**P2-401** THE RURAL-URBAN DIFFERENCES AND ABUSE OF ALCOHOL USE IN THE CITY OF RIO DE JANEIRO, BRAZIL

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Cross-sectional study involving 1115 individuals from rural and urban areas of Rio de Janeiro, Brazil, whose aim was to evaluate the effect of urbanisation of place of residence in the quantitative standard of alcohol consumption. We used logistic regression for multivariate analysis, considering the potential confounders age, age, education, income and marital status. The reasons and likely derived from the bivariate analysis, considering the first category as reference were: sex (OR=2.254, 95% CI 1.69 to 3.01), age group (OR=1.59, 95% CI 1.07 to 2.36), schooling (OR=2.80, 95% CI 0.51 to 15.4) Income (OR=2.88, 95% CI 1.42 to 5.83), status (OR=1.40, 95% CI 1.05 to 1.90), Urbanisation (OR=1.07, 95% CI 0.75 to 1.54). In the multivariate model, the adjusted OR of association between urbanisation of the area and alcohol consumption was 0.95 (95% CI 0.65 to 1.45). The urbanisation of place of residence and therefore does not increase the risk of alcohol consumption, in quantitative terms. Health policies should therefore investigate the quality of alcohol consumed, in order to achieve the effect of addiction and work risk factors for risk reduction.

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**P2-410** FACTORS ASSOCIATED WITH ALCOHOL USE AND ABUSE IN RURAL COMMUNITY IN THE CITY OF RIO DE JANEIRO, BRAZIL

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This study aimed to evaluate factors associated with use and alcohol abuse among the 1115 individuals from a rural community with coverage of the Family Health Strategy in Rio de Janeiro, Brazil. In this survey was descriptive analysis and multiple linear regression analysis. The mean score of consumption, measured by the AUDIT, was 3.8 (range 1–20, SD ±6.8). Multiple regression analysis showed that the factors that best explained the variability of alcohol consumption were sex (p<0.001), age (p=0.113), family income (p=0.052), education (p=0.382), and State Civil (p=0.974), with a coefficient of determination equal to 0.399. In another analysis, excluding the variable marital status, the variables associated with alcohol consumption were sex (p<0.001), age (p=0.113), family income (p=0.05) and education (p=0.380) with the coefficient of determination equal to 0.419. The results identified issues to be considered in developing measures to protect health, with emphasis on controlling alcohol use and harm reduction.
2020”. Refractive errors, is one of the priority areas for vision 2020 as they are so common and because corrective spectacles provide a remedy that is cheap, effective and associated with huge functional improvement.

Aims and Objectives To estimate the prevalence of refractive errors and colour blindness among 5–15 years school going children in Shimla.

Materials and Methods Cross sectional study carried out in the in urban and rural schools of Shimla. In a total of 2000 school children aged 5–15 years visual acuity was tested using ETDRS chart for refractive error and Ichihara colour plates for colour vision. Trained school teachers assessed visual acuity and colour vision. Students found having visual impairment by trained school teachers were further examined by refractionist.

Results Among the 2000 study subjects 956 (48%) were males and 1044 (52%) were females. The mean age of the study participants was 12.59 years +2.25. 4.2% were found to be having refractive error. Myopia was found to be the most prevalent type of RE followed by myopic astigmatism. There was no association between RE with gender. The prevalence of colour blindness was 0.3%.

Conclusion Because visual impairment can have a significant impact on a child’s life in terms of education and development, it is important that effective strategies be developed to eliminate this easily treatable cause of visual impairment.


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Introduction Irish Travellers are a nomadic minority group in Ireland with a strong cultural identity, who experience profound socio-economic and health inequalities. The All Ireland Traveller Health Study is a multi-study project, one component of which is a birth cohort follow-up study. The aim of this study is to describe the methodology and findings to date.

Methodology This is a 3-year longitudinal linkage cohort study of all Irish Traveller mothers who gave birth on island of Ireland between 14 October 2008 and 13 October 2009 followed up for 1 year thereafter to assess infant mortality and health outcomes. Public Health Nurses and Traveller community health workers in Traveller Health Projects facilitated cohort ascertainment. Participating mothers carried a Parent-Held Child Record and consented to linkage to perinatal data in maternity hospitals. Infant Traveller deaths were also searched for in the General Register Office.

Results Of 987 Traveller births identified, 506 consented (51.2%) to participation. We retrieved 491 linkage records (97%) from the 25 maternity hospitals and 548 (62.8%) of the Parent-Held Child Record in 37 districts. 53% of participants in the cohort still travel with 19.7% lost from follow-up as a result of nomadic practice. Preliminary follow-up data suggest infant mortality was higher in the refusal group and predominantly from congenital conditions in the perinatal period.

Conclusion The recruitment strategy was culturally appropriate and despite challenges to engagement, longitudinal follow-up to date has been largely successful. The experience is relevant to other indigenous minority healthcare initiatives worldwide.

P2-416 SMOKING-SPECIFIC COMMUNICATION AND CHILDREN’S SMOKING BEHAVIOUR: AN EXTENSION OF THE THEORY OF PLANNED BEHAVIOUR

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Introduction Smoking starts and progresses rapidly during adolescence. Therefore, it is important to prevent youth from smoking. Previous research is mostly conducted on adolescent samples. This innovative study will focus on smoking of children aged 9—11 years old. The aim is to test whether parental smoking-specific communication and parental smoking add to smoking-specific cognitions derived from the Theory of Planned Behaviour (TPB) in predicting smoking onset.

Method A total of 1478 pairs of mothers and children participated. Structural equation models in Mplus were used to examine whether parental smoking-specific communication are important in shaping children’s smoking cognitions, which affects smoking onset.

Results Pro-smoking attitude, higher frequency of communication and high parental smoking were associated with smoking onset. No significant association was found for self-efficacy, perceived norm of mother, (best) friends on smoking onset. We also found that a frequency of communication, quality of communication and parental smoking were related to smoking cognitions.

Conclusion At this age, smoking-specific communication and smoking behaviour of parents are associated with smoking cognitions. From the cognitions, only attitude is related to smoking onset. The extension of TPB is comparable with earlier research on adolescents. A difference from adolescent and child research is that cognitions have no association with smoking onset. A possible explanation can be that smoking-specific cognitions are not developed at this age because children are not engaged in smoking yet. Results can be used to develop effective family-based smoking prevention programs.

P2-416 ESTIMATING THE PREVALENCE OF HEPATITIS B INFECTION AMONG PEOPLE WHO INJECT DRUGS: RESULTS FROM A GLOBAL SYSTEMATIC REVIEW

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Introduction Hepatitis B virus (HBV) infection, although not as prevalent among people who inject drugs (PWID) as hepatitis C, remains a significant public health concern. We present the first detailed global review of HBV prevalence among PWID.

Methods As part of the WHO-funded Global Burden of Disease study, we undertook a systematic review of electronic databases (Medline, Embase, PsycINFO) and relevant conference abstracts to identify studies reporting HBV prevalence among PWID. Experts in the field were invited through a “viral email” to submit unpublished reports, to ensure inclusion of as many studies as possible. Studies were graded according to methodological characteristics and data quality, before national, regional and global prevalence estimates of specific HBV markers were calculated.

Results Two hundred and eighty-nine studies reporting HBV prevalence estimates from more than 50 countries were identified. Most