

# What is The Complete Guide to Report Confidence Intervals?

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The Complete Guide to Report Confidence Intervals is a comprehensive resource that provides a detailed explanation and practical guidance on understanding and reporting confidence intervals. This guide covers the fundamentals of confidence intervals, including their purpose and interpretation, as well as the various methods for calculating and determining confidence intervals. It also includes tips and examples for effectively communicating confidence intervals in research reports, making it a valuable tool for researchers, statisticians, and anyone who needs to accurately report statistical data. With its clear and concise information, The Complete Guide to Report Confidence Intervals is an essential reference for anyone looking to understand and effectively utilize confidence intervals in their data analysis and reporting.

## **The Complete Guide: Report Confidence Intervals**

**A is a range of values that is likely to contain some population parameter with a certain level of confidence.**

**When reporting confidence intervals, we always use the following format:**

**95% CI**

**where**

**LL: Lower limit of confidence interval  
UL: Upper limit of confidence interval**

**The following examples show how to report confidence intervals for different statistical tests in practice.**

### Example 1: Confidence Interval for a Mean

**Suppose a biologist wants to know the mean weight of a certain species of turtles.**

**She measures the weight of a random sample of 25 turtles and finds the sample mean weight to be 300 pounds with a 95% confidence interval of .**

**Here's how she might report the results:**

**A formal study has revealed that the average weight of turtles in this population is 300 pounds, 95% CI .**

### Example 2: Confidence Interval for the Difference in Means

**Suppose a biologist wants to estimate the difference in mean weight between two different populations of turtles.**

**She collects data for both populations of turtles and finds the mean difference to be 10 pounds with a 90% confidence interval of .**

**Here's how she might report the results:**

**A formal study has revealed that the difference in**

**average weights between the two populations of turtles is 10 pounds, 90% CI .**

### **Example 3: Confidence Interval for a Proportion**

**Suppose a biologist wants to estimate the proportion of a certain species of turtles that have spots on their backs.**

**She collects data for a random sample of turtles and finds that 18% (.18) of them have spots with a 99% confidence interval of .**

**A formal study has revealed that 18% of turtles in this population have spots on their back, 99% CI .**

### **Example 4: Confidence Interval for the Difference in Proportions**

**Suppose a biologist wants to estimate the difference in proportions of two species of turtles that have spots on their backs.**

**She collects data for both populations and finds that the mean difference in the proportions is 7% (.07) with a 95% confidence interval of .**

**Here's how she might report the results:**

**A formal study has revealed that the difference in proportion of turtles who have spots on their backs between the two populations is 7%, 95% CI .**

**The following tutorials explain how to calculate different confidence intervals in practice:**

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