Methods A study was made cardiovascular disease of uygur population in hotan prefecture by registration in patients from Guma county hospital Total annual number of cardiovascular disease and coronary heart disease, Essential Hypertension, rheumatic heart disease, Cardiomyopathy, Pulmonary heart disease, Congenital heart disease and out comes were analysed.

Result The percentage of EH from 1996 13.7% to 2005 22.4%, the percentage of CHD from 1996 7.6% to 2005 14.2 % the percentage of rheumatic heart disease from 1996 1.6% to 2005 3.5% the percentage of cardiomyopathy from 1996 1.9% to 2005 3.3% Pulmonary heart disease from 1996 4.4% to 2005 5.7%, the trend in cardiovascular diseases of Uighur population in hotan prefecture resented 10 years was change gradually, the annual percentage of Essential Hypertension, Coronary heart disease are rising significantly in resented 10 years, the annual percentage of rheumatic heart disease and Cardiomyopathy are slightly increased during this period (all $p < 0.05$).

Conclusion Prevention for cardiovascular disease should be strengthened in this area.

e0271 THE TREND OF CARDIOVASCULAR DISEASE OF UYGUR HOSPITALISED PATIENTS IN XINJIANG HETIAN. A SURVEY FROM 1996 TO 2005

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Objective To investigate the trend of changes in cerebral- cardiovascular disease of Uyghur hospitalised patients in Hetian from 1996 to 2005.

Methods Medical records of Uyghur hospitalised patients from karakax county hospital and Gumar country hospital were investigated. Total annual number of cardiovascular disease and coronary heart disease (CHD), essential hypertension (EH), rheumatic heart disease, cardiomyopathy, pulmonary heart disease, congenital heart disease and out comes were analysed.

Result the percentage of EH from 1996 12.6% to 2005 21%, the percentage of CHD from 1996 8.8% to 2005 16.7 % the percentage of rheumatic heart disease from 1996 1.3% to 2005 3.2% the percentage of cardiomyopathy from 1996 1.2% to 2005 2.3% the trend in cardiovascular diseases of Uyghur population in Hetian prefecture resented 10 years was change gradually, the annual percentage of EH, CHD are rising significantly in resented ten years, the annual percentage of rheumatic heart disease and cardiomyopathy are slightly increased during this period (all $p < 0.05$) the annual percentage of pulmonary heart disease, congenital heart disease had no significantly change in resented ten years (all $p > 0.05$).

Conclusion the percentage of EH, CHD are rising significantly in the Uyghur population of this area. the percentage of rheumatic heart disease, Cardiomyopathy slightly increased during this period. Other Cardiovascular diseases had no significantly changes in resented ten years. Prevention for cardiovascular disease spatially CHD and EH should be strengthened in this area.

e0272 LOW TESTOSTERONE LEVELS ARE INVERSELY ASSOCIATED WITH CAROTID ARTERY PLAQUE FORMATION

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Objective To study the relationship between endogenous sex hormone levels and atherosclerosis of the carotid artery measured by ultrasonography.

Methods Analysis of the healthy elders from a population-based cohort study in 9 communities of Beijing. carotid intima-media thickness (IMT) and atherosclerotic plaques were determined ultrasonographically. Sex hormone levels were measured by immunoassay. The data were analysed with ANOVA and logistic regression analysis.

Results There was a inverse association between testosterone and plaque formation in females ($p < 0.001$), whereas no association was found in males. Logistic regression analysis showed that females with a testosterone level in the lowest quintile (< 0.49 nmol/l) were more likely (OR=3.11, $p = 0.002$) to be in the plaque formation independently of age and the other risk factors. Age (OR=1.07 year⁻¹), LDL (OR=1.65, $p = 0.027$), physical exercise (OR=0.54, $p = 0.006$), and IL-6 (OR=1.05, $p = 0.022$) were also independently associated with plaque formation.

Conclusions Testosterone concentrations are negatively associated with carotid artery atherosclerosis in females, experimental and prospective studies are needed to determine the possible therapeutic role of testosterone in atherosclerosis.

e0273 RELATIONSHIP OF PERIPHERAL ARTERIAL DISEASE, CHRONIC KIDNEY DISEASE, AND MORTALITY IN CHINESE HYPERTENSIVE PATIENTS

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This study aimed to investigate the associations of chronic kidney disease (CKD), Peripheral arterial disease (PAD) and their combined effect with all-cause and Cardiovascular disease (CVD) mortality in Chinese hypertensive patients. Chinese ankle brachial index (ABI) cohort study including 2992 hypertensive patients aged 35 years or older were enrolled in 2004 and implemented the follow-up visit in 2007. 2505 participants completed baseline and follow-up data. Glomerular filtration rate (GFR) was estimated using the Modification of Diet in Renal Disease equation. ABI was calculated at baseline by measuring systolic pressures on bilateral brachial and tibial arteries. Mortality surveillance was completed from December 2007 to February 2008. Survival analysis was used to compare survival rate in different CKD/PAD groups. The RR of death from all-cause and CVD were adjusted for potential confounders using a Cox regression model. The prevalence of PAD in hypertensive patients with and without CKD was 43.1% and 22.8%, with significant difference between them ($p < 0.001$). For CKD and PAD group, PAD alone group, CKD alone group and neither CKD nor PAD group, the all-cause mortality was 38.6%, 19.6%, 17.3%, 10.5%, and CVD mortality was 23.3%, 13.7%, 11.5%, 5.4%, respectively, with significant differences among each other ($p < 0.001$). The survival rate was significantly lower in CKD and PAD group than in other three groups, for both all-cause and CVD mortality (log-rank: $p < 0.001$). The patients in CKD and PAD group, PAD alone group and CKD alone group had the adjusted RRs of 2.966 (95% CI 2.220 to 3.964), 1.523 (95% CI 1.151 to 2.016) and 1.484 (95% CI 1.067 to 2.063) for all-cause mortality and 3.402 (95% CI 2.343 to 4.939), 2.024 (95% CI 1.434 to 2.856), 1.843 (95% CI 1.225 to 2.773) for CVD mortality, with no CKD or PAD group as the reference. Our study indicated that CKD is a risk factor for PAD. The hypertensive patients combined CKD and PAD had the highest risk for all-cause and CVD mortality. We suggest CKD patients should take ABI measurement for PAD early diagnosis and treatment, and GFR should be used to estimate renal function for PAD patients.