

rs1126742). In a Uyghur population, 331 CAD patients and 182 controls were genotyped for the same 4 SNPs. The data were assessed via a haplotype-based case-control studies.

**Results** In a Han population, the distribution of SNP3 (rs3890011) genotypes showed a significant difference between CAD and control subjects ( $p=0.030$ ), the distribution of the recessive model of SNP3 (GG vs CC+GC) was significantly higher in CAD patients than control subjects ( $p=0.011$ ), the significant difference was retained after adjustment for covariates (95%CI: 1.137–2.423,  $p=0.009$ ). Three SNPs (SNP1, SNP3, SNP4) were located in one haplotype block, and the overall distribution of haplotypes constructed with these SNPs was significant ( $p=0.023$ ). The G-G-T haplotype in CAD was significantly higher than that in control group ( $p=0.037$ ). In a Uyghur population, neither the distribution of genotypes and alleles for the 4 SNPs showed significant difference nor the distribution of haplotypes constructed with the same three SNPs between CAD and control subjects.

**Conclusions** GG genotype of rs3890011 in CYP4A11 gene is associated with CAD in a Han population of China. The G-G-T haplotype could be a useful genetic marker of CAD in a Han population of China. There is no association between the 4 SNPs (rs9332978, rs4660980, rs3890011, rs1126742) of the CYP4A11 gene and CAD in a Uyghur population of China.

GW23-e1395

#### HAPLOTYPE STUDY OF THE CYP4A11 GENE AND CORONARY ARTERY DISEASE IN A HAN AND A UYGUR POPULATION OF CHINA

doi:10.1136/heartjnl-2012-302920a.93

Yitong Ma, Zhenyan Fu, Yitong Ma. *Department of Cardiovascular Medicine, First Affiliated Hospital of Xinjiang Medical University, Urumqi, China*

**Objectives** CYP4A11 (cytochrome P450, family 4, subfamily A, polypeptide 11) converts arachidonic acid to 20-hydroxyeicosatetraenoic acid (20-HETE), which plays a crucial role in the modulation of cardiovascular homeostasis. The aim of the present study was to assess the association between the human CYP4A11 gene and coronary artery disease (CAD) in a Han and a Uyghur population of China.

**Methods** In a Han population, 361 CAD patients and 315 controls were genotyped for 4 single-nucleotide polymorphisms (SNPs) of the human CYP4A11 gene (rs9332978, rs4660980, rs3890011,