

ABSTRACT/SUMMARY

In this thesis survival analysis has been carried out on children data collected by Children Hospital Lahore. In chapter-1 introduction about child health is given. In chapter-2 review of literature has been given. Chapter-3 contains the methodology used in this thesis. Further Chapter-4 contains analysis of data, for this purpose Kaplan-Meier survival estimates has been estimated. These functions have been obtained for babies with different genders and birth weights. From these functions it has been found that the survival function has rapid decreasing trend in female babies and babies with low birth weight. The statistical test of significance for equality of survival function has also been carried out. Finally Cox Regression has been fitted for the estimation of survival probability. It has been found that overall regression is highly significant, so this fitted model can be used to have some idea about children of various age groups.