## Description

The dataset contains several medical predictor (Independent) variables and one target variable, (Outcome). Predictor variables include:

1. Pregnancies
2. Glucose
3. BloodPressure
4. SkinThickness
5. Insulin
6. BMI
7. DiabetesPedigreeFunction
8. Age

Dataset url: https://www.kaggle.com/datasets/uciml/pima-indians-diabetes-database

Several constraints were placed on the selection of these instances from a larger database. In particular, all patients here are females at least 21 years old of Pima Indian heritage.

1) Pregnancies: Number of times pregnant

2) Glucose: Plasma glucose concentration a 2 hours in an oral glucose tolerance test

3) BloodPressure: Diastolic blood pressure (mm Hg)

4) SkinThickness: Triceps skin fold thickness (mm)

5) Insulin: 2-Hour serum insulin (mu U/ml)

6) BMI: Body mass index (weight in kg/(height in m)^2)

7) DiabetesPedigreeFunction: Diabetes pedigree function

8) Age: Age (years)

9) Outcome: Class variable (0 or 1)

### Step 1: Importing Libraries

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

### Step 2: Load the Dataset

```
diabetes_dataset = pd.read_csv('diabetes.csv')
```