

# Explaining Systematic Bias and Nontransparency in US Social Security Administration Forecasts Replication of Figures

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# 1 Observed Conditional Probabilities of Death (HMD)

Figure 1: Time Profile of Conditional Probabilities of Death

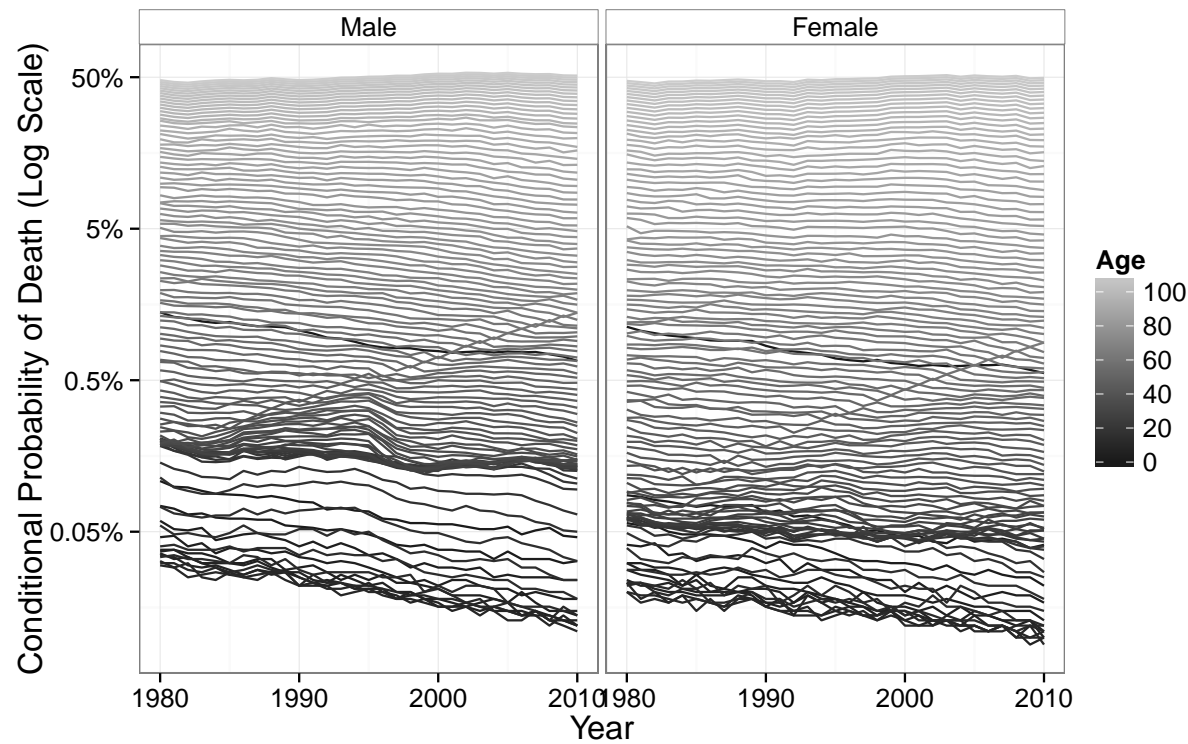


Figure 2: Age Profile of Conditional Probabilities of Death

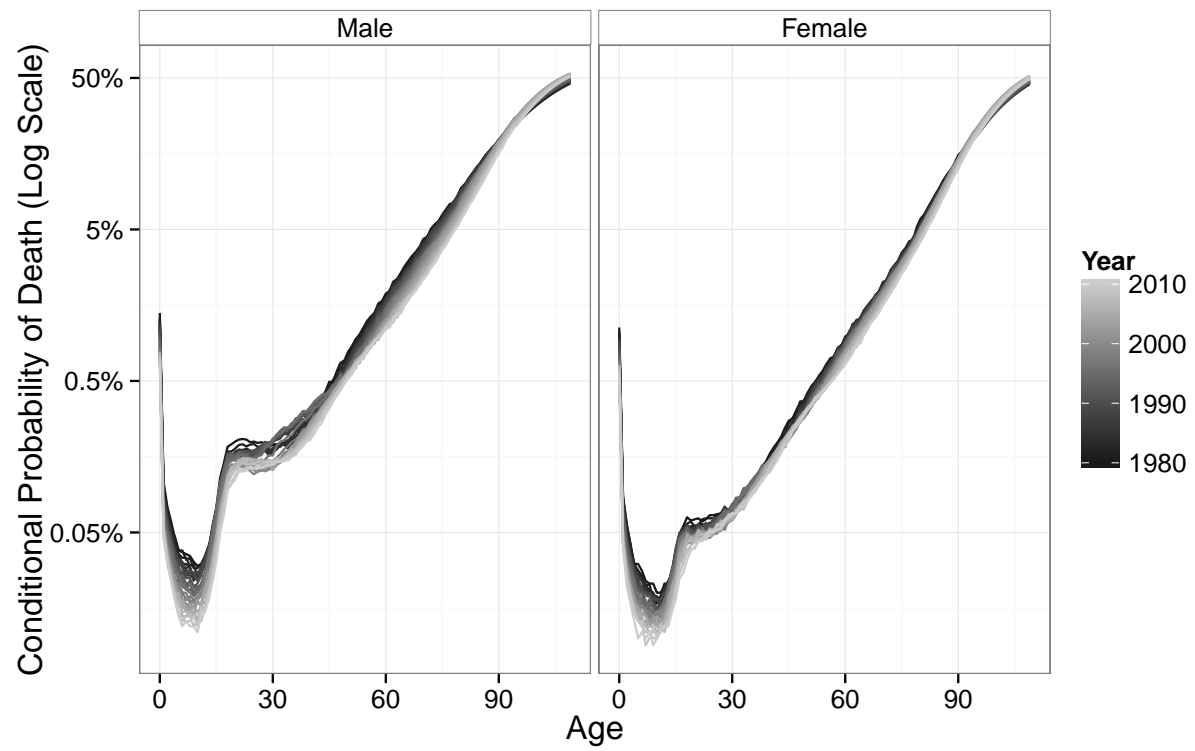


Figure 3: Age Profiles of Conditional Probabilities of Death

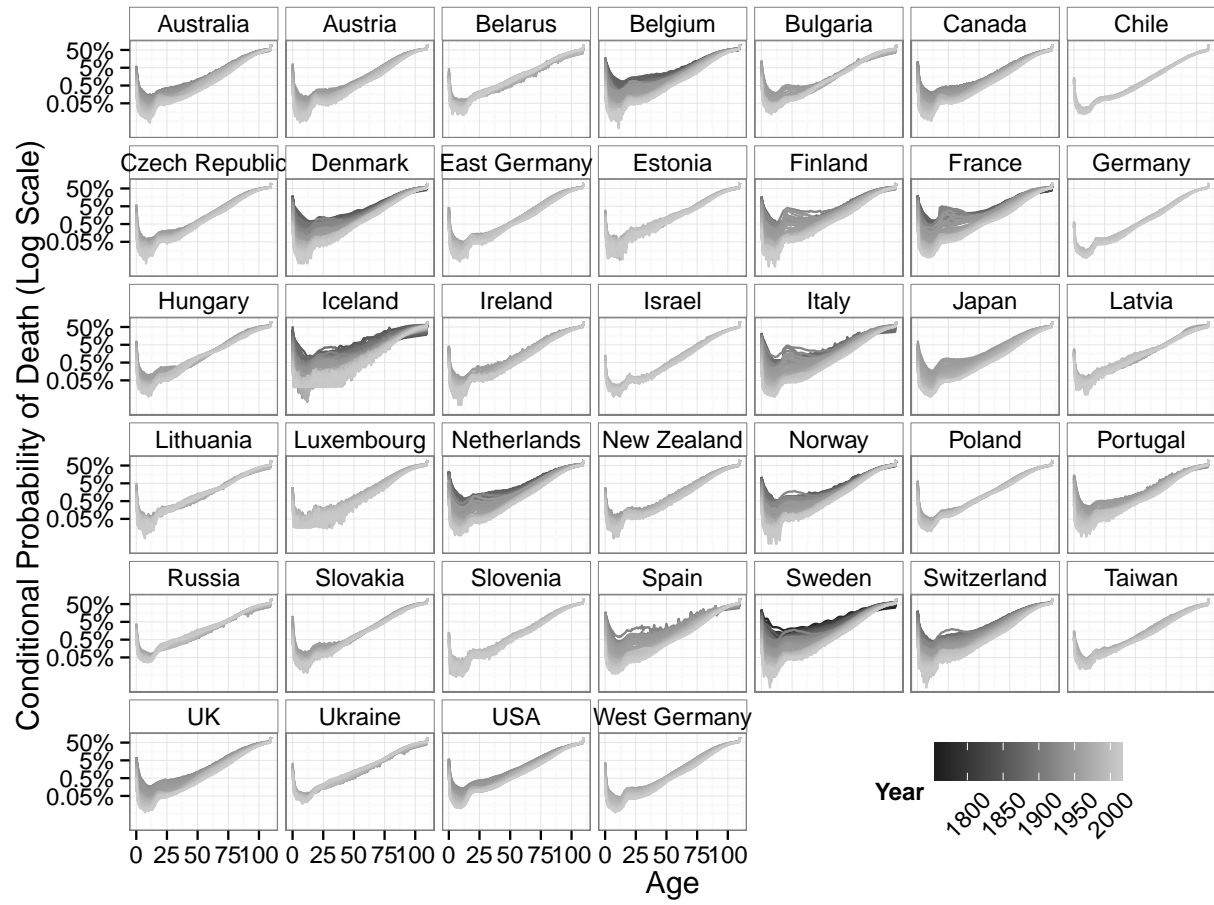
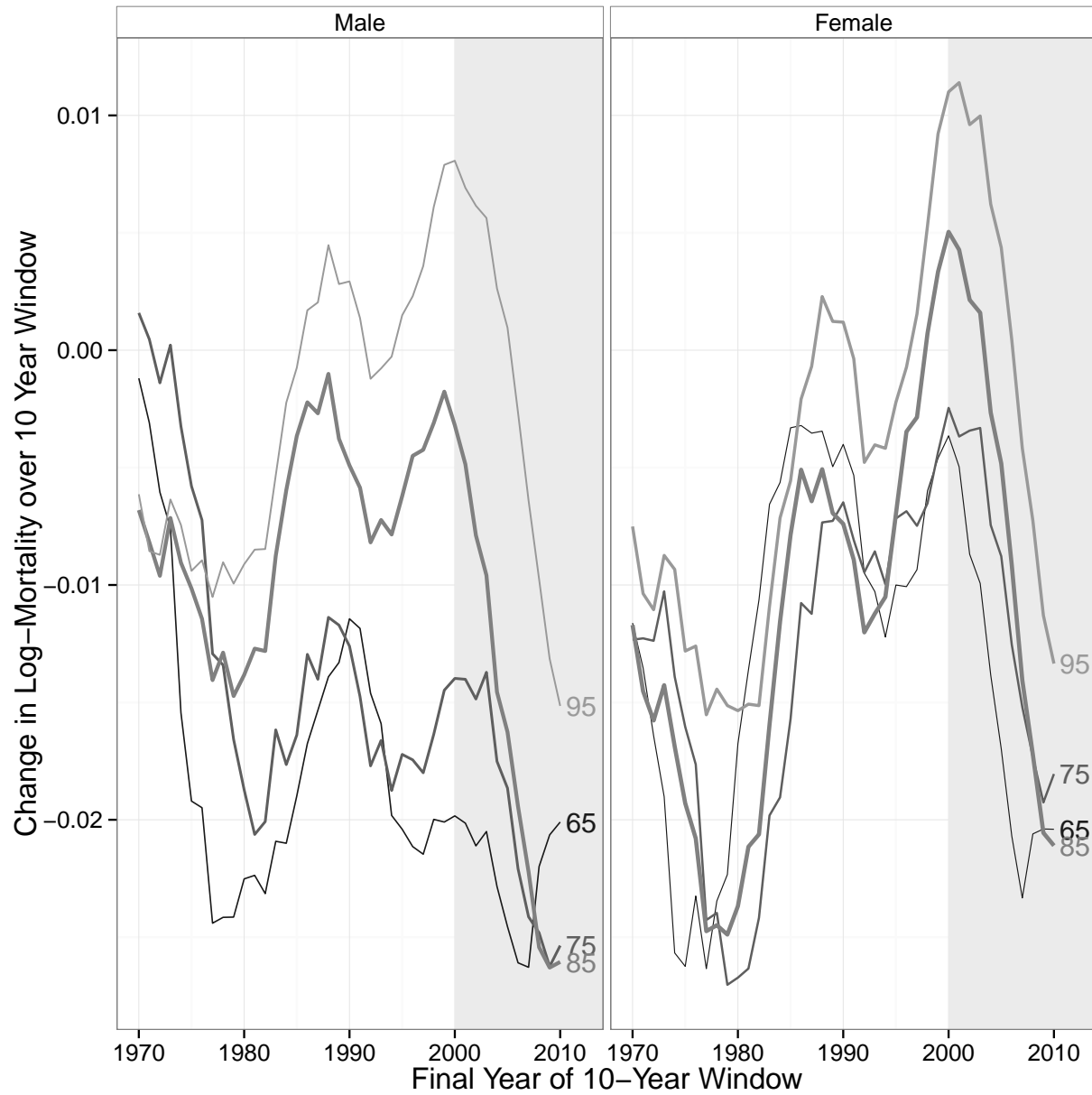
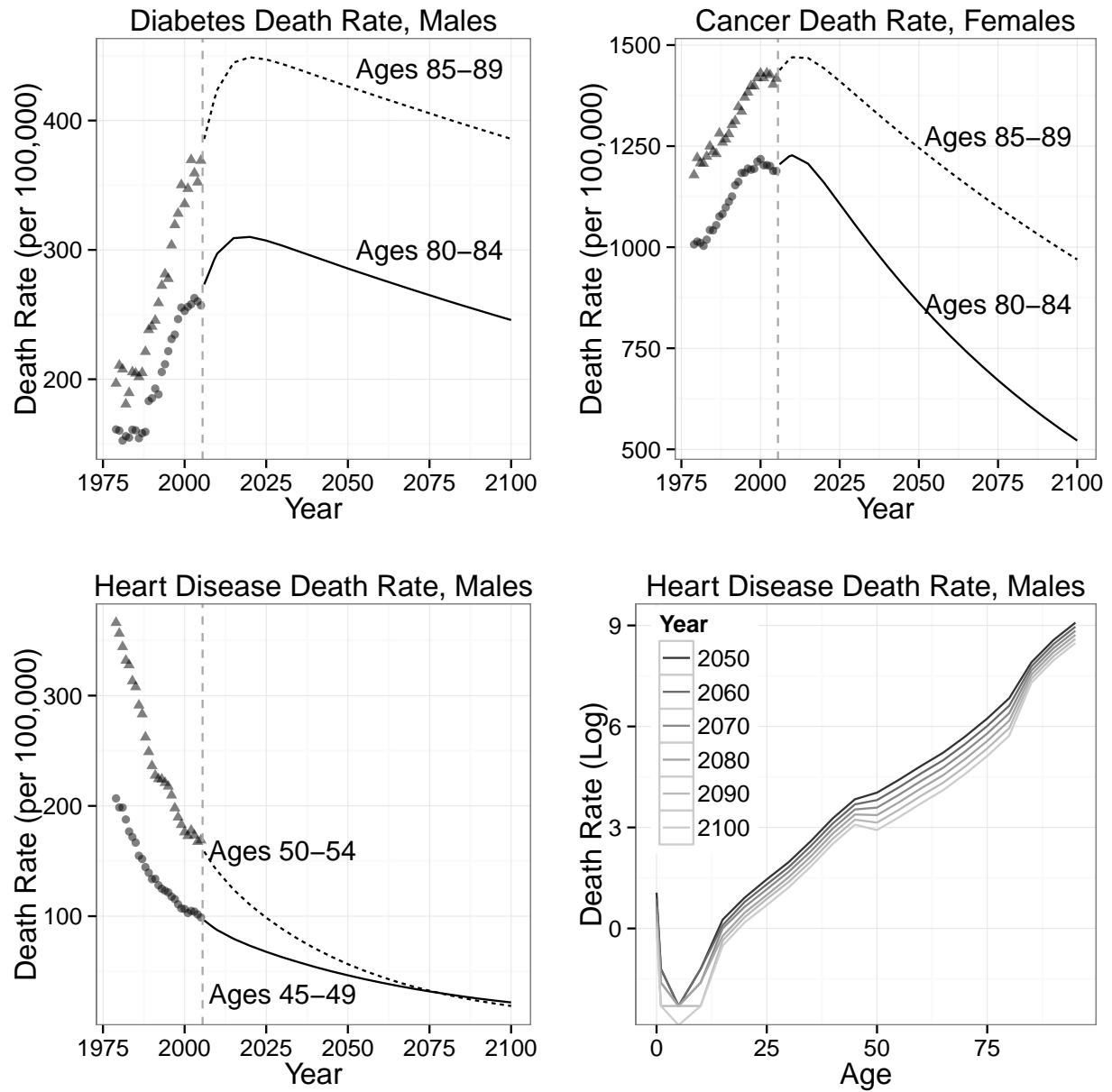


Figure 4: Changes in Log-Mortality over Successive 10-Year Windows. Each line is an age group, with the thickness of the line drawn proportional to the number of deaths in that age group.



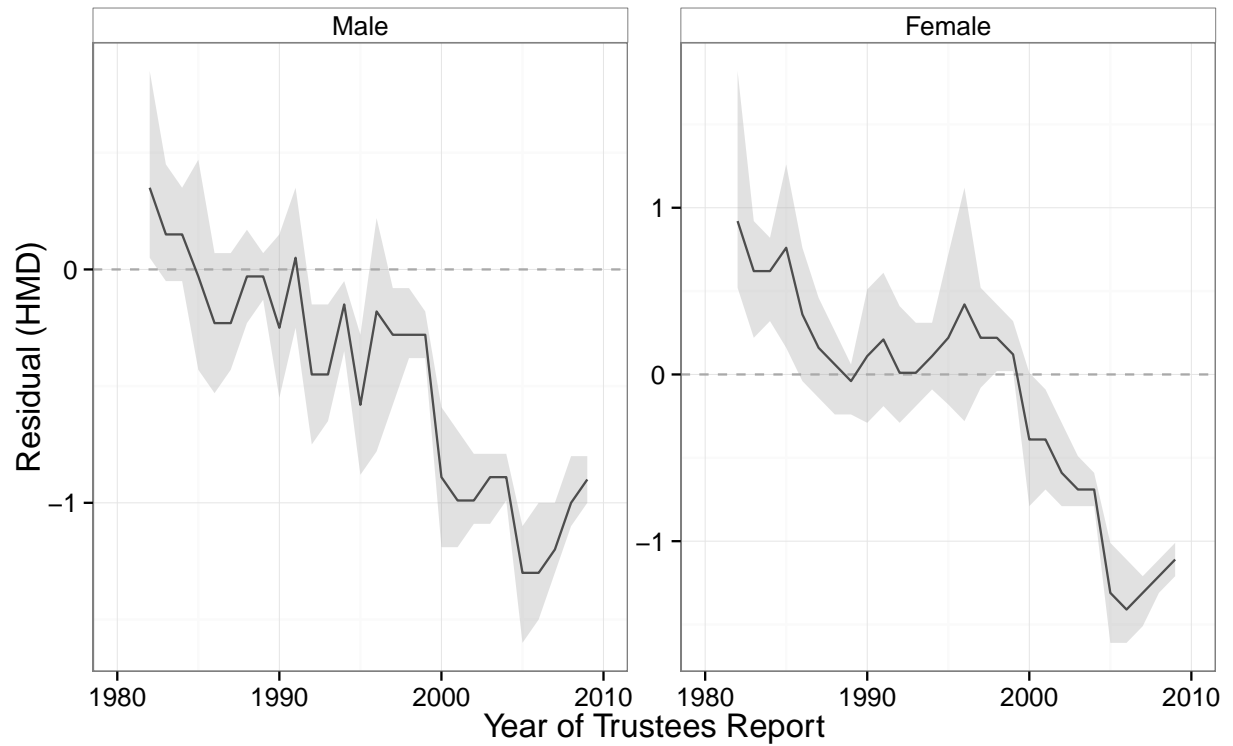
## 2 Problems with Cause-Specific Mortality Forecasts

Figure 5: Selected Examples of Problems with SSA's Qualitative Parameter Selection in Cause-Specific Mortality Forecasts



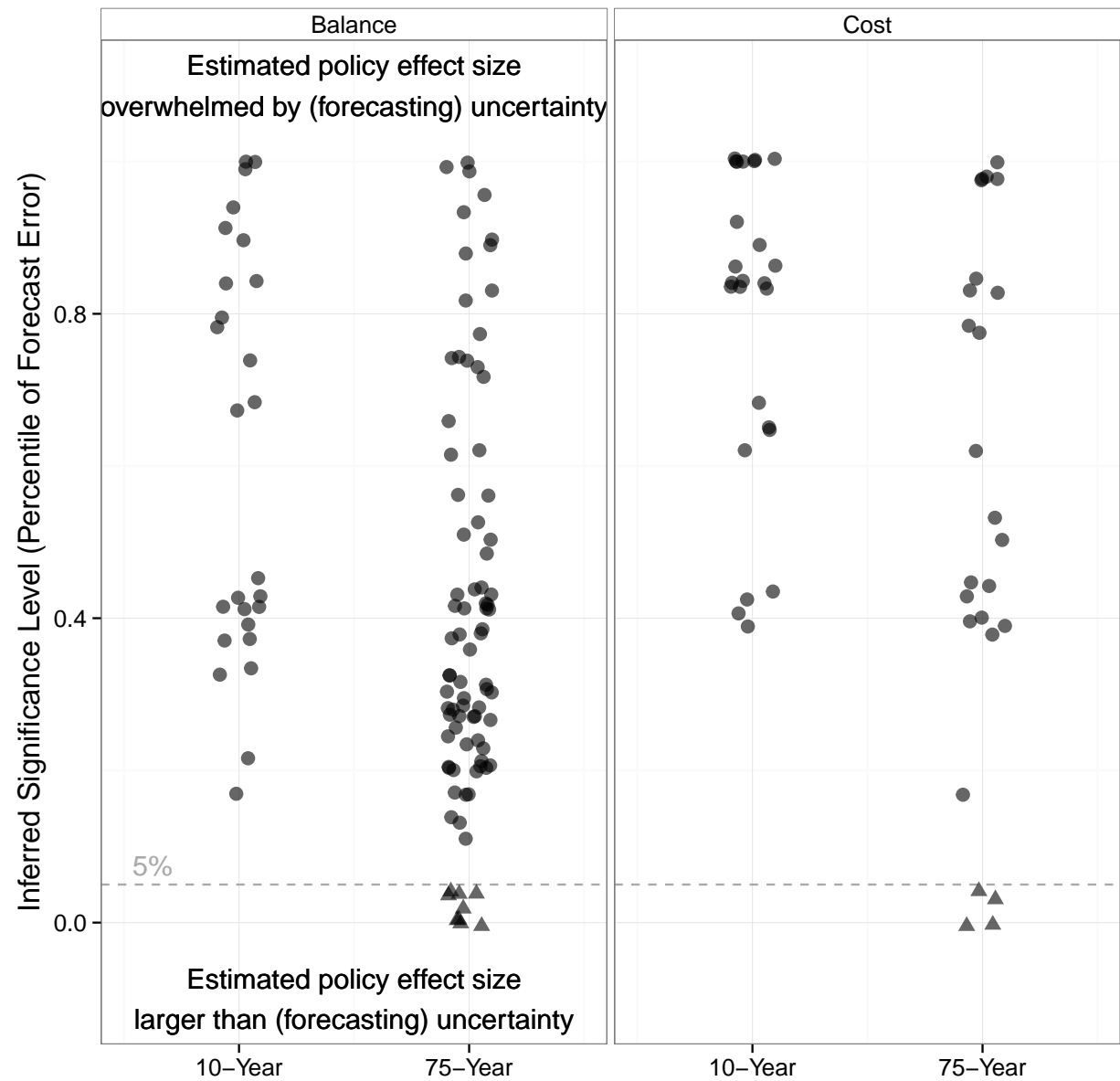
### 3 Residuals of Short-run Forecasts of Life Expectancy

Figure 6: Residuals of Short-run Forecasts of Life Expectancy. Solid line represents residuals based on SSA's intermediate cost scenario forecasts. The shaded region represents the interval formed by SSA's low and high cost scenario forecasts.



# 4 Policy Proposals

Figure 7: Comparison of Policy Proposals Scored by SSA to Post-2000 Residuals in Cost Rate and Balance Forecasts.





## 5 Technical Panel Recommendations of Ultimate Rate of Mortality Decline

Figure 8: Technical Panel Recommendations of Ultimate Rate of Mortality Decline and SSA's Chosen Assumptions. Note: LE=life expectancy.

