Central China. At this interview, 68.2% outpatients were prescribed statins and 24.1% prescribed doses of statins were sub-minimal.

**Conclusion** There was a gap between Chinese patients with CHD prevention recommended in guidelines and that in the "real world."

**e0299 INTENSIVE CHOLESTEROL LOWERING WITH SIMVASTATIN IMPROVES OUTCOMES OF PERCUITANEOUS CORONARY INTERVENTION IN PATIENTS WITH ACUTE CORONARY SYNDROME**

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**Objective** To evaluate the immediate protective effects of intensive statin pretreatment on myocardial perfusion and myocardial ischemic injury during PCI.

**Methods** A total of 228 acute coronary syndrome (ACS) patients were randomly divided into standard statin group (SSG, n=115) and intensive statin group (ISG, n=113). Patients in SSG received 20 mg simvastatin and patients in ISG received 80 mg simvastatin for 7 days before PCI. TIMI grade flow (TGF), corrected TIMI frame count (CTFC) and TIMI myocardial perfusion grade (TMPG) of the intervened vessel were recorded before and after stent deployment. Plasma level of CK-MB and cTnI were measured before and 24 h after the procedure.

**Results** The TGF after stent deployment was significantly improved with less TIMI 0–1 patients and more TIMI 3 blood flow in ISG than in SSG (all p<0.05). Patients with no reflow phenomenon were less in ISG (p<0.001). The CTFC was lower in ISG than SSG (p<0.001). TMPG was also improved in ISG than SSG (p=0.001). Twenty-four hours after the procedure, although PCI caused significantly increase in CK-MB, the elevated CK-MB value was lower in ISG than SSG (18.74±8.41 vs 21.78±10.64 p=0.018). Similar changes were also found with regard to Troponin I (0.99±1.07 vs 1.47±1.54, p=0.006). No myocardial infarction was found. Among them, myocardial necrosis was detected in 13% of the patients in SSG, while 4.4% in ISG (p=0.021). Myocardial infarction was found in 4.4% in the patients in SSG and 0.9% in ISG (p=0.215).

**Conclusion** Intensive statin pretreatment for 7 days before PCI can further improve myocardial blood perfusion, protect myocardium from ischemic injury.

**e0299 INCIDENCE AND PREDICTORS OF HYPERTENSION AMONG RURAL CHINESE ADULTS: RESULTS FROM LIAONING PROVINCE**

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**Objective** To determine the incidence of hypertension and its risk factors among rural Chinese adults.

**Methods** A population-based sample of 24 360 rural Chinese adults aged ≥35 years and free from hypertension at baseline were followed from 2004–2006 to 2008. Incident hypertension was defined as systolic pressure ≥140 mm Hg, diastolic pressure ≥90 mm Hg, or current use of antihypertensive medication.

**Results** Over a mean of 28 months of follow-up, 29.6% of men and 28.4% of women developed hypertension. The age-adjusted incidence rate was higher in men (12.75 per 100 person-years) than in women (10.04 per 100 person-years). Among men, independent predictors of incident hypertension were baseline age (RR per 5 years: 1.11, 95% CI 1.10 to 1.13), Mongolian ethnicity (RR: 1.09, 95% CI 1.01 to 1.18), use of alcohol, (RR: 1.14; 95% CI 1.06 to 1.25), high income versus low income (RR: 1.11; 95% CI 1.00 to 1.22; RR: 1.11; 95% CI 1.03 to 1.20), prehypertension versus normotension (RR: 1.18; 95% CI 1.08 to 1.25), overweight and obesity (RR: 1.28; 95% CI 1.17 to 1.40), baseline salt intake (RR per one g/day: 1.00; 95% CI 1.00 to 1.01) and family history of hypertension (RR: 1.14; 95% CI 1.05 to 1.27). With the exception of use of alcohol, mean income, low physical activity was shown as risk factors in women; the results were similar for women. The awareness, treatment and control rates for newly developed hypertension were 29.9%, 19.5% and 15.9% respectively.

**Conclusions** These data indicate that the incidence of hypertension is high among these rural Chinese adults and it is associated with many risk factors. And suggest that most newly developed hypertension cases are not treated. These increases in hypertension are probably related to rapid social changes in our country and may apply to other areas of the developing world. These results call for urgent improvements in hypertension prevention and control programs in rural China.

**Epidemiology and Preventive Medicine: Lipid Research**

**e0300 RELATIONSHIP OF POLYMORPHISM OF APOLIPOPROTEIN E ALLELES WITH CORONARY HEART DISEASE**

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**Objective** To study the relationship of the apolipoprotein (apo) E with coronary heart disease (CHD).

**Methods** We studied 68 patients with CHD and 59 control subjects without CHD. Polymorphism of ApoE alleles were measured by PCR, Hhal enzyme digestion and polyacrylamide gel electrophoresis.

**Results** TC, TG, LDL-c, apoB, LP (a) level of CHD group were higher than control (p<0.05); There were significant differences in gene frequency of apo E alleles between CHD and control group but HDL, APOAI level of CHD group were lower than control; when compared between the E3 and the E4, the E2 frequency were related with CHD (RR=3.5611, 95% CI 1.1693 to 6.8965, p<0.01). **Conclusion** ApoE gene polymorphisms affects serum TC, LDL-C, apoB and LP (a) levels in CHD and apoE allele E2 is a risk factor in the occurrence of CHD.

**e0301 THE RELATIONSHIP BETWEEN APOLIPOPROTEIN E GENE POLYMORPHISMS AND CORONARY ATHEROSCLEROSIS DISEASE IN THE NORTHERN CHINESE**

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**Background** Previous studies on the attribution of apolipoprotein (apo) E polymorphisms on the occurrence of coronary atherosclerosis disease (CAD) showed inconsistent results. Apo E is a constituent of lipoproteins with considerable variation due to cysteine-arginine exchanges. We investigated the relation between apo E gene polymorphism and the occurrence of CAD in northern Chinese.

**Methods** The distributions of the Hhal polymorphisms of the apo E gene and blood lipids levels were determined among 152 Chinese subjects in relation to circulating lipids and coronary angiography.