Description. Is there a relationship between NUMBER OF CASES and ADVERSE EVENTS? Seems logical right? We will run a correlation analysis to find out the answer (is there a relationship - correlation - between the two observations).

Please Answer all the question step by step

1. In your own words define what is a correlation. How is CORRELATION DIFFERENT THAN CAUSATION?

2. Explain why it seems logical to see if there is an association between NUMBER OF CASES and ADVERSE EVENTS?

3. Describe the reason why we selected these two variables for correlation evaluation.

4. Explain why it does not make a difference which data go into which column.

5. Define and report what is the Rsqr value and the p value. Interpret the Rsqr coefficient. Write something informative about the outcome. Use references (like the calculator site, others you may find online or on class site).

HOW TO DO THIS ASSIGNMENT.

A. Open the PROJ4 dataset (excel file).

B. Open the statistical science calculator [https://www.socscistatistics.com/tests/ (Links to an external site.)](https://www.socscistatistics.com/tests/).

C. Select the [**Pearson Correlation Coefficient Calculator (Links to an external site.)**](https://www.socscistatistics.com/tests/pearson/default.aspx)

D. Copy and paste values for X (cases) and values for Y (adverse events) into the boxes.

E. Copy the image of the relationship (the graph) into your report. How does the image show the absence of a relationship?