

Alzheimer's Data Set

The image shows a screenshot of the SPSS Data Editor window. The title bar reads "Alz.sav [DataSet1] - SPSS Data Editor". The menu bar includes "File", "Edit", "View", "Data", "Transform", "Analyze", "Graphs", "Utilities", "Window", and "Help". The toolbar contains various icons for file operations and data manipulation. The main window displays a data grid with 54 rows and 22 columns. The first two columns are labeled "Dose" and "Pull". The data is as follows:

	Dose	Pull	var																		
11	1	27.00																			
2	1	26.20																			
3	1	26.80																			
4	1	33.50																			
5	1	26.80																			
6	2	22.80																			
7	2	23.10																			
8	2	27.70																			
9	2	27.60																			
10	2	24.00																			
11	3	21.90																			
12	3	23.40																			
13	3	20.10																			
14	3	27.80																			
15	3	19.30																			
16	4	23.50																			
17	4	19.60																			
18	4	23.70																			
19	4	20.80																			
20	4	23.90																			
21																					
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The status bar at the bottom indicates "SPSS Processor is ready".

Select Analyze: Compare Means: One-Way ANOVA

The screenshot shows the SPSS Data Editor interface with the 'Analyze' menu open. The 'Compare Means' option is selected, and the 'One-Way ANOVA...' option is highlighted. The data table shows the following values:

	Dose	Pull
1	1	27.00
2	1	26.20
3	1	28.80
4	1	33.50
5	1	28.80
6	2	22.80
7	2	23.10
8	2	27.70
9	2	27.60
10	2	24.00
11	3	21.90
12	3	23.40
13	3	20.10
14	3	27.80
15	3	19.30
16	4	23.50
17	4	19.60
18	4	23.70
19	4	20.80
20	4	23.90
21		
22		
23		
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Choose the Response and Factor

The image shows the SPSS Data Editor window for a file named 'Alz.sav [DataSet1]'. The main window displays a data grid with the following columns: 'Dose', 'Pull', and several empty columns labeled 'var'. The 'Dose' column contains values from 1 to 4, and the 'Pull' column contains numerical values ranging from 19.30 to 33.50. A 'One-Way ANOVA' dialog box is open in the center of the screen. The dialog box has a blue title bar and a white background. It contains the following elements:

- Dependent List:** A list box containing 'Pull strength [Pull]'.
- Factor:** A list box containing 'Dose Level [Dose]'.
- Buttons:** 'OK', 'Reset', 'Cancel', 'Help', 'Contrasts...', 'Post Hoc...', and 'Options...'.

The status bar at the bottom of the window indicates 'Data View' and 'Variable View' tabs, and the text 'SPSS Processor is ready' is visible in the bottom right corner.

Press the *Options* button and select required options (then *Continue*)

The screenshot shows the SPSS Data Editor window with a data grid. The 'Dose' variable is selected in the first row. Two dialog boxes are open: 'One-Way ANOVA' and 'One-Way ANOVA: Options'. The 'One-Way ANOVA' dialog has 'Pull strength [Pull]' in the dependent list. The 'One-Way ANOVA: Options' dialog has the following settings:

- Statistics: Descriptive, Fixed and random effects, Homogeneity of variance test, Brown-Forsythe, Welch
- Means plot: Means plot
- Missing Values: Exclude cases analysis by analysis, Exclude cases listwise

	Dose	Pull	var																		
1	1	27.00																			
2	1	26.20																			
3	1	28.80																			
4	1	33.50																			
5	1	28.80																			
6	2	22.80																			
7	2	23.10																			
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Press the *Post-Hoc* button and select the three multiple comparison methods: *Bonferroni*, *Tukey* and *Scheffe* (then *Continue*, then *OK*)

The screenshot shows the SPSS Data Editor window with a dataset named 'Alz.sav [DataSet1]'. The main window displays a data grid with columns 'Dose' and 'Pull'. The 'Dose' column has values 1, 2, 3, and 4, and the 'Pull' column has values ranging from 19.30 to 33.50. A 'One-Way ANOVA' dialog box is open, showing the 'Post Hoc Multiple Comparison' options. The 'Equal Variances Assumed' section is selected, and the following methods are checked: Bonferroni, Tukey, and Scheffe. The 'Significance level' is set to .05. The 'Continue' button is highlighted.

Dose	Pull
1	27.00
2	26.20
3	28.80
4	33.50
1	28.80
2	22.80
2	23.10
2	27.70
2	27.60
2	24.00
3	21.90
3	23.40
3	20.10
3	27.80
3	19.30
4	23.50
4	19.60
4	23.70
4	20.80
4	23.90