

intervals thereafter, where increase represents normal response. Age- and sex-adjusted regression models were used to examine trends in mean number of components across quartiles of area under the curve (AUC) salivary cortisol. Patterns of mean cortisol response were assessed by MetSyn status using repeated-measures analysis of covariance.

**Results** The study included 373 officers (74.0% men) with a mean age of 41.0 years. Prevalence of MetSyn was 25.7%. The mean count of MetSyn components decreased (1.89, 1.75, 1.55, 1.37;  $P < 0.01$ ) across increasing quartiles of AUC salivary cortisol. The pattern of mean salivary cortisol decreased from baseline (5.55, 4.58, 4.47, 4.79, 4.75 nmol/L) in officers with MetSyn and increased (5.08, 5.82, 5.92, 5.82, 5.60 nmol/L) in their counterparts. The test for interaction between MetSyn status and sample timing was statistically significant ( $P < 0.001$ ).

**Conclusions** A reduced cortisol response to a high-protein challenge may be associated with MetSyn. Future longitudinal studies could provide useful evidence for planning intervention studies on cardiovascular risk among police officers.

#### 0014 AN EPIDEMIOLOGY OF TRAFFIC ACCIDENT IN NORTHERN THAILAND

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**Objectives** A cross-section study design aimed to explain the characteristics of traffic accident cases in northern of Thailand.

**Method** A cross-section study design aimed to explain the characteristics of traffic accident cases in northern of Thailand. The subjects were recruited from 8 hospitals and 7 police stations in the highest case accident areas from hospitals and police stations during 2009- 2012. All medical records and police statements were used as the sources of data collection. All research procedures were approved by the committee for the protection of human subjects of Mae Fah Luang University.

**Results** Totally 35 925 cases had been recruited into the study from 8 hospitals during 2009–2011. 66.58% were female, 28.01% aged 16–25 years old, and main vehicle was motorcycle (78.85%). 29.31% of subjects had been admitted at the hospital, 77.06% had a length of admission  $\leq 31$  days, 2.39% disability found, 84.81% had medical cost  $\geq 5000$  baht. Univariate analysis found alcohol used, types of vehicle, medical cost, and medical surgery were statistical different between sex.

In 7 police stations, 2339 cases had been recruited into the analysis. 71.43% were females, 27.61% were aged 16–25 years old, 60.96% were married, 92.02% were Buddhism. The main type of vehicle was the cars (56.60%), 67.29% had their accident on the highways, and 60.66% had accidents on the day time (06.00 am.–06.00pm.), and those 13.12% drank alcohol.

**Conclusions** Thailand needs the specific study for improving driving safety behaviours and also an effective regulation to control for traffic accident.

#### 0015 CONTRIBUTION TO THE PREVENTION OF OCCUPATIONAL STRESS

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**Objectives** The objectives of this study were to assess the importance of the mental suffering of employees in the service sector of a city in western Algeria and to identify risk factors and moderators of this suffering in order to develop a effective prevention.

**Method** Standardised questionnaires were subjected to 753 employees in the tertiary sector. These questionnaires include three categories: A social and professional record (21 items), Maslach Burn Out Inventory: MBI (22 items), Job Personal Interaction Scale: JPIS 35 questions on the perception of the work environment by the individual divided into 6 rubriques (workload and unpredictability, control, rewards, recognition and fairness at work, social support, conflicts and perceived value valuri work and training)

The data collected were anonymous and confidential. Data analysis was performed using SPSS (version 17.0). Univariate analysis was performed (chi-square Pearson correlations and a multivariate analysis (logistic regression).

**Results** The state of burn-out was 23.6% after logistic regression the main social determinants of psychological distress in the overall sample one taking medication to relieve pain ( $p = 0.0002$ ) remained significant.

Regarding the determinants “professional” contact with the public and strong mode part of work were significant respectively ( $p = 0.0017$  and  $0.0042$ ).

Moderators of stress for the multivariate analysis recognised two subscales of bad training ( $p < 0.01$ ) and conflicts of values and perceived value ( $p = 0.02$ ).

**Conclusions** Preventive actions to reduce or eliminate risk factors directly affect the environment and source of work: training more relevant, better organisation of work, especially the riding tasks and recognition of work done.

#### 0016 EVALUATION OF THE PREVALENCE OF URINARY INCONTINENCE SYMPTOMS IN ADOLESCENT FEMALE SOCCER PLAYERS AND THEIR IMPACT ON QUALITY OF LIFE

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**Objectives** To evaluate the prevalence, reliability and severity of symptoms of urinary incontinence (UI) in adolescent female soccer players and the impact of those symptoms on quality of life.

**Method** The present work is a cross-sectional study of 59 female adolescents divided into a group of athletes, which included 35 adolescent amateur soccer players aged between 12 and 19 years ( $15.6 \pm 2.0$ ), and a control group, which included 24 adolescents aged 11 to 19 years ( $14.8 \pm 2.4$ ) who did not practice any sports. The International Consultation on Incontinence Questionnaire - Short Form (ICIQ-SF), the pad test and King's Health Questionnaire (KHQ) were used for evaluation.

**Results** The athletes displayed 62.8% positivity the pad test and the ICIQ-SF, whereas the control group exhibited 25% positivity. A medium agreement of 0.45 was found between the applied evaluation scales, as assessed with Cohen's kappa coefficient. In terms of quality of life (as assessed with the KHQ), the athletes exhibited a score of 35.2 in the General Health domain, 37.3 in the Emotions domain and 26.5 in the Sleep/Energy domain.