

Prospective Randomized Controlled Trial of Myocardial Protection by Activation of Preconditioning Mechanisms with Glucose-Insulin-Potassium or Ramipril in Patients Undergoing Coronary Intervention

## Dr. Eugene Brian Wu

Division of Cardiology, Chinese University Hong Kong, Hong Kong

## Abstract:

Background: Preconditioning (PC) is triggered via additive parallel pathways. PTCA induced enzyme leak is a human preconditioning model correlating to outcome. We aim to test myocardial protection by Glucose-Insulin-Potassium (GIK) and Ramipril (ACEI) in humans.

Methods: 226 consecutive patients undergoing PTCA were randomized to groups 1 Ramipril 5mg (2.5mg if <50Kg). 2 GIK (30% glucose, 50 units actrapid insulin, 80mmol potassium at 1.5 ml/Kg/Hr), 3 ACEI and GIK, and 4 placebo. Exclusions: age >70, creatinine > 200 mmol/l, rising troponin levels (tnt), and contraindications to ACEI/GIK. Tnt was taken at –6, 0, and + 12 hours. Results: 226 patients aged 57.2 years with 79% males. The post procedural tnt, tnt rise, and %tnt

**Biography**: Dr Eugene B Wu has completed his MD in Cardiology from the University of London in 2001. He is currently working at the Prince of Wales Hospital Chinese University Hong Kong as a consultant Interventional Cardiologists. He is the director of APCTO club, and he has a residual interests in myocardial proctection. He has published more than 40 papers in reputed journals.

## 6th World Heart Congress October 19-20, 2020



## **Publications:**

 Evaluating the Mechanical Properties of Admixed Blended Cement Pastes and Estimating its Kinetics of Hydration by Different Techniques
Genetic Diversity Using Random Amplified Polymorphic DNA (RAPD) Analysis for Aspergillus niger isolates
Au-Ag-Cu nanoparticles alloys showed antifangal activity against the antibiotics-resistant Candida albicans
Induce mutations for Bavistin resistance in Trichoderma harzianum by UVirradation
Biliary Sludge. Analysis of a Clinical Case

**Abstract Citation:** Dr. Eugene Brian Wu, Prospective Randomized Controlled Trial of Myocardial Protection by Activation of Preconditioning Mechanisms with Glucose-Insulin-Potassium or Ramipril in Patients Undergoing Coronary Intervention, HEART CONFERENCE 2020, 6th World Heart Congress, October 19-20,2020