Health Effects of Diesel Emissions

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Harvard Six Cities Mortality

- Survival Analysis
  - Cox proportional hazards
- Adjustment
  - Age, Sex
  - Cigarette Smoking
  - Occupation
  - Education
  - Obesity
  - Chronic Disease

PM$_{2.5}$ (ug/m$^3$)

Relative Risk for Defibrillator Discharge

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Life Expectancy

ACS smoker 6 cities

ACS smoker ACS

Pope: JAMA, Volume 287(9).March 6, 2002.1132-1141
Mutations in 1000 stamen hairs

- Caucaia: n=49
- São Paulo: n=112
- Filter PM: n=23
- No Filter: n=33

- Groups

- Relative risk

- Days of exposure to air pollution
8

Mean +/- 2 SE placental weight (g)

Mean number of cells

Mean +/- 2 SE males/females
**Chemical Reduction During Strike (%):**

- Sulfates
- Xylenes
- Toluene
- Benzene

**Mitotic Rate (%):**

- Controls
- Non-strike
- Strike

**Micronuclei (%):**

- Controls
- Non-strike
- Strike