Methods 1307 in-patients with ST segment elevation ACS from 64 hospitals across China were received different therapies in hospitals and a standard questionnaire was used to get information of the patients including demographic, treatments and in-hospital outcomes. We analysed the status of application of reperfusion and aspirin, ACEI, β-blocker, LWMH, Clopidogrel and cholesterol lowering agents on ST segment elevation ACS patients.

Results 1. The were no significant differences in baseline characteristics between the patients from tertiary hospitals and that from the secondary hospitals. 2. 30.9%—69.4% received reperfusion therapies. 1.3%—62.7% received primary PCI, 1.9%—45.8% received Thrombolysis, and nearly 46.2% did not receive any form of reperfusion. Reperfusion therapy was more often used in tertiary hospitals (45.2%) than in secondary hospitals (6.4%). Thrombolysis was more often in secondary hospitals than that in tertiary hospitals (56.8% vs 14.6%). 3. Percentage of medications in ST ACS patients in different areas: aspirin (88.0%—98%), 6%); ACEI (60.5%—84%), 4%); β-blocker (55.8%—84.4%), LWMH54.2%—94.2%), Clopidogrel (14.3—83.6), cholesterol lowering agents Statins (91.9%—90.9%). 4. Major in-hospital events and death rates were significantly higher in secondary hospitals than in tertiary hospitals; 5. Mortality and congestive heart failure rate were significantly higher in patients with no reperfusion therapy compared to patients underwent reperfusion. The incidence of combined outcomes (death or MI, and death, MI or Stroke) was also higher in patients without reperfusion therapy 6. Multivariate logistic regression analysis showed that age >75 years, hypertension, diabetes, reperfusion, aspirin, β-blocker, ACEI/ARB inhibitor use were associated independently with in-hospital mortality.

Conclusion In the most tertiary hospitals in China the application of medications being proved effective by evidence-based medicine in clinical practice is better than that of the secondary hospitals, but there is a big gap between guidelines and current management of ST segment elevation ACS in China, and the application status in China could be further improved.

Objective To observe the impact of psychological intervention on patients’ negative emotion and life quality with acute coronary syndrome (ACS).

Methods 80 patients with liver cancer were chosen in our hospital from January 2007 to December 2009, and randomly divided into experimental group (40 cases) and control group (40 cases), the follow-up assessment of psychological status and life quality were performed by taking symptom self-assessment form (SCL-90), self-rating depression scale (SDS), Self-Rating Anxiety Scale (SAS), Quality of Life Scale (ARES-S), and the targeted psychological intervention relied on the basis of the initial results of assessment and intervention results were analysed to assess the differences between the two groups.

Results The patients with liver cancer copared with early poor mental health, anxiety, depression, obviously, the life quality significantly decreased; the initial results of the assessment were SDS (56.4±8.3) points, SAS (55.5±5.2) points, SCL-90 (1.9±0.4) points, CARES-SF (25.2±15.5) points. 1 month after intervention, the psychological status and life quality of patients than in a month ago has significantly improved, the scale scores were SDS (42.1±7.5) points, SAS (42.5±5.2) points, SCL-90 (1.4±0.3) points, CARES-SF (32.5±16.7) points, the scores were significantly difference (p<0.01 or p<0.05) between before and after psychological intervention. Therefore, the psychologically negative emotions (depression, anxiety, hostility, fear) in the test group after the intervention were significantly decreased (the first two p<0.01, both of p<0.05).

Conclusion Psychological intervention can effectively relief negative emotional and psychological stress and help to improve the life quality of the patients with acute coronary syndrome.

Conclusion Only 26.2 heart artery disease patients attained the cholesterol goal, the rate varied significantly among sex, different areas and different degree hospitals. It was essential to pay more attention on control of cholesterol for secondary prevention of cardiovascular disease.

Objective To study the relationship of physical exercise and chest pain recurrence of CAD, and if physical exercise could reduce rate of chest pain recurrence.

Methods 64 hospitals across China mainland, involving 2401 patients, 50 out-patients with CAD in each hospital were included and standard questionnaires were used to get relative information on patients’ demographic, physical exercise, chest pain recurrence et al.

Results It existed significant differences between exercise and chest pain recurrence.

Conclusions Appropriate physical exercise could reduce rate of chest pain recurrence.
Method We carried out the research by multi-steps random sampling through questionnaires. 1512 records had been completed for analysis. Indicators as smoking, age, education, occupation and income, etc., were calculated.

Results The total smoking rate was 23.8%, 52.4% in male and 4.0% in female. The smoking rates of different education, occupation and income had statistical differences.

Conclusion The smoking rate of Shougang district was lower than that of Beijing and the whole country. The smoking rate in male was significantly higher than that in female. It is very important to develop the health education and the smoking control in some special people.

Conclusions There were statistical difference about the levels of the blood lipids between the Li and the Han nationality. The reason could be that the Li nationality living in the poor area who are under low living standard. The different Polymorphisms of blood lipid genes may be one of the causes.

e0263 EPIDEMIOLOGICAL SURVEY OF HYPERTENSION IN GENERAL ADULT POPULATION OF DIFFERENT NATIONALITIES IN XINJIANG
doi:10.1136/hrt.2010.208967.263
Huang Ying, Ma Yitong, Liu Fen, Yang Yining, Li Xiao-Mei, Sun Minghui, Yao Juan, An Yong, Yao Juan An Yong

Objective To estimate the prevalence and distribution of hypertension and to determine the status of hypertension awareness, treatment, and control in Xinjiang.

Methods The Cardiovascular Risk Survey in Xinjiang, A total of 14618 adults, age ≥35 years in Xinjiang.

Results The standardisation prevalence is 42.25%. Prevalence rate of hypertension is 42.44% in Han, 35.2% in Uygur, 53.04% in Kazak respectively. Among hypertensive patients, only 45.5% were aware hypertension is 14.618 adults, age ≥35 years in Xinjiang.

Results There were statistical difference about the levels of the blood lipids between the Li and the Han nationality. The reason could be that the Li nationality living in the poor area who are under low living standard. The different Polymorphisms of blood lipid genes may be one of the causes.

Conclusion The smoking rate of Shougang district was lower than that of Beijing and the whole country. The smoking rate in male was significantly higher than that in female. It is very important to develop the health education and the smoking control in some special people.

e0265 ANALYSIS OF 24 H SLEEP DEPRIVATION ON ARRHYTHMIA AND HEART RATE VARIABILITY
doi:10.1136/hrt.2010.208967.265
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Background Sleep deprivation (SD) is a common phenomenon in emergency, especially during war time, conflict, natural disasters or disease crisis such as SARS, it can cause exhaustion in members of armed forces and non-combat casualty. In conditions of high-tech war, deprivation is becoming more serious and mandatory than ever before.

Objective To study the impact of 24-h sleep deprivation on arrhythmia and heart rate variability (HRV).

Methods Soldiers were used as research objects, they were divided into normal group and the sleep deprivation group. 1. Heart rate, atrial premature beat, ventricular premature beat and heart rate variability were observed by 24-h ambulatory ECG during sleep deprivation. 2. The changes of serum cortisol levels were detected during sleep deprivation.

Results 1. After 24 h sleep deprivation, HF, SDNN and RMSSD significantly reduced, LF significantly increased, LF/HF showed a significant increase. 2. Part of volunteers presented atrial premature beats and ventricular premature beats. 3. The level of serum cortisol significantly increased.

Conclusion The underlying mechanism of alteration of arrhythmia and HRV after 24-h sleep deprivation would be ascribed to lower vagal activity and elevated sympathetic activity.

e0264 INVESTIGATION ON BLOOD LIPIDS OF THE LI NATIONALITY IN HAINAN ISLAND
doi:10.1136/hrt.2010.208967.264
Yunbo Zhang, Zhen Yao, Yong Zhang, Ying Li, Ruijian Ma, Shijiao Yan. The People’s Hospital of Sanya

Objective To study the blood lipid level of the Li nationality in Hainan Island, and to compare it between Li nationality and other people. To analyse the effects of the way of life style and the Polymorphisms of blood lipid gene on the levels of blood lipids.

Methods The epidemiological study was carried out in a natural population 1000 (500 samples from the Li nationality and 500 samples from the Han nationality) individuals aged aged between 30 and 50 from Li Nationality in Hainan area by cluster and random sampling. To measure TC, TG, LDL-C, HDL-C according to cross-sectional survey including snoring information and cardio-vascular risk factors from September to November 2007.

Results There were no differences about the levels of TC, TG, LDL-C and HDL-C between the Li nationality and the Han nationality, but there were significant difference about the levels of HDL-C between two population (p<0.05). The levels of HDL-C in the Li nationality was significantly higher than that in the Han nationality among female (p<0.05), and the levels of TG in the Han nationality was significantly higher than that in the Li nationality among male (p<0.05). The levels of LDL-C in the Li nationality was significantly higher than that in the Han nationality in the group of age 50~59 and the group of age 40~49 (p<0.05).

Context Epidemiological studies have identified snoring as a risk factor for atherosclerotic cardiovascular diseases. However, there is little evidence on snoring and subclinical atherosclerosis.

Objective To evaluate whether and to what extent snoring is associated with carotid atherosclerosis.

Methods Population-based study was conducted at a community in Beijing on 1050 subjects aged 50~79 years who had an ultrasound examination of the carotid artery at age ranging from 45 to 74 years in 2002 and a carotid ultrasonic reexamination in 2007, as well as a cross-sectional survey including snoring information and cardiovascular risk factors from September to November 2007.

Main Outcome Measures Carotid intima-media thickness (IMT) and plaque as two indexes of carotid atherosclerosis were diagnosed by B-mode ultrasonography. Association of snoring with increased IMT of common carotid artery (CCA) and plaque were analysed by multivariable logistic regression models adjusted for traditional risk factors, smoking was significantly associated with increased IMT of common carotid artery (CCA) (OR, 1.38; 95% CI 1.04 to 1.82) and bifurcated carotid artery (BCA) (OR, 1.65; 95% CI 1.24 to 2.19), with having plaque of CCA (OR,
Analysis of smoking status among residents in Beijing Shougang District

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