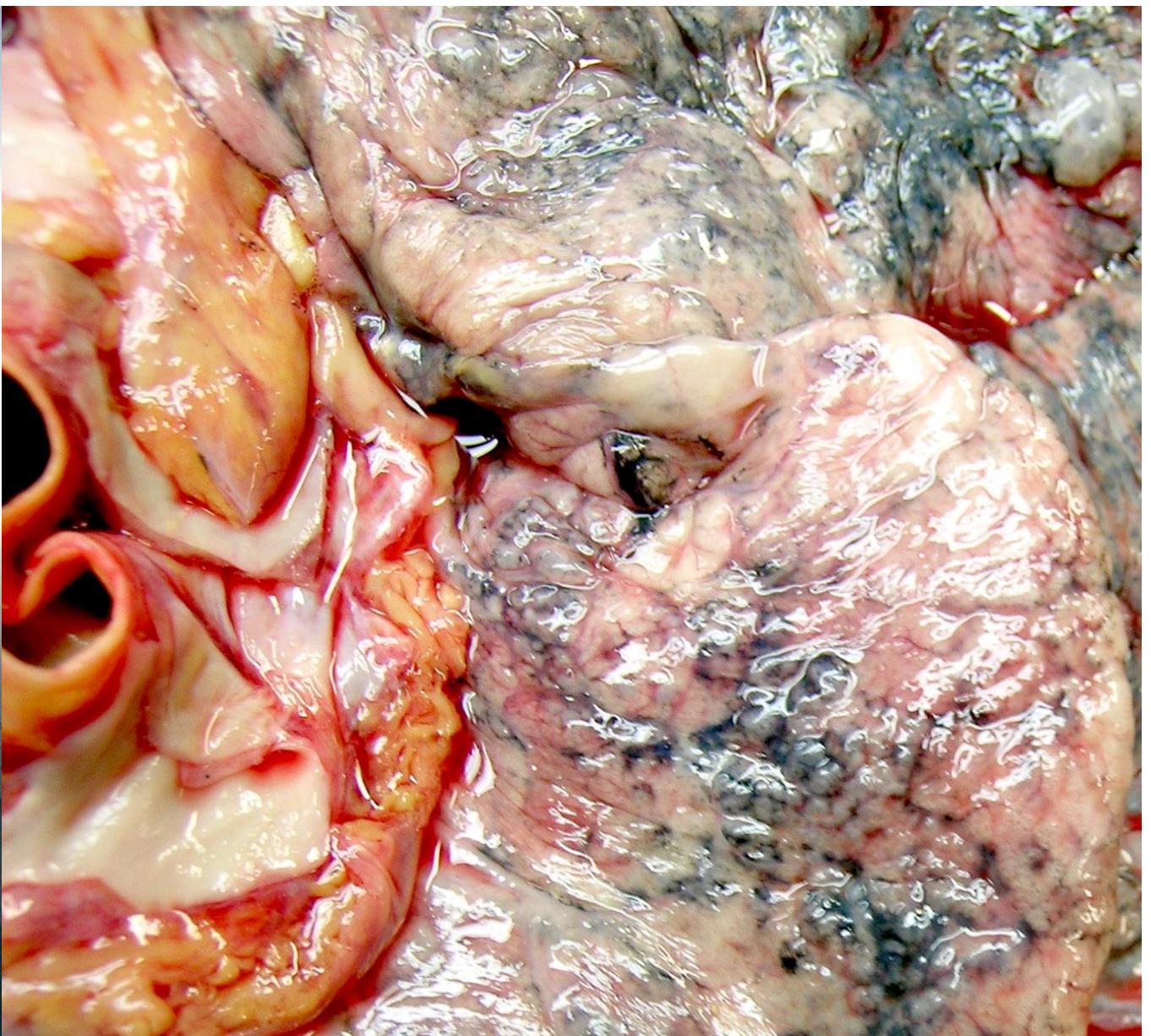


Poluição do ar e saúde humana

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pepino@usp.br

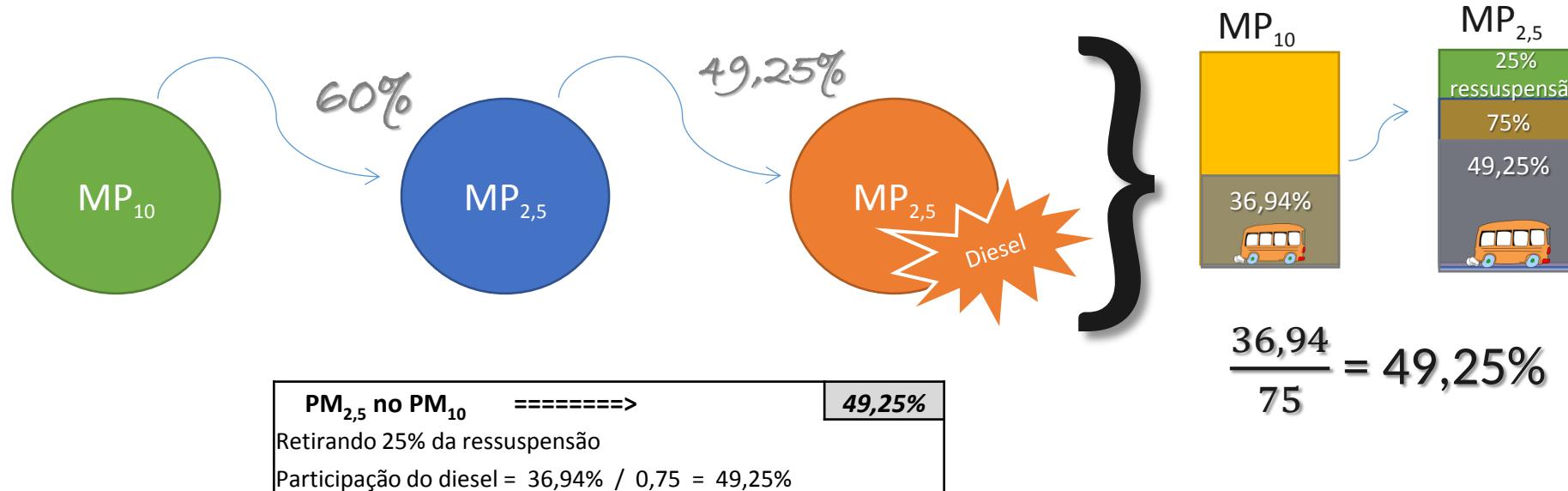


Cálculo Ambiental: MP₁₀ para MP_{2,5} (fonte diesel):

- Para a aferição da concentração de MP_{2,5}, utilizou-se da taxa (0,6) prevista pela CETESB:

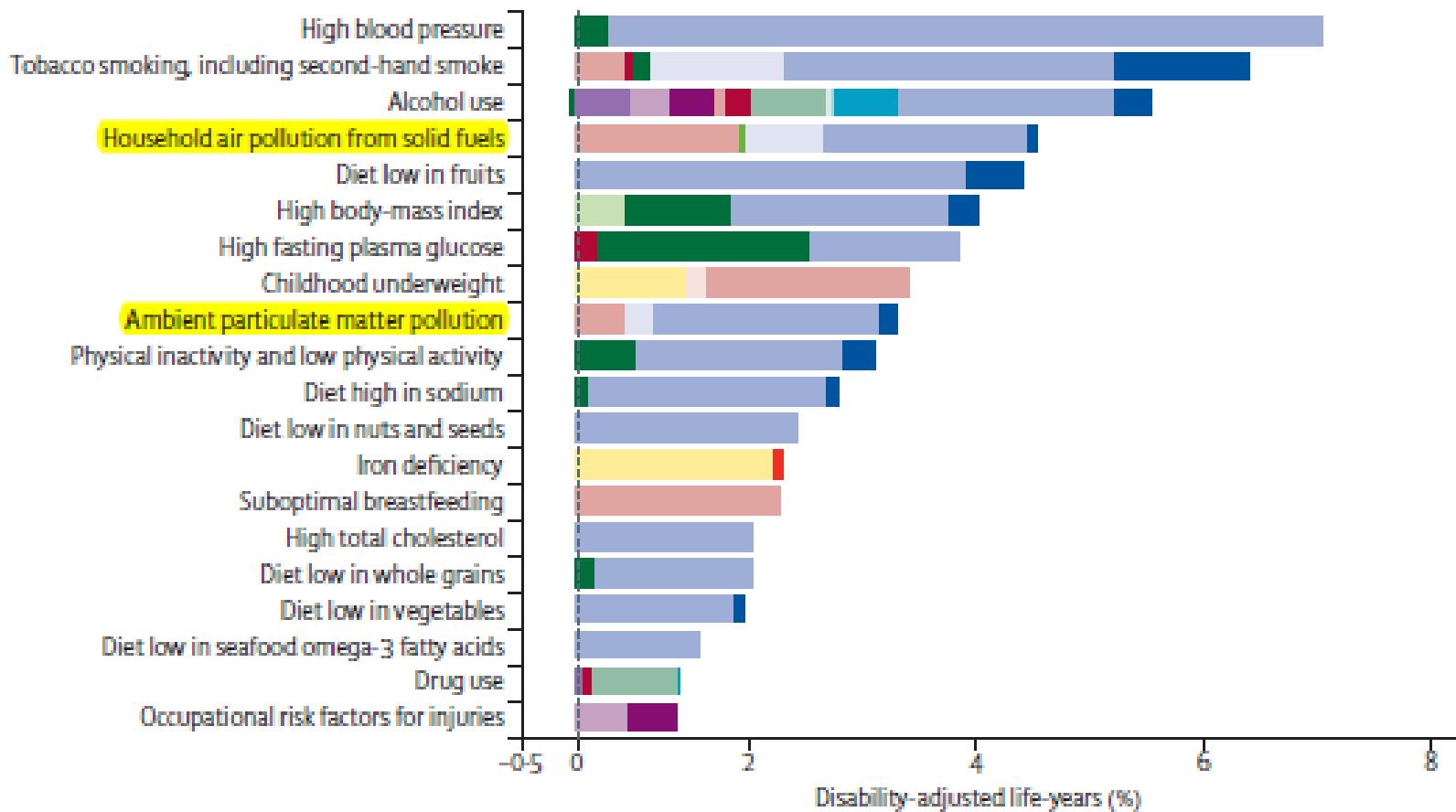
"Quanto à relação MP_{2,5}/MP₁₀, as medições realizadas pela CETESB na RMSP, desde 1987, mostraram que o MP_{2,5} corresponde a cerca de 60% do material particulado inalável (MP10).

Estudos realizados pela CETESB indicam que grande parte das partículas inaláveis finas na RMSP é de origem veicular, quer pela emissão direta deste poluente quer pela emissão de gases, destacando-se os compostos orgânicos voláteis e o dióxido de enxofre, que reagem na atmosfera dando origem ao material particulado secundário. Nesta fração, o aporte de aerossóis provenientes da ressuspensão de poeira de rua não é significativo." (CETESB, 2014 p. 64)

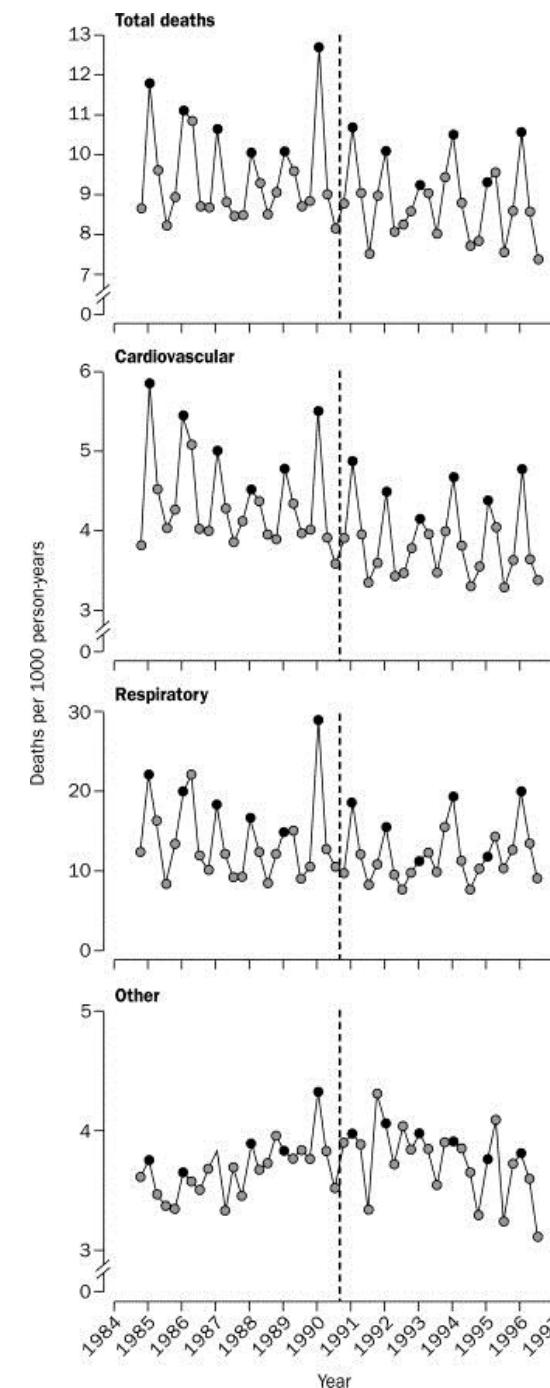
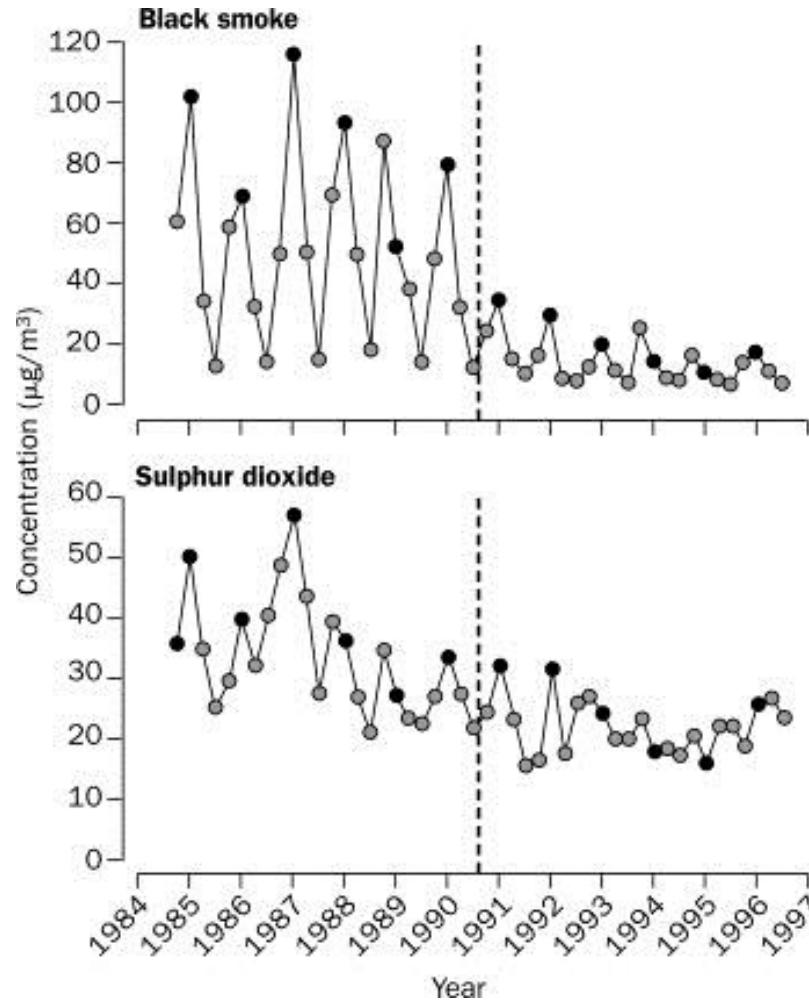


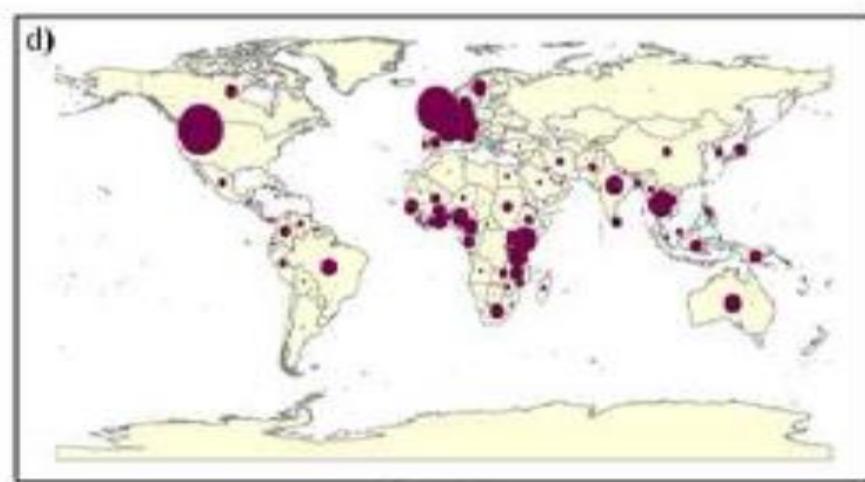
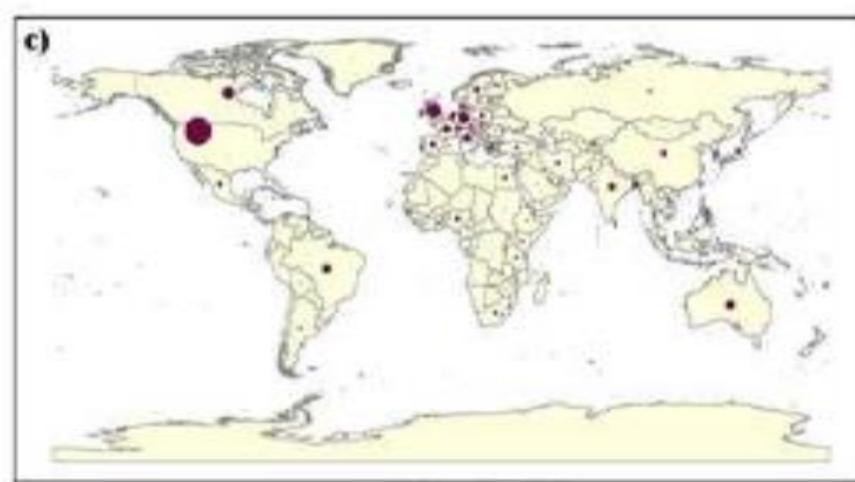
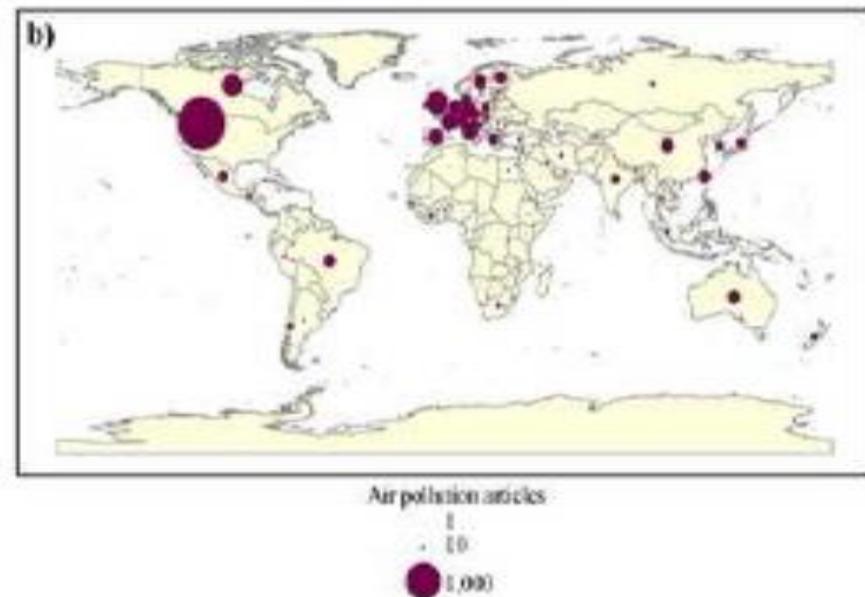
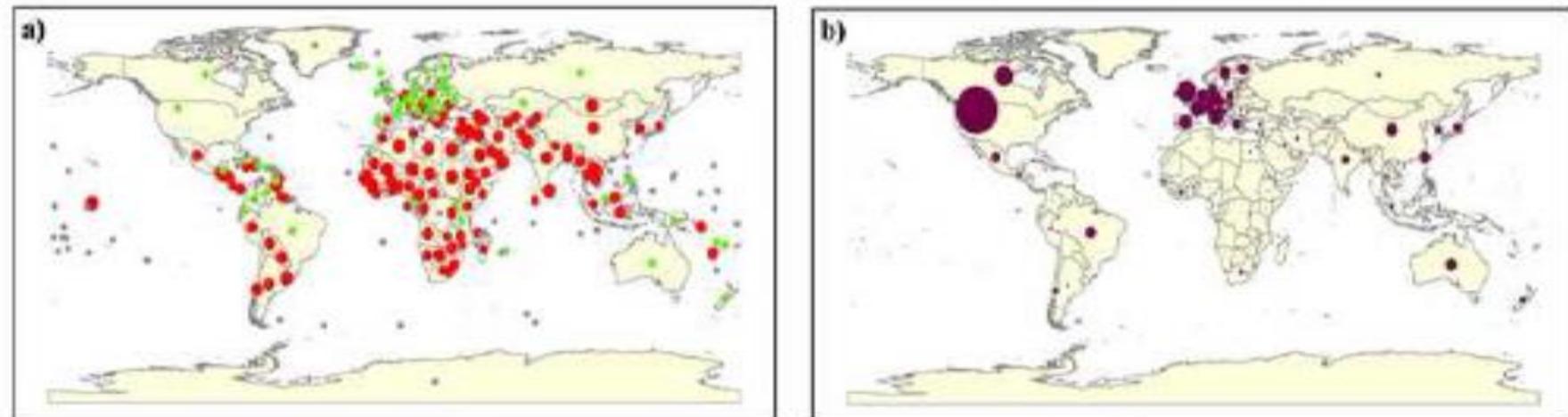


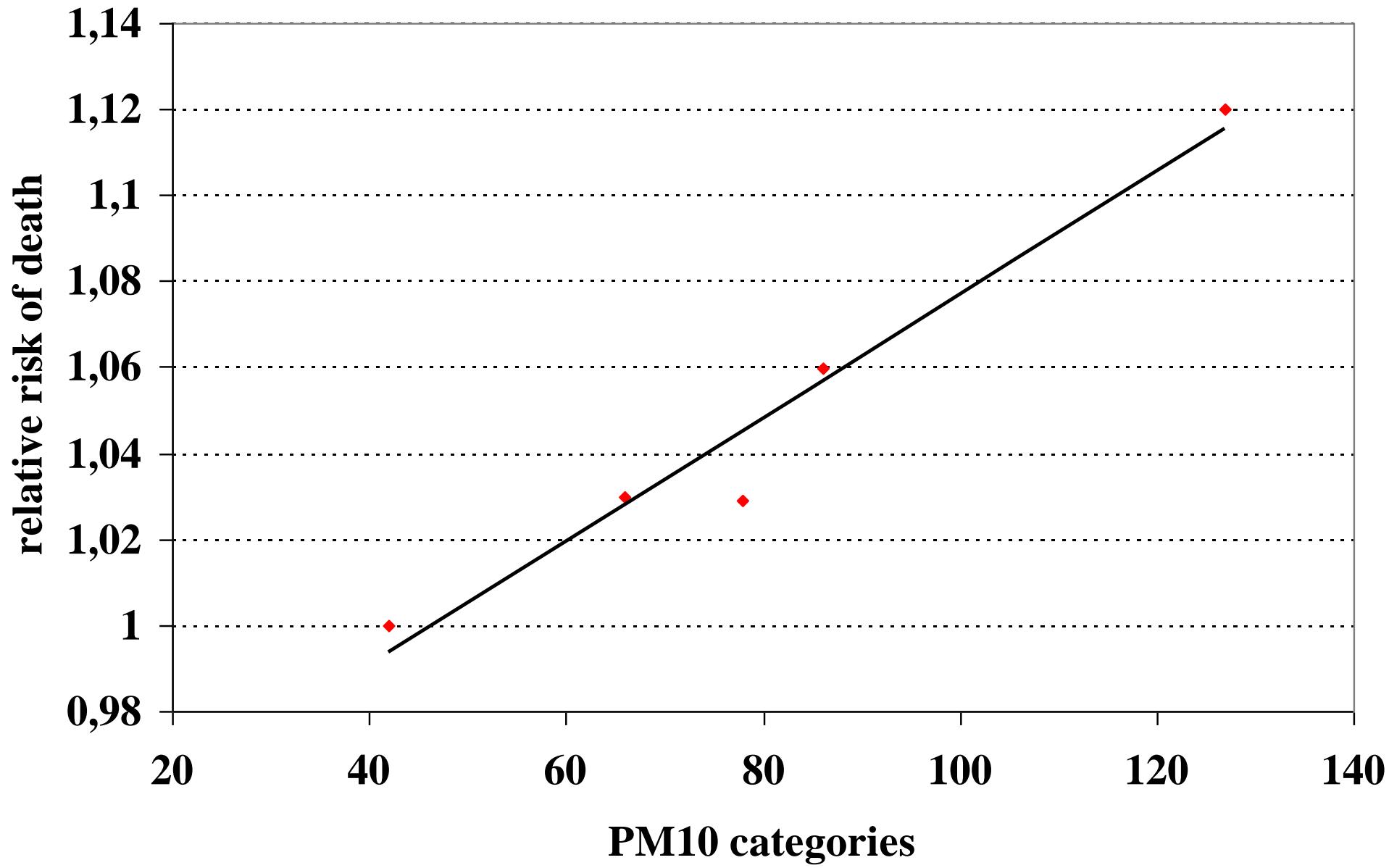
Background

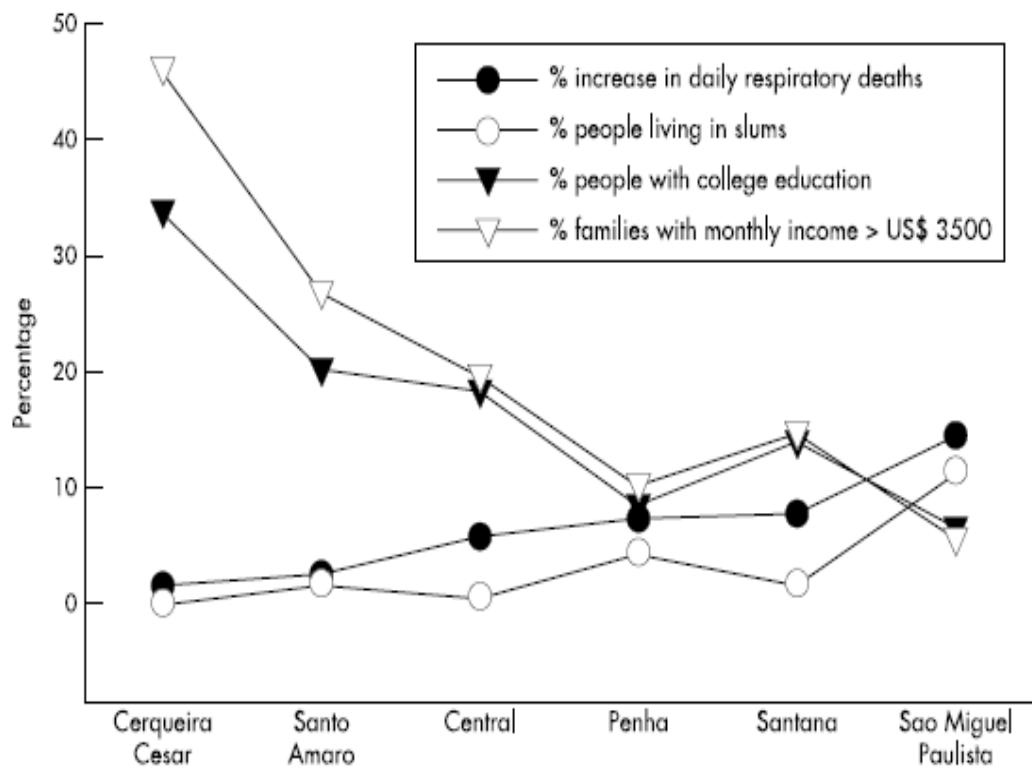


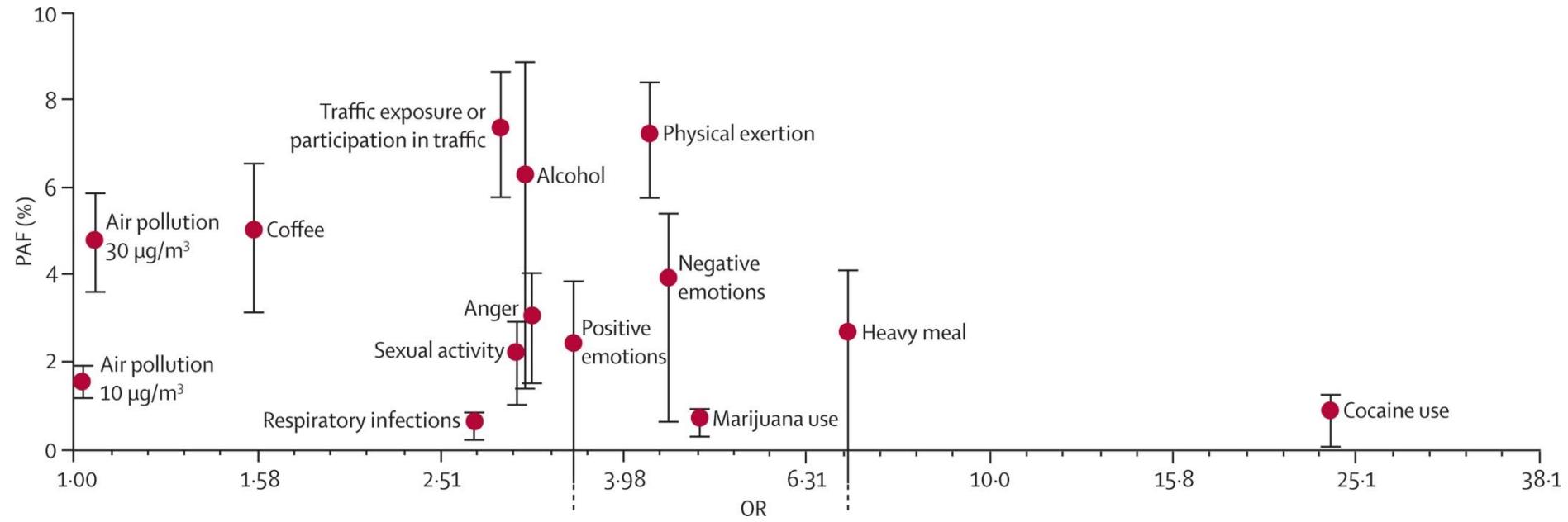
Burden of disease attributable to 20 leading risk factors in 2010, both sex





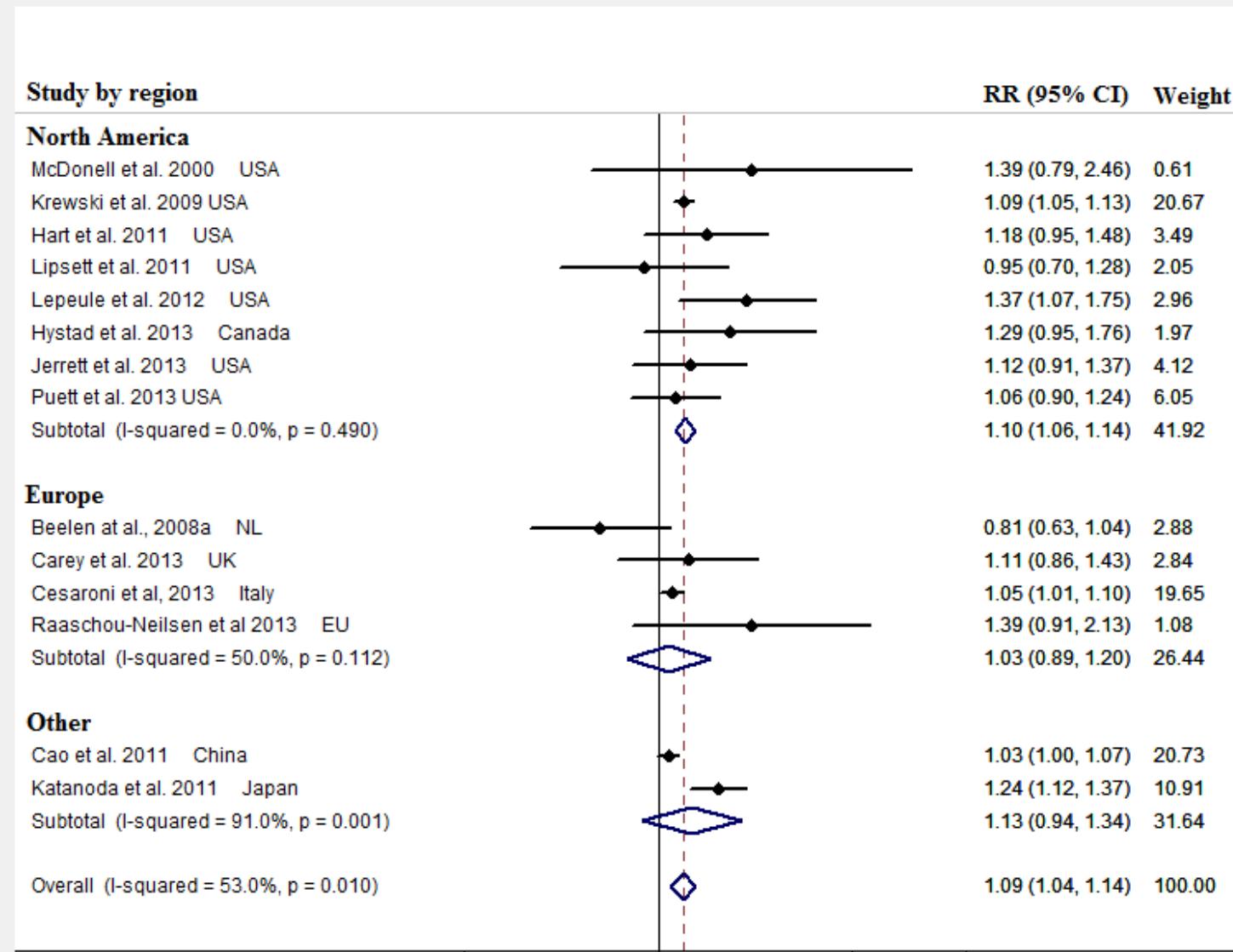






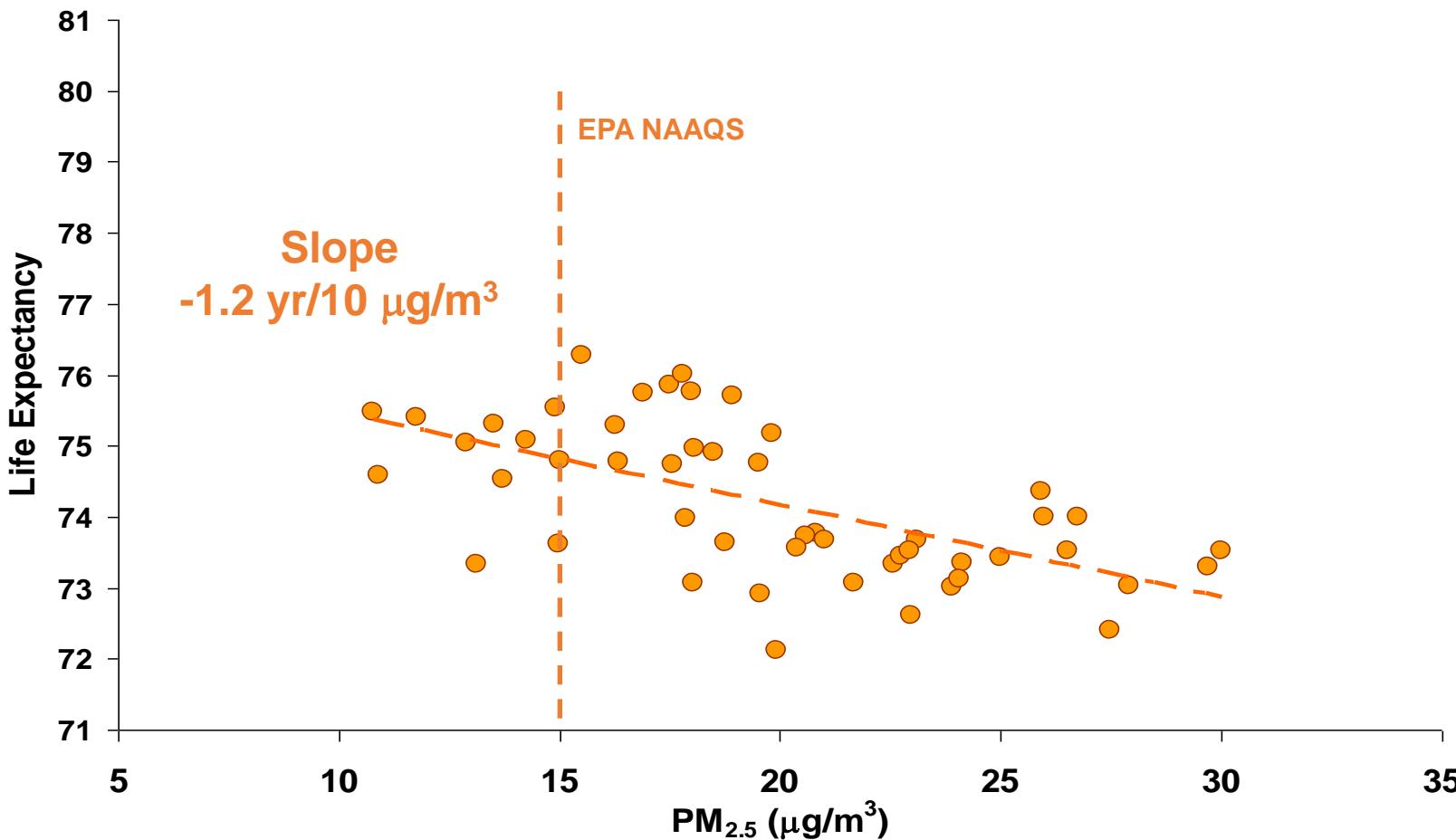
Lancet. 2011 Feb 26;377(9767):732-40

Lung Cancer and PM_{2.5} Meta-Analysis



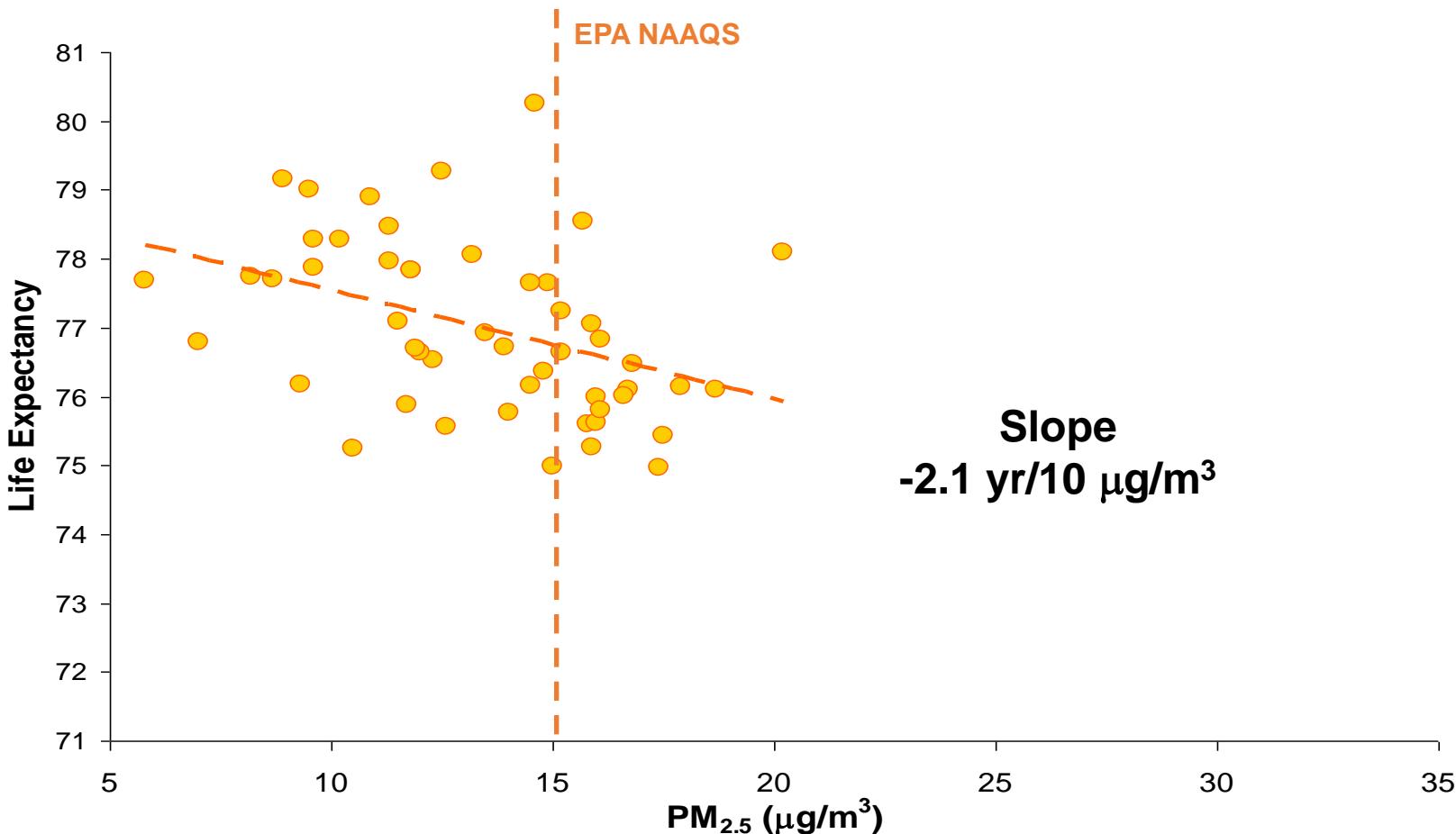
Relative Risk Estimate

Life Expectancy vs PM_{2.5} 1978-82



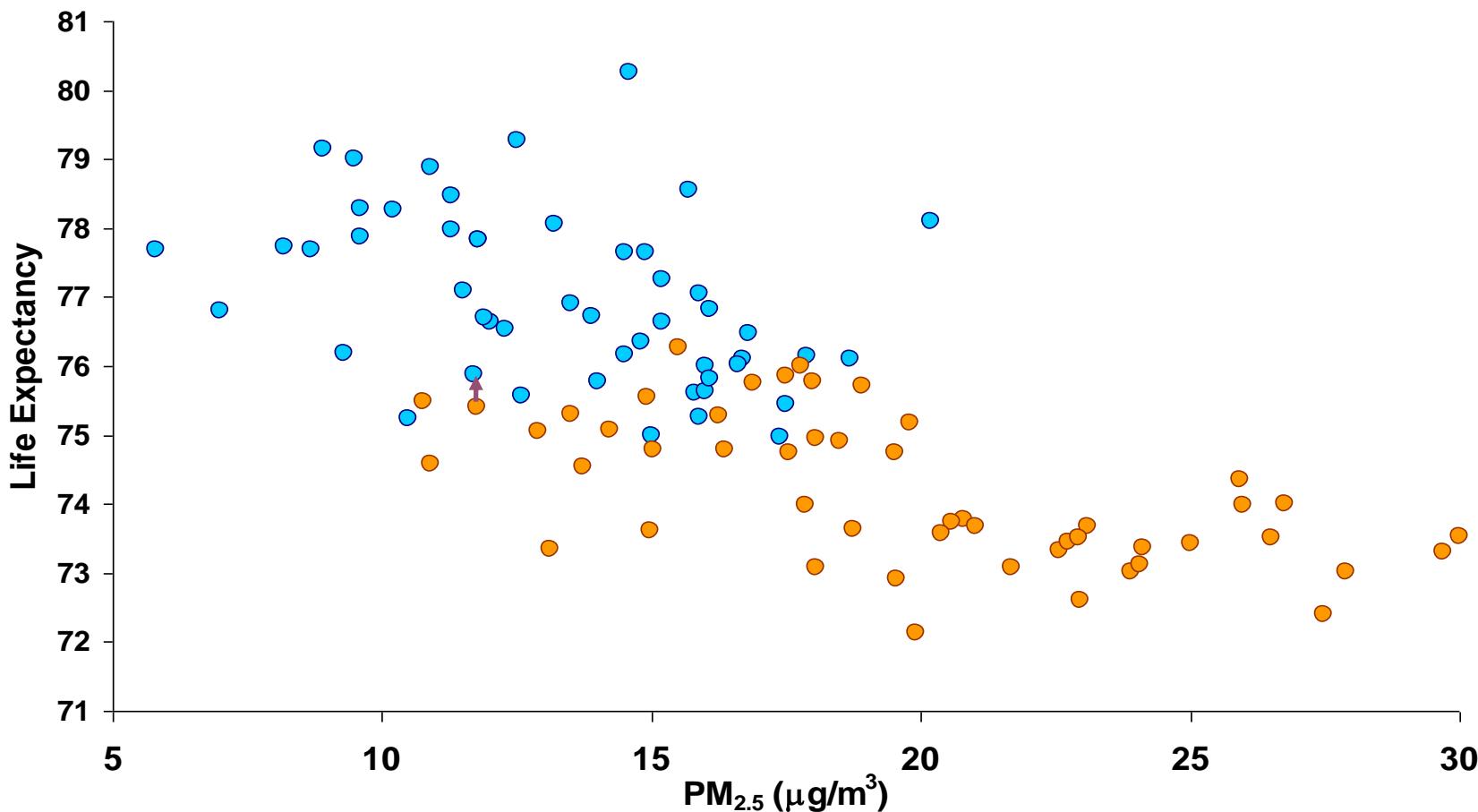
Pope, Ezzati, Dockery (NEJM 2009)

Life Expectancy vs PM_{2.5} 1997-2001



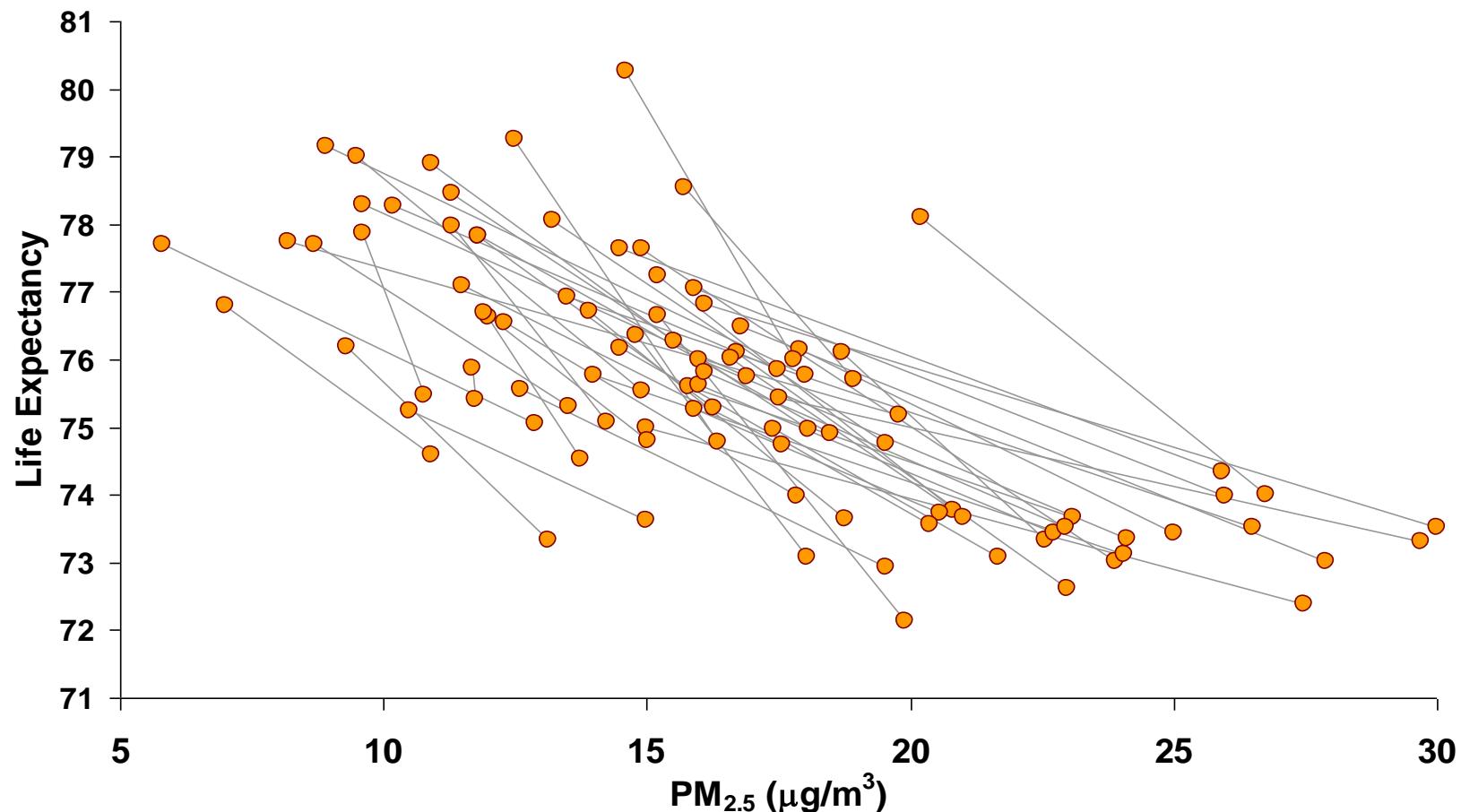
Pope, Ezzati, Dockery (NEJM 2009)

Life Expectancy vs PM_{2.5} 1980-2000



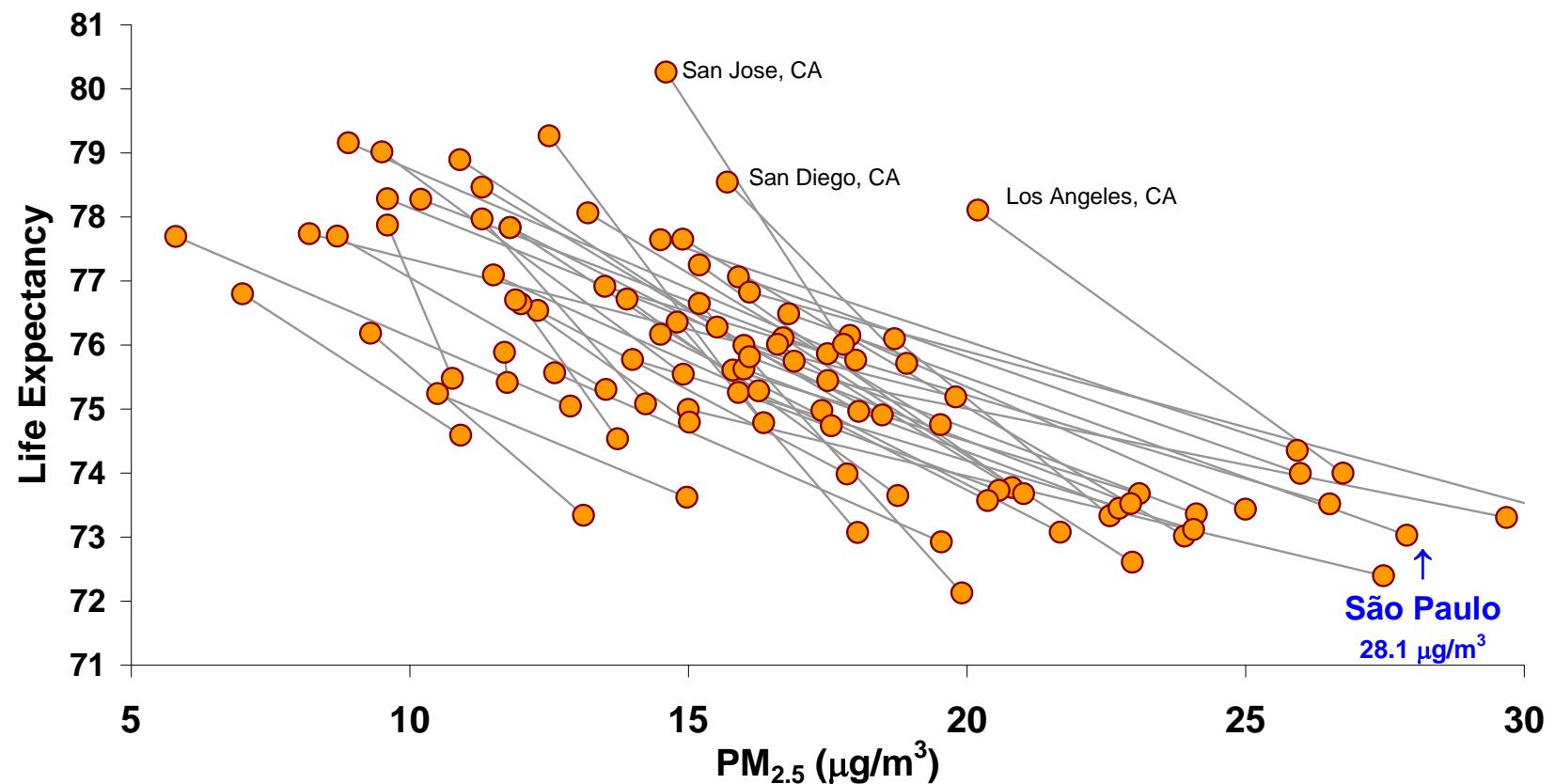
Pope, Ezzati, Dockery (NEJM 2009)

Life Expectancy vs PM_{2.5} 1980-2000



Pope, Ezzati, Dockery (NEJM 2009)

Life Expectancy vs PM_{2.5} 1980-2000



Life Expectancy vs PM_{2.5} 1980-2000

