**THE BLOOD PRESSURE CONTROL RATE OF CHINESE OUTPATIENTS WITH CORONARY HEART DISEASE: A CROSS-SECTIONAL STUDY**

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**Objectives** To investigate the current status of blood pressure (BP) treatment-goal in outpatients with coronary heart disease (CHD) in China to identify the independent risk factors of BP treatment goal achievement in these outpatients.

**Methods** In this cross-sectional survey, participants with CHD aged ≥55 years were recruited from 606 hospitals from June 2006 to January 2007 in Beijing, Shanghai, Tianjin, Guangdong, Zhejiang and Xinjiang in China.

**Results** 68.6% of the subjects had hypertension (female 76.0% vs male 64.5%, p<0.001). The goal of BP achievement was SBP<130 mm Hg and DBP<80 mm Hg for CHD outpatients in this study. The success rate for achieving the BP target in CHD outpatients was 26.4% (female 23.1% vs male 28.5%, p<0.001). The success rate for achieving the BP target in CHD outpatients was 18.1%. The independent risk factors of achieving the BP target for CHD outpatients with hypertension were BMI ≥23 kg/m², minority nationalities and use of statins. The OR of these risk factors were 1.423 (95% CI 1.171 to 1.729), 0.438 (95% CI 0.279 to 0.686) and 0.768 (95% CI 0.593 to 0.995), respectively. The incidence of acute myocardial infarction, percutaneous coronary intervention and coronary artery lesions were significantly higher in CHD outpatients with SBP<110 mm Hg and/or DBP<60 mm Hg than those in CHD outpatients with SBP≥110 mm Hg and DBP≥60 mm Hg (p<0.001).

**Conclusion** This survey demonstrated the success rate for achieving the BP target was low in Chinese CHD outpatients, especially in CHD outpatients with hypertension. BMI ≥23 kg/m², minority nationalities and use of statins were the independent risks of achieving the BP target for CHD outpatients with hypertension.

**BETTER CRITERION SCREENING FOR LEFT VENTRICULAR HYPERTROPHY BY ELECTROCARDIAGRAM WITH DIFFERENT PURPOSES**

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**Background** According to the Recommendations for the Standardisation and Interpretation of the ECG of AHA/ACCF/HRS declared in 2009, there are more than 30 criteria for diagnosing left ventricular hypertrophy (LVH). The sensitivity of the various criteria is generally quite low. However, the specificity of ECG in LVH could be 85–90%, acting as a strong predictor for cardiovascular events.

**Purpose** To investigate the proper criteria in epidemiological screening with different purpose.

**Method** 5209 qualified ECG out of 6830 people were selected from cross-sectional Handan Eye Study. 2 criteria were chosen: (1) Sokolow-Lyon index—sum of SV1+RV5 or V6≥35 mm; (2) Cornell voltage duration product—men: (SV3+RaVL)×QRS duration ≥2440 ms; women: (SV3+(RaVL+8 mV))×QRS duration ≥2440 ms. The ECG-LVH group contains 829 individuals (12.1%of the cohort), including 607 by Sokolow-Lyon index and 272 by Cornell voltage duration product.

**Result** After estimated data, we found there is no statistical differences between ECG-LVH population and normal population. While evaluated these data in the group that have Retinopathy without diabetes, the Sokolow-Lyon index and Cornell voltage duration product are statistically different with normal population (p=0.023, p=0.014, respectively). We use the simple MMSE to evaluated the mental status of the population, and found that when the score above 15, there is no statistically different between the positive and negative people in Sokolow-Lyon index (p=0.135); however, while evaluated Cornell voltage duration product, there is statistically difference (p=0.001). When evaluated the data associated with atherosclerotic factors, we find no differences in Cornell Voltage-Duration Product; as for the Sokolow-Lyon index, the differences are shown in systolic blood pressure, total cholesterol and uric acid (p=0.03, 0.04, 0.04, respectively).

**Conclusion** Different criterion should be chosen for different purposes. For atherosclerotic screening or epidemiological survey of cardiovascular diseases, the Sokolow-Lyon Index might be better. If we use the criterion for epidemiological ophthalmology such as our Handan Eye study, both Sokolow-Lyon Index and Cornell voltage duration Product could be used. As for the evaluation of mental status and its relationship with the LVH risk factors, we might choose Cornell voltage duration product.