

# Dr HUNG CURRICULUM VITAE

## Basic Data

Family Name: Hung

Given Name: Chung-Lieh

Office Address: 92, Chung Shan North Road, SEC. 2, Taipei,  
Taiwan, R.O.C.

Home Address: 8F-1, No. 17, 93<sup>rd</sup> Lane, 2<sup>nd</sup> section, Chung-Shan North  
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Date of Birth: Sep. 10, 1973

Place of Birth: Kaohsiung, Taiwan

Gender: Male

Marital status: Not Married

Education: MD. NTU Medical College, Taipei, Taiwan, R.O.C. 1992-1999

MSc. NTU Public Health, Taipei, Taiwan, R.O.C. 2009-2011

## Professional Experience and Training

1999-2002: Rotation Resident

Department of Internal Medicine,  
Mackay Memorial Hospital, Taipei, Taiwan

2002-2004: Fellowship: Section of Cardiology,

Department of Internal Medicine,  
Mackay Memorial Hospital, Taipei, Taiwan

2004-----: Attending Physician, section of Cardiology,

Mackay Memorial Hospital, Taipei, Taiwan

2004-----: Electrophysiology Fellowship: Section of Cardiology,

Mackay Memorial Hospital, Taipei, Taiwan

2004 July

CRT Training Course in Italy (Cisanello Hospital ,Italy by  
Dr.Maria Grazia Bongiorno) & Germany (Elisabeth –Hospital,  
Essen by Dr. Mathias Meine & Johannes – Hospital, Dortmund  
by Dr. Dietmar Schmitz

2004 November - 2005 March

Echocardiography Fellowship  
Chang-Geng Medical Hospital, Linkou, Taoyuan

- (Training in TDI and RT-3DE with A.P. Fun-Chung, Lin)
- 2005 Mayo Clinic Echocardiography Training Course (2 weeks) in Phoenix, Arizona. 3<sup>rd</sup> Annual Echocardiography
- 2006 CRT Training Course (2 weeks) in Harper Hospital, Detroit, Michigan, U.S.A (Dr. Lieberman's EP Lab)
- 2006 Heart Failure Therapy Implanting Physician Training Course (Hong-Kong)
- 2006 Brugada's Course Electrophysiology (15-16, September, Hong Kong)
- 2007 February – 2008 March  
Research Fellow in Brigham and Women's Hospital, Harvard Medical School
- 2008 Advanced Cardiac Rhythm Management Physician Training Course (Hong-Kong)

### **Medical Certification and Membership**

- 2000 Board of Internal Medicine, R.O.C.
- 2001 Member of the Taiwan Society of Internal Medicine
- 2002 Member of Taiwan Society of Cardiology (TSOC)
- 2004 Member of SUMROC
- 2004 Member of TSE
- 2004 Member of TICC
- 2005 Member of TSOGECEM
- 2006 Member of ASE (American Society of Echocardiography)
- 2007 Member of AHA (American Heart Association)
- 2007 Member of Taiwan Society of Gerontology
- 2011 Instructor of Taiwan Society of Cardiology (台灣心臟學會專科指導老師)

## Honors

- 2011 姜必寧青年優秀心臟論文獎
- 2011 中華民國醫用超音波學會一百年度優秀論文獎第一名
- 2011 中華民國醫用超音波學會一百年度心臟科優秀口頭論文獎第一名
- 2012 國立陽明醫學院醫學系 PBL 臨床教師(Tutor)
- 2012 馬偕醫學院醫學系一百年度第一學期三年級最佳教案
- 2012-2013 中華民國心臟醫學會影像委員會委員
- 2012-2013 中華民國心律醫學會甄審委員會委員

## Teaching Affiliation

財團法人馬偕紀念醫院資深主治醫師

Lecturer of *Mackay Medicine, Nursing and Management College*

PGY-1 Resident Clinical Instructor

## Academic Publication

### Case Reports

1. CL Hung, CJ WU, S Yang, et al. Acute Renal Failure Directly Caused by Hemolysis Associated with Transurethral Resection of the Prostate – A case report. *Urology* 59:137-138 (2002) (Impact Factor: 5.13)
2. CL Hung, YJ WU, CS Lin, JY Hou, et al. Sequential Endovascular Coil Embolization for a Traumatic Cervical Vertebral AV Fistula – A case report. *Catheterization and Cardiovascular Interventions* 60:267-269 (2003) (Impact Factor: 2.398)
3. Yih-Jer Wu, Ya-Ching Chan, Chung-Lieh Hung, JY Hou. Congestive Heart Failure in a Patient with Giant Aneurysm-like Right Coronary AV Fistula. *Acta Cardiologica Sinica* (20):2:105-109 (2004)
4. Chung-Lieh Hung, Cheng-Ting Tsai, Charles Jia-Yin Hou. Percutaneous transcatheter retrieval of retained balloon catheter in distal tortuous coronary artery: A modified double-helix approach. *Catheterization and Cardiovascular Interventions* (62):4: 471-475 (2004) (Impact Factor: 2.398)
5. Chung-Lieh Hung et al. Selecting Coil Size for Transcatheter Embolization of A Large Pulmonary Arteriovenous Malformation: A Role for Three Dimensional

computed tomography -A Case Report. Acta Cardiologica Sinica (22): 3: 175-179 (2006)

6. Chung-Lieh Hung et al. Multiple Left Ventricular Aneurysms in Silent Coronary Artery Disease – A Case Report. J Intern Med Taiwan (17): 5: 244-248 (2006)

7. Chi-In Lo, Chung-Lieh Hung (Corresponding Author), Charles Jia-Yin Hou et al. Demonstration of Left Ventricular Thrombi With Real Time Three- Dimensional Echocardiography in a Patient with Cardiomyopathy. J Am Soc Echo 2007;20:772.e5-9. (Impact Factor: 3.52)

8. Ying-Hsiang Lee, Chung-Lieh Hung (Corresponding Author), Charles Jia-Yin Hou et al. Silent and Huge Left Ventricular Pseudoaneurysm with Left Atrial Compression: Dedicated Spatial Resolution and Geometry by Three-Dimensional Echocardiography. J Am S Echo 2007;20:772.e5-9 (Impact Factor: 3.52)

9. Po-Chin Chi, Chien-Liang Wu, Chung-Lieh Hung, Yu-Ling Weng, Ching-Chi Lin, SY Lee\*. The experience of a novel of a glycylycine antibiotic for a patient with infection caused by multiple drug resistant pathogens: what is the benefit? International Journal of Gerontology 2008; 2(3): 124-127. (Impact Factor: 0.38)

10. TT Chen, CT Lai, CL Wu, TY Wang, BF Shih, CL Hung, LK Kuo, YL Weng, SY Lee\*. Cardiac tamponade caused by epithelioid hemangioendothelioma. British Medical Journal Case Report 2008; March.

11. SW Huang, CL Wu, CC Lin, CL Hung, LK Kuo, YL Weng, SY Lee\*. Effect of long term intermittent nocturnal non-invasive positive pressure ventilation on patient with severe kyphoscoliosis and hypoxaemia. British Medical Journal Case Report 2008; March.

12. Yau-Huei Lai, Jui-Peng Tsai, Jen-Yuan Kuo, Charles Jia-Yin Hou, Hung-I Yeh, \*Chung-Lieh Hung (Corresponding). A mimicker of acute myocardial infarction. Lancet 2010; 375: 1318 (SCI) (Impact Factor: 33.63)

13. Tsung-Yeh Yang, Jui-Peng Tsai, Cheng-Hsiung Chang, Jen-Yuen Kuo, Chung-Lieh Hung (Corresponding). \* Giant Right Atrial Myxoma with Pulmonary Trunk Dislodgement Causing Intermittent Tricuspid Obliteration and Clinical Manifestations of Right Heart Failure. Echocardiography (Impact Factor: 1.415)

14. Zhen-Yu Liao, Jui-Peng Tsai, Jen-Yuan Kuo, Chung-Lieh Hung (Corresponding). \* Large aortic aneurysm mimicking a cardiac tumor. Cardiovascular Ultrasound 2010, 8:33. (Impact Factor: 1.56)

15. Hsiang-Wei Yang, Jui-Peng Tsai, Chun-Ho Yun, Charles Jia-Yin Hou, Jen-Yuan Kuo. Chung-Lieh Hung (Corresponding). \* A case report of left ventricular non-compaction in progression to dilated cardiomyopathy: Diagnostic utilization of multiple imaging modalities. European Journal of Radiology Extra 2011;77:e43-e46. (Impact Factor: 2.941)

16. Wei-Wen Lin,<sup>1</sup> Jui-Peng Tsai,<sup>1,2</sup> Chih-Hsuan Yen,<sup>1,2</sup> Jen-Yuan Kuo<sup>1</sup> and Chung-Lieh Hung (Corresponding). \* A Novel Case with Coronary Aneurysm Formation after Titanium Nitric Oxide-Coated Stent Implantation. Acta Cardiol Sin 2011;27: (accepted in press)

17. Chih-Chung Hsiao, MD<sup>a</sup>, Jen-Yuan Kuo, MD<sup>a</sup>, Chun-Ho Yun, MD<sup>b</sup>, Chung-Lieh Hung, MD (Corresponding)<sup>a,c,\*</sup>, Cheng-Ho Tsai, MD<sup>a</sup>, Hung-I Yeh, PhD<sup>a,c</sup>. A Rare Case of Left-Dominant Arrhythmogenic Right Ventricular Cardiomyopathy with Dramatic Reverse Remodeling Following Cardiac Resynchronization as an Adjunct to Pharmacological Therapy. Heart & Lung: The Journal of Acute and Critical Care (accepted in press, Impact factor: 1.491)

18. Kuo-Tzu Sung, Chun-Ho Yun, Charles Jia-Yin Hou, Chung-Lieh Hung (Corresponding). Solitary accessory and papillary muscle hypertrophy manifested as dynamic mid-wall obstruction and symptomatic heart failure: diagnostic feasibility by multi-modality imaging. BMC Cardiovascular Disorders (Impact Factor: 1.46). 03/2014; 14(1):34. DOI:10.1186/1471-2261-14-34

### **Original Article**

1. Chung-Lieh Hung, Chi-In Lo, Chih-Hsuan Yen, Ta-Chun Hung, Charles Jia-Yin Hou, Hung-I Yeh, Cheng-Ho Tsai. Pattern and impact of altered regional myocardial excursion on global ventricular performance after first-time acute anterior wall myocardial infarction by real-time three-dimensional echocardiography. Int J Ger 2008; 2(4): 194–203. (Impact Factor: 0.38)

2. Chung-Lieh Hung, Chuan-Chuan Liu, Hung-I Yeh, Hung-Ju Ko, Charles Jia-Yin

Hou, Cheng-Ho Tsai and Yih-Jer Wu. NT-ProBNP but not High Sensitivity CRP Independently Predicts Abnormal Exercise Duke Score in Well-Controlled Hypertension and Pre-Hypertension - A Study from the Subjects Undergoing Health Evaluation. *Acta Cardiol Sin* 2009; 25: 7-17 (Impact Factor: 0.253)

3. Cheng-Ting Tsai, Chung-Lieh Hung (Co-first Author), Charles Jia-Yin Hou, Ta-Chuan Hung, Hung-I Yeh, Cheng-Ho Tsai. Real-time three-dimensional echocardiography in evaluation of left atrial structure and function in normal, aging, hypertensive and heart failure patients: new insights into left atrial adaptation and remodeling. *Int J Ger* 2009; 3(1): 53–65. (Impact Factor: 0.38)

4. Chuan-Chuan Liu, Chi-In Lo, Chung-Lieh Hung (Corresponding), Hung Ju Ko, Charles Jia-Yin Hou, Hung-I Yeh, Cheng-Ho Tsai, Shou-Chuan Shih, Ray-E Chang. Determinants of Left Ventricular Geometric Alterations And Related Clinical And Metabolic Factors In A General Population. *Int J Ger* 2009; 3(1): 66–74. (Impact Factor: 0.38)

5. SY Lee, CY Sheu, CL Wu, CL Hung, YL Weng, CC Lin, WH Chang. Spontaneous pneumomediastinum: a clinical-radiologic analysis. *Int J Ger* 2008; 2: 222-8. (Impact Factor: 0.38)

6. SY Lee, CL Hung, JH Lee, SC Shih, YL Weng, WH Chang, YH Ho, WC Huang, YL Lai. Attain Good End-of-life Care in Intensive Care Unit in Taiwan- the Dilemma and the Strategy. *Int J Ger* 2009; 3: 26-30. (Impact Factor: 0.38)

7. Sung-Hee Shin, Chung-Lieh Hung, Amira H. Hassanein, et al. Mechanical Dyssynchrony after Myocardial Infarction in Patients with Left Ventricular Dysfunction, Heart Failure, or Both. *Circulation* 2010; 121:1096-1103. (Impact Factor: 14.595)

8. Chuan-Chuan Liu, Chung-Lieh Hung (Co-first Author), Hung Ju Ko, et al. Age-related Differences in the Clinical Presentation, Associated Metabolic Abnormality and Estimated Cardiovascular Risks from Non-alcoholic Fatty Liver Disease: A Cross-Sectional Study from Health Evaluation Center in Taiwan. *Int J Ger* 4 (2010) 184-191. (Impact Factor: 0.38)

9. Chung-Lieh Hung, Yih-Jer Wu, Chuan-Chuan Liu, Charles Jia-Yin Hou, Ta-Chuan Hung, Hung-I Yeh, Shou-Chuan Shih, Cheng-Ho Tsai, Ming-Cheng Peng. Age-related Ventricular Remodeling is an Independent Risk for Reduced Exercise

Capacity and Heart Failure Symptoms in Subjects with Preserved Systolic Function. *Int J Ger* 2011;5:17-24. (Impact Factor: 0.38)

10. Hui-Chun Lin, Charles Jia-Yin Hou, Shih-Yi Lee, Ta-Chuan Hung; Hung-I Yeh; Chung-Lieh Hung (Corresponding). The Impact of Biventricular Structure and Function on Tricuspid Annular Displacement in Heart Failure Patients with and without Systolic Dysfunction: A Two-Dimensional Speckle Tracking Study. *J Med Ultra* 2010;18(3):115–123 (國科會優良期刊)

11. Chung-Lieh Hung, Anil Verma, Hajime Uno, Sung-Hee Shin, Mikhail Bourgon, Amira H Hassanein, John J McMurray, Eric J Velazquez, Lars Kober, Marc A Pfeffer, Scott D Solomon. Longitudinal and Circumferential Strain Rate, Left Ventricular Remodeling and Prognosis after Myocardial Infarction. *J Am Coll Cardiol* 2010;56:1812–22 (Impact Factor: 14.292)

12. Chuan-Chuan Liu, Jui-Peng Tsai, Shou-Chuan Shih, Chih-Hsuan Yen, Jen-Yuan Kuo, Hung-I Yeh, Charles Jia-Yin Hou, Chung-Lieh Hung (Corresponding).\* Age-Related Differences in The Diagnostic Yield of Surface Electrocardiography Defined Voltage and Parameters in Identifying Left Ventricular Hypertrophy and Estimated Cardiovascular Risks. *Int J Ger* 2011;5:155-160. (Impact Factor: 0.38)

13. Chih-Hsuan Yen, Jui-Peng Tsai, Yih-Jer Wu, Jen-Yuan Kuo, Hung-I Yeh, Charles Jia-Yin Hou, Chuan-Chuan Liu, Chung-Lieh Hung (Corresponding).\* Change of Body Surface Electrocardiogram was Linked to Left Ventricular Geometric Alteration from Normal, Pre-hypertension to Hypertension: Comparison with NT-ProBNP and Hs-CRP in Determining Ventricular Remodeling. *Acta Cardiologica Sinica* 2011;27:29-37 (Impact Factor: 0.253)

14. Chung-Lieh Hung, Su-Liang Tien, Chi-In Lo, Ta-Chuan Hung, Hung-I Yeh, Yu-Shan Wang. The Incremental Value of Regional Dyssynchrony in Determining Functional Mitral Regurgitation Beyond Left Ventricular Geometry after Narrow QRS Anterior Myocardial Infarction: A Real-time Three-dimensional Echocardiography Study. *Echocardiography* 2011;28:665-675 (Impact Factor: 1.415)

15. Chun-Ho Yun, Tin-Yu Lin, Yih-Jer Wu, Chuan-Chuan Liu, Jen-Yuan Kuo, Hung-I Yeh, Fei-Shih Yang, Charles Jia-Yin Hou, Hiram Bezerra, Chung-Lieh Hung (Corresponding)\*, Ricardo C. Cury. Pericardial and Thoracic Peri-aortic Adipose Tissue Contribute to Systemic Inflammation and Coronary Atherosclerosis

Independent of Body Fat Composition, Anthropometric Measures and Traditional Cardiovascular risks. Eur J Radiol. 2011 (Impact Factor: 2.941)

16. Jui-Peng Tsai,<sup>†</sup> Chung-Lieh Hung (co-first author),<sup>†</sup> Shei-Ling Ku, Charles Jia-Yin Hou, Hung-I Yeh, Ray-E Chang\*. Factors Influencing Therapeutics Strategy for Patients with Basal Ganglia Hemorrhage – Could Age Play A Potential Role in Final Treatment Decision? Acta Neurol Belgica 2011;111:268-75. (Impact Factor: 0.6)

17. Tsai, Jui-peng, Chen, Yung-chin, Hung, Chung-lieh, Cheng, Hsiao-yang, Hou, Charles Jia-yin, Kuo, Jen-yuan, Wang, Kuang-te. Reduced Inhospital Mortality in Patients with Acute Myocardial Infarction after Practice of Percutaneous Coronary Intervention at a Remote Hospital in Taiwan. Acta Cardiologica Sinica. 2011;6:86-93 (Impact Factor: 0.253)

18. Yau-Huei Lai, Chun-Ho Yun, Fei-Shih Yang, Chuan-Chuan Liu, Yih-Jer Wu, Jen-Yuan Kuo, Hung-I Yeh, Tin-Yu Lin, Hiram G Bezerra, Shou-Chuan Shih, Cheng-Ho Tsai, Chung-Lieh Hung (Corresponding). Epicardial Adipose Tissue relating to Anthropometrics, Metabolic Derangements and Fatty Liver Disease Independently Contributes to Serum High-Sensitivity CRP beyond Body Fat Composition: A Study Validated with Computed Tomography. JASE 2012;25:234-41. (Impact Factor: 4.2)

19. Ying-Hsiang Lee, MD, Yih-Jer Wu, Chuan-Chuan Liu, Charles Jia-Yin Hou, Hung-I Yeh, MD, Cheng-Ho Tsai, Shou-Chuan Shih, MD, Chung-Lieh Hung (Corresponding). The Severity of Fatty Liver Disease Relating to Metabolic Abnormalities Independently Predicts Coronary Calcification. Radiology Research and Practice 2011;586785 (PubMed Lib)

20. Amil M. Shah, Chung-Lieh Hung, Sung Hee Shin, Hicham Skali, Anil Verma, Jalal K. Ghali, Lars Køber, Eric J. Velazquez, Jean L. Rouleau, John J.V. McMurray MD, Marc A. Pfeffer, Scott D. Solomon. Cardiac structure and function, remodeling, and clinical outcomes among patients with diabetes after myocardial infarction complicated by left ventricular systolic dysfunction, heart failure, or both. AHJ 2011;162:685-91. (Impact Factor: 5.052)



21. Yu-Jun Lai, Chung-Lieh Hung, Ray-Ching Hong, Ya-Ming Tseng, Cheng-I Lin, Yu-Shien Ko, Cheng-Ho Tsai, Hung-I Yeh. Slow conduction and gap junction remodeling in murine ventricle after chronic alcohol ingestion. *Journal of Biomedical Science* 2011;18:72. (Impact Factor: 1.96)
22. Jui-Peng Tsai, Helen L. Po, Chih-Hsuan Yen, Charles Jia-Yin Hou, Jen-Yuan Kuo, Chung-Lieh Hung\* (Corresponding). Body Composition, C-reactive Protein, Carotid Artery Remodeling and Subclinical Atherosclerosis in a General Taiwanese Population. *Journal Thrombosis & Thrombolysis* 2012;33:185-92. (Impact Factor: 1.85)
23. Chung-Lieh Hung, Yih-Jer Wu, Chun-Chieh Liu, Bo-Chin Chi, Sheng-Shiung Chang, Li-Yu Wang, Hung-I Yeh, Yau-Huei Wei for the MAGNET Study Investigators. Rationale and design of MAGNET (Mitochondria-AGing in NorthEern Taiwan) study:a community-based cohort investigating mitochondria-related aging and cardiovascular diseases in suburban areas of northern Taiwan. *Int J Ger* 2012;6:122-126. (Impact Factor: 0.253)
24. Chung-Lieh Hung, Ta-Chuan Hung, Chun-Chun Liu, Yih-Jer Wu, Jen-Yuan Kuo, Charles Jia-Yin Hou, Hung-I Yeh. Relation of Carbohydrate Antigen-125 to Left Atrial Remodeling and its Prognostic Usefulness in patients with heart Failure and Preserved Left Ventricular Ejection Fraction in Women. *Am J Cardiol* 2012;110:993-1000. (Impact Factor: 3.4)
25. Chung-Lieh Hung, Helen L. Po, Chun-Chun Liu, Chih-Hsuan Yen, Yih-Jer Wu, Charles Jia-Yin Hou, Jen-Yuan Kuo, Hung-I Yeh, Syi Su. The Utilization of Carotid Artery Imaging beyond Metabolic Scores and High-Sensitivity CRP in Screening Intermediate-to-High Framingham Risk of Asymptomatic Taiwanese Population. *International J of Cardiovasc Imaging* (2012 Accepted in press, Impact factor: 2.4)
26. Cheng-Hsi Chen, Chung-Lieh Hung, Helen L. Po, Chun-Ho Yun, Yih-Jer Wu, Chuan-Chuan Liu, Jen-Yuan Kuo, Cheng-Ho Tsai, Hung-I Yeh. Early Detection of Subclinical Atherosclerosis in Asymptomatic Patients Assessed by Carotid Duplex and Coronary Computed Tomography. *Int J Ger* 2012. (Accepted in press, Impact Factor: 0.253)
27. Zhen-Yu Liao<sup>¥</sup>, Ming-Cheng Peng<sup>¥</sup>, Chun-Ho Yun, Yau-Huei Lai, Helen L. Po, Charles Jia-Yin Hou, Jen-Yuan Kuo, Chung-Lieh Hung (Corresponding), Yih-Jer Wu,

Bernard E. Bulwe, Hung-I Yeh, Cheng-Ho Tsai. The Relation of Carotid Artery Diameter with Cardiac Geometry and Mechanics in Heart Failure with Preserved Ejection Fraction. *Journal of American Heart Association (Official Journal of AHA: [J Am Heart Assoc.](#) 2012 Dec;1(6):e003053)*

28. Chung-Lieh Hung\* (Co-first Author), Tze-Fan Chao\*, Yau-Huei Lai, Chih-Hsuan Yen, Kang-Ling Wang, Hsuan-Ming Tsao, Yenn-Jiang Lin, Shih-Lin Chang, Li-Wei Lo, Yu-Feng Hu, Jen-Yuan Kuo, Hung-I Yeh, Shih-Ann Chen. The Relationship Among Atrium Electromechanical Interval, Insulin Resistance, and Metabolic Syndrome. *The Canadian journal of cardiology* (impact factor: 3.36). 03/2013; DOI:10.1016/j.cjca.2013.01.001

29. Chun-Ho Yun, Hiram G. Bezerra, Tung-Hsin Wu, Fei-Shih Yang, Chuan-Chuan Liu, Yih-Jer Wu, Jen-Yuan Kuo, Chung-Lieh Hung\* (Corresponding), Jason Jeun-Shenn Lee, Charles Jia-Yin Hou, Hung-I Yeh, Chris T. Longenecker, Ricardo C. Cury. The Normal Limits, Subclinical Significance, Related Metabolic Derangements and Distinct Biological Effects of Body Site-Specific Adiposity in Relatively Healthy Population. *PLoS ONE* 8(4): e61997. doi:10.1371/journal.pone.0061997 (impact factor: 4.1).

30. Imran Uraizee, Susan Cheng, Chung-Lieh Hung, Anil Verma, James D Thomas, Michael R Zile, Gerard P Aurigemma, Scott D Solomon. Relation of N-Terminal Pro-B-Type Natriuretic Peptide With Diastolic Function in Hypertensive Heart Disease. *American Journal of Hypertension* (Impact factor: 3.18). 06/2013; DOI:10.1093/ajh/hpt098

31. Chung-Lieh Hung (co-first author), Tze-Fan Chao, Su-Jung Chen, Kang-Ling Wang, Tzeng-Ji Chen, Yenn-Jiang Lin, Shih-Lin Chang, Li-Wei Lo, Yu-Feng Hu, Ta-Chuan Tuan, Shih-Ann Chen. The Association between Hyperuricemia, Left Atrial Size and New-onset Atrial Fibrillation. *Int. J. Cardiology* (Accepted in press. Impact Factor: 5.5)

32. Yau-Huei Lai; Chuan-Chuan Liu; Jen-Yuan Kuo; Ta-Chuan Hung; Yih-Jer Wu; Hung-I Yeh, Bernard E. Bulwer; Chung-Lieh Hung (Corresponding). Independent Effects of Body Fat and Inflammatory Markers on Ventricular Geometry, Midwall Function, and Atrial Remodeling. *Clin. Cardiol.* 36 (accepted in press 2013. Impact Factor: 1.8)

33. Tze-Fan Chao, Chung-Lieh Hung (co-first author), Hsuan-Ming Tsao, Yenn-Jiang

Lin, Chun-Ho Yun, Yau-Huei Lai, *Shih-Lin Chang*, Li-Wei Lo, Yu-Feng Hu, Ta-Chuan Tuan, Hung-Yu Chang, Jen-Yuan Kuo, Hung-I Yeh, Tsu-Juey Wu, Ming-Hsiung Hsieh, Wen-Chung Yu, Shih-Ann Chen. Epicardial adipose tissue thickness and ablation outcome of atrial fibrillation. *PloS one* 2013;8:e74926

34. Ming-Ren Chen, Ho-Shun Ko, Tze-Fan Chao, Hsi-Che Liu, Jen-Yuan Kuo, Bernard E. Bulwer, Hung-I Yeh and Chung-Lieh Hung (Corresponding). Relation of Myocardial Systolic Mechanics to Serum Ferritin Level as a Prognosticator in Thalassemia Patients Undergoing Repeated Transfusion. *Echocardiography* 2015. Article first published online: 27 MAR 2014 | DOI: 10.1111/echo.12590

35. Tsai JP, Yun CH, Wu TH, Yen CH, Hou CJ, Kuo JY, Hung CL (Corresponding). A meta-analysis comparing SPECT with PET for the assessment of myocardial viability in patients with coronary artery disease. *Nucl Med Commun*. 2014 Apr 30. [accepted in press Epub ahead of print]

36. Tze-Fan Chao, Yau-Huei Lai, Chun-Ho Yun, Chih-Hsuan Yen, Kang-Ling Wang, Yenn-Jiang Lin, Shih-Lin Chang, Li-Wei Lo, Yu-Feng Hu, Chung-Lieh Hung (co-corresponding), Jen-Yuan Kuo, Hung-I Yeh, Shih-Ann Chen (corresponding). The Association between Atrium Electromechanical Interval and Pericardial Fat. *PloS one* 2014;9:e97472 (2014)

37. Sheng-Nan Chang, Yau-Huei Lai, Chih-Hsuan Yen, Chia-Ti Tsai, Jou-Wei Lin, Bernard E. Bulwer, Ta-Chuan Hung, Charles Jia-Yin Hou, Jen-Yuan Kuo, Chung-Lieh Hung (Corresponding), Juey-Jen Hwang, Hung-I Yeh. Cardiac Mechanics and Ventricular Twist by Three-Dimensional Strain Analysis in Relation to B-type Natriuretic Peptide as a Clinical Prognosticator for Heart Failure Patients. *PloS one* (2014 9(12): e115260. doi:10.1371/journal.pone.0115260)

38. Chen-Yen Chien, Chuan-Chuan Liu, Helen L. Po, Chih-Hsuan Yen, Charles Jia-Yin Hou, Jen-Yuan Kuo, Chung-Lieh Hung (Corresponding), Shoei-Shen Wang, MD, Hung-I Yeh, Carolyn S.P. Lam. The Relationship among Carotid Artery Remodeling, Cardiac Geometry, and Serum N-terminal Pro-B-type Natriuretic Peptide Level in Asymptomatic Asians: Sex-differences and Longitudinal GEE study. *PloS one* 2015 (accepted in press)

39. Chi Chen, Yung-Tzi Chen, Kuang-Te Wang, Shou-Chuan Shih, Chuan-Chuan Liu, Jen-Yuan Kuo, Charles Jia-Yin Hou, Yih-Jer Wu, Chung-Lieh Hung (Corresponding), Hung-I Yeh.. The association among age, early mitral leaflet closure, cardiac structure, diastolic indices and NT-proBNP in an asymptomatic Taiwanese population. *IJC Heart & Vasculature* 8 (2015) 114–121.

**Review Article:**

Chung-Lieh Hung, Charles Jia-Yin Hou, Hung-I Yeh, Wen-Han Chang. Atypical Chest Pain in the Elderly: The Prevalence, Possible Mechanisms and Prognosis. *Int J Ger* 2010; 4: 1-8. (Impact Factor: 0.38)

Anil Verma, Bernard Bulwer, Ishita Dhawan, Hung-I Yeh, Chung-Lieh Hung (Corresponding).<sup>\*</sup> Aldosterone Receptor Antagonist and Heart Failure Following Acute Myocardial Infarction. *Acta Cardiologica Sinica*. 2010;26: 203-215.

Yau-Huei Lai, Chi-In Lo, Yih-Jer Wu, Chung-Lieh Hung (Corresponding) and Hung-I Yeh. Cardiac Remodeling, Adaptations and Associated Myocardial Mechanics in Hypertensive Heart Diseases. *Acta Cardiol Sin* 2013;**29:64-70** (Impact Factor: 0.253)

Chung-Lieh Hung, Charles Jia-Yin Hou, Gwo-Chi Hu, Jen-Yuan Kuo, Chia-Yu Hsu, Cheng-Ho Tsai, Hung-I Yeh, Bernard E. Bulwer, Ya-Ching Hsieh. Myths and Facts About Heart Failure with Preserved Ejection Fraction: Risk Factors, Longevity, Potential Pharmacological and Exercise Interventions. *Int J Ger* 2012. (Accepted in press, Impact Factor: 0.253)

Chi-In Lo, Yau-Hui Lai, Yih-Jer Wu, Chun-Ho Yun, Chung-Lieh Hung (Corresponding), Bernard E. Bulwer, Hung-I Yeh. Cardiac Systolic Mechanics in Heart Failure with Preserved Ejection Fraction: New Insights and Controversies. *Acta Cardiol Sin* 2013;29:515\_523.

Chung-Lieh Hung, Ta-Chuan Hung, Yau-Hui Lai, Chi-Sheng Lu, Yih-Jer Wu, Hung-I Yeh. Beyond malignancy: the role of carbohydrate antigen 125 in heart failure. *Biomarker Research* 2013, **1:25** (30 August 2013)

**2.研討會論文**

**Abstract Poster/Presentation:**

1. Automated Mitral Annular Tracking in the Evaluation of Diastolic Function: From Normal to Hypertension and Hypertrophy to Hypertrophic Cardiomyopathy

Oral Presenter

Wei-Ren Lan, Chung-Lieh Hung, Charles Jia-Yin Hou, Yu-San Chou, Cheng-Ho Tsai  
AHA Conference (Scientific Sessions 2006) Oral Presentation

2. High Correlation between 3D Echocardiography and Tissue Doppler in Regional Diastolic Function

Oral Presenter

Chung-Lieh Hung, Charles Jia-Yin Hou, Cheng-Ho Tsai, Yo-Hsang Chou,  
Fun-Chung Lin  
3<sup>rd</sup> APCHF Conference

3. Regional Left Atrial Volume-Change in Acute Myocardial Infarction : Detected by Real-Time-3-Dimensional Echocardiography

Chi-In Lo, Chung-Lieh Hung, Charles Jia-Yin Hou, Yo-San Chou, Cheng-Ho Tsai  
3<sup>rd</sup> APCHF Conference

4. 3D Echocardiography Study in Acute and Chronic LV Aneurysms After Myocardial Infarction

Lawrence Yu-Min Liu, Chung-Lieh Hung, Charles Jia-Yin Hou, Yo-San Chou,  
Cheng-Ho Tsai  
3<sup>rd</sup> APCHF Conference

5. Minimal Requirements for Left Atrial Volume Quantification by Real-Time Three-Dimensional Echocardiography

Chung-Lieh Hung, Charles Jia-Yin Hou, Cheng-Ho Tsai, Yo-Hsang Chou  
3<sup>rd</sup> APCHF Conference

6. Automated Tricuspid Annular Tacking Technique for Rapid Assessment of Left and Right Ventricular Function

Hui-Chun Lin, Chung-Lieh Hung, Charles Jia-Yin Hou, Yo-San Chou, Cheng-Ho Tsai  
3<sup>rd</sup> APCHF Conference

7. Role Of Regional Geometric Dyssynchrony By Real-time Three-dimensional Echocardiography As A Determinant Of Functional Mitral Regurgitation In Patients

With Acute Myocardial Infarction

Chung-Lieh Hung, Anil Verma, Rahman Shah, et al.

AHA Conference (Scientific Sessions 2007) Oral Presentation

8. Implementation of appropriateness criteria for echocardiography: Impact of provider specialty, professional status, and time of requisition.

Graul A, Shah AM, Hung CL, Keenan H, Mangion JR.

American Society of Echocardiography Annual Scientific Sessions 2008.

9. Strain and Strain Rate Imaging are independent predictors of mortality after high-risk myocardial infarction

Chung-Lieh Hung, Sung Hee Shin, Amira Hassanein, Anil Verma, Mikhail Bourgoun, Lars Kober, J. Malcolm O. Arnold, Scott D. Solomon

Brigham and Women's Hosp/Harvard Medical Sch, Boston, MA

ACC Conference (Scientific Sessions 2008) E-Poster

10. Mechanical Asynchrony Is an Independent Predictor of Death or Development of Heart Failure After Myocardial Infarction in Patients With Left Ventricular Dysfunction, Heart Failure, or Both: The VALIANT Echo Study

Sung Hee Shin, Chung-Lieh Hung, Amira Hassanein, Anil Verma, Mikhail Bourgoun, Lars Kober, Jalal K. Ghali, Eric J. Velazquez, Scott D. Solomon, Brigham and Women's Hospital, Boston, MA

ACC Conference (Scientific Sessions 2008) E-Poster

Best Poster Award Competition

11. Quantitative Assessment of Left Atrial Function in Patients with Hypertension and Impaired Diastolic Function

Amira Hassanein, Anil Verma, Chung-Lieh Hung, et al.

AHA Conference (Scientific Sessions 2008) Poster Session

12. Effects of Mechanical Asynchrony on Mitral Regurgitation after Acute Myocardial Infarction: The VALIANT Echo study

Sung Hee Shin, Anil Verma, Chung-Lieh Hung, et al.

AHA Conference (Scientific Sessions 2008) Poster Session

13. Parallel Improvement In Central And Peripheral Pulse Pressure And Plasma Natriuretic Peptide In Hypertension With Diastolic Dysfunction: Exceed Trial Investigators

Anil Verma, Akshay Desai, Amira Hassanein, Chung-Lieh Hung, et al.  
AHA Conference (Scientific Sessions 2008) Poster Session

14. Abnormalities of Myocardial Systolic Function are related to Cardiac Structural Changes in Patients with Hypertension and Diastolic Dysfunction: The VALIDD Study

Chung-Lieh Hung, Anil Verma, Akshay Desai, et al.  
AHA Conference (Scientific Sessions 2008) Oral Presentation

15. Role of Longitudinal and Circumferential Strain Rate in the Prediction of Left Ventricular Remodeling and Prognosis After Myocardial Infarction: The VALIANT Study

Chung-Lieh Hung, Anil Verma, Mikhail Bourgoun, et al.  
AHA Conference (Scientific Sessions 2008) Oral Presentation

16. Decreased Global Longitudinal Strain in Diabetics With Preserved Ejection Fraction Post-Myocardial Infarction: A VALIANT Echo Sub-study.

Amil M. Shah, Chung-Lieh Hung, Sung Hee Shin, et al.  
ACC Conference (Scientific Sessions 2009) Poster Session  
JACC, March 10, 2009; 1051-179.

17. Relationship Between Arterial Stiffness and Cardiac Structure and Function in Patients With Hypertension and Diastolic Dysfunction: The VALIDD Trial.

Anil Verma, Akshay Desai, Chung-Lieh Hung, et al.  
AHA Conference (Scientific Sessions 2009) Poster Session  
Circulation, Nov 2009; 120: S1006.

18. Ventricular Dys-synchrony by Real-Time Three-Dimensional Echocardiography as a Determinant of Functional Mitral Regurgitation Independent of Global and Regional Geometry After Acute Myocardial Infarction.

Chung-Lieh Hung, Charles Jia-Yin Hou, Hung-I Yeh  
AHA Conference (Scientific Sessions 2009) Poster Session  
Circulation, Nov 2009; 120: S305.

19. Influence of Diastolic Function on Outcome Following High Risk Myocardial Infarction

Sung-Hee Shin, Chung Lieh Hung, Amira H. Hassanein, John J.V McMurray, Eric J. Velazquez, Lars Kober, Marc A. Pfeffer, Scott D. Solomon, Brigham and Women's Hospital, Boston, MA  
ACC Conference (Scientific Sessions 2009) Poster Session  
JACC, March 10, 2009; 1018-245.

20. Epicardial Fat Amount relating to Insulin Resistance, Metabolic derangements and Non-Alcoholic Fatty Liver Disease Independently Contributes to Systemic Inflammation beyond Body Fat Composition: A Study Validated with Computed Tomography.

Yau-Huei Lai, Chun-Ho Yun, Fei-Shih Yang, Chuan-Chuan Liu, Yih-Jer Wu, Jen-Yuan Kuo, Hung-I Yeh, Tin-Yu Lin, Hiram G Bezerra, Shou-Chuan Shih, Cheng-Ho Tsai, Chung-Lieh Hung

ESC Conference (Scientific Sessions 2011) Poster Session

21. CA 125 as a novel clinical surrogate for heart failure with preserved ejection fraction and an independent predictor for heart failure hospitalization in women.

YJ Wu, TC Hung, HI Yeh, JY Kuo, CJ. Hou, CL Hung.

ESC Conference (Scientific Sessions 2011) Oral Session

22. Impact of Epicardial Adipose Tissue in Modulating Cardiac Mechanics, Contractile Function and Twist Behavior - Possible Mechanisms in the Transition from Hypertension to Heart Failure Development

Chung-Lieh Hung, Chun-Ho Yun, Chuan-Chuan Liu, Hung-I Yeh, Charles Jia-Yin Hou, Cheng-Ho Tsai, and Ta-Chuan Hung

AHA 2011 Scientific Session (poster session)

Circulation. 124:A13180,

23. Abstract 9746: Differential Impact of Dose-Related Chronic Alcohol Ingestion on Action Potential Upstroke, Systolic Myocardial Function and Cardiac Pro-inflammatory Factors mRNA Expression in Male C57BL/6 Mice

Chung-Lieh Hung, Yu-Jun Lai, Ting-Yi Tien, Ya-Ming Tseng, Cheng-I Lin, Yao-Chang Chen, and Hung-I Yeh

AHA 2011 Scientific Session (poster session)

Circulation. 124:A9746,

24. Different Impacts of Body Fat Composition and Computed Tomography Determined Visceral Fat on Left Ventricular Mass, Geometry and Left Atrial Structural Alteration

Yau-Huei Lai, Chun-Ho Yun, Yih-Jer Wu, Jen-Yuan Kuo, Hung-I Yeh, Cheng-Ho Tsai, and Chung-Lieh Hung

Circulation. 124:A9913,

AHA 2011 Scientific Session (poster session)



25. Association Between Renal Function and Myocardial Contractile Function following Myocardial Infarction-The VALIANT Echo Substudy

Chung-Lieh Hung, Sung-Hee Shin, Lars Kober, Eric J. Velazquez, John J. V. McMurray, Marc A. Pfeffer, and Scott D. Solomon

AHA 2011 Scientific Session (oral session)

Circulation. 124:A12905,

26. Relation of N-terminal pro-B-type Natriuretic Peptide with Diastolic Function in Hypertensive Heart Disease\_Imran Uraizee, BS,<sup>1</sup> Susan Cheng, MD,<sup>1</sup> Chung-Lieh

Hung, MD,<sup>2</sup> Anil Verma, MD,<sup>3</sup> James D. Thomas, MD,<sup>4</sup> Michael R. Zile, MD,<sup>5</sup> Gerard P. Aurigemma, MD,<sup>6</sup> Scott D. Solomon, MD<sup>1</sup>

ACC 2012 Scientific Session (poster session)

27. The association between computed tomography-derived three-dimensional pericardial adipose burden, cardiac structural alteration and diastology.

YH. Lai, CH. Yun, CH. Yen, YJ. Wu, JY. Kuo, HI. Yeh, CL. Hung (Corresponding).

ESC Conference (Scientific Sessions 2012) Poster Session

28. Real-time three-dimensional strain and cardiac twist as a clinical prognosticator beyond ventricular ejection fraction or ventricular mass in heart failure patients.

SN. Chang, YAU-HU. Lai, CHIH-H. Yen, CHIA-T. Tsai, JIA-Y. Hou, JEN-Y. Kuo, CL. Hung (Corresponding), JUEY-J. Hwang, HUNG-I. Yeh

ESC Conference (Scientific Sessions 2012) Oral Session

29. Inter-atrial Regional Adipose Burden in Relation to Metabolic Abnormalities as a Novel Clinical Marker for Left Atrial Remodeling in Preserved Ejection Fraction Heart Failure

Chung-Lieh Hung, Chun-Ho Yun, Yau-Huei Lai, Jen-Yuan Kuo, Yih-Jer Wu, Chuan-Chuan Liu, Hung-I Yeh

AHA Conference (Scientific Sessions 2012) Poster Session

30. The Morphologic and Topographic Characters of Pulmonary Vein Function in Relation to Velocity of Propagation and Diastology in Heart Failure with Preserved Ejection Fraction: A Dedicated Computed Tomography Study. Chun-Ho Yun, et al. Chung-Lieh Hung (Corresponding)

AHA Conference (Scientific Sessions 2012) Oral Session

31. Computed tomography-derived three-dimensional pericardial adiposity as an

independent determinant in mediating ventricular diastolic dysfunction, ventricular dyssynchrony and atrial remodeling

YH. Lai, CH. Yun, JY. Kuo, TC. Hung, YJ. Wu, HI. Yeh, CL. Hung

ESC Conference (Scientific Sessions 2013) Poster Session

32. Volume-rendered regional adipose tissue depots correlated with circulating hs-CRP as an independent clinical predictor for left atrial remodeling beyond BMI in asymptomatic population

YH. Lai, CH. Yun, JY. Kuo, TC. Hung, YJ. Wu, HI. Yeh, CL. Hung

ESC Conference (Scientific Sessions 2013) Poster Session

33. The Feasibility and Utilization of Tissue Doppler Imaging, Longitudinal and Circumferential Strain and Strain Rate in the Diagnostic Accuracy for Heart Failure with Preserved Ejection Fraction

WR. Lan, CH. Yun, JY. Kuo, TC. Hung, YJ. Wu, Charles Jia-Yin Hou, HI. Yeh, CL. Hung

ESC Conference (Scientific Sessions 2013) Poster Session

34. The Association between Habitual Alcohol Intake and Electrical Conduction Disturbances: Mechanistic Insights into the Electrical Disturbances after Long-term Ethanol Ingestion

Chung-Lieh Hung, Yu-Jun Lai, Po-Ching Chi, Liang-Chia Chen, Ya-Ming Tseng, Jen-Yuan Kuo, Cheng-I Lin, Yao-Chang Chen, and Hung-I Yeh

ESC Conference (Scientific Sessions 2013) Oral Session

35. 6<sup>th</sup> APHRS CARDIORHYTHM 2013/12/30

Invited Speaker

Session: Basic Research - Session 7: New Insights Into the Mechanism and Management of Ventricular Fibrillation

Topic: Alcohol and Cardiac Arrhythmias

Date / Session time: Saturday, 5 October 2013, 08:30 - 10:10

36. Ectopic Atrial Adiposity, Metabolic Derangements and Left Atrial Electro-mechanical Disturbances in Preserved Ejection Fraction Heart Failure

Kuo-Tzu Sung, Yi-Ching Chen, Chun-Ho Yun, Yau-Huei Lai, Wei-Ren Lan, Hung-I Yeh, Chung-Lieh Hung

24<sup>th</sup> annual Echo Hawaii, ASE (2014) Poster session: Win the first prize

37. The Evidence between Minor Degree Renal Functional Impairment, Sub-clinical Cardiac Systolic Dysfunction and Impaired Diastology. *WR. Lan, KT. Sung, JY. Kuo, JY. Hou, HI. Yeh, CL. Hung*

ESC Conference (Scientific Sessions 2014) Poster Session

38. Yau-Huei Lai, Chun-Ho Yun, Jen-Yuan Kuo, Jia-Yin Hou, Hung-I Yeh, Chung-Lieh Hung. The mechanistic link between interatrial adiposity, morphological left atrial remodeling and functional features in asymptomatic population.

AHA Conference (Scientific Sessions 2014) Poster Session

39. Yau-Huei Lai, Kuo-Tzu Sung, Jen-Yuan Kuo, Jia-Yin Hou, Hung-I Yeh, Chung-Lieh Hung. The influences of obesity on cardiac remodeling, geometric alteration and diastolic patterns in a large Asian population with preserved ejection fraction.

AHA Conference (Scientific Sessions 2014) Poster Session

### 3. 專書及專書論文

#### **Book Chapter**

Chung-Lieh Hung, Yau-Huei Lai, Yih-Jer Wu, Hung-I Yeh.

**Chapter:** Impact of Blood Pressure on Coupled Ventricular and Vascular Stiffening, Related Cardiac Structural Remodeling and Eventual Functional Decay: Transition from Subclinical Systolic Dysfunction to Heart Failure (Accepted in press)

**Book Title: Systolic Blood Pressure: Influences, Associations and Management**

**NOVA Publisher**

[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=15880](https://www.novapublishers.com/catalog/product_info.php?products_id=15880)

**Figure 4-25, Page: 63, Velocity Vector Images Courtesy. Chapter: Assessment of Systolic Function. Atlas of Echocardiography. 2<sup>nd</sup> Edition.**

**Editor: Scott D. Solomon.**

**Eugene Braunwald series Editor.**

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