**0318 AN EPIDEMIOLOGIC STUDY OF ACUTE CORONARY SYNDROME IN THE WORKING POPULATION**

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Objectives Some of cardiovascular diseases, like stroke and acute coronary syndrome (ACS), are comparable diseases in Taiwan as well as Japan and Korea. The number of compensated cases in the disease has increased from 13 in 2006 to 92 in 2012. The information on workplace risk factors before onset of disease is rare, and this aim of this study is to conduct a case control study for analysing the association between ACS and work stress, using hospital-based study.

Method The study population was the patients in a medical centre. Questionnaire was designed based on literatures about non-work-related and work-related risk factors of cardiovascular diseases. The work-related factors included working time, working pattern, burnout scale, mental stress. The inclusion criteria of case group were workers more than 20 year-old, diagnosed with acute coronary syndrome and having job at onset. The inclusion criteria of control group were diagnosed without acute coronary syndrome and having job at recruitment.

Results There were 47 cases and 121 controls recruited. The results shows case group had larger percentage of male, alcohol intake, no intake of any healthy diet, and higher education level than control group. In addition, family history of premature events, and history of current URI were more prevalent in case group. Multivariate logistic regression shows that smoking and night work were statistical significant factors associated with occurrence of acute coronary syndrome (OR=6.11, 3.59).

Conclusions When we think about the strategy on preventing cardiovascular diseases for working population, work-related factor, like night work, should be considering.

**0325 WORKERS’ HEALTH OUTCOMES, WORK ORGANISATION AND VIOLENCE FACTORS. ARGENTINA, 2012**

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Objectives To evaluate workers’ health outcomes and their association with work organisation (WOF) and violence (WV) factors among sectors of the economy in Argentina.

Method We used data from the first Employment, Working conditions and Health Survey with face-to-face interviews. We selected 7200 sample cases representative of 3 000 000 workers from different economic sectors across Argentina. Multi-stage methods were applied. Sex and age were considered. The dependent variables were: reported work-injuries, occupational disease, health care visits and symptoms from the workers’ perspective. Psychosocial factors were classified as: work organisation factors, violence and harassment factors. To determine the association between health outcomes and risk factors, prevalence and Odds Ratios with 95% confidence intervals (OR) were estimated using Logistic Regression.

Results Exposed workers to WOF and WV had highest prevalence of injuries (18%, 17% vs. 9 and 11%), diseases (6.6, 7.5% vs. 3.5 y 3.8%) and health care visits, for both WOF and WF respectively (p < 0.001). Related symptoms, cardiovascular, gastrointestinal were more expressed in exposed men, OR 1.20, 1.13–1.26; in women the risk of having symptoms were 2 times more compared to non-exposed ones (OR 2.10, 1.93–2.28). Exposed workers to both factors WOF and WV, increased 2–3 times the risk of having health outcomes.

Conclusions Is increasing the evidence of health outcomes related to work organisation factors, therefore, for designing and targeting preventive strategies, and for a comprehensive understanding of health outcomes in the working population, it is necessary to include variables from a psychosocial and gender point of view.

**0327 ERYTHROCYTOSIS AND NEUROPSYCHOLOGICAL ALTERATIONS BY CHRONIC EXPOSURE TO LOW CONCENTRATIONS OF CARBON MONOXIDE IN HIGHWAY WORKERS OF MEXICO**

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Objectives Identify erythrocytosis and neuropsychological alterations in highway workers exposed chronically to low concentrations of CO.