A previous study in Bucaramanga, Colombia had shown that there were not association between outdoor air pollution and incidence of respiratory symptoms associated to asthma in healthy paediatric population. We investigated whether exposure to different levels of outdoor air pollution are associated to incidence of respiratory symptoms in population with chronic diseases. Three pollution zones were selected according to historic measures of particulate matter (<10 μg/m³ (PM10): low (<40 μg/m³), medium (40–60 μg/m³) and high (>60 μg/m³). A total of 756 patients with chronic cardiovascular and respiratory disease were selected around the air quality stations at each zone. This was a cohort study with the follow-up-phase lasting 6 months using daily calendar of symptoms and clinic visits. Symptoms with higher incidence rates were sneeze and hacking cough. Incidence rate of total symptoms per 100-participant-day was 46 with differences between zones. Incidence rate ratio of total symptoms between low and high zone was 1.14 (95% CI 1.11 to 1.16). Except for wheezing (IRR 0.84; 95% CI 0.78 to 0.91) and inhalers use (IRR 0.68; 95% CI 0.64 to 0.75), all symptoms were higher in middle pollution area, but multivariate analysis using Poisson multilevel approach showed after adjustment for confounding variables, high pollution area is associated with 64% and 77% more symptoms compared with middle and low pollution area, respectively. These results suggest that in populations with morbidity outdoor air pollution is a key determinant of respiratory symptoms and respiratory negative effects are seen over 60 μg/m³.

**Objective** To estimate the prevalence of underweight, overweight and obesity in Vietnamese children and adolescents aged 6–18 years in both urban and rural areas.

**Methods** A cross-sectional study was conducted in 2006. Data on height and weight of 6354 children living in rural areas and 5280 children in urban areas were used for analysis. The prevalence of underweight/thinness, overweight and obesity was estimated according to the United States Centers for Disease Control (CDC) growth charts and WHO child growth standards (WHO Reference 2007).

**Results** In urban areas, the prevalence of underweight, overweight and obesity among children and adolescents aged 6–18 years was 9.5%, 21.0% and 3.4% in boys and 10.0%, 9.7% and 1.8 in girls, respectively, based on the CDC cut-offs. In rural areas, the corresponding rates were 26.2%, 1.2% and 0.5% in boys and 20.4%, 0.7% and 0.1% in girls, respectively. Urban children were more likely to be overweight than rural children. Conversely, rural children were more likely to be underweight than urban children.

**Conclusions** The co-occurrence of overweight and underweight among urban children and adolescents and persistent underweight epidemic among rural peers are the main health concerns in Vietnam. Policy planner should develop appropriate health strategies for urban populations to reduce the rising epidemic of overweight, while also focusing on the needs underweight children. In rural areas, it is the government should provide more effective intervention to reduce poverty and improve the nutrition status of rural children.


**Introduction** Studies indicate connections between childhood conditions and health in old ages. Early conditions of life may be related to individual factors of development. Thus, rural areas can harbour states of child development different from those in the urban ambience.

**Objective** To evaluate the impact of rural origin on mortality of elders living in a urban region.

**Methods** Data are from SABE: a longitudinal survey in São Paulo—2000/2006. The explanatory variable ‘origin’, was obtained from the question: “Have you lived in the countryside for more than 5 years before the age 15?”. Control variables are sex, age, education, income; having had malaria, pneumonia or typhoid fever before the age of 15. Outcome was “death”: people alive in 2000 (n=2143) and confirmed dead before or during the second round in 2006 (n=649).

**Results** Rao-Scott tests showed differences according to the origin of the elders for all variables except age and typhoid fever. A Poisson regression was applied to evaluate the associations between ‘origin’ and “death” in the presence of all other variables, controlling for time of exposure. Incidence Rate Ratio (IRR) for rural origin was 1.54 (p=0.03). That is, having lived in the countryside before the age of 15 increased the death rate by 54%. Sex, age and income were also significant, with IRR of 1.79; 3.57 and 1.69.

**Conclusions** These results demonstrate that inequities such as rural-urban inequality, even occurring in the young ages, can perpetuate differences through a person’s life, including an increased chance of dying when older.

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**Twosided Nutritional Problems Among School-aged Children in Vietnam**

**Objective** To estimate the prevalence of underweight, overweight and obesity in Vietnamese children and adolescents aged 6–18 years in both urban and rural areas.

**Methods** A cross-sectional study was conducted in 2006. Data on height and weight of 6354 children living in rural areas and 5280 children in urban areas were used for analysis. The prevalence of underweight/thinness, overweight and obesity was estimated according to the United States Centers for Disease Control (CDC) growth charts and WHO child growth standards (WHO Reference 2007).

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**Conclusions** The co-occurrence of overweight and underweight among urban children and adolescents and persistent underweight epidemic among rural peers are the main health concerns in Vietnam. Policy planner should develop appropriate health strategies for urban populations to reduce the rising epidemic of overweight, while also focusing on the needs underweight children. In rural areas, it is the government should provide more effective intervention to reduce poverty and improve the nutrition status of rural children.