Statistics 101: Chi-square test, Pearson correlation, and Linear regression

Virginia Quick, PhD, RDN
Assistant Professor
James Madison University
Email: quickvm@jmu.edu
Objectives

- Understand the basic principles of Pearson correlations, Chi-square test, and linear regression analyses

- Determine when to use Pearson correlations, Chi-square tests, and linear regression analyses in answering research questions

- Be able to perform Pearson correlations, Chi-square tests, and linear regression analyses using a statistical software program such as SPSS
Let’s begin on this journey together!

“Data don’t make any sense, we will have to resort to statistics.”