

Tutorial 9

- 9.1 Using the R codes in the lecture slides, perform the following tasks:
- (a) Fit the LC model to the Australian female data provided (for ages 0-89 and years 1970-2018).
 - (b) Plot the estimated parameters over age or year.
 - (c) Project and simulate future death rates until year 2050.
 - (d) Plot the historical and projected (log) central death rates of ages 30 and 65 over time and the corresponding 95% prediction intervals.
- 9.2 Developing your own R codes, perform the following tasks:
- (a) Fit the CBD model to the Australian male data provided (for ages 60-89 and years 1970-2018).
 - (b) Plot the estimated series of parameters over year.
 - (c) Project and simulate future mortality rates until year 2050.
 - (d) Plot the historical and projected (log) mortality rates of age 65 over time and the corresponding 90% prediction intervals.