

## **Summary of Ph.D work**

### **Major Depressive Disorder**

“Statistical Analysis of some Aspects of Major Depression Disorder” is the title of PhD research work.

Major Depressive Disorder is a syndrome characterized by recurrent episodes of low mood manifested by persistent sadness for more than two weeks with profound discouragement or despair, marked sadness, decreased psychomotor activities, guilt feeling, self blaming, feeling of hopelessness and worthlessness, suicidal ideas, poor sleep & appetite.

The chapter wise distribution of the topic is done as follows:-

1. Introduction of Major Depressive Disorder (depression)
2. An Epidemiological study of Major Depressive Disorder
3. Regression Analysis related to study the severity of Depressive disorder
4. Application of Bayes' theorem for estimation of odds and indices of diagnostic test in depression
5. Renewal Theoretic Approach of Depressive Disorder for probabilistic analysis.
6. Depressive Episodes as an Alternating Renewal Process
7. Stochastic process related to Depressive disorder under non independent set up
8. Joint effect of simultaneous occurrence of two causes to study cause specific depression
9. Last chapter deals with conclusion and future scope of work

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