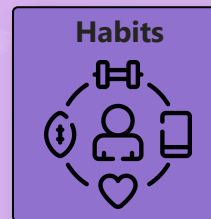


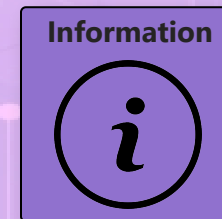
Diabetes Patients Analysis



Analyze the **diabetes** of the patients based on different health factors such as **Family History, Gestational Diabetes, Hypertension** more..
w.r.t **age**



Analyze the **diabetes** of the patients based on different lifestyle factors such as **Smoking, Alcohol Consumption, Sleep** more..



Click on the icon for more **information** related to **diabetes** analysis and Terms related to diabetes.

DIABETES PATIENTS ANALYSIS

Total Patients
6000



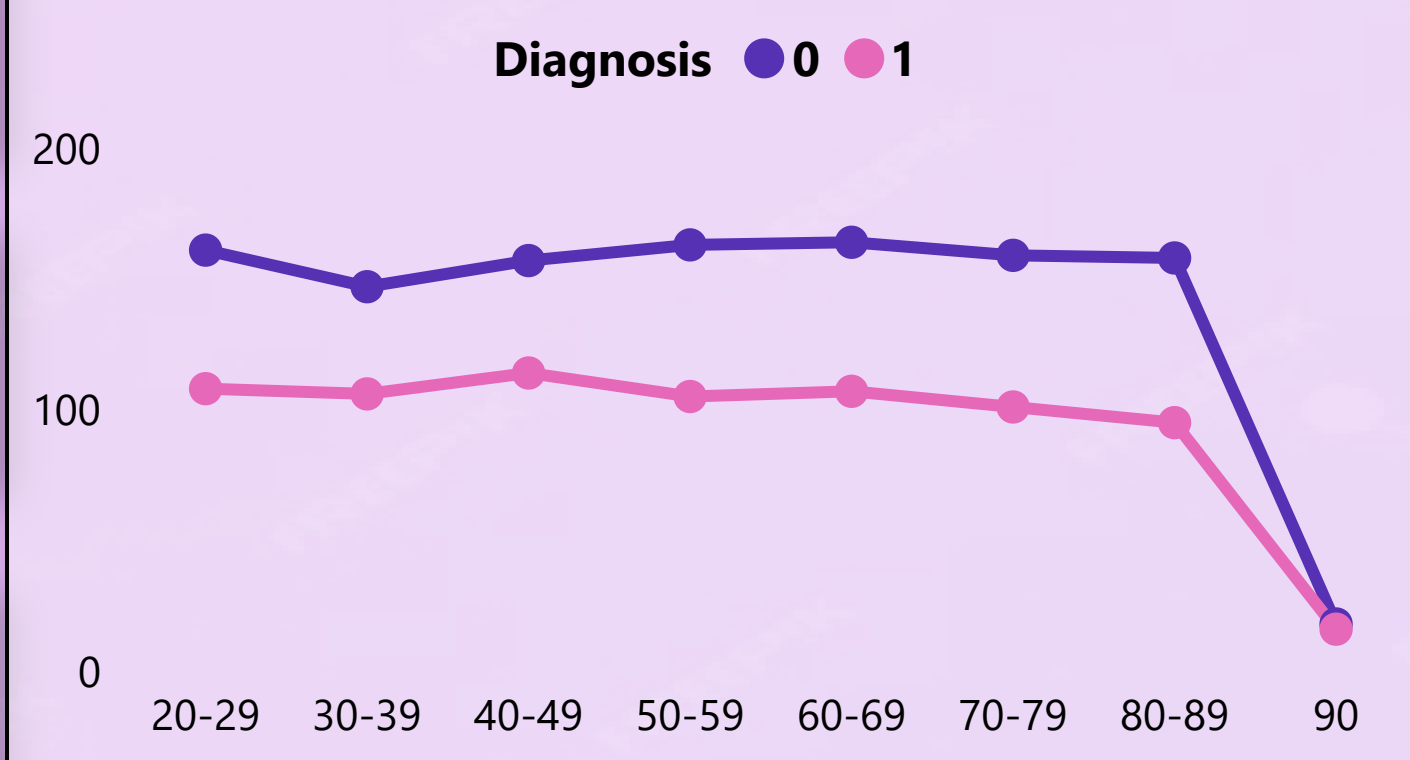
Average BMI
27.69

Average HbA1c
6.98

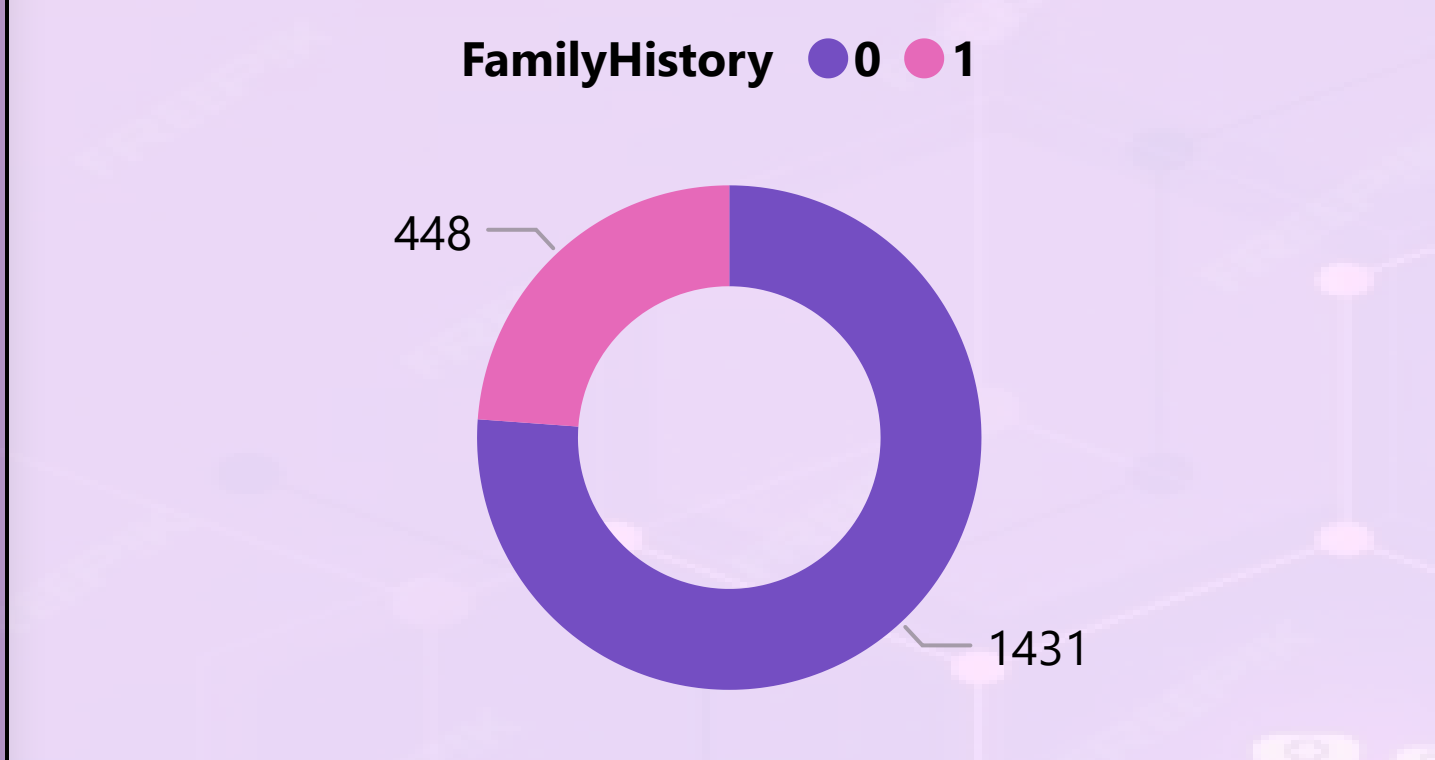
Female

Male

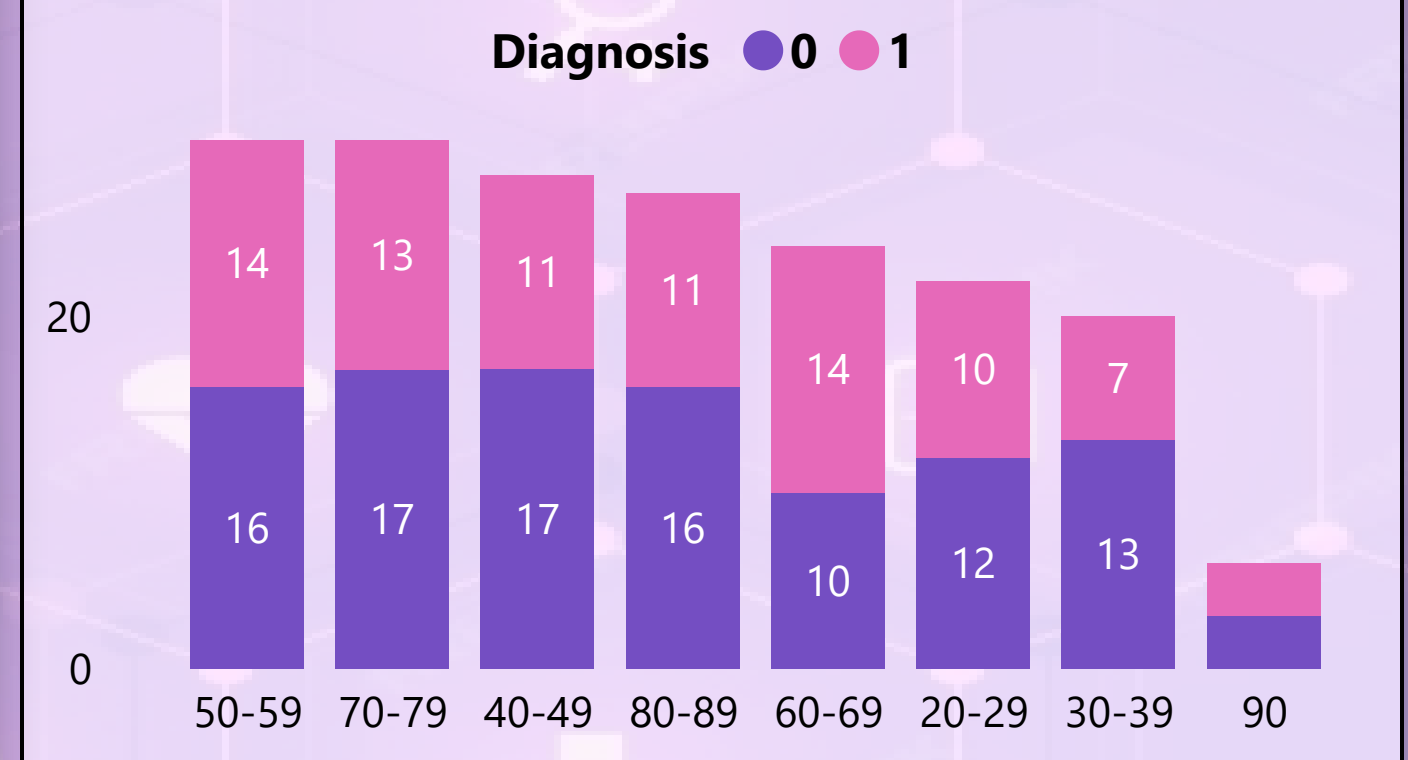
Diabetes Status By Age Group



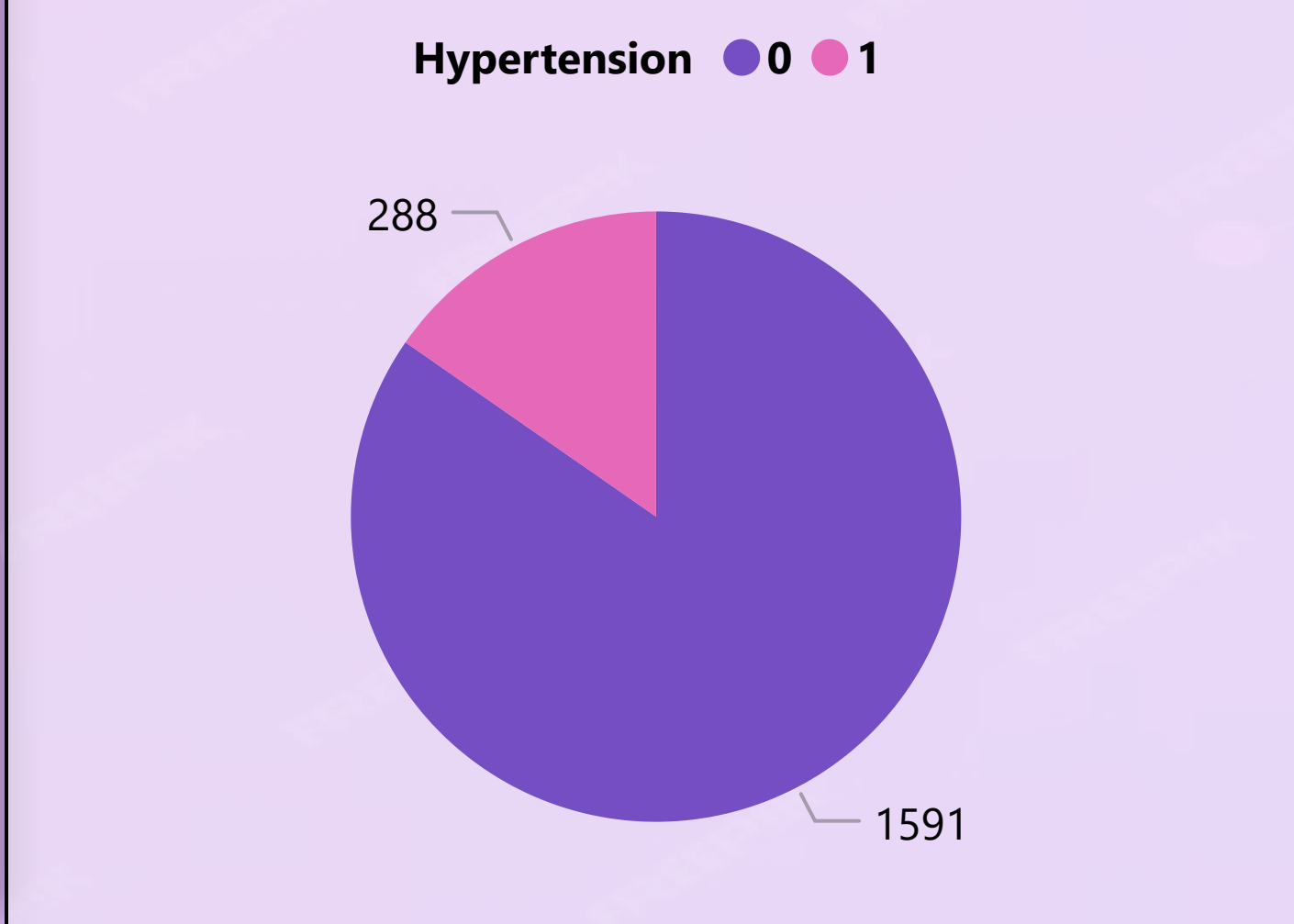
Diabetes Status By Family History



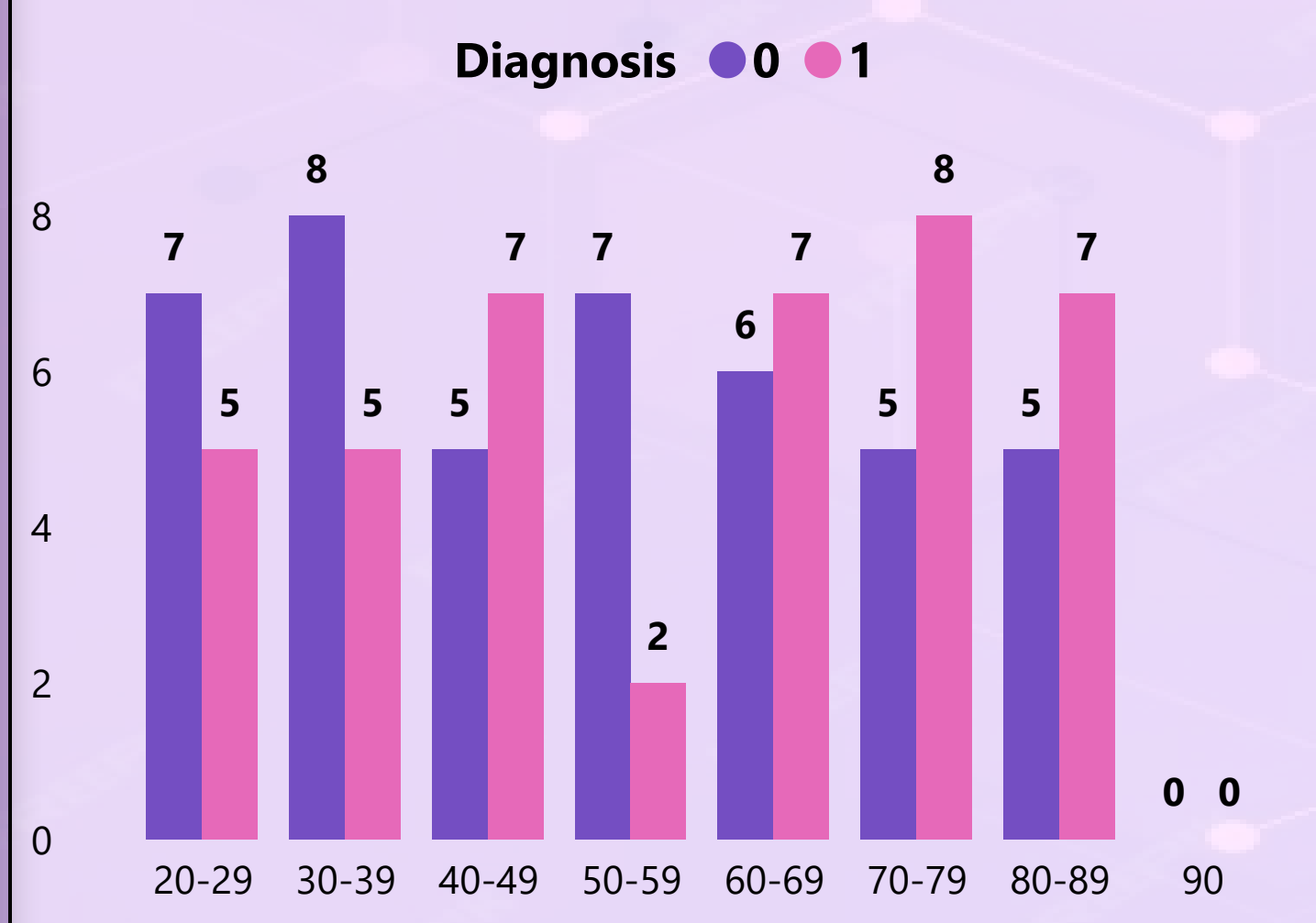
Diabetes Status By Gestational Diabetes



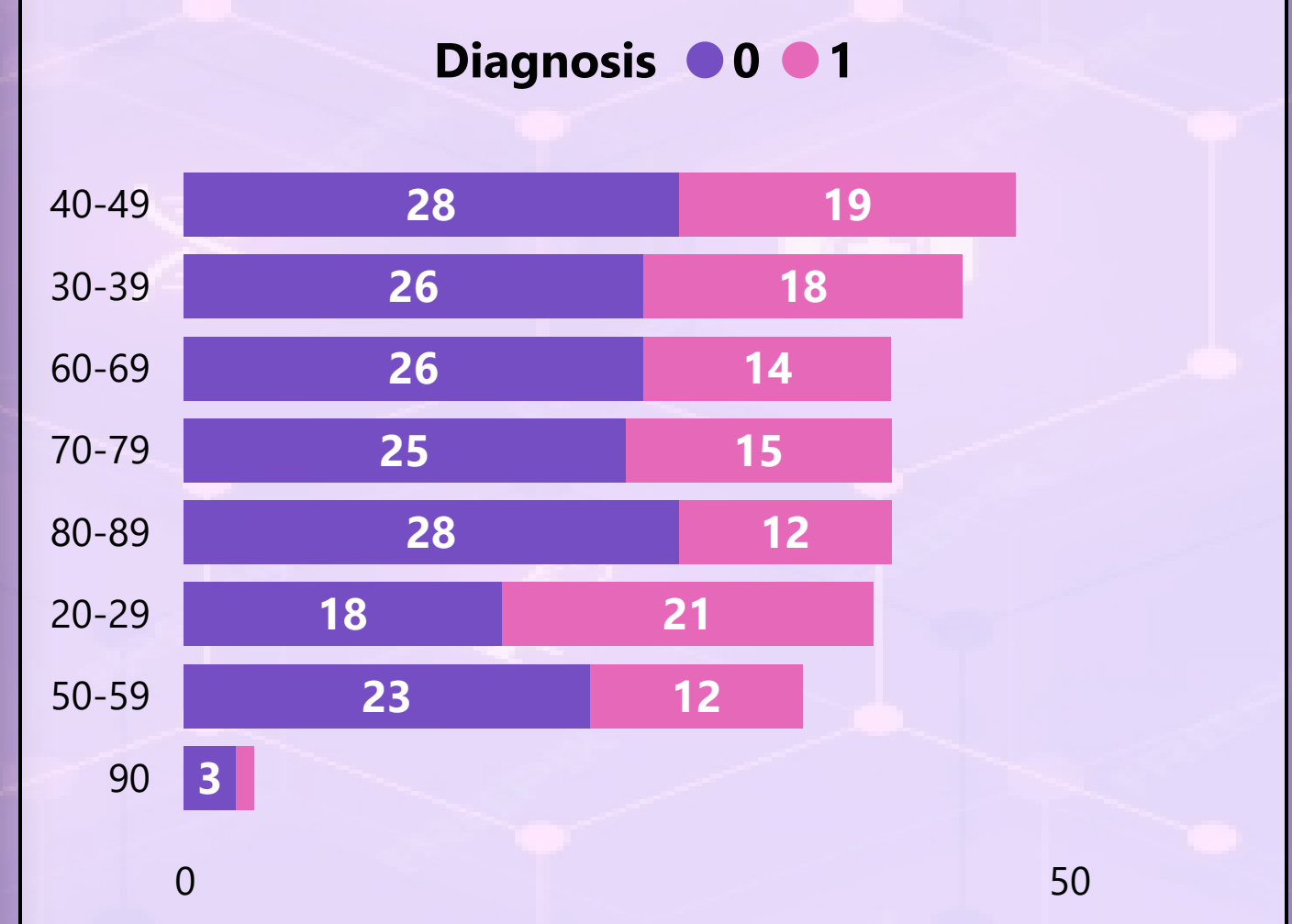
Diabetes Status By Hypertension



Diabetes Status By PolycysticOvarySyndrome



Diagnosis status by PreviousPreDiabetes



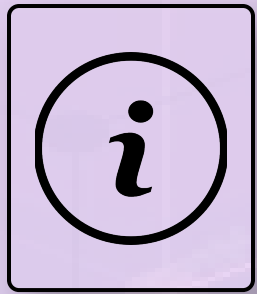
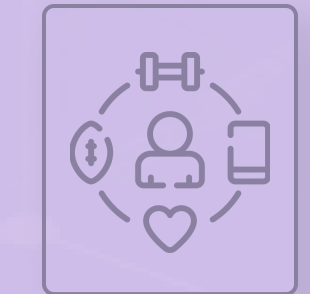
Diagnosis 0- No Diabetes
1- Has Diabetes

Family History 0-No Family History
1-Has Family

Hypertension 0-NoHypertension
1-Has Hypertension

DIABETES PATIENTS ANALYSIS

Total Patients
6000



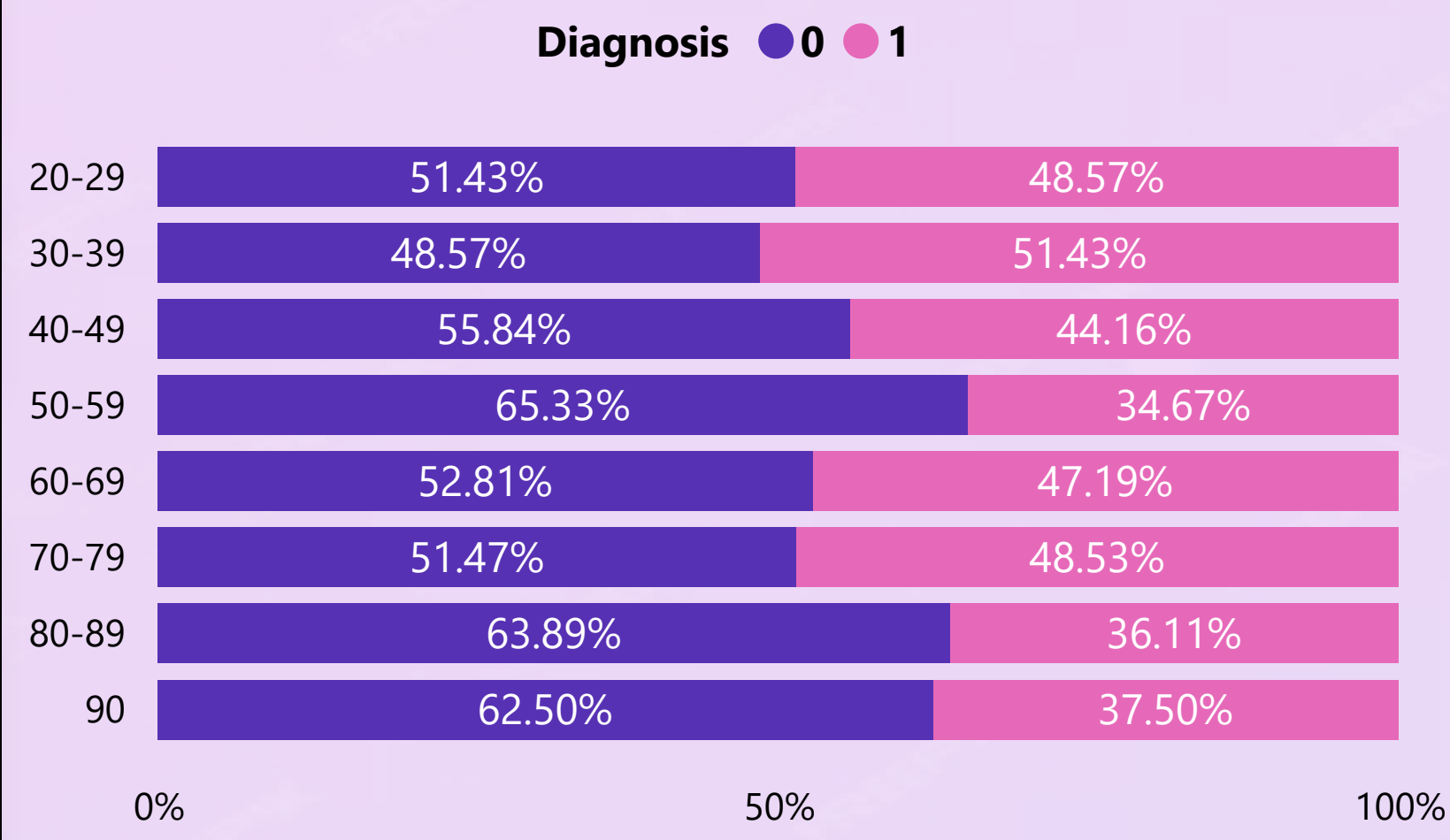
Average BMI
27.69

Average HbA1c
6.98

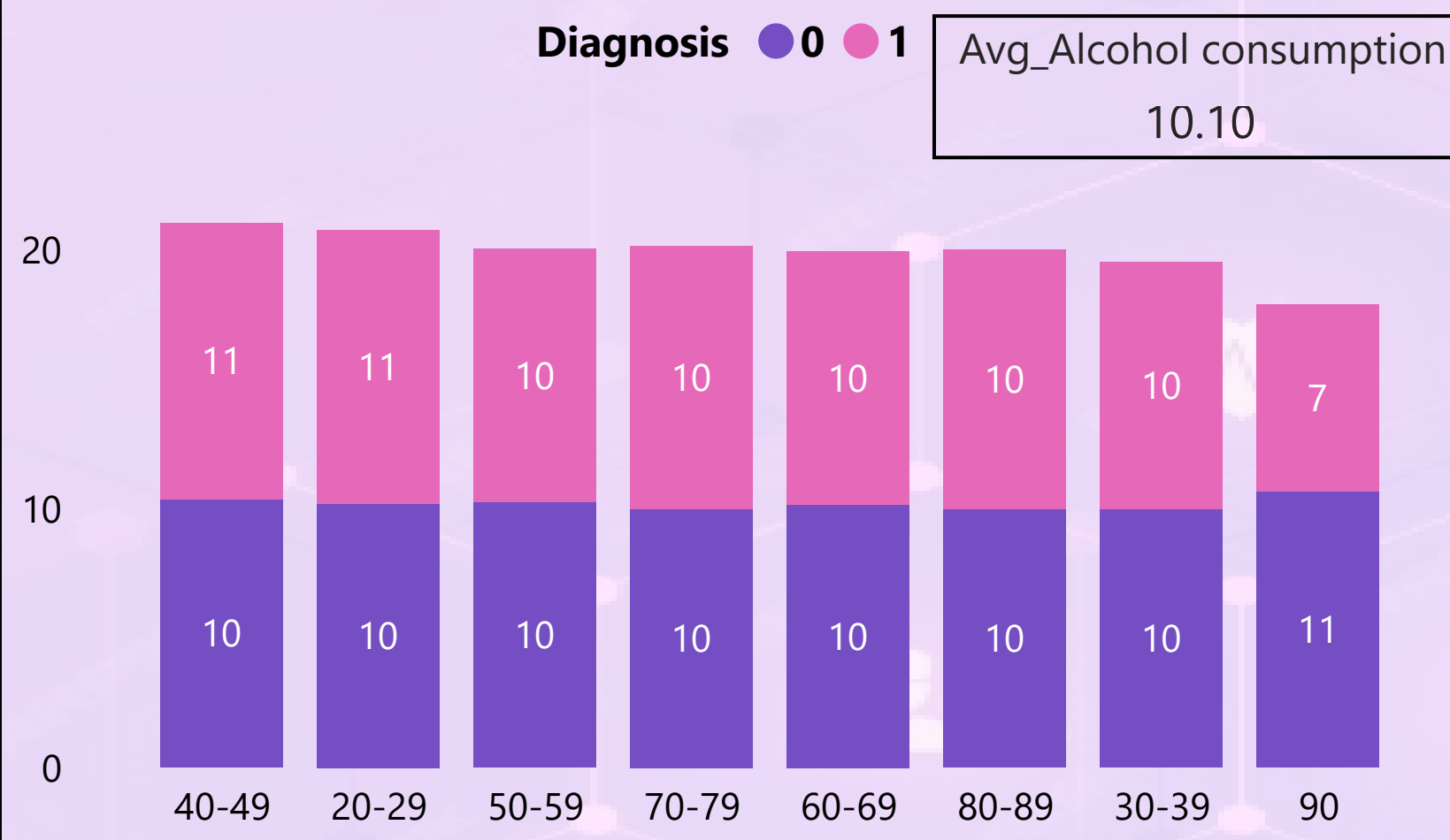
Female

Male

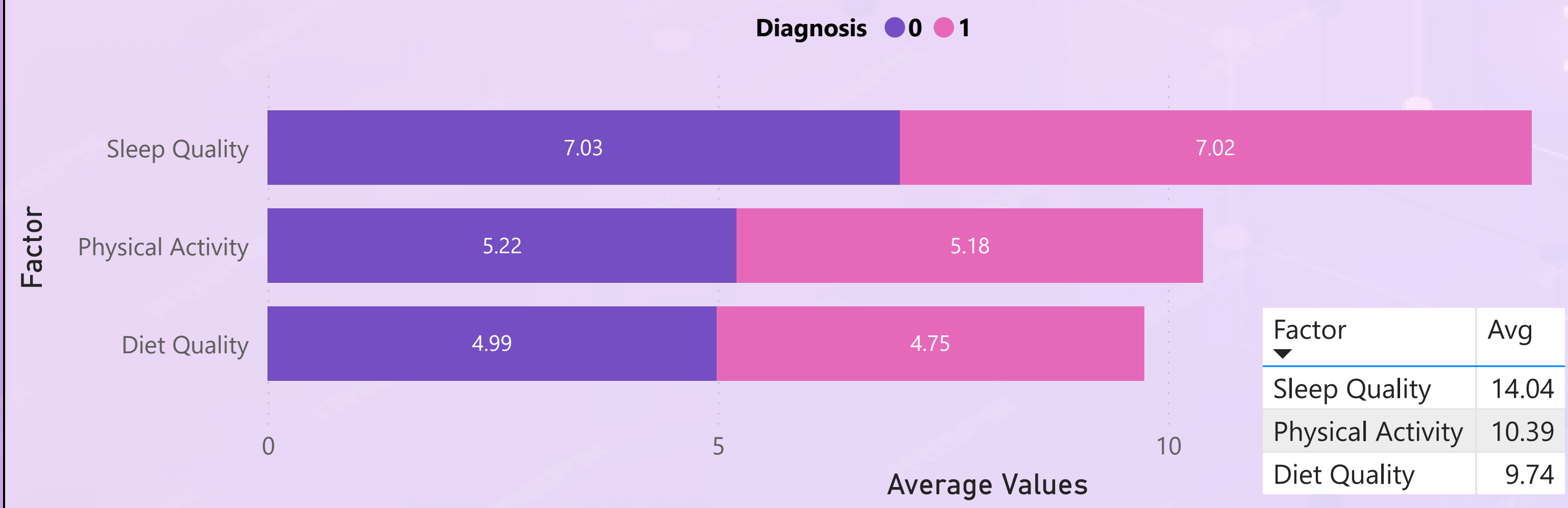
Diabetes Status Smoking



Diabetes Status By Alcohol Consumption



Diabetes Status By Sleep, Diet & Physical Activity

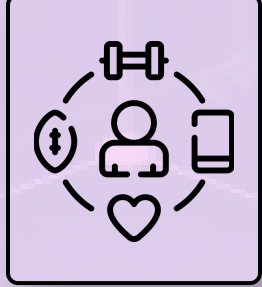


Factor	Avg
Sleep Quality	14.04
Physical Activity	10.39
Diet Quality	9.74

20-29	70-79
30-39	80-89
40-49	90
50-59	
60-69	

Diagnosis 0- No Diabetes
1- Has Diabetes

Diabetes Patients Analysis



Key Insights Recommendations

High HbA1c Levels: Many patients in the dataset have **HbA1c (Hemoglobin A1c)** levels in the moderate to high range. High HbA1c means higher risk of diabetes-related health problems.

Recommendation: Patients with high HbA1c should receive regular monitoring and early treatment to manage their condition better

BMI Patterns : A large number of patients are in the **overweight or obese** range based on their **BMI (Body Mass Index)**. Being overweight increases the risk of developing or worsening diabetes.

Recommendation: Encourage healthy lifestyle habits like balanced diets and regular physical activity to help manage weight.

Age and Diabetes Risk :Patients with diabetes are found across all **age groups**, not just older adults. Different age groups may need different approaches to care.

Recommendation: Design age-specific diabetes programs to better support patients at different life stages.

Smoking and Diabetes :There is a noticeable link between **smoking** and **diabetes status**. Smoking affects blood sugar control and increases complications.

Recommendation: Include smoking cessation (quit-smoking) programs as part of diabetes treatment plans.

Conclusion

This report gives a clear look at the health patterns found in diabetic patients using **Power BI** and **DAX (Data Analysis Expressions)**.

- **Power BI:** A data visualization tool used to create interactive reports and dashboards
- **DAX:** A formula language in Power BI used to create custom measures and calculations

By combining traditional charts with advanced **DAX calculations**, the report provides:

- A deeper understanding of risk factors like **age, weight, smoking, and blood sugar levels**
- Helpful insights for doctors, healthcare teams, and public health planners
- Support for better decision-making to improve patient outcomes