

Social Impact

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29 September 2022

“The choice is not always between good and evil, sometimes it is between necessary and unnecessary evil.”

Bio-assay

A bioassay is an analytical method to determine the concentration or potency of a substance by its effect on living animals, plants or living cells.

Application

For ex- The eyeliner used as a cosmetic purpose has harmful chemical in it. So, while manufacturing one needs to take care of the threshold value of that chemical which might cause blindness.

Test

The test subjects for the particular example are Rabbits. The chemical (in overdose) is applied to eyes of rabbit and detected whether they have turned blind or not.

Impact

The result of the test is that a huge number of rabbits turning blind. In the year 1983, this number was 0.5 million. The test subjects often include mice, guinea pig, dogs etc.

Since for statistical analysis the sample size has to be large, many of the animals have to be killed/mutilated to find out a single number (threshold/probability).

But as of now we shall focus on the statistical and the mathematical part alone.