

Data Source:

GlaxoSmithKline

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<https://ssc.ca/en/case-study/blood-pressure>

Variables:

Variable	Description
Systolic Blood Pressure (SBP)	Continuous response variable
Gender (gender)	Binary Variable: M = Male, F = Female
Marital Status (married)	Binary variable: Y = Married, N = Not Married
Smoking Status (smoke)	Binary variable: Y = Smoker, N = Non-Smoker
Age (age)	Continuous variable (years)
Weight (weight)	Continuous variable (lbs)
Height (height)	Continuous variable (inches)
Body Mass Index (bmi)	Continuous variable: $(\text{Weight}/\text{Height}^2) \times 703$
Overweight (overwt)	Categorical variable: 1 = Normal, 2 = Overweight, 3 = Obese.
Race (race)	Categorical variable taking values 1, 2, 3, or 4.
Exercise level (exercise)	Categorical variable: 1 = Low, 2 = Medium, 3 = High

Alcohol Use (alcohol)	Categorical variable: 1 = Low, 2 = Medium, 3 = High
Stress Level (stress)	Categorical variable: 1 = Low, 2 = Medium, 3 = High
Salt Intake Level (salt)	Categorical variable: 1 = Low, 2 = Medium, 3 = High
Childbearing Potential (chldbear)	Categorical variable: 1 = Male, 2 = Able Female, 3 = Unable Female
Income Level (income)	Categorical Variable: 1 = Low, 2 = Medium, 3 = High
Education Level (educatn)	Categorical Variable: 1 = Low, 2 = Medium, 3 = High
Treatment (for hypertension)	Binary Variable: Y = Treated, N = Untreated
10 Genetic Markers (g1 - g10)	0 = 0 minor allele, 1 = 1 minor allele, 2 = minor alleles