Abstract

LINK TO PAPER

Temporal and Spatial Distributions of Ozone and Asthma

Track: Health and Human Services

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There are evidences that ozone may cause asthma. However, this relationship among younger children is not clear. This study presents the relationship of daily peak ozone level and asthma hospital admission in California South Coast Air Basin area. Ozone data were interpolated to surface. Peak ozone levels were calculated for related area by zip codes. Multivariate Poisson regression model were used. The results demonstrate that asthma hospital admission rate in children age less than 5 years will increase 11% after adjusted for seasonal effect and secular trend when peak daily peak ozone level increases 50 air quality indexes.

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