



Pharmaceutical Statistics

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Books covering pharmaceutical sciences combined with statistics are not available in the market. To overcome this setback, this book is authored in a detailed and easy to understand manner incorporating the updated information containing the following features.

- Syllabus prescribed for B.Pharm & M.Pharm students is covered in detail
- The application of pharmaceutical statistics to research and clinical evaluation
- Prime importance is given to the creation of tables and graphs
- Data presentation, inferential tests such as parametric and nonparametric methods, regression and correlation factors are presented lucidly
- The importance of ANOVA in statistical designs used in pharmaceutical research
- Introduction of elementary concepts of the design and analysis of factorial designs
- Optimization techniques with suitable examples
- The important designs and their applications predominantly used in controlled clinical studies
- Application of statistics in quality control

Contents

1 Basic Concepts 2 Measures of Central Tendency And Measures of Dispersion 3 Data Presentation 4 Probability and Distributions 5 Correlation and Regression 6 Transformations and Outliers 7 Sample Choosing 8 Statistical Inference: Significance of Testing 9 Analysis of Variance (ANOVA) 10 Non Parametric Methods 11 Statistical Quality Control 12 Factorial Designs 13 Optimization Techniques and Screening Designs 14 Design of Experiments 15 Validation

About the Authors

Dr. T. E. Gopala Krishna Murthy received his Ph.D from Jawaharlal Nehru Technological University, Hyderabad and is presently serving as the Principal of Bapatla College of Pharmacy, Bapatla, Guntur District, Andhra Pradesh. Under his sagacious guidance as many as 10 students got their Ph.D awards and 175 papers were published in foreign and Indian journals. He is the member of the editorial board of many reputed journals. His involvement in the professional technical bodies and the meritorious teacher's award that was conferred on him by Jawaharlal Nehru Technological University, Kakinada fetched him high and rare academic standing in his field of specialization. These are a few among the several achievements to his credit in the field of research.

Dr. P. Srinivasa Babu, who officiates as the Principal of Vignan Pharmacy College awarded Ph.D from JNTU Hyderabad. He is having 16 years of Teaching and Research experience in the area of Novel Drug Delivery Systems. He has published/ Presented more than 80 Research/ Review papers in various National & International Journals. Dr. P.S. Babu conferred with Fellowship Award from PCI President Prof. B. Suresh for his distinguished and dedicated services to the profession of Pharmacy & Biotechnology. He guided the research work of 02 Ph.D Scholars, 25 M.Pharm Graduates and 10 students pursuing research work and also he is the member of the editorial board of various journals. His Research interest include Advanced Drug Delivery Systems & Formulation Development for Biopharmaceutical Classification System (BCS) Class-II Drugs by using Novel Polymers and *in vitro*, *in vivo* correlation studies.

Mr. P. Seshagiri Rao had his M.Phil degree from Madurai Kamraj University and M.Sc in Mathematics, from the Bapatla Engineering College, affiliated to Nagarjuna University, Guntur. He served as Assistant Professor in the Department of Mathematics at Vignan Institutions (1996-2008). Currently he is working as an Associate Professor at Vignan Pharmacy College, Vadlamudi.

He is also taking classes for intermediate students at Vignan institutions imparting EAMCET and JEE, Unleashing the best in the students striving hard to get good results. He received the best teacher award thrice for his contributions at Vignan Group of Institutions.

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