

Construction of Abridged Life Tables and Indirect Estimation of Some Mortality of Bangladesh in 2005

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Abstrak

The aim of the present study is to estimate some mortality measures such as the age specific death rates (ASDRA), infant mortality rate (IME) and crude death rate (CDR) for male, female and both sexes of Bangladesh in 2005. For this purpose, two abridged life tables, one for male and other for female were constructed using the corresponding secondary data on life expectancy at birth of Bangladesh in 2005 taken from Islam (2003). These were compared to the values in 1991 and it was observed that these rates were showing decreasing trend during 1991-2005. Moreover, a mathematical model was fitted to the number of persons surviving at an exact age x (l_x) only for male of Bangladesh in 2005. Model validation technique, cross validity prediction power (C VFP) and F-test, showed that the mathematical model was valid and hence, fit is well. Instantaneous force of mortality (μ_x) only for male of Bangladesh in 2005 was estimated. And it was found that μ_x exhibited decreasing trend up to age 20-24 and increasing in the remaining age group but rapidly increasing after age 50 years to infinity.