## Temperature-humidity-related mortality in Austria: A spatio-temporal model with fine-grained climate and mortality data.

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We analyse the weekly spatio-temporal distribution of mortality in Austria over the period 2002–2019 and assess the extent to which this distribution can be explained by meteorological factors. Specifically, we look at the combination temperature/humidity, as well as at the demographic variables such as age, gender, and population size. Our approach is region-specific and incorporates interactions across space-time, spaceage, and age-time dimensions. The analysis is based on the fine-grained observed mortality and weather data in Austria and seeks to identify patterns and correlations between mortality and age, temperature, and gender. The results clearly show a different picture for female and male, identifying females as generally more affected by environmental factors and temporal fluctuations.