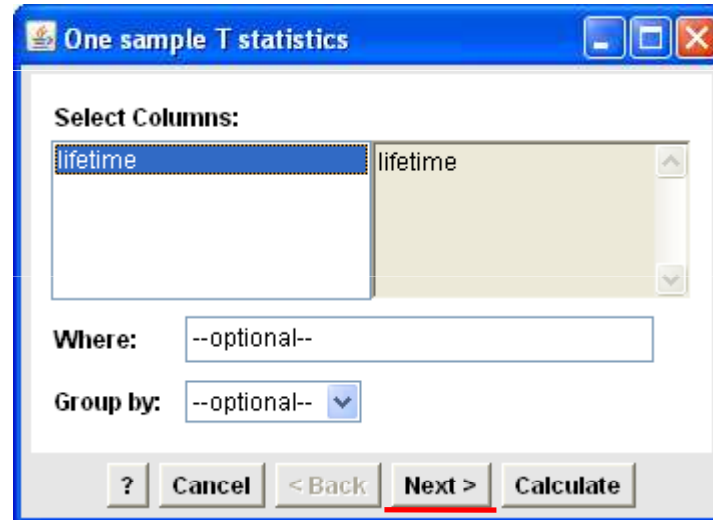


**How to construct a small sample  
confidence interval for the mean of  
a normal population**

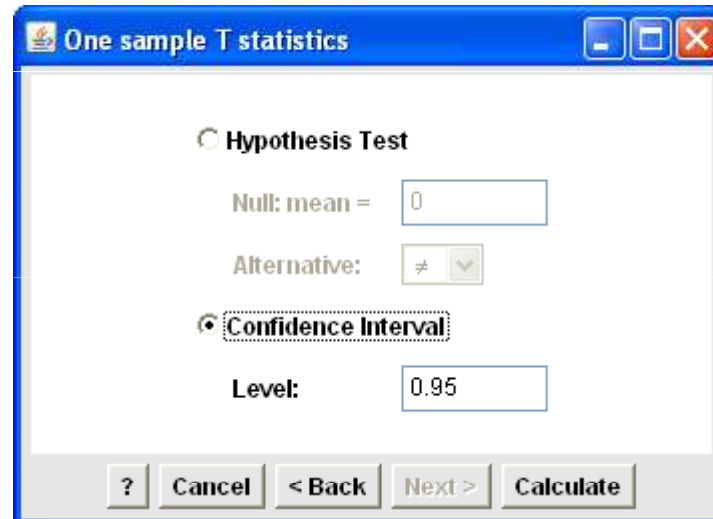




## STEP 2. Select “lifetime” >> Click Next



## STEP 3. Select “Confidence Interval”



The image shows a software dialog box titled "One sample T statistics". It contains two radio buttons: "Hypothesis Test" (unselected) and "Confidence Interval" (selected). Under "Hypothesis Test", there is a text input field for "Null: mean =" containing the value "0", and a dropdown menu for "Alternative:" showing the symbol "≠". Under "Confidence Interval", there is a text input field for "Level:" containing the value "0.95". At the bottom of the dialog, there are five buttons: "?", "Cancel", "< Back", "Next >", and "Calculate".

## STEP 4. Plug-in Level

(Example: 95% CI  $\rightarrow$  .95, 99% CI  $\rightarrow$  .99)

One sample T statistics

Hypothesis Test

Null: mean =

Alternative:

Confidence Interval

Level:

? Cancel < Back Next > Calculate

## STEP 5. Click “Calculate”

One sample T statistics

Hypothesis Test

Null: mean =

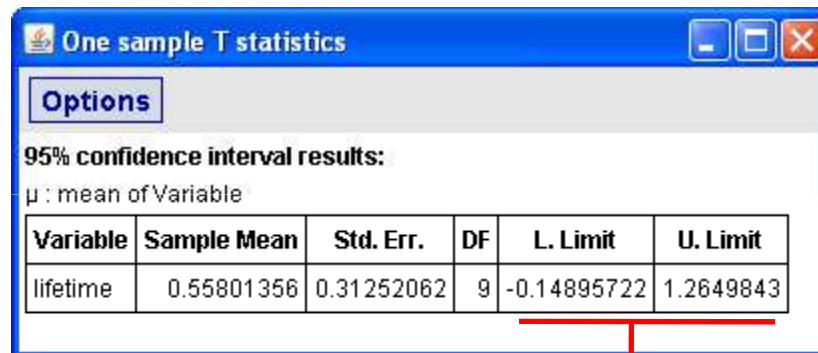
Alternative:

Confidence Interval

Level:

? Cancel < Back Next > Calculate

## STEP 6. Result Table



The image shows a screenshot of the 'One sample T statistics' dialog box in Minitab. The 'Options' tab is selected. The text '95% confidence interval results:' is displayed, followed by 'μ : mean of Variable'. Below this is a table with the following data:

Variable	Sample Mean	Std. Err.	DF	L. Limit	U. Limit
lifetime	0.55801356	0.31252062	9	-0.14895722	1.2649843

Confidence Interval