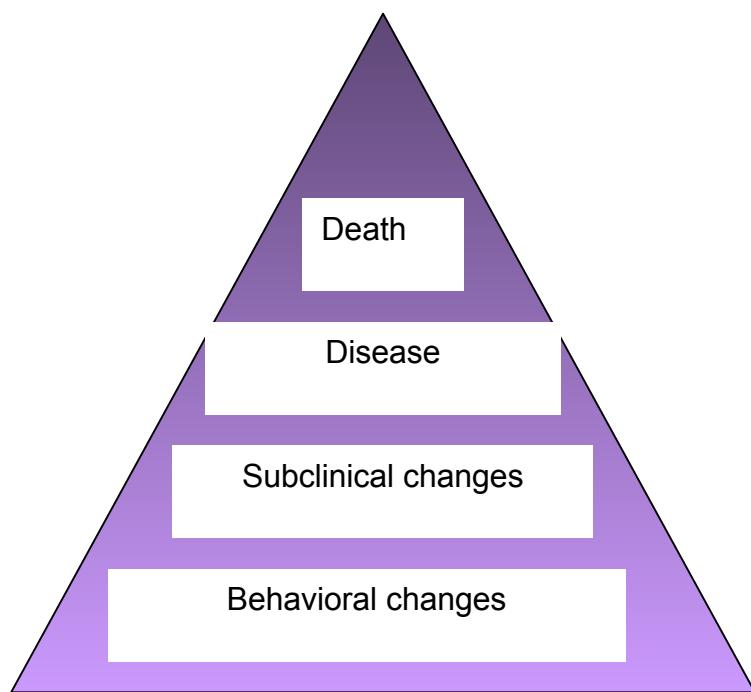


Mudanças climáticas e saúde humana

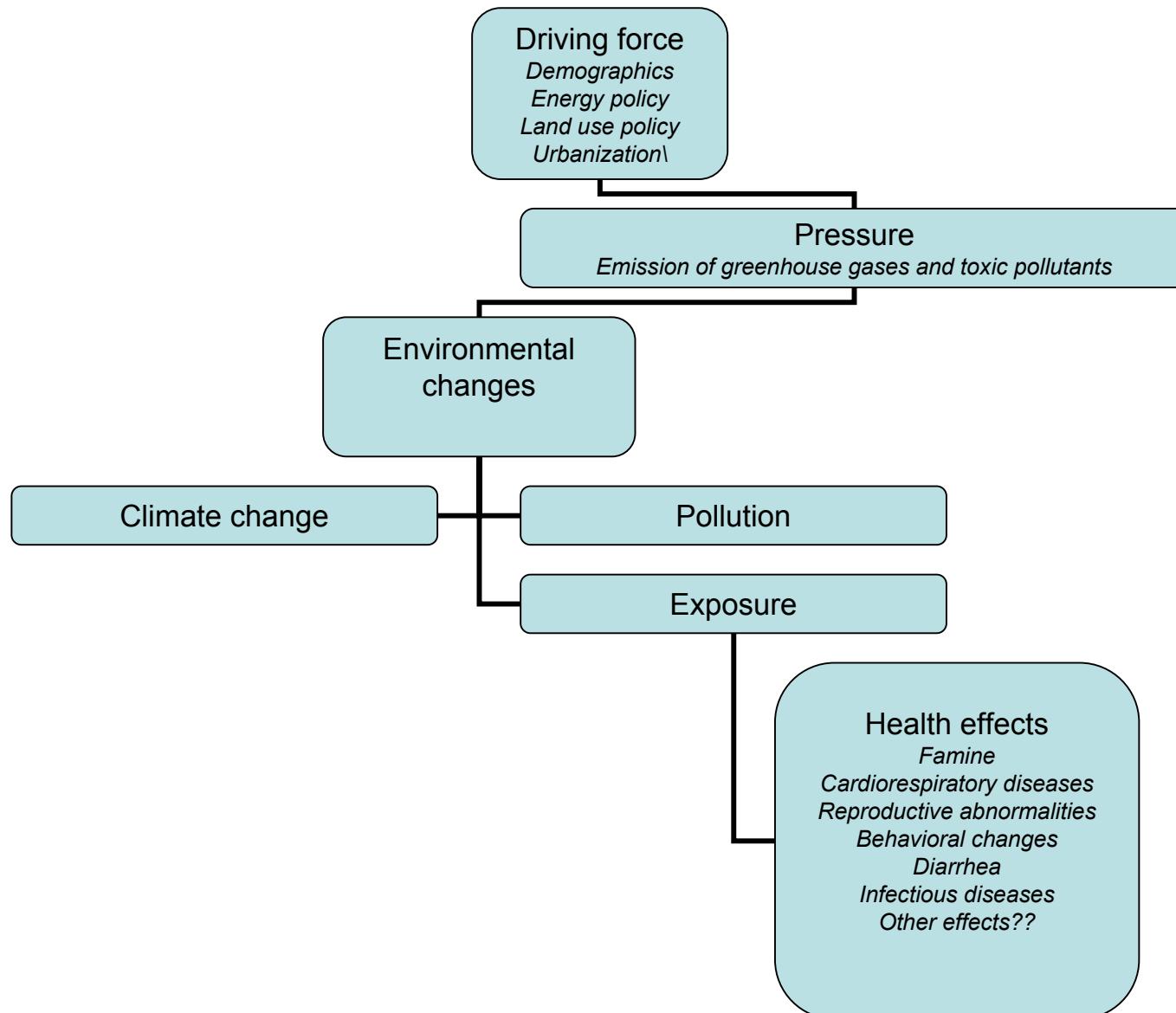
Paulo Saldiva

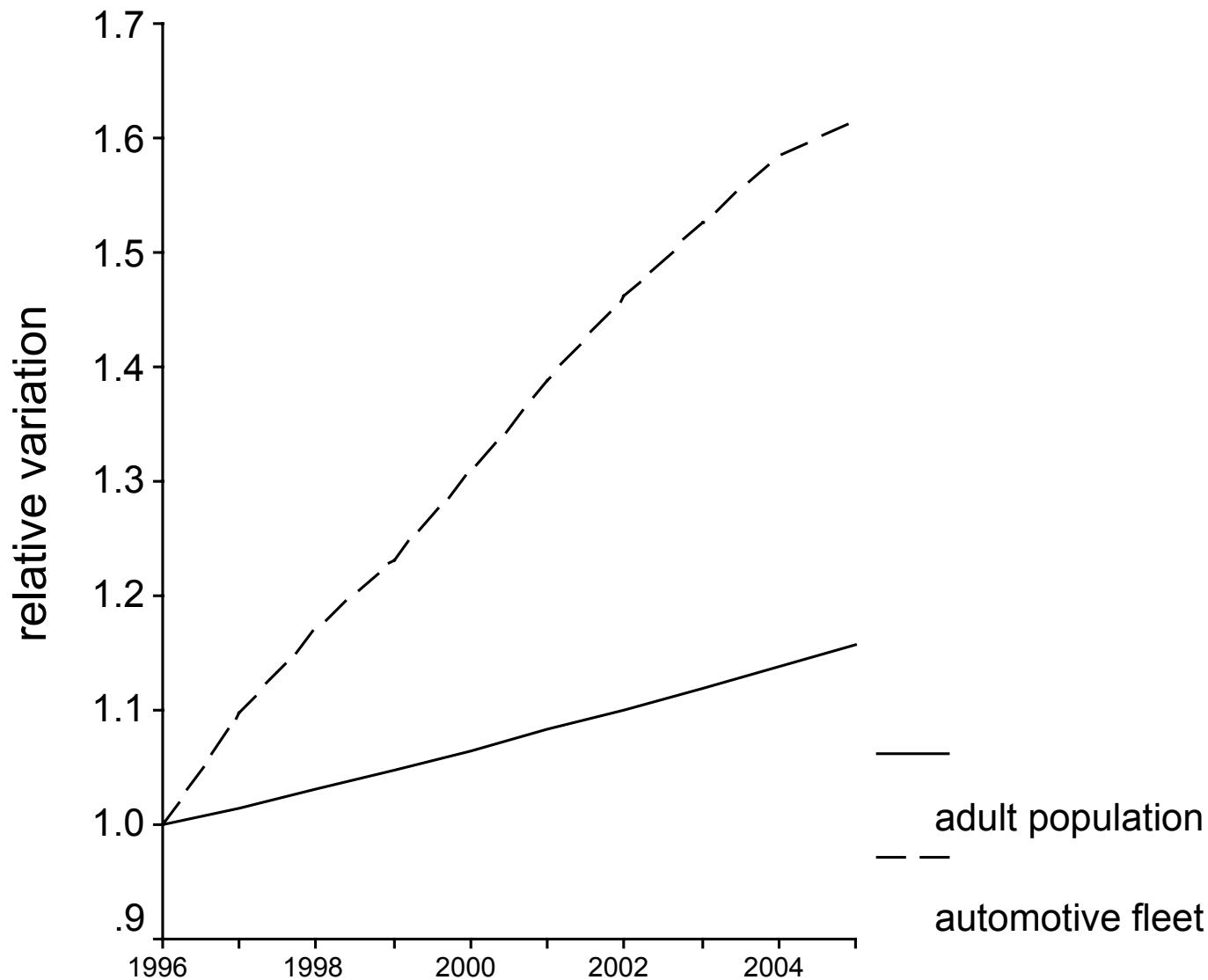
Faculdade de Medicina da USP

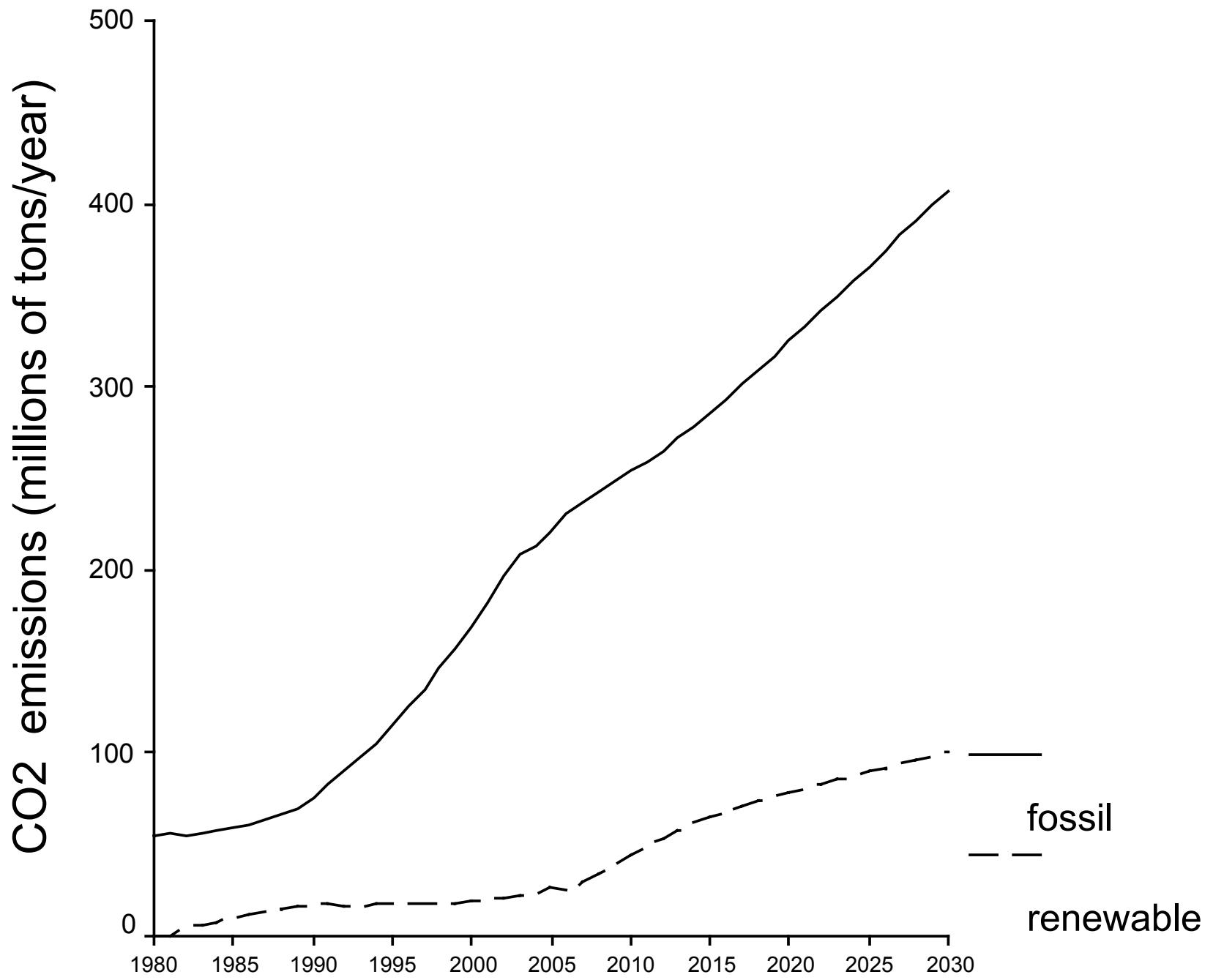
pepino@usp.br



Kovats RS, Campbell-Lendrum D, Matthies F. 2005. Climate change and human health: estimating avoidable deaths and disease. Risk Analysis 25:1409-1418

















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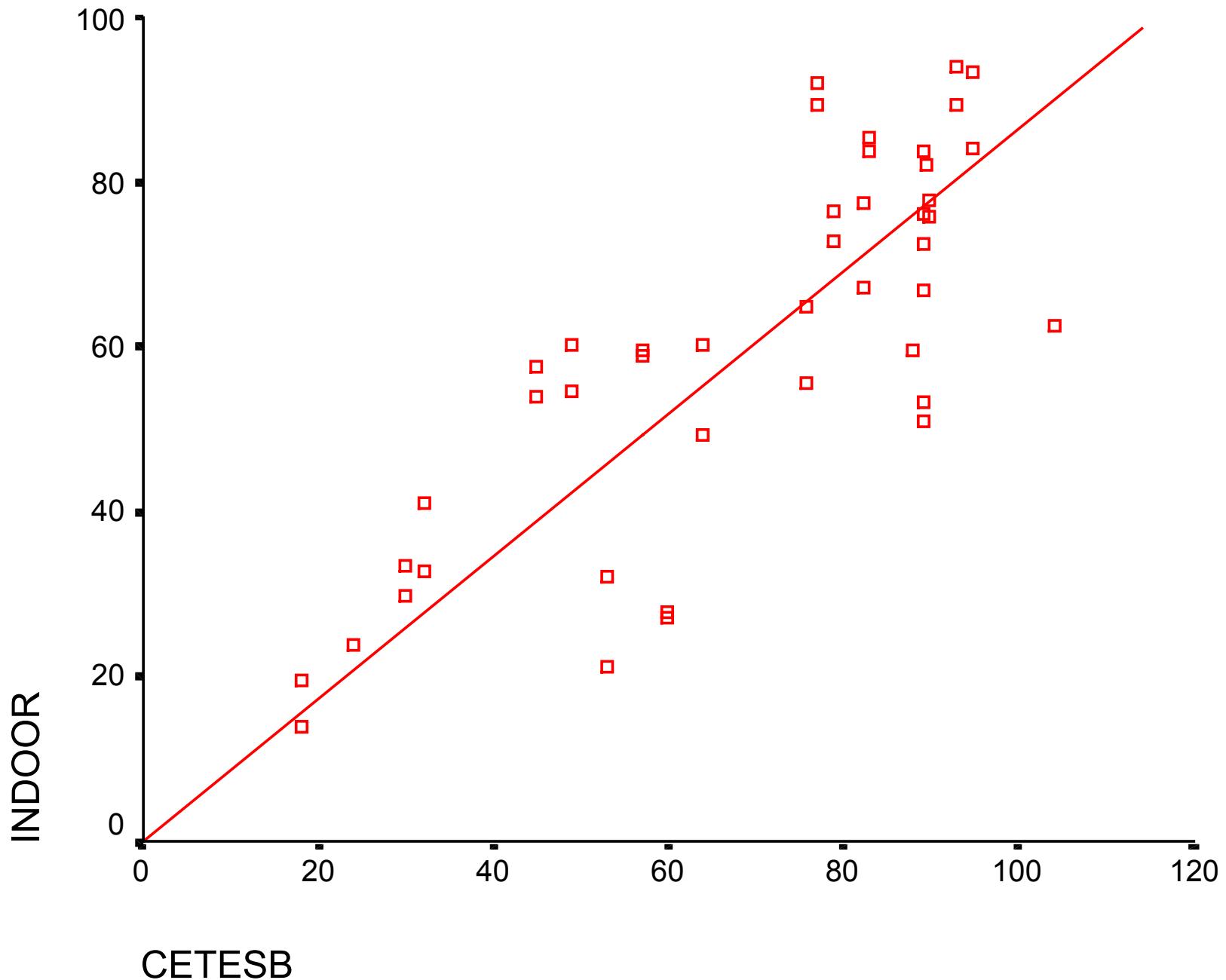
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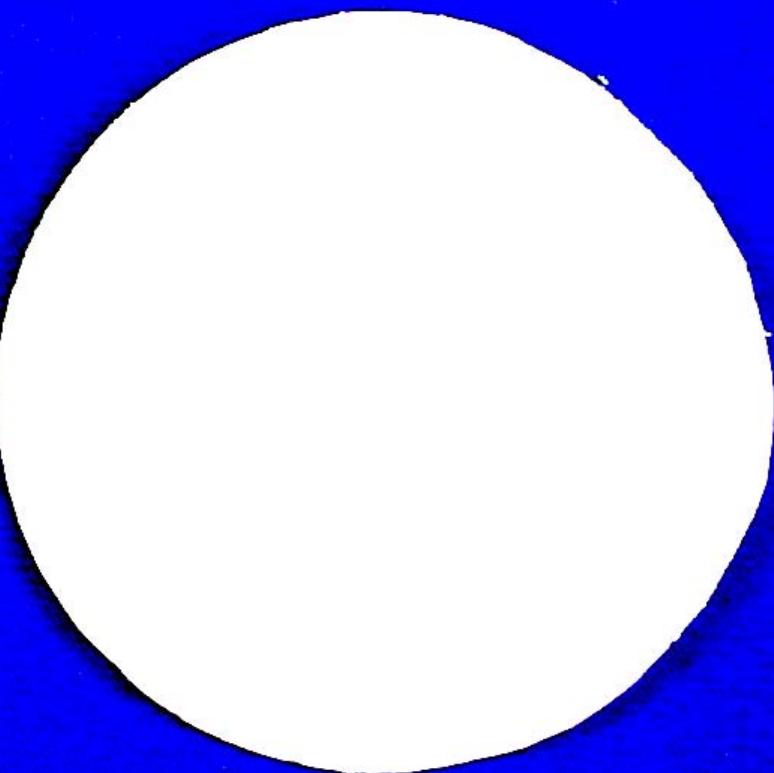
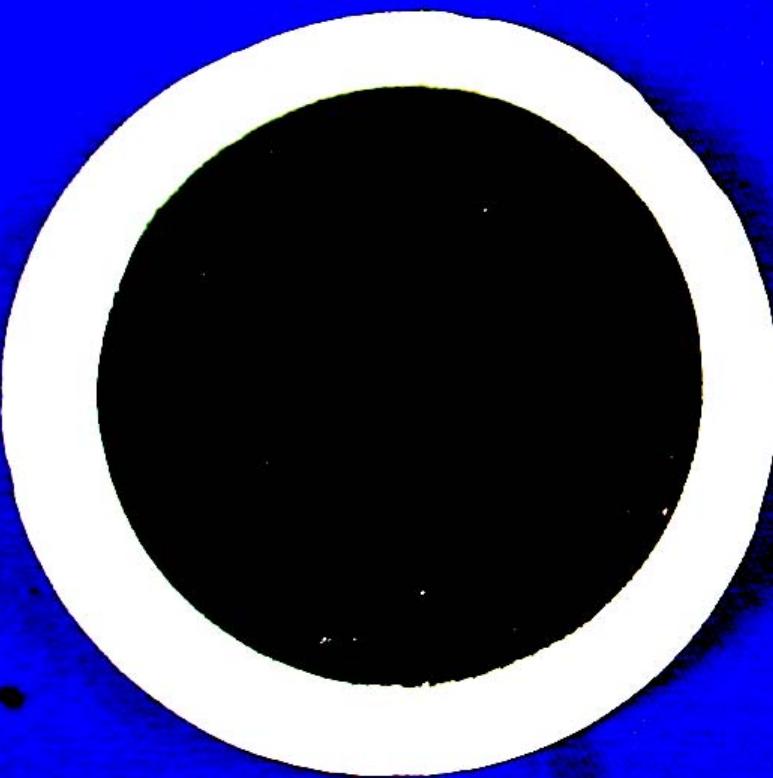


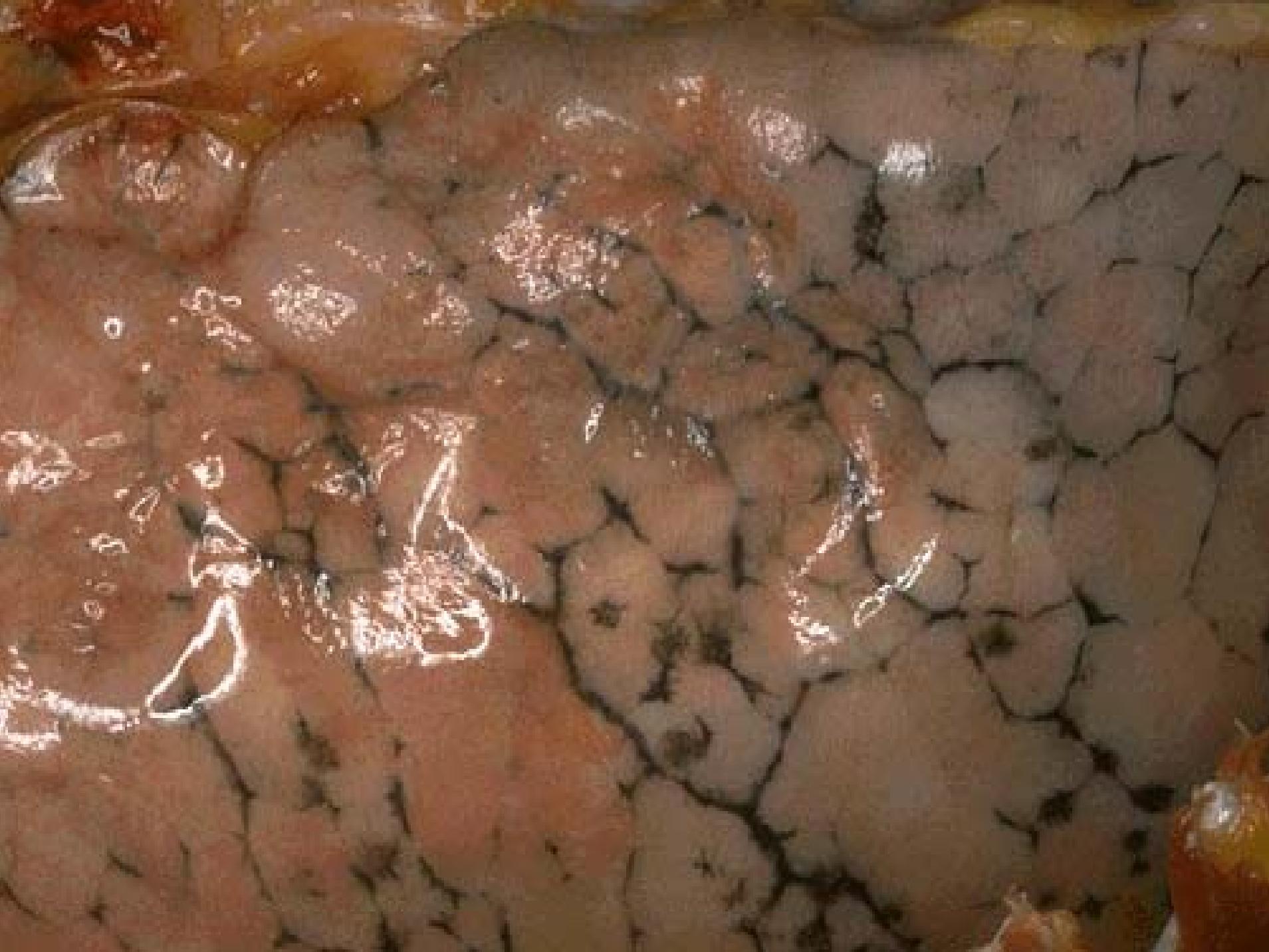
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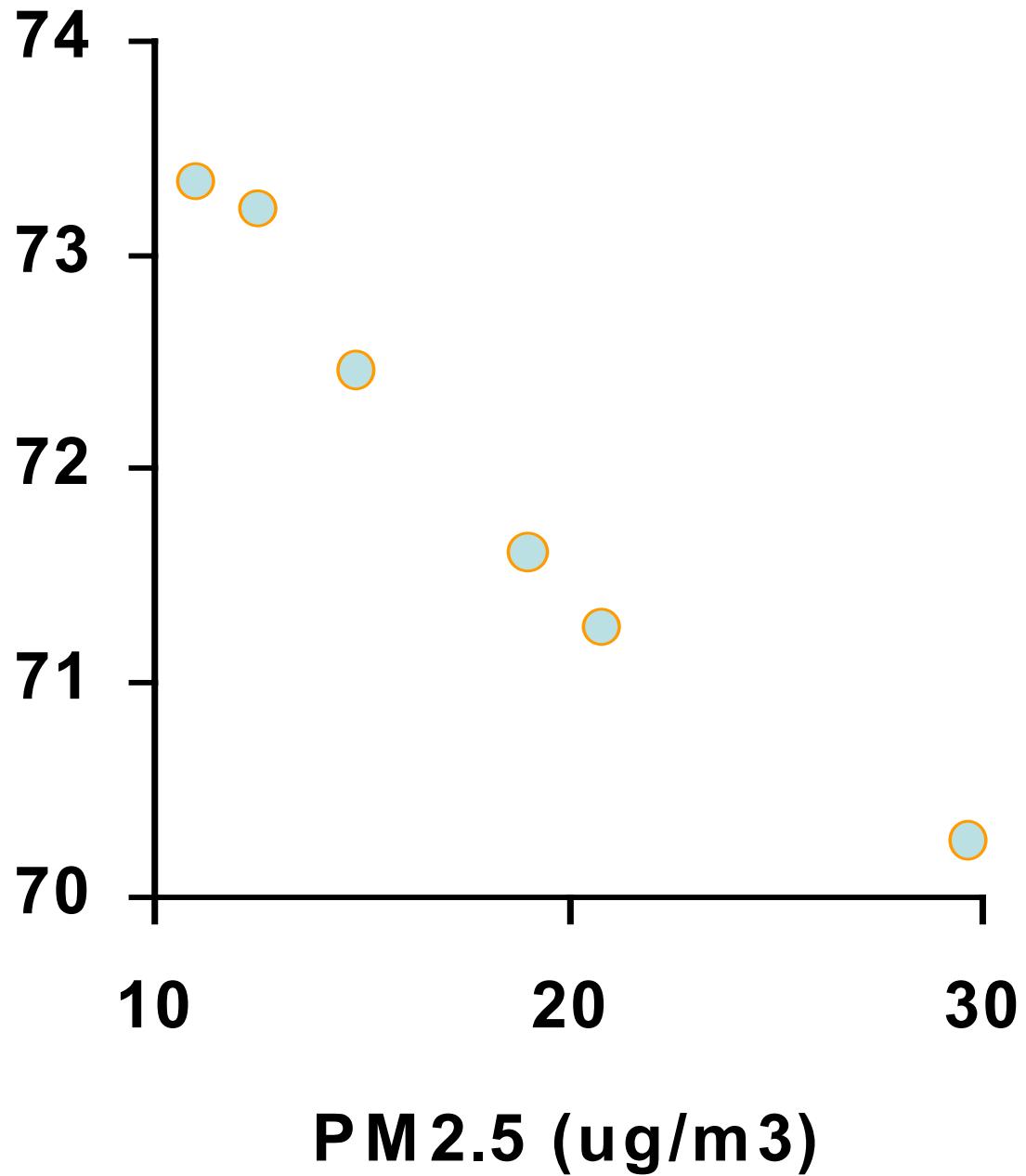
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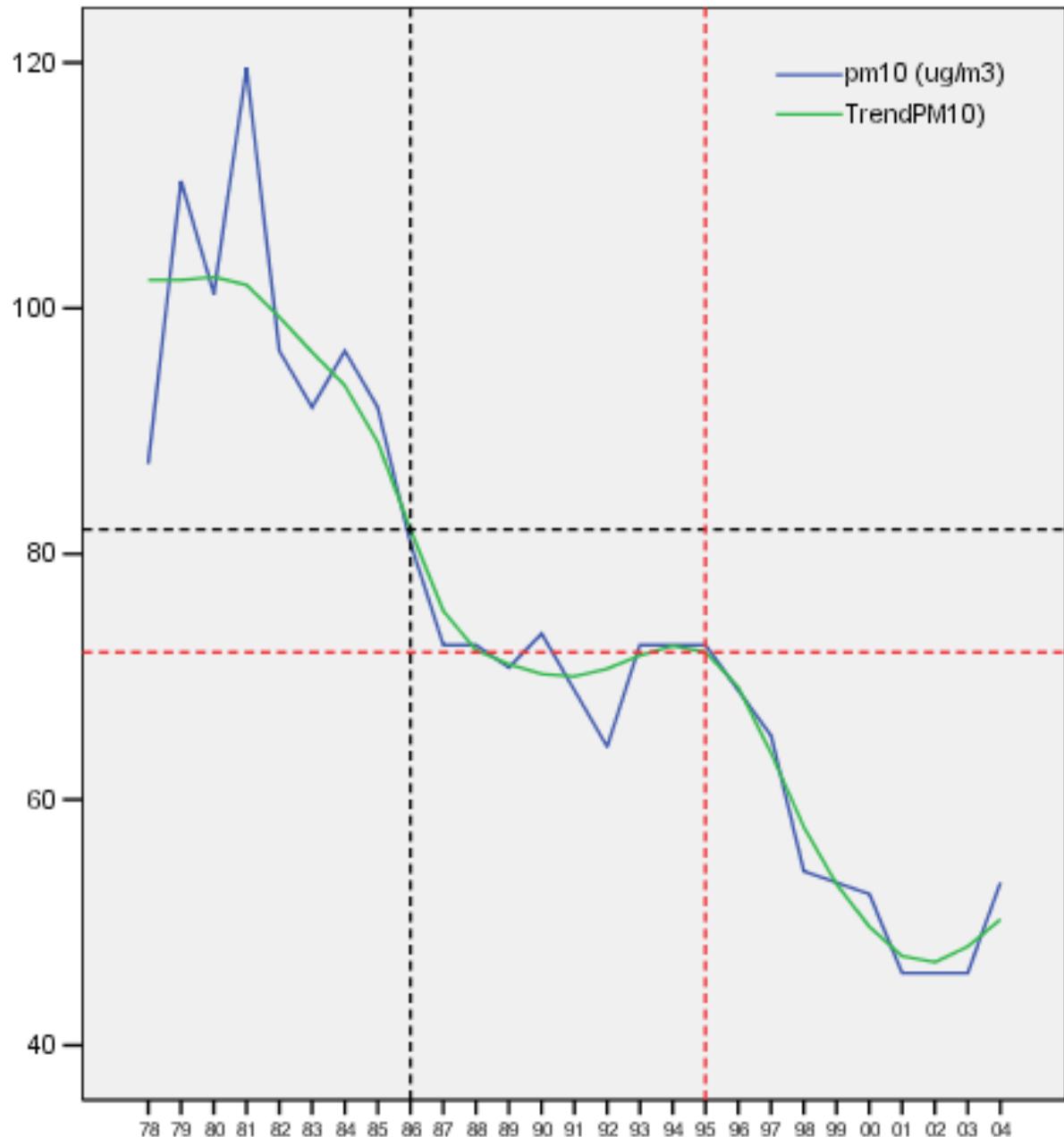


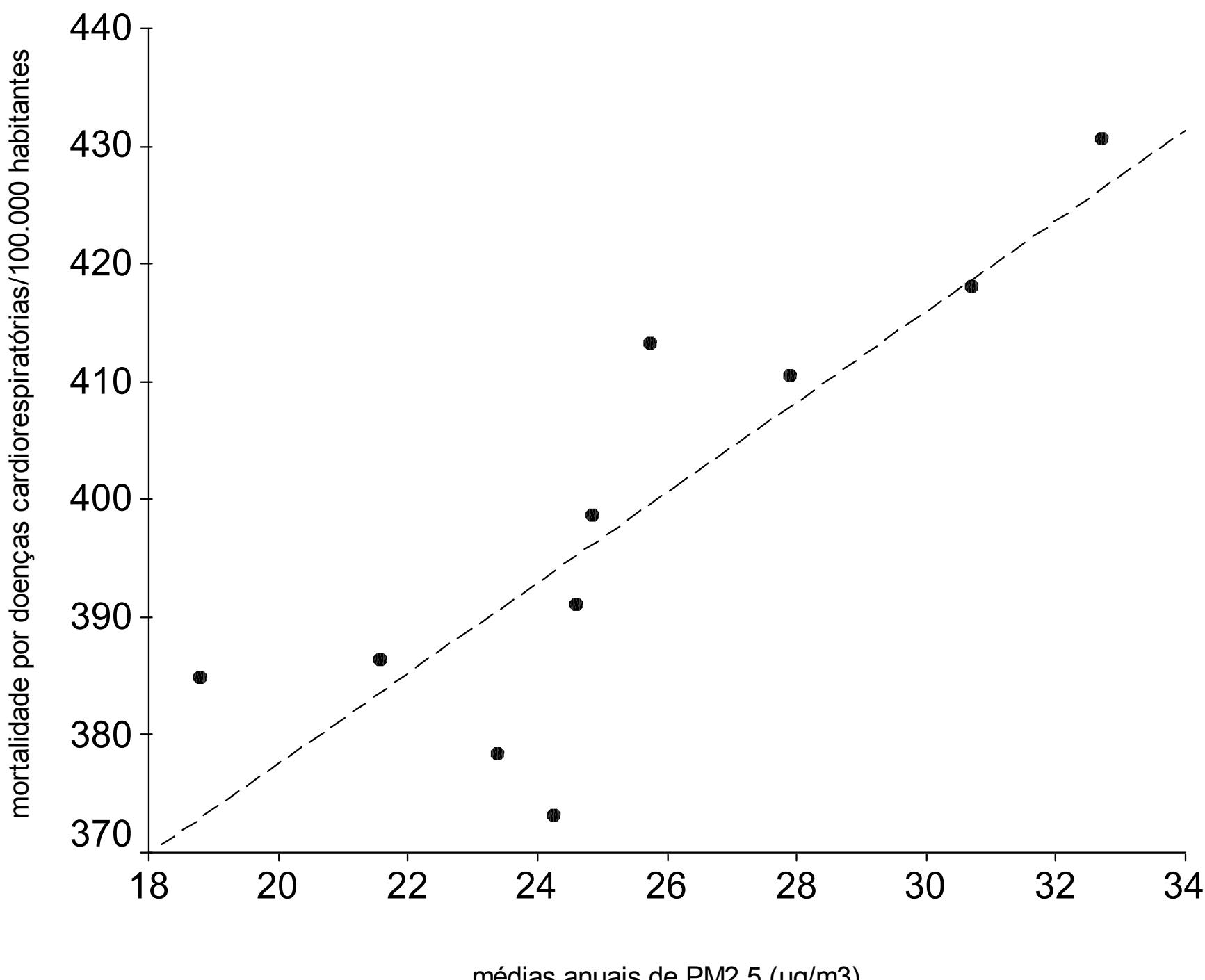


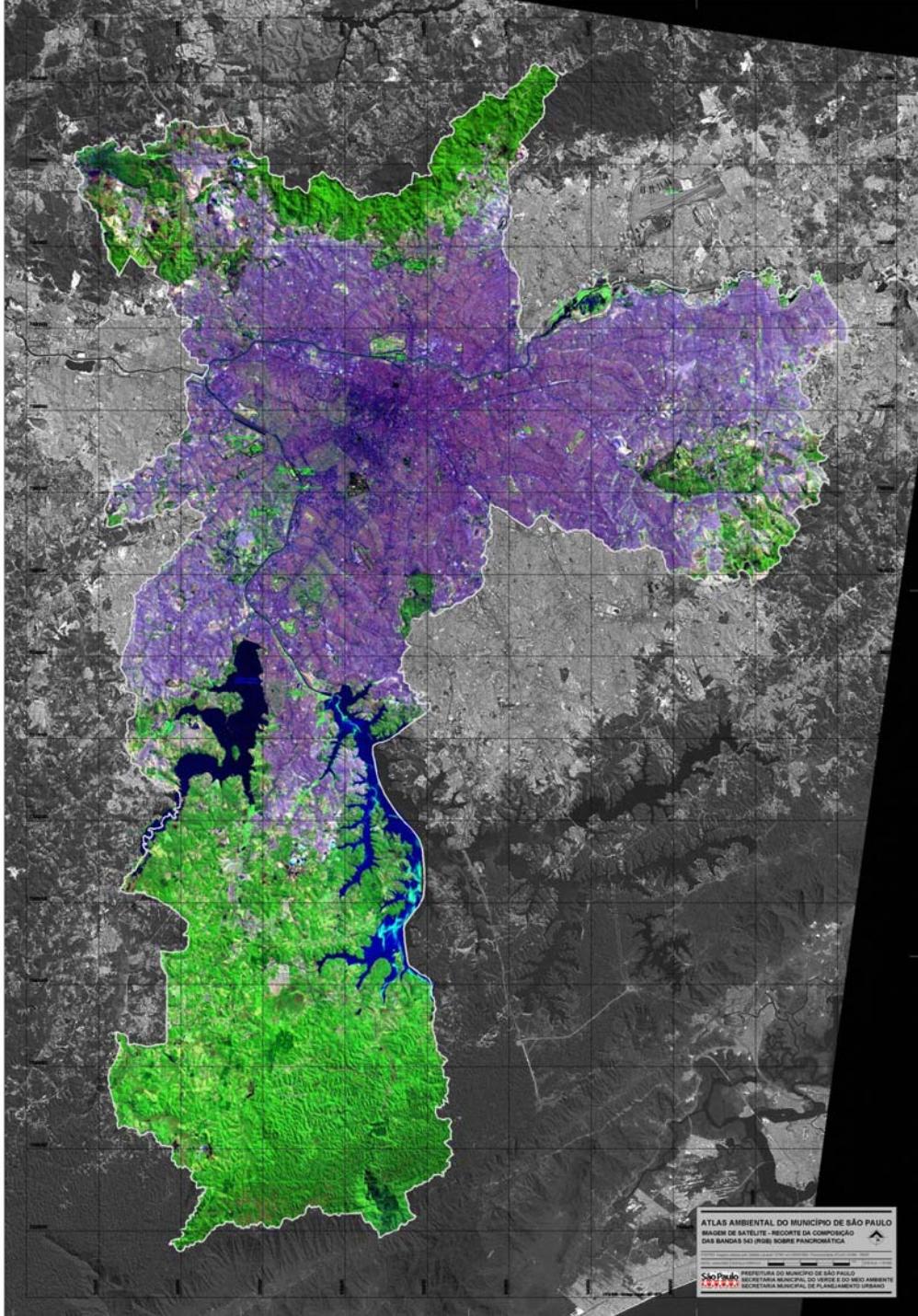












ATLAS AMBIENTAL DO MUNICÍPIO DE SÃO PAULO
IMAGEM DE SATELITE - RECORTE DA COMPOSIÇÃO
DAS BANDAS 5 (RGE) SOBRE PANORAMICA

São Paulo

PREFEITURA DO MUNICÍPIO DE SÃO PAULO
SECRETARIA MUNICIPAL DO MEIO AMBIENTE
SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO

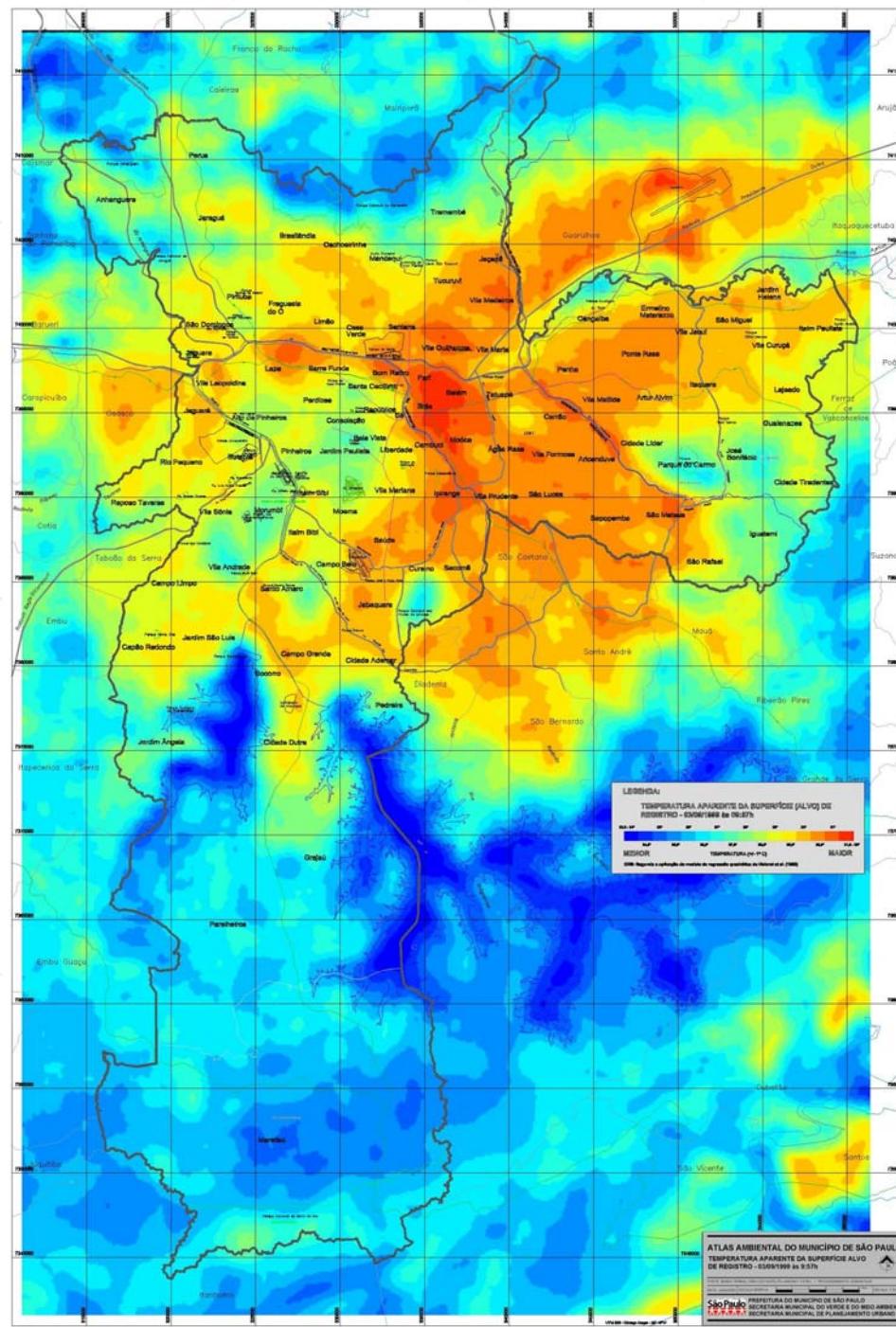
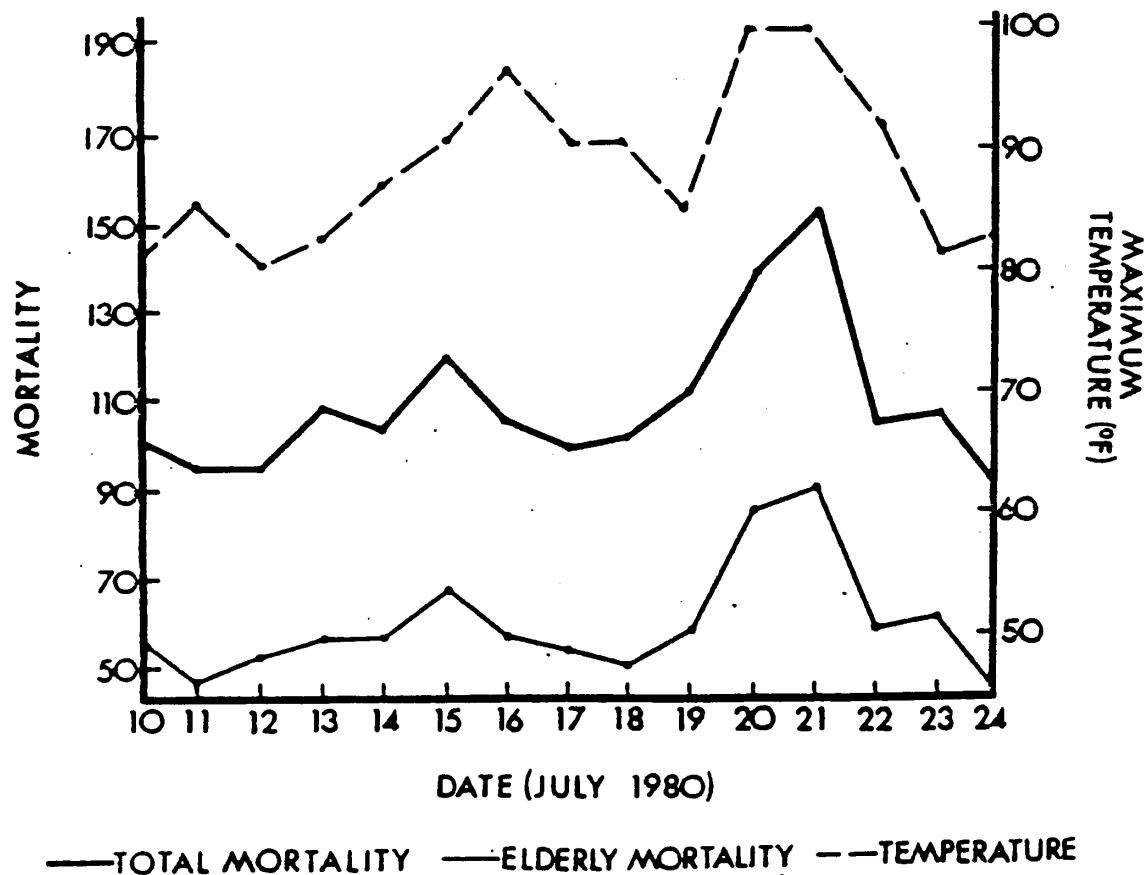


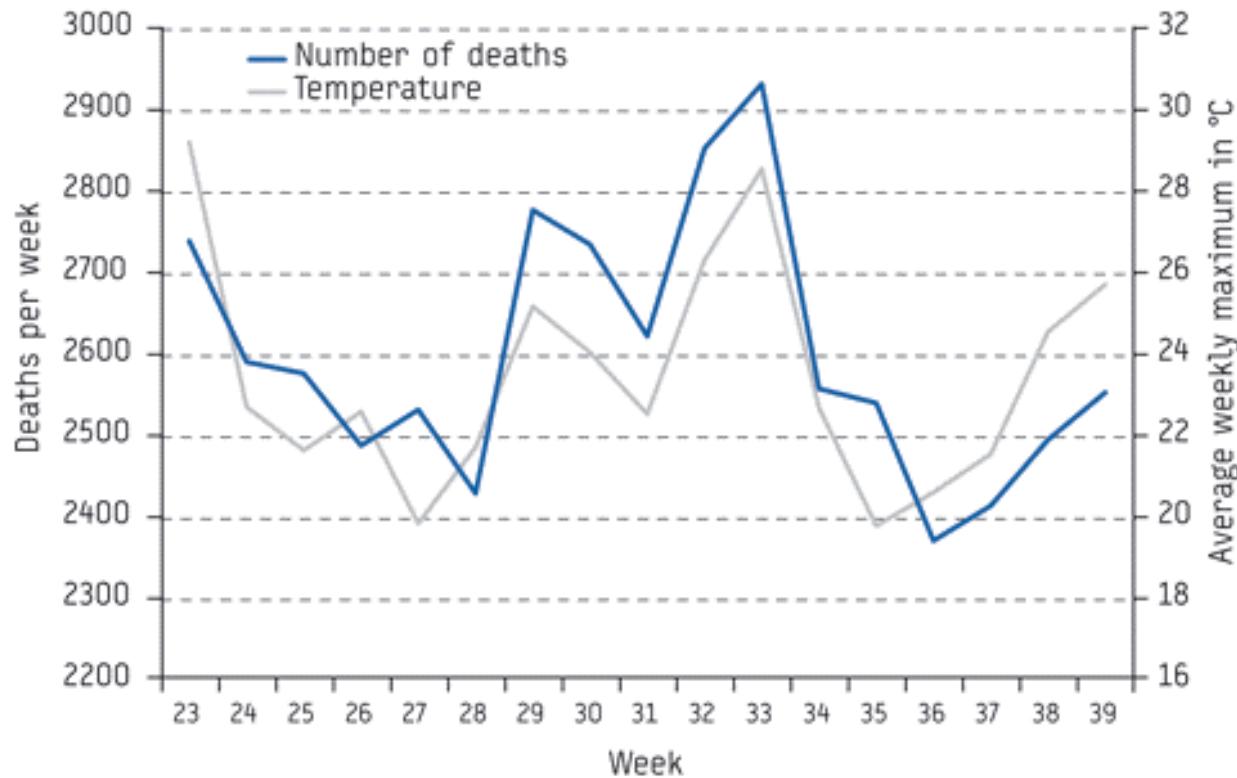
FIGURE V-1
Mortality During 1980 Heat Wave in New York City



Source: Kalksten, Davis and Skindlow (September 1986).

FIGURE 2

Mortality and average maximum temperature per week,
The Netherlands, June-September 2003



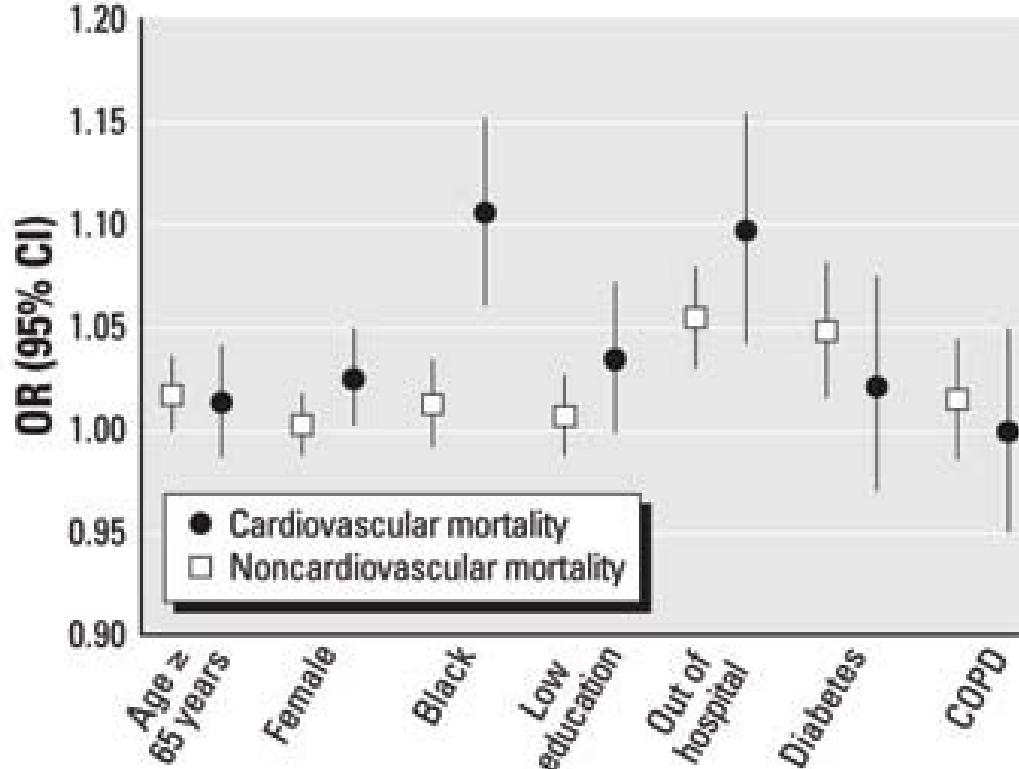
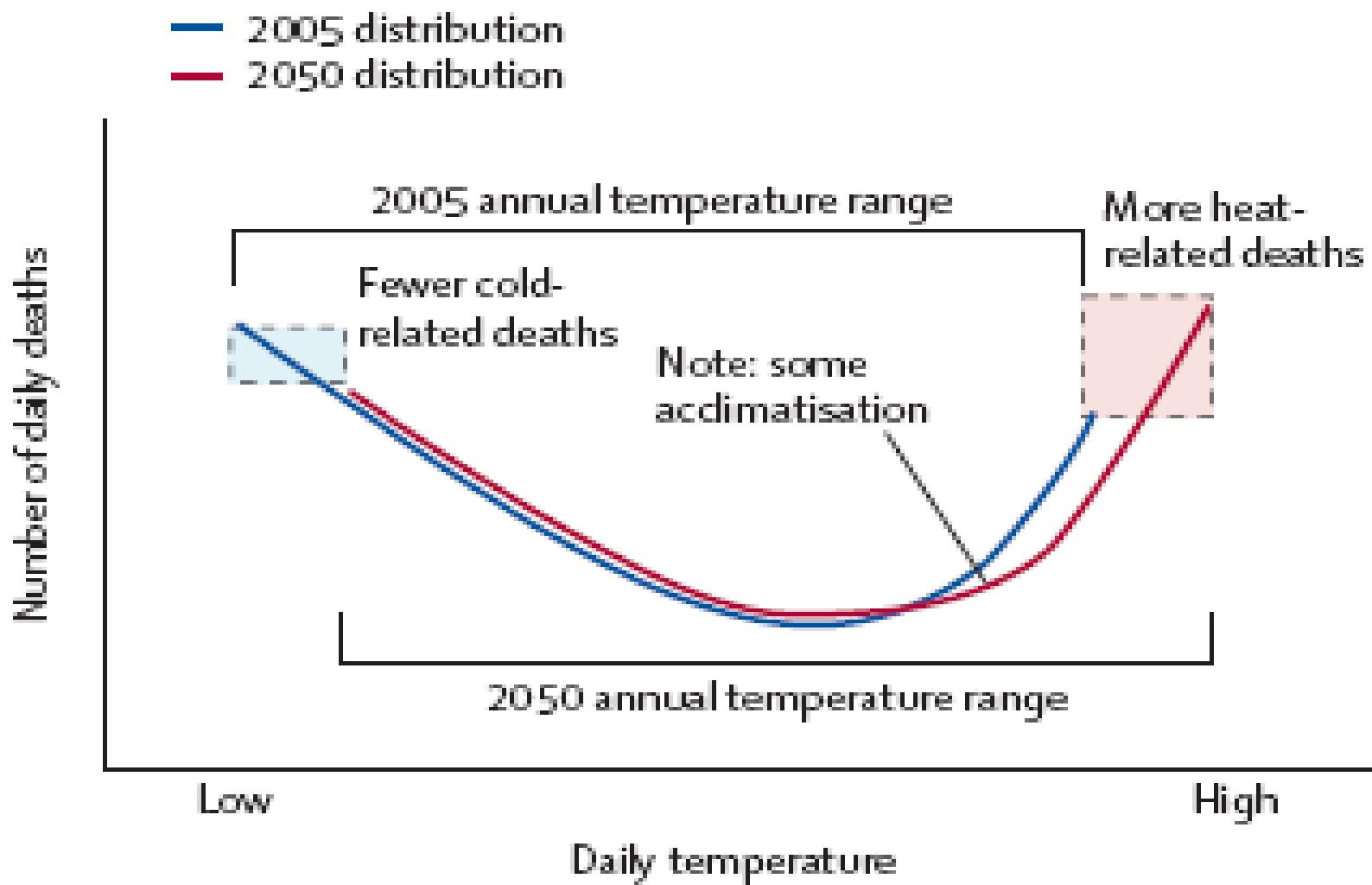
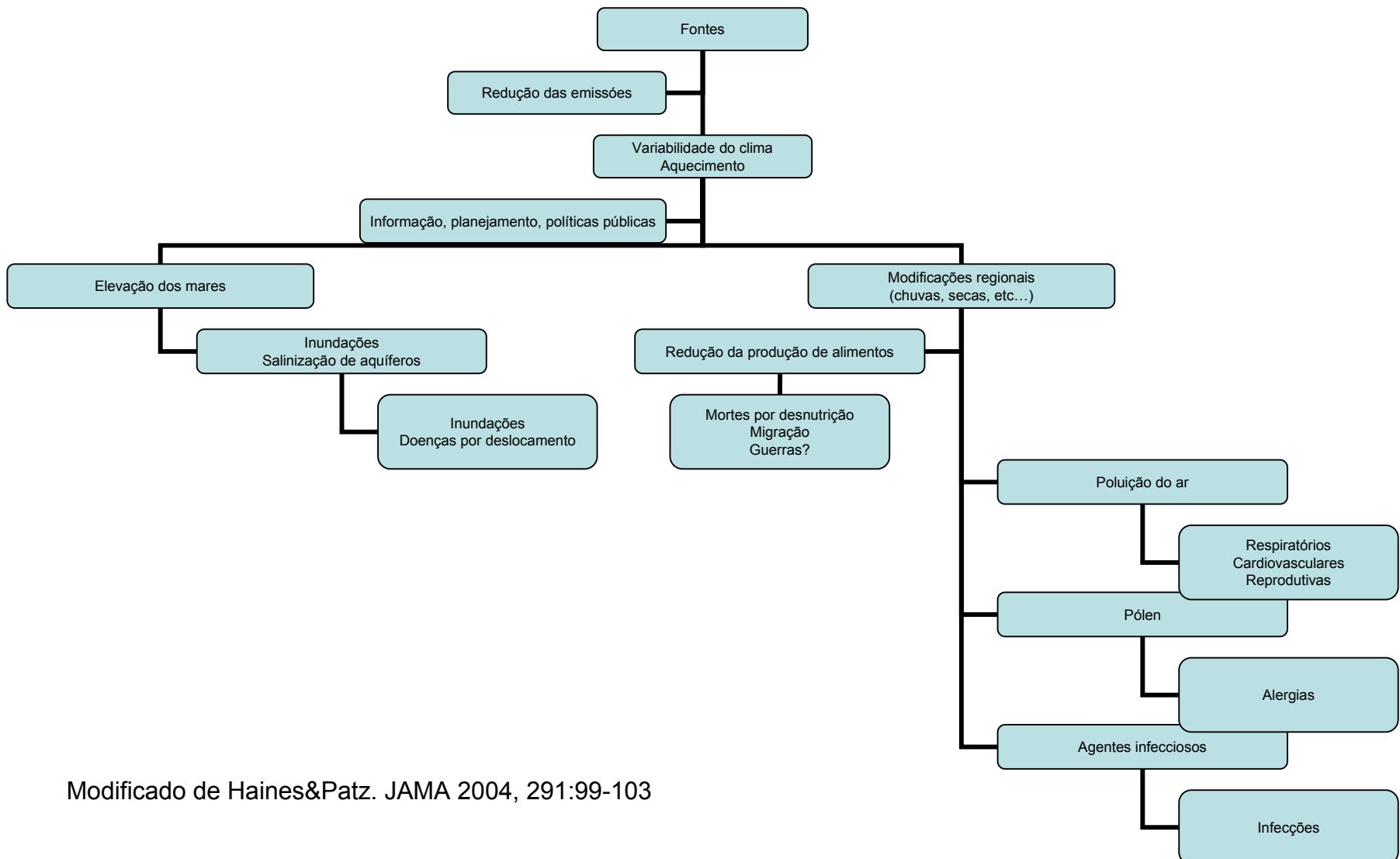


Figure 2. Modification by subject characteristics of the effect of extreme hot temperature on cardiovascular mortality and noncardiovascular mortality: results from the meta-analysis of 42 U.S. cities during the period 1989–2000. Estimates represent the relative odds of dying on an extreme temperature day for persons who had the condition (e.g., being female) compared with persons who did not have the condition.



McMichael AJ, Woodruff RE, Hales S. 2006. Climate change and human health: present and future risks. Lancet 367:859-869



Modificado de Haines&Patz. JAMA 2004, 291:99-103

Global Genetic Change Tracks Global Climate Warming in *Drosophila subobscura*

Joan Balanyá,^{1*} Josep M. Oller,² Raymond B. Huey,³ George W. Gilchrist,⁴ Luis Serra¹

Scienceexpress / www.scienceexpress.org / 31 August 2006 / Page 1 / 10.1126/science.1131002

Comparisons of recent with historical samples of chromosome inversion frequencies provide opportunities to determine whether genetic change is tracking climate change in natural populations. We determined the magnitude and direction of shifts over time (24 years between samples on average) in chromosome inversion frequencies and in ambient temperature for populations of the fly *Drosophila subobscura* on three continents. In 22 of 26 populations, climates warmed over the intervals, and genotypes characteristic of low latitudes (warm climates) increased in frequency in 21 of those 22 populations. Thus, genetic change in this fly is tracking climate warming, and is doing so globally.