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CONTENTS

REVIEW ARTICLE

369 **Antioxidants and Myocardial Ischemia: Reperfusion Injuries**

Jan-Kan Chen, PhD; Shu-Er Chow, PhD

Reactive oxygen species (ROS) and cellular redox status regulate many important cellular activities. The role of antioxidant as a therapy for reperfusion injury has thus been tried with mixed and mostly negative results. Further studies are needed if the antioxidant therapies for ischemia reperfusion injury were to be effective.

ORIGINAL ARTICLES

378 **Clinical Relevance of Nonvisualized Sentinel Lymph Nodes in Unselected Breast Cancer Patients during Lymphoscintigraphy**

Yung-Feng Lo, MD; Swee Hsueh, MD; Shih-Ya Ma, MD; Shin-Cheh Chen, MD; Miin-Fu Chen, MD

Preoperative nonvisualized sentinel nodes during lymphoscintigraphy results in sentinel node biopsy failure. This study enrolled two hundred thirty-two unselected breast cancer patients who had underwent preoperative lymphoscintigraphy. The sentinel node was nonvisualized in twenty-seven cases (11.6%). Tumor size and axillary node metastasis were factors significantly correlated with nonvisualized sentinel node in univariate analysis. Multivariate analysis demonstrated that more than three axillary nodes metastases were independent factors associated with nonvisualized sentinel node.

387 **Lung Cancer at a Medical Center in Southern Taiwan**

Yang-Ching Ko; Jui-Long Wang; Chao-Chien Wu; Wan-Ting Huang; Meng-Chih Lin

In this study, we report our 2-year interval experience in epidemiological studies of lung cancer. Five hundreds and ninety lung cancer patients admitted to Kaohsiung Chang-Gung Memorial Hospital in 1997 and 2002 were included in this study. A retrospective investigation confirmed age-adjusted incidence rate and demographic differences in lung cancer distribution by different histological types for both genders. The age-adjusted rates of total lung cancer patients decreased by 3.64%, whereas it decreased by 31.2% for squamous cell carcinoma, and it increased by 1.62% for adenocarcinoma and by 8.18% for SCLC. Female patients were found to be younger and had longer survival duration. The frequency of lesion sites for all lung cancer patients was the highest in the upper lobe. Early-staging and 6-months survival rate did not change appreciably during the study period, suggesting that prevention, early diagnosis or treatment need further improvement.

396 **Efficacy of Ultrasound-Guided Axillary Brachial Plexus Block: A Comparative Study with Nerve Stimulator-Guided Method**

Fu-Chao Liu, MD; Jiin-Tarnng Liou, MD; Yung-Fong Tsai, MD; Allen H. Li, MD, PhD; Yuan-Yi Day, MD, PhD; Yu-Ling Hui, MD; Ping-Wing Lui, MD, PhD

Ninety patients scheduled for forearm or hand surgery were randomly allocated into three groups and received brachial axillary plexus block under ultrasound or nerve stimulator guidance. The efficacy of the axillary brachial plexus block was compared. Ultrasound-guided axillary brachial plexus block, using either the single- or double-injection technique, provided excellent sensory and motor blockade with fewer adverse events.

403 **The Effect of Luting Agents on the Retention of Dental Implant-Supported Crowns**

Yu-Hwa Pan, DDS, MS; Ching-Kai Lin, DDS

The purpose of this study was to evaluate the retentive strength of 7 luting agent combinations including

definitive and provisional cements on cement-retained implant abutment/analog assemblies. Results show that there were significant differences in cement failure loads among the various cements tested. Values significantly differed among 4 groups consisting of All-Bond 2 and Panavia F resin cements, zinc phosphate cement and Advance hybrid ionomer cement, Durelon carboxylate cement, and ImProv and Temp Bond provisional cements ($p < 0.0001$). All-Bond 2 and Panavia F resin cements had statistically significantly higher cement failure load values compared to the other 5 types of cements.

411 Resection Arthrodesis of the Knee for Osteosarcoma: An Alternative When Mobile Joint Reconstruction Is Not Feasible

Hsin-Nung Shih, MD; Lih-Yuann Shih, MD

Wide resection and mobile joint reconstruction are preferable for treating an osteosarcoma around the knee. We report on 36 such patients treated with resection arthrodesis. The indications included extensive tumor involvement and inappropriate previous treatment which precluded mobile joint reconstruction. The local recurrence rate was 11.1%, the 5-year survival rate was 39%, and the major complication rate was 29%. The importance of early and proper planning of treatment cannot be overstressed when treating osteosarcomas. Resection arthrodesis offers a durable reconstruction alternative to amputation in a special group of patients when extensive resection precludes mobile joint reconstruction.

CASE REPORTS

421 Anorectal-Vestibular Fistula without an Imperforate Anus in Female Infants: Report of Three Cases

Yuan-Shun Lee, MD; Shih-Ming Chu, MD; Chih-Cheng Luo, MD; Chen-Shen Hwang, MD; Chuen Hsueh, MD

An anorectal-vestibular fistula without an imperforate anus in female infants is a rare clinical condition. This report is based on a series of 3 female infants who had fistulous communication between the bowel and the vestibule coexisting with a normal anus. Based on our experience, 2-stage surgery with an initial double-barrel colostomy followed by a sequential fistulectomy might be safe and curative.

425 Catheter Fracture and Cardiac Migration- An Unusual Fracture Site of Totally Implantable Venous Devices: Report of Two Cases

Chia-Lo Chang, MD; Hong-Hwa Chen, MD; Shung-Eing Lin, MD

Totally implantable venous devices (TIVDs) are being used increasingly in patients with cancers and other debilitating diseases requiring long-term chemotherapy, total parental nutrition, and fluid replacement. There are many acute and chronic complications associated with catheters implantations. Catheter fractures and cardiac migrations are rare complications. We present unusual fracture sites and discuss the clinical implications.

431 Idiopathic Granulomatous Mastitis: A Case Successfully Treated with a Minimum Dose of a Steroid

Fu-Hsiung Su, BMBS; Shu-Chen Liu, MD; Jeng-Hung Suen, MD; Dar-Shin Chen, MD; Sister Mary Ann Lou MD, FACS

Idiopathic granulomatous mastitis (IGM) is a relatively rare and benign breast disease. The suggestive treatment options for IGM in the past were surgical intervention and/or an empirical steroid regimen. We present a case of a female with IGM who was successfully treated with a minimum dose of a steroid.

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