

THE GRAPHIC METHOD FOR RAPID CHECK OF THE DISTRIBUTION NORMALITY IN PHARMACOLOGY

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When we measure mass phenomena, we have to check a distribution pattern. The best known theoretical distribution is the normal distribution (the Gaussian distribution). Many statistical methods for the base have the normal distribution including correlation, regression, t-tests, analysis of variance, etc. These methods are very important for every branch of medicine, particularly for pharmacology. Sometimes it is very important to check quickly the normality of distribution.

The graphic method is based on a collection of absolute and relative frequencies and plotting them on an original network. We have used two kinds of networks: first one, with the normal scale and second one, with the logarithm scale. Plotting of collected frequencies to network produces characteristic curved line. The values of arithmetical mean and standard deviation could be read from the graphic.

For illustration of this method we have used following example: the effect of acetylcholine on Fallopian tubes. Statistical graphic method for rapid checking of the distribution normality seems suitable for application in pharmacological studies.

Key words: the normal distribution, collecting frequencies, arithmetical mean

INTRODUCTION

Every discipline which measures mass phenomena calls statistics for solving problems in its area and establishing a mutual relations between indi-

