governmental organisation and offers free space for social interaction, cognitive and physical stimulation, guidance and support to caregivers.

Objective Describe the sociodemographic, cognitive and affective aspects of the elderly (n=46) and their caregivers (n=54) through a cross-sectional descriptive study evaluating cognitive functioning, dementia, depressive symptoms, performance in basic (BADLs) and instrumental (IADLs) activities of daily living, and emotional overload and common mental disorder of the caregiver.

Results The mean age of the elderly individuals was 77 years-old (SD ±9), 76% were women, 67% live without a partner, 95% were retired and 50% had <4 years schooling. Average participation in the ADC was 24 months, 79% presented cognitive impairment and 57% mild, moderate or severe dementia. For BADLs, 94% showed some dependence on caregivers, while for IADLs, 100% were dependent. Among the elderly, 35% presented depressive symptoms that are correlated with the presence of cognitive impairment (p=0.004). Among the caregivers, 47% reported emotional overload, while 41% presented common mental disorders. The relevance of the proposal was verified, considering the fragility of the elderly and the burden and emotional distress of caregivers.

Methods We used interval-censored survival analyses in 3750 boys and 3241 girls (84% follow-up) in a Chinese birth cohort, “Children of 1997”, comprising 88% of births in Hong Kong in April and May 1997, to examine the associations of birth order, gestational age and birth weight with age at onset of puberty ( Tanner stage II). We also examined whether the associations varied with sex or height at 7 years.

Results Birth order and birth weight were unrelated to the age at onset of puberty, adjusted for sex, gestational age and socioeconomic position. Gestational age had a sex-specific association with age at onset of puberty, and was associated with earlier onset among girls (Time Ratio 0.994, 95% CI 0.991 to 0.997) but not boys. None of these associations varied with childhood height.

Conclusion Intrauterine exposures, as proxies by gestational age, birth order and birth weight, had little impact on the timing of the onset of puberty, which was only evident for gestational age among girls. Given that it is unclear whether onset, duration or intensity of puberty is more relevant to the detrimental consequences of early puberty, further studies investigating intrauterine, infant and childhood influences on the duration and intensity of puberty may help unravel the early origins of cardiovascular diseases and breast cancer.
Methods A population based cohort study including 1802 men and 2301 women aged ≥40 years in Tehran. We considered modifiable continuous exposures at baseline and CVD events during 8.5 years of follow-up. Using factor analysis we extracted some uncorrelated and standardised factors, each related to a cluster of continuous variables with the same general feature (eg, systolic and diastolic blood pressure as blood pressure factors or body mass index and waist circumference as anthropometric factors); then, a Cox regression including these factors as scores was conducted to estimate the RR of the last quintile to the first for each factor. Finally we compared these similar RRs in the model using the Wald test. Results Anthropometric, blood glucose, blood pressure and cholesterol factors were extracted. The total variance explained by factors was 88.6% in men and 87.3% in women. In men all factors had the nearly the same RRs ranging from 1.7 to 2.2 but in women the RR of cholesterol was significantly higher than the others (3.4 vs 1.7–2.5).

Conclusion To prevent CVD, all clusters of risk factors should be considered in control programs. Hypercholesterolaemia maybe more important in women.

Introduction Attributable Fraction is the commonest method of describing the proportion of a health outcome attributable to an exposure in an exposed group. It applies to binary variables. Many variables are continuous; changing them to binary variables results in loss of information. Using traditional analyses we compared the importance of cardiovascular disease (CVD) risk factors in a continuous form.

Methods A population based cohort study including 1802 men and 2301 women aged ≥40 years in Tehran. We considered modifiable continuous exposures at baseline and CVD events during 8.5 years of follow-up. Using factor analysis we extracted some uncorrelated and standardised factors, each related to a cluster of continuous variables with the same general feature (eg, systolic and diastolic blood pressure as blood pressure factors or body mass index and waist circumference as anthropometric factors); then, a Cox regression including these factors as scores was conducted to estimate the RR of the last quintile to the first for each factor. Finally we compared these similar RRs in the model using the Wald test. Results Anthropometric, blood glucose, blood pressure and cholesterol factors were extracted. The total variance explained by factors was 88.6% in men and 87.3% in women. In men all factors had the nearly the same RRs ranging from 1.7 to 2.2 but in women the RR of cholesterol was significantly higher than the others (3.4 vs 1.7–2.5).

Conclusion To prevent CVD, all clusters of risk factors should be considered in control programs. Hypercholesterolaemia maybe more important in women.

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 rural slums (25.6%, 95% CI 20.8 to 32.1) and rural (23.2%, 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. 52.2% (n=605) 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.

Introduction 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 (8096 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 1.03 to 1.11).

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.