**Project proposal**

Project title: Prevalence of Coronary Heart Disease (CHD) among smokers within the

FraminghamHeart Study between years 1956 and 1968

Team Members: Allan, Qudsia, Yasmin

Project Description/Outline:

Our project aims to provide insights into the correlation of various risk factors and prevalent

coronary heart disease (CHD). Risk factors studied will include BMI, total cholesterol and

smoking status.

Since data collected is also longitudinal, analysis will be done for period 1 and period 3.

Research questions to be answered:

- Smoking Status: is there a correlation between participants' smoking status and CHD?

- Age: What is the distribution of age among prevalent CHD cases and what does this

  mean?

- Total Cholesterol: what is the distribution of total cholesterol amongst participants with

  CHD? Does it vary across sexes? Smoking status?

- Body Mass Index (BMI): what is the BMI distribution of participants with CHD? Does it

  vary across sexes? Smoking status?

Target audience:

- Healthcare professionals:

    - E.g. Pharma companies high risk targeting populations with drug/rehab programs

    - E.g. cardiolgists or smoking cessation programs

Dataset: Framingham Heart Study

Task distribution:

Allan: Smoking status vs CHD, Age, Qudsia: Total Cholesterol, Yasmin: BMI