons should not miss lesions at the anchor of the LHB or labrum.

271 Acute Clinical Deterioration of Posterior Fossa Epidural Hematoma: Clinical Features, Risk Factors and Outcome

Tsung-Ming Su, MD; Tsung-Han Lee, MD; Tao-Chen Lee, MD; Ching-Hsiao Cheng, MD; Cheng-Hsien Lu, MD

This study aimed to present our experience in treating patients with posterior fossa epidural hematoma (PFEDH) and to discuss the risk factors, clinical features, and outcome in PFEDH patients with acute clinical deterioration (ACD). Eight of 27 patients treated conservatively subsequently experienced ACD. Local traumatic findings, loss of consciousness due to injury, headache, and vomiting were common clinical features in the 27 cases. Seven of the 8 patients with ACD had good recoveries, and 1 died. Eighteen of the 19 patients without ACD had good recoveries while 1 remained moderately disabled. Statistical analysis demonstrated that an occipital fracture across the transverse sinus on computed tomography and vomiting on presentation were risk factors for ACD during hospitalization. PFEDH patients including those with ACD had good outcomes. Further studies are necessary to clarify the clinical course and risk factors for the clinical deterioration of PFEDH patients and to establish a treatment strategy.

CASE REPORTS

281 Variant Origins of Arteries in the Carotid Triangle - A Case Report

B. V. Murlimanju, MD; Latha V. Prabhu, MS; Mangala M. Pai, MD; Dhanya Jayaprakash, MBBS; Vasudha V. Saralaya, MS

This is an anatomical case report of arterial variations in the carotid triangle in the neck. In the present case, the superior thyroid artery arose from the common carotid artery instead of its usual origin from the external carotid artery. Also, the superior laryngeal artery originated from the external carotid artery instead of the superior thyroid artery. We believe that knowledge of these arterial variations is important for surgeons and radiologists, as rupture of arteries in the carotid triangle might be life threatening.

285 Hepatoid Microcarcinoma of the Pancreas: A Case Report and Review of the Literature

Shih-Chiang Huang, MD; Hao-Cheng Chang, MD; Ta-Sen Yeh, MD; Kwai-Fong Ng, MD; Tse-Ching Chen, MD, PhD

Hepatoid differentiation in pancreatic carcinoma is a rare phenomenon. Pure hepatoid carcinoma is exceedingly rare. Herein, we report a pancreatic pure hepatoid microcarcinoma in a 52-year-old man with ampullary large cell neuroendocrine carcinoma. We summarize the clinicopathological features and discuss the histogenesis of pancreatic pure hepatoid carcinoma.

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