**Practice Exercise**

March is Colorectal Cancer Awareness Month, and as a State Public Health Advisor you are asked to share Colorectal Cancer Incidence data for Missouri BRFSS regions for the 2010-2014 time period.

1) Which MICA would you use to find this information?

Cancer Incidence MICA

2) Which Sites did you combine to create the Colorectal Cancer category?

Digestive System: Anus, anal canal, & anorectum; other biliary; other digestive organs, Digestive System: Colon, excluding rectum

3) Which BRFSS Region has the highest count of Colorectal Cancer Incidence? The highest rate?

St. Louis Metro, Southeast

4) Kansas City Metro has a higher count than Northwest region, and yet the Northwest region has a higher rate. Please write a statement explaining why?

Rates are calculated by taking the number of events (or count) divided by the population. Therefore, if you have a higher population (higher denominator), the rate will be lower if the count is held constant. In this case, Kansas City Metro has a higher population than Northwest region which explains the lower rates for Kansas compared to Northwest region.

5) Which MICA could you use to look at the population differences between the Northwest region and KC Metro?

Population MICA

6) Generate a statistical significance map and use it to determine which BRFSS region has statistically higher rate compared to the state?

Southeast BRFSS Region

7) Build two tables, one using confidence interval of 99% and another confidence interval of 95%. Then using the side by side table comparison option, explain why the 99% confidence intervals are wider than 95% confidence intervals?

This is because we must be even more confident or sure that the true rate falls within the range provided.