SP1-83 ALCOHOL CONSUMPTION AND URBANISATION IN NORTH INDIA: A COMMUNITY SURVEY

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Introduction Indian is in a state of epidemiological transition with changes in urbanisation and risk factor profiles. In this context, our objective was to study the epidemiology of alcohol use among urban and rural populations.

Methods The study was conducted in Ballabgarh block, India, during January–October 2006 using the WHO-STEPs approach. Participants were selected using multi-stage sampling for rural and urban stratum (sub-divided across town and slum). We targeted enrolling 250 male and female participants each in 10 year age groups across 25–65 years and enrolled 5005 participants. In a 20% sub-sample, information was collected about the exposure to health communication messages regarding alcohol.

Results One rural female reported current alcohol use. The prevalence of current consumption of alcohol, defined as consumption within preceding 12 months, was highest among urban males (26.2%, 95% CI 20.8 to 32.1) followed by urban slums (25.6%, 95% CI 19.2 to 32.4) and rural (25.2%, 95% CI 18.2 to 28.9). Among alcohol consumers 15.3% urban, 7.3% slum and 15.3% rural males reported reduction in alcohol use in preceding 1 year. 7.2% urban, 10.9% slum and 7.2% rural respondents who were current alcohol users reported intermittent cessation of alcohol consumption in preceding 1 year. 92.8% (n=603) urban, 27.2% (n=185) urban-slum and 59.5% (n=646) rural respondents reported receiving information (IEC) on health effects of alcohol with Mass media as the most common source of information.

Conclusion Alcohol is a public health problem among males in Ballabgarh area. Interventions should focus on alcohol cessation services and improved IEC. Urbanisation does not appear to be associated with alcohol use in this community.

SP1-84 DIFFERENT METHODS TO CALCULATE POPULATION ATTRIBUTABLE FRACTION OF RISK FACTORS FOR CARDIOVASCULAR DISEASES: TEHRAN LIPID AND GLUCOSE STUDY (TLGS)

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Background The population attributable fraction (PAF) that estimates potentially community-level effect of risk factors can be useful in planning public health interventions. This study compared different methods for calculating adjusted PAFs for cardiovascular diseases (CVD) in a cohort study with 10 years of follow-up.

Methods Baseline data were employed from 6630 participants (3746 women) above 50 years old and 558 CVD events (238 women) detected during follow-up. Unadjusted approach using Levin’s formula, Miettinen formula approach using adjusted OR and HR estimated from logistic and Cox regression and direct estimation of average PAF from logistic regression using Rücker method, were applied.

Result Estimated PAFs, using HR comparing OR, in both Levin’s and Miettinen’s formula, with tiny decrease, gave very similar results. However, according to the average PAF method, frankly, we reach to lower fractions; highest modifiable cardiovascular risk factor PAFs, in sequence, was hypertension (16.2%), smoking (14.8%), diabetes (10.1%), hypercholesterolemia (8.5%) for men, and hypertension (25.6%), diabetes (18%), hypercholesterolemia (10.7%), for women. Also PAF of Age ≥60 years and premature family history of CVD, as most important non-modifiable CVD risk factors, are estimated as 10.2% for men and 26.8% for women.

The European Pollutant Release and Transfer Register (PRTR) constitute a valuable resource for monitoring health effects of industrial pollution. Our objective is to ascertain whether there might be excess colorectal cancer (CRC) mortality among populations residing in the vicinity of Spanish industrial installations governed by the PRTR.

Methods An ecological study of CRC mortality at a municipal level (8098 towns), over the period 1997–2006. We conducted an exploratory “near vs far” analysis to estimate the RRs of towns at a distance of <2 km from installations. The analysis include 24 industrial groups. RRs and their 95% credible/CI were estimated using Poisson regression models, using two approaches: (A) a conditional autoregressive Bayesian model, with explanatory variables; and (B) a mixed regression model. Integrated nested Laplace approximations were used as a Bayesian inference tool.

Results Statistically significant RR were detected in the vicinity of metal production and processing (RR 1.07; 95% CI 1.01 to 1.12), mining (RR 1.26; 95% CI 1.08 to 1.46), paper, pulp and board manufacture (RR 1.07; 95% CI 1.01 to 1.14), ceramic factories (RR 1.05; 95% CI 1.00 to 1.10) and food and beverage production (RR 1.07; 95% CI 1.01 to 1.12).

Conclusions Residing in the vicinity of PRTR-registered industries may constitute a risk factor for CRC, since a higher mortality was detected in both men and women residing in towns with such industries nearby. Some of the differences between men and women suggest that there may be a strong, little-studied component of occupational exposure.
factors, were 18.4%, 11.2% and 4.4%, 6.9% for men and women respectively.

**Conclusion** If individual data (eg, cohort and case-control studies) are accessible then the direct estimation of average PAF provides more realistic results. Besides, it seems that the order of important risk factors is the same in men and women except smoking.

**SP1-85 TROUBLED SLEEP: A CROSS-NATIONAL STUDY OF THE INFLUENCE OF AGE, HEALTH, SOCIAL AND PSYCHOSOCIAL FACTORS ON SLEEP**

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**Introduction** Trouble with sleep is often accepted as a part of ageing with its prevalence reported up to half of the population surveyed. However it has been persuasively argued that in healthy ageing individuals, sleep need not diminish significantly or be of poor quality and that it is the chronic diseases and functional limitations that produce sleeping problems in the elderly. The objective of this study is to compare the prevalence of sleep problems and assess the influence of age, health and psycho-social factors in a sample of European countries.

**Method** Data of non-institutionalised Europeans above 50 years from the Study of Health, Ageing and Retirement in Europe were used. The outcome was a binary variable based on self reported sleep problems. Explanatory variables included age, gender, and various health, social and psycho-social factors. Statistical analysis was done using multiple logistic regression and multi-level models.

**Result** The prevalence of sleep problems ranged from 18% in Greece to 48% in Poland; Greece was an exception with other Southern factors like receiving help were also significantly higher.

**Conclusion** The prevalence of sleep problems ranged from 18% in Greece to 48% in Poland; Greece was an exception with other Southern factors like receiving help were also significantly higher.

**SP1-86 FOLLOW-UP AND INCIDENT OUTCOMES IN A LONGITUDINAL STUDY IN BRAZIL (ELSA-BRASIL)**

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**Introduction** Baseline data from Longitudinal Study of Adults Health (ELSA—Brazil), a cohort that investigates incidence and predictors of chronic diseases among 15 000 civil servants aged 35—74 years from six universities in Brazil, was fully accomplished in December 2010. From now on, main challenges are: avoid loss to follow-up over time, correct identification, and classification of incident outcomes.

**Methods** Follow-up data collection relies on annual phone interview to identify hospitalisations and emergency department visits, 3-year examination in research centres, spontaneous participant report and linkage with available databases from human resources department of universities and death certificates. Events of interest include: acute myocardial infarction, unstable angina, heart failure, peripheral artery disease, myocardial revascularisation, resuscitated sudden death, stroke, transient ischaemic attack, incident diabetes, diabetes related complications, chronic kidney disease, cancer and all-causes mortality. Besides, intermediate outcomes such as hypertension, obesity, cognitive decline, kidney and endothelial dysfunction will be ascertained. To guarantee the uniformity of the assessment, an ELSA Outcome Committee performs a reiterated verification of the protocols, scripts and certifies periodically researchers which are in direct contact with the population under study. The Morbidity and Mortality Committee aggregates specialists from the six research centres, in order to perform events classification according to standardised protocols.

**Conclusion** The great number of exposures studied will allow investigate many associations with outcomes of interest. Besides that, a promising issue of this study is the biological samples and DNA bank of all participants which will also allow nested case-control analysis.

**SP1-87 PREVALENCE AND CHARACTERISTICS OF EARLY CHILDHOOD OBESITY IN TURKEY**

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**Introduction** Developing societies experience a nutritional transition in line with their epidemiological transition. As a diet rich in carbohydrates and fats and poor in fibre spreads, one of the major consequences of the nutritional transition emerges: Obesity. Among all age groups, childhood obesity is especially important, since it is known that it is likely to lead to adulthood obesity; an important risk factor for cardiovascular disease and diabetes. This study focuses on early childhood (under age 5) obesity in Turkey. This emerging issue is gaining importance Turkey’s public health agenda, and there are already local studies to estimate the prevalence of childhood obesity. However, no national estimates have been obtained until recently, and this study presents the findings obtained for the further analysis study of the Turkey Demographic and Health Survey, 2008.

**Methods** Data were obtained from the anthropometric measurements in this survey.

**Results** The national prevalence of childhood obesity was calculated as 5.8%. It was higher in urban areas (6.7%) than rural areas (3.5%). It was also higher in the western region (7.8%), wealthiest households (11.5%); for children with at least high school graduate mothers (9.8%), no siblings (8.4%) and higher birth weights (7.1%). Multiple logistic regression analysis, where being obese was the dependent variable, showed that the birth order and birth weight of the child and duration of breastfeeding were significant determinants of childhood obesity.

**Conclusion** The results of the study will be benefited by the health planners and administrators to combat this problem as early as possible.

**SP1-88 MORTALITY IN AN URBAN COHORT IN RAGAMA, SRI LANKA**

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**Introduction** The leading causes of mortality in Sri Lanka are due to chronic diseases. We describe the mortality patterns in a 35—64-year-old urban cohort resident in Ragama, Sri Lanka and followed over 3 years.

**Methods** A follow-up study was conducted among 2986 35—64-year old residents randomly selected from the Ragama Medical Officer of Health