



NAME 張坤正 Kuan-Cheng Chang		POSITION TITLE Professor of Medicine	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
China Medical University, Taiwan	M.D.	1981-1988	Medicine
Johns Hopkins University, USA	Visiting Assistant Professor	2005-2007	Cardiology
China Medical University, Taiwan	Ph.D	2007-2010	Medicine

### CURRENT POSITIONS

**2015/07- Present** Director of Cardiovascular Medicine, China Medical University Hospital, Taichung, Taiwan

**2015/09- Present** Professor of Medicine, School of Medicine, China Medical University, Taichung, Taiwan

### RESEARCH INTEREST

1. Clinical and cellular electrophysiology
2. Heart failure
3. Catheter ablation for cardiac arrhythmias
4. Cardiac device implantation
5. Stem cell research

### HONORS

1. **1993**, Best Research Article Award of Chang Gung Memorial Hospital
2. **1997**, Best Teaching Award of China Medical University Hospital
3. **2010**, Industry-academic Cooperation Award of China Medical University
4. **2010**, Distinguished Research Award of Graduate Institute of Clinical Medical Science, China Medical University
5. **2010**, Poster Award of the 41<sup>st</sup> Annual Convention and Scientific Session of the Taiwan Society of Cardiology
6. **2013**, Industry-academic Cooperation Award of China Medical University
7. **2015**, Industry-academic Cooperation Award of China Medical University
8. **2015**, Fellow of the European Society of Cardiology
9. **2015**, Ellite Physician Award of China Medical University Hospital
10. **2016**, Outstanding Reviewer Award of HEART & LUNG - THE JOURNAL OF ACUTE AND CRITICAL CARE

## **REVIEWER**

1. **British Medical Journal**
2. **American Journal of Cardiology**
3. **PLOS One**
4. **Journal of Cardiovascular Electrophysiology**
5. **Journal of Interventional Cardiac Electrophysiology**
6. **Heart & Lung: The Journal of Acute and Critical Care**
7. **Drug and Alcohol Dependence**
8. **Journal of the Formosan Medical Association**
9. **Journal of the Chinese Medical Association**
10. **Acta Cardiologica Sinica**
11. **Journal of Cardiology and Therapy**
12. **Journal of Neurocardiovascular Diseases**
13. **Indian Heart Journal**
14. **Cardiovascular Diabetology**

## **PEER-REVIEWED PUBLICATIONS (SINCE 2013)**

1. Yu-Chen Wang, Ying-Ying Huang, Ping-Hang Lo, **\*Kuan-Cheng Chang**, Chu-Huang Chen, Ming-Fong Chen. Age-dependent impact of new ESC-Guideline recommended door-to-balloon times on mid-term survival in acute ST-elevation myocardial infarction patients undergoing primary percutaneous coronary intervention. *International Journal of Cardiology* 222 (2016) 242–246. **(Corresponding author)**
2. Lien-Cheng Hsiao, Chih-Hsin Muo, Che-Yi Chou, ChunHung Tseng, Ming-Fong Chen, and **\*Kuan-Cheng Chang**. Chronic Osteomyelitis is Associated with Increased Risk of New-Onset Atrial Fibrillation: Evidence from a Nationwide Cohort of 23 Million People. *Canadian Journal of Cardiology* (2016), doi: 10.1016/j.cjca.2016.04.006. **(Corresponding author)**
3. Wei-Syun Hu, Cheng-Li Lin, Shih-Sheng Chang, Ming-Fong Chen, and **\*Kuan-Cheng Chang**. Increased risk of ischemic heart disease among subjects with cataracts. A population-based cohort study. *Medicine* (2016), <http://dx.doi.org/10.1097/MD.00000000000004119>. **(Corresponding author)**
4. Wei-Syun Hu, Cheng-Li Lin, Chih-Yang Huang, Shih-Sheng Chang, and **\*Kuan-Cheng Chang**. Cataract increases the risk of peripheral artery occlusive disease: A nationwide population-based cohort study with propensity score. *International Journal of Cardiology* (2016), <http://dx.doi.org/10.1016/j.ijcard.2016.06.084>. **(Corresponding author)**
5. **Kuan-Cheng Chang**, Shih-Chieh Hung. Hypoxia-preconditioned allogeneic mesenchymal stem cells can be used for myocardial repair in non-human primates. *Journal of Thoracic Disease* (2016), <http://dx.doi.org/10.21037/jtd.2016.05.46>.
6. Jan-Yow Chen, Jiung-Hsiun Liu, Hong-Dar Isaac Wu, Kuo-Hung Lin, **Kuan-Cheng Chang**, and Ying-Ming Liou. Transforming Growth Factor- $\beta$ 1 T869C Gene Polymorphism Is Associated with Acquired Sick Sinus Syndrome via Linking a Higher Serum Protein Level. *PLoS One*. 2016 Jul 5;11(7):e0158676. doi: 10.1371/journal.pone.0158676.
7. Shen MY, Chen FY, Hsu JF, Chang CM, Chang CT, Liu CH, Wu JR, Lee AS, Chan HC, Sheu JR, Lin SZ, Sawamura T, **Kuan-Cheng Chang**, Hsu CY\*, **Chen CH\***. Plasma L5 levels are elevated in ischemic stroke patients and enhance platelet activation and aggregation. *Blood*.

2016 Mar 10;127(10):1336-45. doi: 10.1182/blood-2015-05-646117.

8. **Kuan-Cheng Chang**, An-Sheng Lee, Wei-Yu Chen, Yen-Nien Lin, Jing-Fang Hsu, Hua-Chen Chan, Chia-Ming Chang, Shih-Sheng Chang, Chia-Chi Pan, Tatsuya Sawamura, Chi-Tzong Chang, Ming-Jai Su, Chu-Huang Chen. Increased LDL electronegativity in chronic kidney disease disrupts calcium homeostasis resulting in cardiac dysfunction. *Journal of Molecular and Cellular Cardiology*. 2015;84:36-44.
9. Chi-Cheng Lai, **Kuan-Cheng Chang**, Pen-Chih Liao, Chia-Tung Wu, Wen-Ter Lai, Chiung-Jen Wu, Shu-Chen Chang, Guang-Yuan Mar. Effects of Door-to-Balloon Times on Outcomes in Taiwanese Patients Receiving Primary Percutaneous Coronary Intervention: A Report of Taiwan Acute Coronary Syndrome Full Spectrum Registry. *Acta Cardiologica Sinica*. 2015;31(3):215-225.
10. Ya-Sian Chang, Yi-Wen Yang, Yen-Nien Lin, Kuo-Hung Lin, **\*Kuan-Cheng Chang**, and Jan-Gowth Chang. Mutation analysis of KCNQ1, KCNH2 and SCN5A genes in Taiwan long QT syndrome patients. *International Heart Journal* 2015 (accepted) (**Co-Corresponding author**)
11. Yu-Chen Wang, Hung-Pin Wu, Ping-Hang Lo, Hsin-Yueh Liang, and **\*Kuan-Cheng Chang**. Impact of Prolonged Door-to-Balloon Times on the Diastolic Function in Acute ST-Elevation Myocardial Infarction Patients Undergoing Primary Percutaneous Coronary Intervention. *Acta Cardiologica Sinica* 2015;31(4):281-291. (**Corresponding author**)
12. **Kuan-Cheng Chang**, Yu-Chen Wang, Po-Yen Ko, Hung-Pin Wu, Yu-Wei Chen, Chih-Hsin Muo, Fung-Chang Sung, Tsai-Chung Li, and ChungY. Hsu. Increased Risk of First-Ever Stroke in Younger Patients with Atrial Fibrillation not Recommended for Antithrombotic Therapy by Current Guidelines: A Population-Based Study in an East Asian Cohort of 22 Million. *Mayo Clinic Proceedings* 2014;89(11):1487-1497.
13. Lien-Cheng Hsiao, Chih-Hsin Muo, Yu-Ching Chen, Che-Yi Chou, Chun-Hung Tseng, and **\*Kuan-Cheng Chang**. Increased Risk of Coronary Heart Disease in Patients with Chronic Osteomyelitis: A Population-Based Study in a Cohort of 23 Million. *Heart* 2014 doi:10.1136/heartjnl-2014-305652. (**Corresponding author**)
14. Lee AS, Chen WY, Chan HC, Hsu JF, Shen MY, Chang CM, Bair H, Su MJ, **\*Kuan-Cheng Chang**, Chen CH. Gender disparity in LDL-induced cardiovascular damage and the protective role of estrogens against electronegative LDL. *Cardiovasc Diabetol*. 2014 Mar 25;13:64. doi: 10.1186/1475-2840-13-64. (**Co-Corresponding author**)
15. Lin YN, Chang YJ, Chen YH, Ko PY, Lin CL, Sung FC, **Kuan-Cheng Chang**, Kao CH. Nationwide population-based cohort study on the association of acute coronary syndrome in patients with malignancies. *Support Care Cancer*. 2014;22(10):2707-13.
16. Lin YN, Lin CL, Chang YJ, Peng CL, Sung FC, **Kuan-Cheng Chang**, Kao CH. Increased subsequent risk of acute coronary syndrome for patients with depressive disorder: A nationwide population-based retrospective cohort study. *Psychiatry Clin Neurosci*. 2014;68(4):263-9.
17. Lin YN, Lin CL, **Kuan-Cheng Chang**, Kao CH. Increased subsequent risk of acute coronary syndrome for patients with dermatomyositis/polymyositis: a nationwide population-based

retrospective cohort study. Scand J Rheumatol. 2014 Sep 10:1-6. [Epub ahead of print].

18. Yen Nien Lin, Hsin-Yueh Liang, Ping-Han Lo, **Kuan-Cheng Chang**, Yeh-Peng, Chen. Preccordial ST-segment elevation caused by proximal occlusion of a non-dominant right coronary artery. Acta Cardiologica Sinica 2014;30:497-500.
19. Yeh-Peng Chen, **Kuan-Cheng Chang**, Wei-Kung Tseng, Wei-Hsian Yin, Jaw-Wen Chen, Yuan-Teh Lee, Chau-Chung Wu. Increased Rosuvastatin Dose versus Concomitant Fenofibrate and Rosuvastatin Therapy to Achieve Lipid Goal in Patients with Diabetes or Atherosclerosis with Metabolic Syndrome. Acta Cardiologica Sinica 2013;29:421-428.
20. Chang SS, \***Kuan-Cheng Chang**, Wang YC, Muo CH, Pai PY, Chang CB, Li CY, **Sung FC**. Digoxin use is associated with increased risk of stroke in patients with non-valvular atrial fibrillation - a nationwide population-based cohort study. Int J Cardiol. 2013 Oct 30;169(2):e26-7. doi: 10.1016/j.ijcard.2013.08.103. Epub 2013 Sep 8. (**Corresponding author**)
21. **Kuan-Cheng Chang**, Tetsuo Sasano, Yu-Chen Wang, and Shoei K. Stephen Huang. NOS1AP, an Emerging New Genetic Marker for QT Prolongation and Sudden Cardiac Death. Acta Cardiologica Sinica 2013;29:217-225.

### **RECENT RESEARCH SUPPORT**

1. A translational study of apolipoprotein CIII-mediated cardiorenal syndrome (**NHRI-EX103-10305SI, NHRI-EX104-10305SI, NHRI-EX105-10305SI**) funded by National Health Research Institute, Taiwan
2. Role of electronegative LDL in CKD-related cardiac diastolic dysfunction (**MOST 103-2314-B-039-029**) funded by Ministry of Science and Technology, Taiwan
3. Identification of new epidemiological, biochemistry, and genetic risk factors linking to the susceptibility of Ventricular Tachycardia/Fibrillation in patients with out-of-hospital cardiac arrest (**MOST 104-2314-B-039-048**) funded by Ministry of Science and Technology, Taiwan
4. Electrical Remodeling and Susceptibility for Ventricular Arrhythmias in an Experimental Model of Chronic Kidney Disease (**MOST 105-2314-B-039-041**) funded by Ministry of Science and Technology, Taiwan