# Foundations for Statistical Inference on your research data

1. What variable are you going to use? Write the variable name and the English label.

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| Binary Categorical | Continuous |

State which of the two groups you are interested in analyzing.

What is your “event”?

(typically categorized as 0= non event, 1=event)

1. What is your effective sample size? (Number of non-missing values for that variable in your data set)

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| n= | n= |

1. Calculate the point estimate.

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| Sample Proportion (only for the ‘event’) | Sample mean = **mean(data$var, na.rm=TRUE)** |

1. Calculate the standard deviation for each variable.

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| --- | --- |
| = | = **sd(data$var, na.rm=TRUE)** |

1. Calculate the standard error (SE) for each variable.

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1. Calculate an approximate 95% Margin of Error (MOE) for your estimate as 2\*SE

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1. Construct an approximate 95% confidence interval for your estimate.

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1. Interpret this confidence interval in context of your problem.

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