

高雄醫學大學研發電子報

一、研究新知

二、研究論文分享

題目： Association of baseline vitamin D levels with clinical parameters and treatment outcomes in chronic hepatitis B.

作者： Chan HL, Elkhatab M, Trinh H, Tak WY, Ma X, Chuang WL, Kim YJ, Martins EB, Lin L, Dinh P, Charuworn P, Foster GR, Marcellin P. JOURNAL OF HEPATOLOGY v.63 n.5 p.1086-1092

摘要：

BACKGROUND & AIMS:

The relationship between vitamin D levels and chronic hepatitis B (CHB) infection and treatment outcomes are poorly elucidated. We measured pre-treatment serum vitamin D (25-hydroxyvitamin D₃; 25[OH]D₃) levels and determined their association with clinical parameters and treatment outcomes in active CHB patients without advanced liver disease enrolled in a global clinical trial.

METHODS:

Patients were randomly assigned to either 48weeks of tenofovir disoproxil fumarate (TDF) plus peginterferon alfa-2a (PegIFN), TDF plus PegIFN for 16weeks followed by TDF for 32weeks, PegIFN for 48weeks, or TDF for 120weeks. Univariate and multivariate analyses were conducted to determine associations between vitamin D, baseline factors, and week 48 clinical outcome.

RESULTS:

Of 737 patients, 35% had insufficient (≥ 20 but < 31 ng/ml) and 58% had deficient (< 20 ng/ml) vitamin D levels. In univariate analysis, lower vitamin D levels were significantly associated with the following baseline parameters: younger age, lower uric acid levels, HBeAg-positive status, lower calcium levels, blood draw in winter or autumn, and HBV

genotype D. On multivariate analysis, only HBV genotype, season of blood draw, calcium level, and age retained their association. High baseline level of vitamin D was associated with low HBV DNA, normal ALT and HBsAg at week 48 independent of treatment groups, but the association, with the exception of ALT, became statistically insignificant after adjusting for age, gender, HBeAg and HBV genotype.

CONCLUSIONS:

Abnormally low vitamin D levels are highly prevalent among untreated, active CHB patients. Baseline vitamin D levels are not associated with treatment outcomes, but were associated with normal ALT.

題目： [Ambient Melamine Exposure and Urinary Biomarkers of Early Renal Injury](#)

作者： Chia-Fang Wu, Chiung-Yu Peng, Chia-Chu Liu, Wen-Yi Lin, Chih-Hong Pan, Ching-Mei Cheng, Hui-Min Hsieh, Tusty-Jiuan Hsieh, Bai-Hsiun Chen and Ming-Tsang Wu.

JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY v.26 n.11

p.2821-2829

摘要：

Information about environmental exposure to melamine and renal injury in adults is lacking. We investigated this relationship in 44 workers at two melamine tableware manufacturing factories in Taiwan (16 manufacturers, eight grinders, ten packers, and ten administrators) and 105 nonexposed workers (controls) at one shipbuilding company who were enrolled in August–December of 2012. For melamine workers, personal and area air samples were obtained at the worksite over 1 workweek (Monday–Friday). In the same week, pre- and post-shift one-spot urine samples were collected each workday and one first-spot urine sample was collected on each weekend morning and the following Monday morning. For each control, a one-spot urine sample was collected on Friday morning. A blood sample was also obtained from each participant at this time. Melamine levels were measured in air, urine, and serum, and early renal injury biomarkers were measured in urine. Urinary melamine concentrations in manufacturers increased sharply between pre- and post-shift measurements on Monday, remained significantly elevated throughout the workweek, and decreased over the weekend; changes in urinary melamine concentrations were substantially lower for other melamine workers. Manufacturers were exposed to the highest concentrations of ambient melamine and had significantly higher urinary and serum melamine concentrations than did the controls ($P < 0.001$). Urinary melamine levels were positively associated with urinary *N*-acetyl β -D-glucosaminidase (NAG) levels but not microalbumin levels, and the detectable β 2-microglobulin rate increased in the manufacturers group. In conclusion, ambient melamine

exposure may increase the levels of urinary biomarkers of renal tubular injury in this occupational setting

三、最新消息

1. 健康資料庫研究設計諮詢服務預約：**服務對象**：凡有興趣申請健康資料加值中心之資料庫者，含高醫教職員工生及校外研究人員，皆可申請資料庫研究諮詢服務。**費用**：免費。**預約辦法**：請先找出您方便的開放時段填寫並送出線上預約單，完成預約後本中心將寄送確認信給您。相關服務網址如下：<http://cchia.kmu.edu.tw/index.php/健康資料庫協作諮詢預約>。

四、徵求計畫

1. 科技部 105 年度大專學生研究計畫申請案，自即日起接受申請！本年度科技部補助大專學生研究計畫作業要點規定有作部分修正，申請學生務必先詳閱各項規定。學生與指導教授須於 105 年 2 月 19 日(星期五)下午 5 時前完成線上申請作業同時副知研發處，以利彙整函送科技部申請。
2. 科技部公開徵求 105 年度「性別與科技研究」計畫。申請人請務必詳閱本計畫徵求公告各項規定及徵求書之內容，有意申請者請於校內截止日 105.1.31 前完成線上申請作業同時副知研發處，以利彙整函送科技部申請。
3. 科技部公開徵求台德(MOST-DAAD)博士班研究生赴德研究進修(三明治計畫)2016 秋季班學員。有意申請者請於 105 年 1 月 26 日校內截止日前備妥所需相關資料送研發處彙整以利彙整函送科技部申請。
4. 科技部公開徵求 2016-2017 年臺灣與蘇格蘭地區雙邊科技合作人員交流計畫。依科技部與英國愛丁堡皇家科學院(Royal Society of Edinburgh, RSE)簽署之合作備忘錄辦理；為強化雙方合作，雙方議定以擇定領域方式於 2016 年新增「合作計畫」項目提供人員交流訪問費用補助。2016 年合作計畫徵求領域：1. Sensors and Imaging and their Applications including Medical Areas 2. Neuroscience。申請方式請自科技部「學術研發服務網登入」頁內以線上方式於 105 年 1 月 26 日校內截止日前提出計畫書，並由其任職機構彙整由系統送出後，備函檢附申請清冊向科技部提出申請。(英方計畫主持人應同時向 RSE 於線上提出申請)。
5. 科技部協同歐洲 TRANSCAN-2 團隊共同徵求癌症轉譯研究計畫構想書

徵求主題: Immunology and Immunotherapy of Cancer: Strengthening the Translational Aspects。Pre-Proposal 計畫截止日: 2016 年 2 月 5 日。詳細申請辦法, 請參閱附件以及歐盟 TRANSCAN-2 計畫網站: <http://www.transcanfp7.eu/>

五、校外合作專區

高醫大中山大學學術交流

1. 105 年中山高醫合作計畫:個人型 32 件, 整合型 8 件。經 12 月 23 日召開兩校審查會議審查後, 通過件數為: 個人型 30 件, 整合型 7 件。待兩校首長核備後將會儘速公告。
2. 經費變更表請至 <http://devel.kmu.edu.tw/front/bin/ptlist.phtml?Category=293> 網站下載, 謝謝!

六、研究榮譽榜

(一) 論文 (感謝圖書資訊處提供資料)

1. 本單元定期收錄高醫研究論文發表於 SCI/SSCI 資料庫且發表期刊影響指數(Impact Factor>5)或該領域排名前 10%之優良期刊。本期資料庫更新日期: 2015 年 11 月 01 日至 2015 年 11 月 30 日。網址如下:

<http://olis.kmu.edu.tw/index.php/zh-TW/notice/sci-ssci-awards.html>

2015 年 11 月份本校研究人員發表 SCI/SSCI 論文榮譽榜

序號	作者/單位	篇名	出處	影響指數
1	Chan, Henry Lik-Yuen; Elkhatab, Magdy; Trinh, Huy; Tak, Won Young; Ma, Xiaoli; Chuang, Wan-Long(附院肝膽胰內科 莊萬龍); Kim, Yoon Jun; Martins, Eduardo B.; Lin, Lanjia; Dinh, Phillip; Charuworn, Prista; Foster, Graham R.; Marcellin, Patrick	Association of baseline vitamin D levels with clinical parameters and treatment outcomes in chronic hepatitis B	JOURNAL OF HEPATOLOGY v.63 n.5 p.1086-1092	10.401

2	Wu, Chia-Fang(公共衛生學系 吳佳芳); Peng, Chiung-Yu(公共衛生學系 彭瓊瑜); Liu, Chia-Chu(附院 泌尿科 劉家駒); Lin, Wen-Yi(小港 職業病科 林文一); Pan, Chih-Hong; Cheng, Ching-Mei; Hsieh, Hui-Min(公共衛生學系 謝慧敏); Hsieh, Tusty-Jiuan(醫學系基因體醫學科 謝翠娟); Chen, Bai-Hsiun(附院 小兒科 陳百薰); Wu, Ming-Tsang(公共衛生學系 吳明蒼)	Ambient Melamine Exposure and Urinary Biomarkers of Early Renal Injury	JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY v.26 n.11 p.2821-2829	9.466
3	Chung, Tsai-Wen; Narhe, Bharat D.; Lin, Chun-Cheng; Sun, Chung-Ming(醫藥暨應用化學系 孫仲銘)	Multicomponent Synthesis of Functionalized Tetrahydroacridinones: Insights into a Mechanistic Route	ORGANIC LETTERS v.17 n.21 p.5368-5371	6.324
4	Cheng, Kai-Hung(附院 心臟內科 鄭凱鴻); Chu, Chih-Sheng(大同醫院 心臟血管內科朱志生); Kuo, Po-Lin(臨床醫學研究所 郭柏麟); Lai, Wen-Ter(附院 心臟內科 賴文德)	More Evidences Are Needed Before We Downgrade Antilipidemic Therapy Among Patients With High Risk of, or Suffering From, Myocardial Infarction Reply	CRITICAL CARE MEDICINE v.43 n.11 p.E532-E533	6.147
5	Leung, Ka-Ho; He, Bingyong; Yang, Chao; Leung, Chung-Hang; Wang, Hui-Min David(香妝品學系 王惠民); Ma, Dik-Lung	Development of an Aptamer-Based Sensing Platform for Metal Ions, Proteins, and Small Molecules through Terminal Deoxynucleotidyl Transferase Induced G-Quadruplex Formation	ACS Applied Materials & Interfaces v.7 n.43 p.24046-24052	5.9

6	Wang, Kuan-Chieh; Li, Yi-Heng; Shi, Guey-Yueh; Tsai, Hung-Wen; Luo, Chawn-Yau; Cheng, Min-Hua; Ma, Chih-Yuan; Hsu, Yun-Yan; Cheng, Tsung-Lin(醫學系生理學科 鄭琮霖); Chang, Bi-Ing; Lai, Chao-Han; Wu, Hua-Lin	Membrane-Bound Thrombomodulin Regulates Macrophage Inflammation in Abdominal Aortic Aneurysm	ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY v.35 n.11 p.2412-2422	5.533
7	Wu, Ping-Hsun(附院 腎臟內科 吳秉勳); Lin, Yi-Ting(生物科技學系 林盈廷); Hsu, Po-Chao(附院 心臟內科 許柏超); Yang, Yi-Hsin(藥學系 楊奕馨); Lin, Tsung-Hsien(附院 心臟血管內科 林宗憲); Huang, Chia-Tsuan(附院 家庭醫學科 黃洽鑽)	Impact of acetylcholinesterase inhibitors on the occurrence of acute coronary syndrome in patients with dementia	SCIENTIFIC REPORTS v.5 文獻號碼: 15451	5.078
8	Wu, Ping-Hsun(附院 腎臟內科 吳秉勳); Lin, Yi-Ting(生物科技學系 林盈廷); Yang, Yi-Hsin(藥學系 楊奕馨); Lin, Yu-Chih(附院 內科部 林育志); Lin, Yi-Ching(附院 檢驗醫學部 林宜靜)	The increased risk of active tuberculosis disease in patients with dermatomyositis - a nationwide retrospective cohort study	SCIENTIFIC REPORTS v.5 文獻號碼: 16303	5.078
9	Huang, Chiung-Yao; Sung, Ping-Jyun; Uvarani, Chokkalingam; Su, Jui-Hsin; Lu, Mei-Chin; Hwang, Tsong-Long; Dai, Chang-Feng; Wu, Shwu-Li; Sheu, Jyh-Horng(天然藥物研究所 許志宏)	Glaucumolides A and B, Biscembranoids with New Structural Type from a Cultured Soft Coral Sarcophyton glaucum	SCIENTIFIC REPORTS v.5 文獻號碼: 15624	5.078
10	Tsai, Ching-Chung; Chang, Li-Ching; Lin, Kai-Jen; Tey, Shu-Leei; Su, Yu-Tsun; Liu, Ching-Wen; Tsai, Tong-Rong(藥學系 蔡東榮); Huang, Shih-Che	Mechanism of bombesin-induced tonic contraction of the porcine lower esophageal sphincter	SCIENTIFIC REPORTS v.5 文獻號碼: 15879	5.078

11	Liu, Po-Len(呼吸治療學系 劉博倫); Chong, Inn-Wen(呼吸治療學系 鍾飲文); Lee, Yi-Chen; Tsai, Jong-Rung(呼吸治療學系 蔡忠榮); Wang, Hui-Min(香妝品學系 王惠民); Hsieh, Chong-Chao(附院 心臟外科 謝炯昭); Kuo, Hsuan-Fu(大同醫院 心臟內科 郭炫孚); Liu, Wei-Lun; Chen, Yung-Hsiang; Chen, Hsiu-Lin(呼吸治療學系 陳秀玲)	Anti-inflammatory Effects of Resveratrol on Hypoxia/Reoxygenation-Induced Alveolar Epithelial Cell Dysfunction	JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY v.63 n.43 p.9480-9487	3.107
12	Ke, Hung-Lung(附院 泌尿科 柯宏龍); Lin, Jie; Ye, Yuanqing; Wu, Wen-Jeng(附院 泌尿科 吳文正); Lin, Hui-Hui; Wei, Hua; Huang, Maosheng; Chang, David W.; Dinney, Colin P.; Wu, Xifeng	Genetic Variations in Glutathione Pathway Genes Predict Cancer Recurrence in Patients Treated with Transurethral Resection and Bacillus Calmette-Guerin Instillation for Non-muscle Invasive Bladder Cancer	ANNALS OF SURGICAL ONCOLOGY v.22 n.12 p.4104-4110	3.943
13	Ma, Xiao; Wang, Moo-Chin(香妝品學系 王木琴); You, Fangfang; Feng, Jinyang; Zhao, Xiujian	Optical properties and microstructure of Au nanorods via seed solution amount variation synthesized by seed-mediated growth method	JOURNAL OF ALLOYS AND COMPOUNDS v.649 n. p.617-624	2.726
14	Lo, Yi-Ching(醫學系 藥理學科 羅怡卿); Tseng, Yu-Ting; Liu, Chi-Ming; Wu, Bin-Nan; Wu, Sheng-Nan(醫學系 藥理學科 吳炳男)	Actions of KMUP-1, a xanthine and piperazine derivative, on voltage-gated Na ⁺ and Ca ²⁺ -activated K ⁺ currents in GH(3) pituitary tumour cells	BRITISH JOURNAL OF PHARMACOLOGY v.172 n.21 p.5110-5122	4.99

(二) 產學合作 (感謝產學營運處提供資料)

專利、技轉及產學合作榮譽榜 <http://ooiuc.kmu.edu.tw/index.php/zh-TW/榮譽榜>

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執行編輯：莊麗月、田育彰、許幼青

發行單位：高雄醫學大學研究發展處

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醫學研究部、小港研究暨教育訓練室、大同研究暨教育訓練室

電話：07-3121101-2322

傳真：07-3223170

網址：<http://wp.kmu.edu.tw/rd/>