

Methodology for Constructing the Japanese Mortality Database (Version 5) and Its Applications

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This study aims to outline the methodology for constructing the latest version (Version 5) of the Japan Mortality Database (JMD) and to discuss its application to the analysis of prefectural life expectancy and the measurement of fertility levels.

Since the initial release of the JMD, several methodological revisions have been implemented, including improvements to the calculation of person-years of exposure, the provision of age-adjusted mortality rates by cause of death, and the expansion of life tables by prefecture. However, there is currently no comprehensive documentation of the methodology used for the latest fifth version. Therefore, this study provides an updated overview of the JMD methodology and discusses its application to the analysis of prefectural life expectancy and the measurement of fertility levels.

Keywords: life tables, mortality analysis, database, methodology, fertility level