

A heatmap visualization of the correlation matrix for the 10 variables. The x-axis and y-axis are labeled with variable names: `Age`, `Gender`, `Married`, `Children`, `Spouse`, `Health`, `Smoker`, `Heart`, `Stroke`, and `Diabetes`. The diagonal elements are all 1.0, indicating perfect self-correlation. The off-diagonal elements show the pairwise correlations between variables. The color scale ranges from light blue (low correlation) to dark blue (high correlation). The strongest correlations are between `Age` and `Heart` (approx. 0.75), `Age` and `Stroke` (approx. 0.70), and `Age` and `Diabetes` (approx. 0.65). Other notable correlations include `Gender` and `Married` (approx. 0.45), `Married` and `Children` (approx. 0.40), and `Children` and `Spouse` (approx. 0.35).

