**Transcript: Conducting One-way ANOVA in R Commander**

In this video, we will go over how to conduct a one-way ANOVA in R Commander. First, we need to import our data set, which in this case is a CSV file. We will navigate to “Data”, “Import data” and “from text file, clipboard, or URL”. We need to select that our “Field Separator” is “Commas [,]” because this is a CSV (or comma-separated values) file. Next, we can click “OK”. You will need to navigate to the folder that you have your data file stored in and select the ANOVA data. Once you click “Open”, you will be able to view your data set using the “View data set” button.

We can see here four variables, which are described in the learning objectives section. But briefly we have a research ID, the substance that the participant is seeking treatment for abuse of, the experimental condition, and a score on the Brief Addiction Monitor with higher scores indicating greater levels of addiction.

The first analysis that we're going to do is a one-way ANOVA comparing Brief Addiction Monitor or “bam” scores between the three substances in this data set: cannabis, alcohol, and opioids. To conduct our one-way ANOVA we will navigate to “Statistics”, “Means”, and “One-way ANOVA”. First, we need to pick which group is our grouping variable. In this case, we are going to select “substance”. Next, we are going to select our response variable, which is the variable that we want to look at the levels of between groups. We will select “bam”. Finally, we are going to check this box saying “Pairwise comparison of means”. This will allow us to see the follow-up tests, which will tell us where specifically the differences lie (if we uncover a significant statistic in our overall test). Once we click “OK”, we will see our output here.

And in a future video, we will go over how to interpret this output.