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# How life expectancy varies with perturbations in age-specific mortality

BY Tomasz Wrycza, Annette Baudisch

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## Abstract

**Background**: A naturally arising question in demography is how a given change in mortality affects life expectancy. Scholars have targeted this question with different aims and from different perspectives.

**Objective**: We present and prove the central relationship between change in mortality and resulting change in e0, and we systematically apply it to investigate the effect of specific mortality perturbations.

**Comments**: Expressions for the change in e\_0 resulting from a change in the parameters of the standard parametric mortality model in demography, the Gompertz-Makeham model, include well-known demographic quantities, which might prove useful for future studies.

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