ANOVA Test in Pharmaceutical Analysis

Ozair A. Z. Husain and Vivek E. Gaikwad

Guru Gobind Singh Polytechnic, Nashik, Maharashtra, India

ozair.hussain@ggsf.edu.in and vivek.gaikwad@ggsf.edu.in

Abstract: *Healthcare Industry is the largest sector in India which comprises hospitals, pharmaceuticals, diagnostics, telemedicine, medical tourism, and so on. Here in this paper, a few applications of ANOVA in the field of pharmaceutical and other health services are discussed. If the number of Samples is more than two, the z-test and t-test cannot be used. The technic of variance analysis developed by Fisher is very useful in such cases and with the help of this, it is possible to study the significance of mean values of a large no. of samples at the same time.*

Keywords: Sampling, Hypothesis testing, Variance, Standard Deviation, Coefficient of Variance, Consistency

REFERENCES

[1]. Higher Engineering Mathematics – Grewal B.S

[2]. Advanced Engineering Mathematics – Krezig Ervin

[3]. Advanced Engineering Mathematics – Das H.K.

[4]. Engineering Mathematics – Sastry S.S

[5]. DN Elhance, Bt M Aggarwal, Fundamentals of Statistics, Page No. (25.1-25.19)

[6]. "The Validity of Comparative experiments". Journal of the Royal Statistical Society

[7]. Belle, Gerald van (2008). Statistical rules of thumb (2nd ed.). Hoboken, N.J: Wiley. ISBN 978-0-470-14448-0

.