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제 목	대기오염이 혈압에 미치는 영향과 계절적 변이 Seasonal variation of the effects of ambient air pollution on blood pressure				
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<p><b>Background</b> : Many studies have demonstrated a consistent association between ambient air pollution and increased deaths for cardiovascular causes. Increase of blood pressure (BP) is the main risk factor for a variety of cardiovascular diseases. However, it is not clear that exposure to air pollution can affect BP.</p> <p><b>Methods</b> : We investigated the effect of air pollution on BP in 6,499 subjects and its seasonal variation. The information including smoking, alcohol consumption, BMI, total cholesterol, and glucose was obtained. BP measurement was performed using a standard sphygmomanometer.</p> <p><b>Results</b> : In the summer, PM10 was significantly associated with increased SBP and DBP (<math>p &lt; .0001</math>). In addition, increase of SBP and DBP was significantly associated with NO2 and SO2 with one day lag. In the winter, the significant association between BP and PM10 or NO2 disappeared. In contrast, the higher SBP and DBP were significantly associated with SO2 and O3 with one day lag and moving average for previous 3 days.</p> <p><b>Conclusions</b> : We found the association between air pollutants and increased SBP and DBP. PM10 seems to be the most important pollutants and the effect appears to be stronger in the summer than winter.</p>					