QTM 151 Project Proposal

Group name: Datarangers
Group members: Joyce Wang, Hyesun Jun, Emerald Yuan, Steven Si

Variables:
- Race/Hispanice origin w/ NH Asian (Demographics(DEMO_J), demographics)
- Age when first told you had diabetes (Diabetes (DIQ_J), questionnaire)
- Triglyceride level (Cholesterol - Low-Density Lipoproteins (LDL) & Triglycerides (TRIGLY_J), lab)

Proposal:

Nowadays, because of unhealthy dietary habits and lack of exercise, diabetes has become a common condition worldwide and it's rising dramatically all over the world (WHO, 2020). According to the CDC, different races have different prevalence of diagnosed diabetes (CDC, 2020). People with diabetes also tend to have higher levels of triglycerides and LDL cholesterol levels which could increase the risk for heart disease and stroke (Story, 2020). Therefore, our project is aimed to examine the relationship between ethnicity, age getting diabetes and triglyceride levels, which would be an analysis of diabetes. In specific, our objectives are to investigate whether ethnicity is correlated with the age of first diagnosed as having diabetes and whether having diabetes would raise the level of triglycerides.

Reference

https://www.healthline.com/health/high-cholesterol/treating-with-statins/guide-to-diabetes-and-high-cholesterol
https://www.who.int/health-topics/diabetes

https://www.cdc.gov/diabetes/pdfs/data/statistics/national-diabetes-statistics-report.pdf