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## **Randomization process**

The randomization process is a fundamental aspect of study design in which participants or subjects are randomly assigned to either the intervention or control group. This is done to ensure that the two groups are similar in terms of known and unknown confounding factors that could affect the study outcome and to minimize the potential for bias.

Randomization can be done in different ways, such as using a computer-generated random sequence, a random number table, or a randomization program. The process should be done in a way that is concealed from the study staff and participants until the point of allocation. This helps to prevent selection bias, which occurs when the study staff or participants know which group they have been assigned to, and this knowledge may influence the outcome.

Randomization can also be stratified, which means that participants are randomized separately within certain subgroups based on specific characteristics. For example, in a study of a new medication, participants may be stratified by age, sex, or severity of disease to ensure that each group has a similar distribution of these factors.

Randomization is essential in clinical trials, which are designed to evaluate the safety and effectiveness of new treatments. In order to draw valid conclusions about the treatment effect, it is important to ensure that the groups being compared are similar in all aspects except for the intervention. Randomization helps to achieve this goal and is considered a critical component of study design.

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