**Task 1:**

Use 2011 data only for development and internal validation

Do NOT include cystatinc (it has too many missing data)

Do NOT include walktime (it has too many missing data)

**Task 2:**

Use 2011 data only for development and internal validation

Use the following variables for model building:

qc1\_vb002 9905 577 6.239644 3.1 12.2 White Blood Cell in Thousands

qc1\_vb006 9910 600 90.67895 64.4 109.8 MCV

qc1\_vb009 9908 343 211.8677 71 417 Platelets

newbun 9972 744 15.6839 7.67474 29.46652 Blood Urea Nitrogen (BUN)

newglu 9951 801 109.6332 63.9 276.12 Glucose (mg/dl)

newcrea 9948 84 .7775872 .4294 1.3673 Creatinine (mg/dl)

newcho 9965 473 193.158 115.98 300.7748 Total Cholesterol (mg/dl)

newtg 9966 488 130.9581 38.055 540.735 Triglycerides (mg/dl)

newhdl 9973 194 50.96317 22.4228 97.0366 Hdl Cholesterol (mg/dl)

newldl 9955 444 116.2025 37.8868 210.3104 Ldl Cholesterol (mg/dl)

newcrp 9974 1086 2.527635 .19 37.02 C-Reactive Protein (CRP)

newhba1c 10032 51 5.250459 4.1 9.1 Glycated Hemoglobin (%)

newua 9974 2510 4.443 2.142 8.15976 Uric Acid (mg/dl)

qc1\_vb005 10129 584 41.40992 26.77 57.6 Hematocrit

qc1\_vb004 9907 126 14.33202 9.3 21.8 Hemoglobin (g/dl)