

## CHAPTER 34

### MEDICAL SCIENCES MEDICINE

#### Doctoral Theses

438. DEKA (Barnali)  
**Some Contributions to the Survival Modeling of Interval Censored Chronic Kidney Disease Data.**  
Supervisor : Dr. Gurprit Grover  
Th 21239

#### *Contents*

1. Modeling the risk of renal impairment using current status chronic kidney disease data 2. Spline-based hazards regression model for current status data: An application to the chronic kidney disease data 3. Modeling the risk of esrd using interval censored chronic kidney disease data 4. A spline-based partly linear cox proportional hazards model for interval censored data with a cured subgroup. Future research and bibliography.

439. GHOSH (Sudeetpa)  
**Contributions to Inferential Procedures for Some Reliability Models.**  
Supervisor : Dr. Ajit Chaturvedi  
Th 21240

#### *Contents*

1. The genesis and advancement of reliability inference 2. Estimating the reliability function for a family of inverse distributions 3. Bayesian estimation procedures for the family of inverse distributions 4. Sequential testing procedures and their robustness for the family of inverse distributions 5. Classical and bayesian estimation procedures for the reliability function for gompertz distribution under censoring 6. Classical and bayesian estimation procedures for the reliability function for generalized logistic distribution. References.

440. KARRA (Vijaya Kumar)  
**Association of HLA and IL- 18 Gene Promoter Polymorphism with Outcome of HBV Infection.**  
 Supervisors : Dr. Premashis Kar and Dr. Anita Chakravarti  
Th 21320

*Contents*

1. Introduction 2. Review of literature 3. Objectives 4. Materials and methods 5. Results 6. Discussion 7. Summary 8 Conclusion, bibliography and appendices.

441. RUTTALA (Rajesh)  
**Role of Host Immune Factors in Disease Severity of Hepatitis B Infection.**  
 Supervisors : Dr. Premashis Kar and Dr. Arvind Rai  
Th 21319

*Contents*

1. Introduction 2. Objectives 3. Review of literature 4. Materials and methods 5. Results 6. Discussion 7. Summary 8 conclusion, references, appendix and master charts.

442. VAJALA RAVI  
**On the Estimation of HIV/AIDS Population in India and Study of Prognostic Factors Effecting the Survival of Patients Undergoing Anti-Retroviral Therapy.**  
 Supervisor : Dr. Gurprit Grover  
Th 21362

*Contents*

1. Introduction 2. On the estimation of average HIV Population using various Bayesian Techniques 3. On the estimation of expected survival time of AIDS patients undergoing Anti Retroviral therapy using censored generalized poisson regression model 4. On the Estimation of intensities, illness-death probabilities and expected duration of stay in various states of Aids Patients undergoing Anti-Retroviral therapy 5. On the assessment of various factors effecting the improvement in CD4 count of AIDS patients undergoing Anti-Retroviral Therapy using generalized poisson regression 6. Survival pattern of Aids Patients with respect to types of tuberculosis and associated prognostic factors: A study . Reference.