

Open Peer Review on Qeios

## **Binomial Distribution**

National Cancer Institute

## Source

National Cancer Institute. Binomial Distribution. NCI Thesaurus. Code C53208.

A family of discreet probability density functions, which models systems that meet the following requirements: 1) the number of trials (n) is fixed; 2) there are only two outcomes for each trial, success or failure; 3) the outcome of each trial is independent; and 4) all trials have the same probability (p) of success. Binomial distributions show the likelihood of the number of successful trials versus the total number of trials.

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