

Chang Gung Medical Journal

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REVIEW ARTICLES

- 189 Carbohydrate Antigen Sialyl Lewis a – Its Pathophysiological Significance and Induction Mechanism in Cancer Progression**
Reiji Kannagi, MD, PhD
Carbohydrate antigen sialyl Lewis a (CA19-9) is the most frequently applied serum tumor marker for diagnosis of cancers in the digestive organs. The epigenetic silencing of glycogenes through DNA methylation and/or histone modification in the early stages, and natural selection through acquisition of hypoxia resistance in the advanced stages of cancers, are two major factors that confer cancer-associated expression of sialyl Lewis a.
- 210 *Salmonella*: Clinical Importance and Evolution of Nomenclature**
Lin-Hui Su, MS; Cheng-Hsun Chiu, MD, PhD
Salmonella has been recognized as an important pathogen for more than a century. Despite accumulated knowledge on this organism, the nomenclature system of *Salmonella* remains unfamiliar to clinicians. The present report aims to provide an overview of the evolving nomenclature as well as the most up-to-date medical information on this organism.

ORIGINAL ARTICLES

- 220 A Birthmark Survey in 500 Newborns: Clinical Observation in Two Northern Taiwan Medical Center Nurseries**
I-Hsin Shih, MD; Jing-Yi Lin, MD; Chien-Hsun Chen, MD; Hong-Shang Hong, MD, PhD
We studied the prevalence of birthmarks in 500 newborns born in two northern Taiwan medical center nurseries. Two cases (0.4%) of newborns had nevus depigmentosus which has not been reported before. We also analyzed the statistical differences of prevalence of the salmon patch between the genders and maturity of newborns and discussed the time point of examination and its possible influence on the birthmark prevalence.
- 226 Transforaminal Percutaneous Endoscopic Lumbar Discectomy**
Wen-Ching Tzaan, MD
A retrospective study of 142 Transforaminal Percutaneous Endoscopic Lumbar Discectomy (TPELD) was conducted on 134 consecutive patients from 2001 through 2005. The inclusion criteria for patients were those who had leg pain with or without low back pain and magnetic resonance imaging (MRI) that revealed soft contained or noncontained but contiguous lumbar disc herniation (LDH). The percentage of successful outcomes (excellent or good) was 89%. In conclusion, in experienced hands, TPELD is minimally invasive, safe and effective for treating soft contained or noncontained but contiguous LDH.
- 235 Percutaneous Transluminal Angioplasty to Left Internal Mammary Artery Grafts: Immediate and Long-term Clinical Outcomes**
Wei-Chin Hung, MD; Chiung-Jen Wu, MD; Hon-Kan Yip, MD; Chih-Yuan Fang, MD; Chi-Ling Hang, MD; Shyh-Ming Chen, MD; Mien-Cheng Chen, MD; Teng-Hung Yu, MD; Chao-Ping Wang, MD; Yuan-Kai Hsieh, MD
A review of our institutional database yielded 13 cases of left internal mammary graft anastomosis site stenosis treated with percutaneous transluminal intervention. The procedures were successful in 12 cases (92%) and angiographic restenoses were noted in two of ten patients (20%). Mean clinical follow-up was 34.5 ± 20.9 months; one patient expired and repeat revascularization was required in two cases. Based on these results, we conclude that the procedure is safe and effective when performed by an experienced cardiologist.
- 242 Antithyroid Drug-induced Agranulocytosis: Report of 13 Cases**
Chung-Huei Huang, MD; Kay-Lun Li, MD; Jin-Hou Wu, MD; Po-Nan Wang, MD; Jyuhn-Huarng Juang, MD

Antithyroid drug (ATD)-induced agranulocytosis is rare but it may cause fatal complications. Thirteen cases of agranulocytosis induced by ATD were reviewed from the last 15 years. The incidence of ATD-induced agranulocytosis was 0.17%. In addition, we have also previously reported 11 similar cases in the past 10 years. We, therefore, suggest that both clinicians and patients should be alert to this rare adverse effect, based on 25 years experience, whenever symptoms such as the "common cold" occur during treatment with ATD, especially within the first 3 months of medication.

249 Phase II Study of a Biweekly Regimen of Vinorelbine and Cisplatin in Advanced Non-small Cell Lung Cancer

Chih-Hung Chen, MD; Chih-Ming Lin, MD; Kuo-Chin Kao, MD; John WC Chang, MD; Thomas C. Y. Tsao, PhD

Forty-three patients with stage IIIB with pleural effusion or stage IV non-small cell lung cancer (NSCLC) were enrolled for this study. Vinorelbine 30 or 35 mg/m² and cisplatin 50 mg/m² were given every 2 weeks. Of the 43 assessable patients, 11 achieved a partial response. Overall response was 25.6%. Median survival was 9.0 months and the 1-year survival rate was 32.6%. Twenty-four patients (55.8%) developed grade 3/4 neutropenia. Eight patients developed febrile neutropenia. This biweekly regimen of vinorelbine and cisplatin is effective, and its dose intensity is less than that of a conventional schedule.

256 Flexible Outpatient Hysteroscopy without Anesthesia: A Feasible and Valid Procedure

Chin-Jung Wang, MD; Wei-Chien Mu, MD; Leung-To Yuen, MD; Chih-Feng Yen, MD; Yung-Kuei Soong, MD; Chyi-Long Lee, MD

Outpatient flexible hysteroscopy without anesthesia was performed in 2033 consecutive women with different indications with a 2.2% failure rate. Three hundred sixty-six of the 2033 patients (18.0%) required cervical dilatation before insertion of the hysteroscope. Severe discomfort including vagal reflex and ascending infection occurred in 4 (0.19%) women. The feasibility and validity of this procedure is confirmed by the good procedure tolerance and low failure rate, even in postmenopausal and nulliparous women. However, extensive experience and proper timing of the examination are required for a highly accurate diagnosis, especially in evaluating endometrial pathology.

263 Modified Thompson Quadricepsplasty to Treat Extension Contracture of the Knee after Surgical Treatment of Patellar Fractures

Yu-Chi Huang, MD; Chi-Chuan Wu, MD

Twenty-four patients who sustained extension contractures of the knee after surgical treatment of patellar fractures were treated with modified Thompson quadricepsplasty and followed-up for at least 2 years (mean, 4.6 years). Postoperatively, a continuous passive motion (CPM) machine was used to assist knee flexion. Physical therapy was continued at local clinics. The mean arc of motion of the knee improved from 72 degrees preoperatively to 123 degrees ($p < 0.001$). Knee function improved from unsatisfactory in 24 patients preoperatively to satisfactory in 21 patients ($p < 0.001$).

CASE REPORTS

270 Atrioventricular Septal Defect with Cor Triatriatum Sinister

Yu-Yin Liu, MD; Yao-Kuang Huang, MD; Chi-Nan Tseng, MD; Yu-Sheng Chang, MD; Feng-Chun Tsai, MD; Jaw-Ji Chu, MD; Pyng Jing Lin, MD

Cor triatriatum is a rare cardiac anomaly characterized by a membrane in the left atrium which separates the atrium into the proximal and distal chambers. In this study, we present an unusual combination of cor triatriatum and complete atrioventricular septal defects. Cor triatriatum, as a correctable cause of pulmonary hypertension, should be considered in cases with complete atrioventricular septal defects.

274 Removable Partial Denture on Osseointegrated Implants and Natural Teeth

Li-Ching Chang, DDS, MS; Jen-Chyan Wang, DDS, MS; Chi-Cheng Tasi, DDS, PhD

In this article, we report two patients fitted with "removable partial dentures on implants and natural teeth". The patients were satisfied with their dentures in terms of function and aesthetics. Regular follow-up visits revealed that the periodontal and peri-implant conditions were stable. Since the average duration of follow up was about 38 months, further follow-up visits are necessary to determine whether these dentures remain stable long term.

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