



What is lost life expectancy
$$e^{\dagger}$$
?

$$e^{\dagger}(t) = \int_{0}^{\omega} e^{\circ}(a, t) f(a, t) da$$

$$e^{\circ}(a, t) = \frac{\int_{a}^{\omega} \ell(x, t) dx}{\ell(a, t)}$$

$$f(a, t) = \ell(a, t) \mu(a, t),$$





The Historical Trends of
$$\tilde{\rho}$$

$$\tilde{\rho}(t) = \frac{\int_{0}^{\omega} \rho(a,t)e^{o}(a,t)f(a,t)dx}{\int_{0}^{\omega} e^{o}(a,t)f(a,t)dx}$$

$$\rho(a,t) = -\dot{\mu}(a,t) = -\frac{\frac{\partial}{\partial t}\mu(a,t)}{\mu(a,t)}$$











Three Major Findings about e^{\dagger}

I. The national population with the longest e^{o} in the world in some year – the "best-practice" or "record-holding" population – is generally also the population with the lowest values (or one of the very lowest values) of e^{\dagger} in that year

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Three Major Findings about e^{\dagger}

- II. The differences of e^o between the record-holding population and others are linearly correlated to e^{\dagger}
- III. The rate of change of e^{\dagger} is related not only to the level of e° but also to the rate of increase of e° – this trend is more obvious after 1950

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