

ABSTRACT

In this empirical study well-known statistical techniques were employed to analyze survival data of Dialysis patient's. Existence of censoring causes unresponsiveness to the usual procedures of analysis. The upgrading of statistical computing and easy availability of personal computers are responsible for recognition of nonparametric methods. The nonparametric methods impose less strict conditions. However, if the assumptions for parametric methods hold, the outcome estimates have less standard error and are easy to infer and understand. So, non-parametric Log-Rank test is compared with the test, based on Theoretical Distribution. For this purpose Product Limit Method is applied to estimate the survival functions and hazard rates. The hazard rates follow the Weibull Distribution. The Anderson-Darling (Stephens, 1974) test is also applied to confirm the distribution of survival data. The parameters of Weibull Distribution are estimated by maximum likelihood method and survival functions are obtained. The survival functions of Weibull and Product Limit Method are compared. The test suggested by Thoman and Bain (1969) is used to compare the two fitted Weibull Distributions. The Thoman and Bain test and Log-Rank test induce the same conclusions.