Global Program for the Elimination of Silicosis. In 2006, at the second international meeting of International Plan for Americas, a proposal to build a map of exposure situation based on a Job of Potential Exposure Matrix (JPEM) to silica as a surveillance methodology was made.

Objectives Estimate the numbers of workers exposed to silica in Brazil, Chile, Venezuela, Peru and Colombia.

Methods A JPEM developed in Brazil and matched with the study in Chile, according to the conception of CAREX database, was applied to workers in Chile, Venezuela, Peru and Colombia.

Results The percentages of workers exposed to crystalline silica were: Brazil (5.6%), Chile (5.4%), Peru (4.9%), Venezuela (5.2%) and Colombia (6.0%). When compare to the percentage of workers exposed in Finland (3.8%), Spain (3.3%), Germany (2.9%) Great Britain (2.6%) and Italy (1.6%), these data shows the relevance of silica dust exposure in the countries with economies based on polluting and health damaging technologies. Historically, this inequality was given by the transfer of obsolete technology and harmful work activities.

Conclusion Traditional surveillance, based only on the identification of cases, does not identify this historic process. Thus, job-exposure matrices are a potentially valuable addition to epidemiologic research methods. If applied judiciously, may contribute to etiologic research and to the identification and control of workplace exposures.

P1-304 ASSOCIATION BETWEEN QUALITY OF LIFE AND NUTRITION STATUS OF OLDER ADULTS IN A MEDIUM- SIZED CITY IN SÃO PAULO STATE, BRAZIL

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Introduction In the last few decades, population growth patterns have shown high figures for older adults. Accentuated increase in the number of older individuals, particularly in developed countries, has brought consequences to society, and in order to face such challenge, it is necessary to identify the determinant causes of older persons' present health and life conditions.

Objective This study aimed at evaluating the existence of an association between quality of life and nutritional status in a sample of older residents in the city of Botucatu - São Paulo, Brazil.

Methodology It was an epidemiological, cross-sectional, population-based study on individuals aged 60 years or older. A home interview was conducted with 96 elders. Their anthropometric measures were obtained and a Flanagan Quality of Life Scale (FQOLS) was applied.

Results The older individuals' mean age individuals was 74.1±7 years. Most of them were females (60%), poorly educated, married (62.11%) and retired (84.21%). According to FQOLS, 72.62% reported to be satisfied about their quality of life. As to nutritional status, it was found that 41% of the participants were overweight. Anthropometric measurements reduced as age advanced, although such reduction was not always significant. No significant association was observed between anthropometric measurements or nutritional status and quality of life.

Conclusions Although the majority of the older people reported to have good quality of life, obesity is still a factor of concern at this age range, and nutritional intervention programs as well as incentive to healthy diets should be recommended.

P1-305 ROLE OF PROXIMAL AND DISTAL DETERMINANTS IN HAND WASHING AND WATER TREATMENT PRACTICES IN SLUMS OF INDIA

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Introduction The determinants of health and disease can be classified as proximal and distal depending on their position in the causal pathway. This study attempts find out whether behaviour change communication interventions targeted at the proximal determinants (knowledge and infrastructure) of handwashing and water treatment change the relative importance of distal socio-economic status determinants.

Methods The analysis uses data from an evaluation of a Safe Water System intervention in urban slums of Haridwar and Dehradun districts of Uttarakhand, India. As a part of evaluation, two independent surveys were conducted in the SWS intervention area in 2004 (n=1125) and 2005 (n=1128). Analysis was based on framework of hierarchical modelling. Logistic regression was applied and the change in "population attributable fraction" (PAF) from baseline to endline models was calculated for arriving at the relative importance of the determinants.

Results At baseline, distal determinants were important for water treatment. Introduction of software variables to the model resulted in decline in the PAF of distal determinants from 89% to 74%. At endline, the importance of distal determinants was further reduced; (PAF of 23%). For handwashing at baseline, the distal variables were less important for handwashing (PAF of 36%). After intervention, there was smaller decline in their importance (PAF of 22.7%). Proximal determinants assumed importance only after intervention. The models in the study could only partially explain the variance in two behaviours under study.

Conclusions Behaviour change communication interventions can help overcome influence of low socio-economic status or illiteracy by changing proximal determinants.

P1-306 THE INFLUENCE OF CHILDHOOD DEVELOPMENTAL PLASTICITY AND SOCIOECONOMIC CIRCUMSTANCES ON ADULT HEALTH BIOMARKERS: LONGITUDINAL EVIDENCE FROM THE WEST OF SCOTLAND TWENTY-07 STUDY

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Physical development in early life adapts to environmental circumstances through developmental plasticity. Despite short-term gains, altered developmental trajectories can have long-term health consequences. This study investigates the individual and combined associations of childhood socioeconomic circumstances and developmental plasticity with adult health biomarkers. Respondents from the West of Scotland Twenty-07 Study were followed from ages 15 to 35, with biomarkers sampled at 35 (n=736). Social class mobility from birth to 15 categories were stable non-manual, stable manual, upwardly mobile or downwardly mobile. Developmental categories, based on birthweight and height at 15 tertiles, were stable (eg, average birthweight and height), compensatory (eg, low birthweight, tall height) or limited (eg, large birthweight, short height). Sex-specific GLMs including developmental and socioeconomic categories (separate and combined models) were analysed against Forced Expiratory Volume in 1 s