

# 6 1 study and intervention answers

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### 6:1 Study and Intervention Q&A

**Q1: What is a 6:1 study and intervention approach?** A1: A 6:1 study and intervention approach involves six participants receiving the intervention for every one participant in the control group. This ratio is used to enhance statistical power and increase the likelihood of detecting significant effects from the intervention.

**Q2: How does this approach enhance statistical power?** A2: By having more participants in the intervention group compared to the control group, the larger sample size decreases the chances of a Type II error (failing to detect a true effect). This increases the sensitivity of the study to detect a meaningful difference between the intervention and control groups.

**Q3: What are the ethical considerations in using a 6:1 ratio?** A3: Ethical considerations must be taken into account. Researchers need to ensure that the control group receives adequate attention and care, even though they are not receiving the intervention. Additionally, participants should be fully informed of the differences in the groups and their potential benefits or risks.

**Q4: When is a 6:1 approach appropriate?** A4: A 6:1 approach is appropriate when there is a strong theoretical or empirical rationale for the intervention's efficacy. It is also used when resources are limited and enrolling a large number of participants is not feasible. However, researchers must carefully consider the potential ethical implications and the need for a robust control group.

**Q5: What are the benefits of using a 6:1 study and intervention approach?** A5: The benefits include enhanced statistical power, increased precision in estimating treatment effects, and the potential for more meaningful results. Additionally, it can

reduce the overall sample size required for the study, making it more feasible to conduct in resource-constrained settings.

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