

Summary

The research work is related to the survival statistical analysis of kidney dialysis, End Stage Renal Failure (ESRD) patients. To estimate and predict the survival time the survival statistical techniques Kaplan Meier, Log Rank Test and the Cox Regression Model have been used. The survival time of kidney dialysis patients has been modeled on the basis of several qualitative and quantitative variables related to the patients in the clinical study.

Chapter 1 of the thesis contains introduction to kidney dialysis treatment, different stages of chronic kidney disease, different reasons of ESRD like risk factors and prognosis factors, signs and symptoms of chronic kidney disease. The objectives of the study have also been discussed in this chapter.

Chapter 2 contains the literature review of application of statistical techniques in the field of clinical study of ESRD patients.

Chapter 3 contains the methodology that has been used in the analysis.

Chapter 4 contains the analysis of data and interpretations. Including descriptive statistics, Kaplan Meier, Log Rank Test and Cox Regression Model.