

United Nations Workshop on the Production of Population Estimates and Demographic Indicators Addis Ababa, Ethiopia, 5-9 October 2015

Hands-on Exercise - Mortality

1. Life table

Using the deaths in the household in the previous 12 months (or other reference period used) by sex and 5-year age group collected in the census:

- a. Calculate the period life table for men and then women using the application LIFTB in MORTPAK;
- b. Create a figure of the probability of dying $({}_{n}q_{x})$ (use a logarithmic scale for y-axis);
- c. Calculate the 5q0 and 45q15 estimates using the l_x the from the life table;
- d. What can you say about the data quality of mortality data?

2. Brass-Type estimates (CEB/CS)

Using the data from the summary birth history collected in the last two censuses:

- a. Calculate mortality estimates using the application QFIVE in MORTPAK;
- b. Create a figure of the under-five mortality and the life expectancy at birth using the most appropriate Model Life Table (use the Excel worksheet "Comparison_1q0_4q1_with-Model-Life-Tables.xlsx" to determine the Model Life Table):
- c. What can you tell about mortality change and data quality?

3. Discussion/Conclusion

Create a figure including the different estimates of life expectancy at birth. What can you tell about mortality change and data quality?