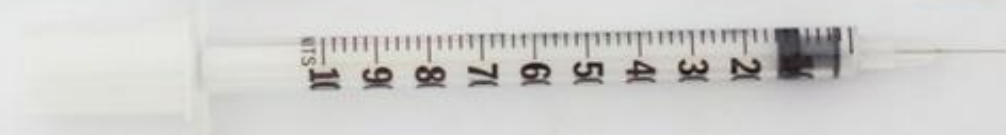


DIABETES



**What is
Type I
Diabetes
&
Pre-existing
Symptoms**

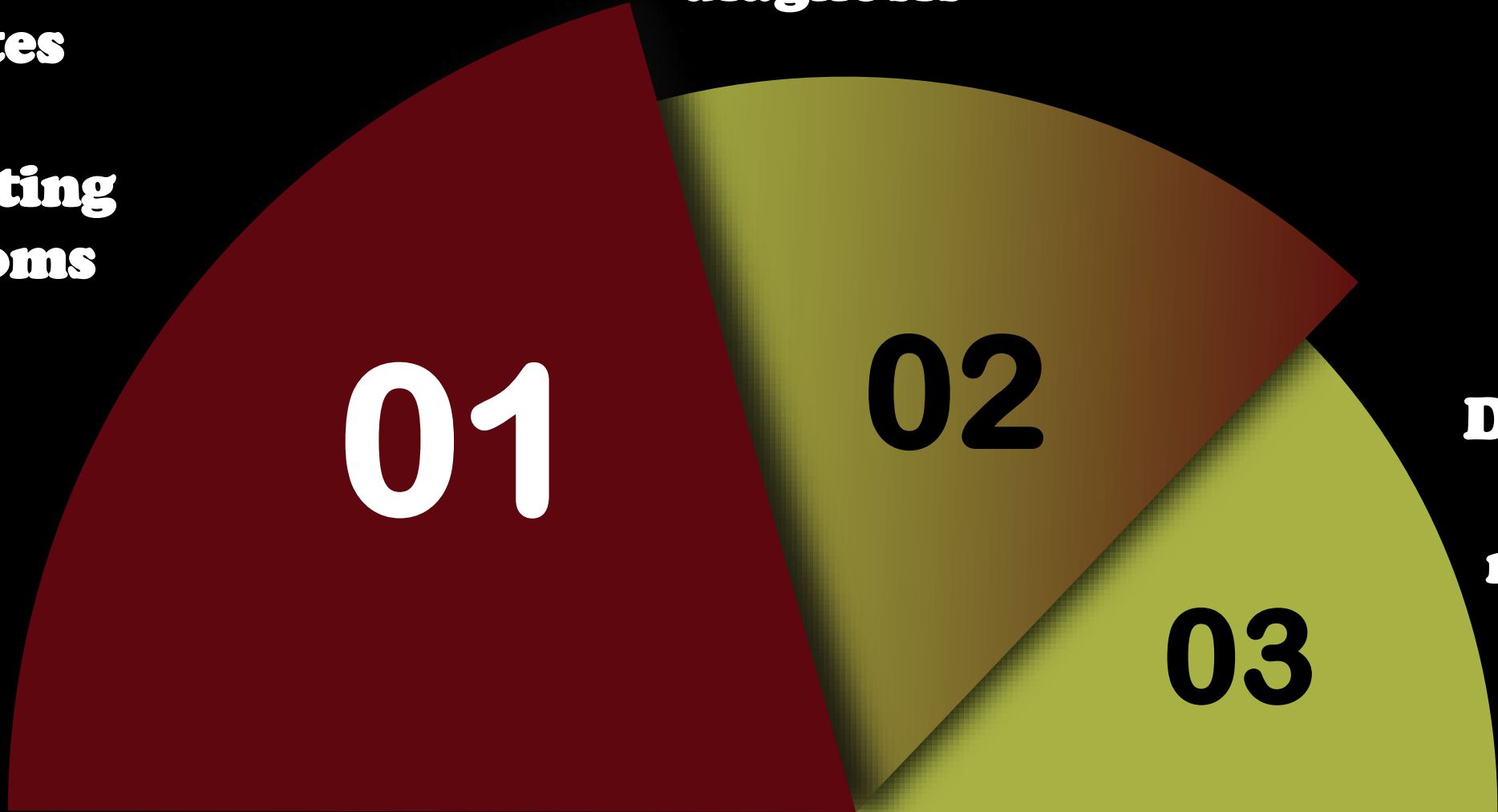
01

**Prevalent
symptoms
for a positive
diagnosis**

02

**Diabetes
risk
models**

03





**Autoimmune
disease**

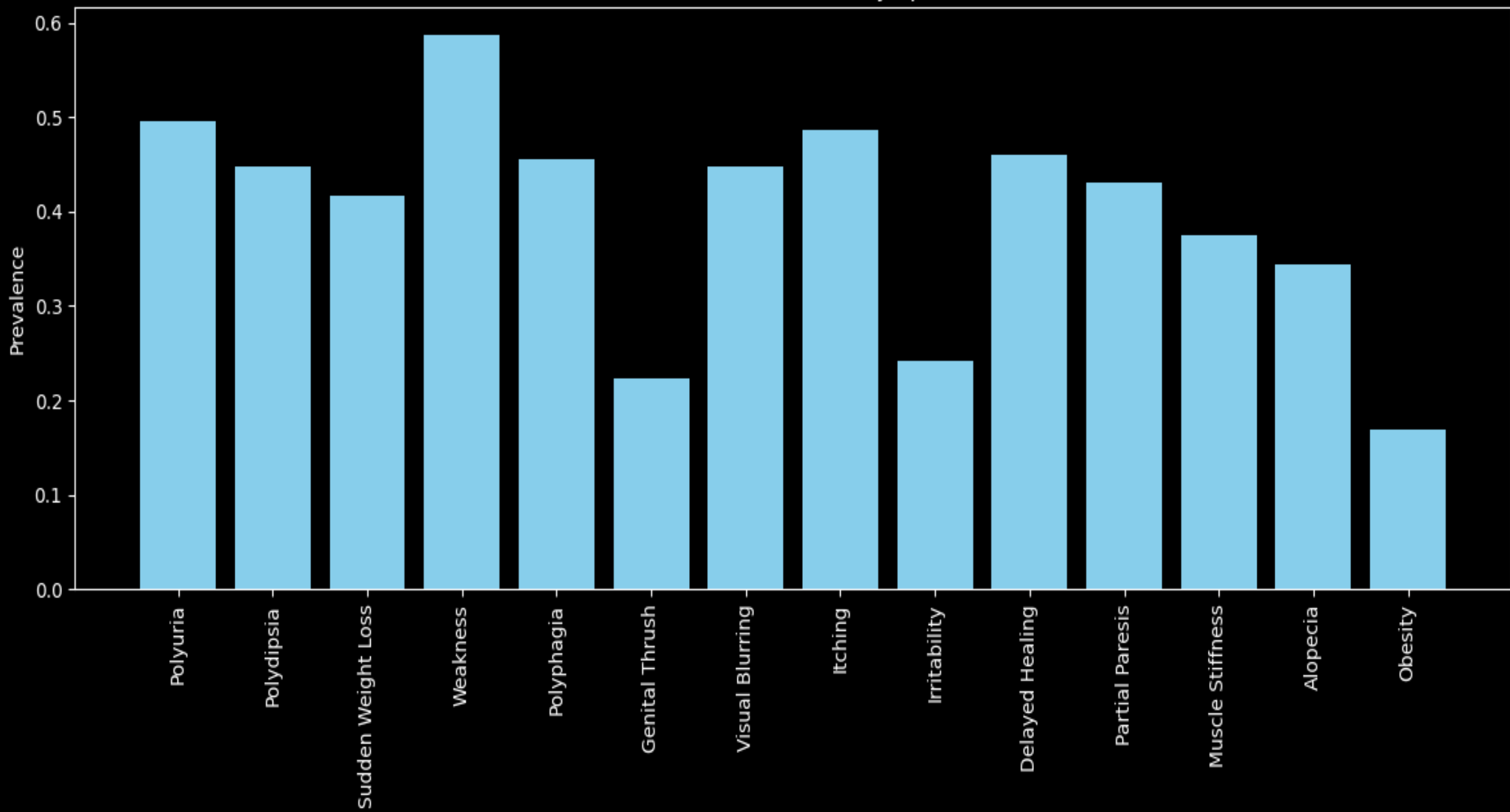
The infographic features a central silhouette of a person composed of four interlocking puzzle pieces. The top-left piece is olive green and contains the text 'Autoimmune disease'. The top-right piece is dark red and contains the text 'Most common in children and young adults'. The bottom-left piece is dark red and contains the text 'Affects about 5-10% of people with diabetes'. The bottom-right piece is olive green and contains the text 'Type 2 Diabetes is caused by lifestyle factors and insulin resistance'. To the left of the person are two pink pills and three yellow cigarettes. To the right is a white and blue insulin pen. The background is dark purple.

**Most
common in
children
and young
adults**

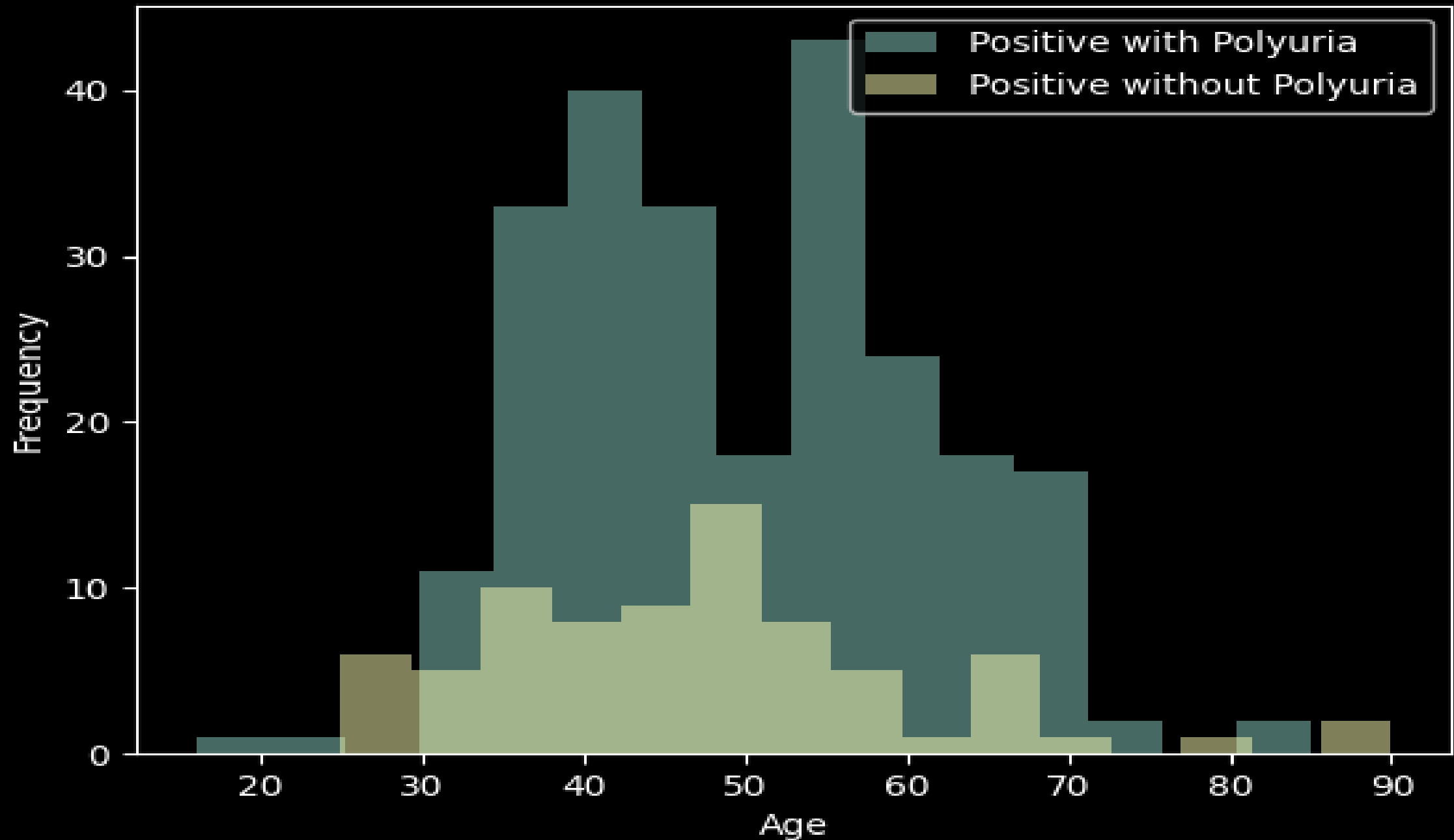
**Affects
about 5-
10% of
people
with
diabetes**

**Type 2 Diabetes
is caused by
lifestyle factors
and insulin
resistance**

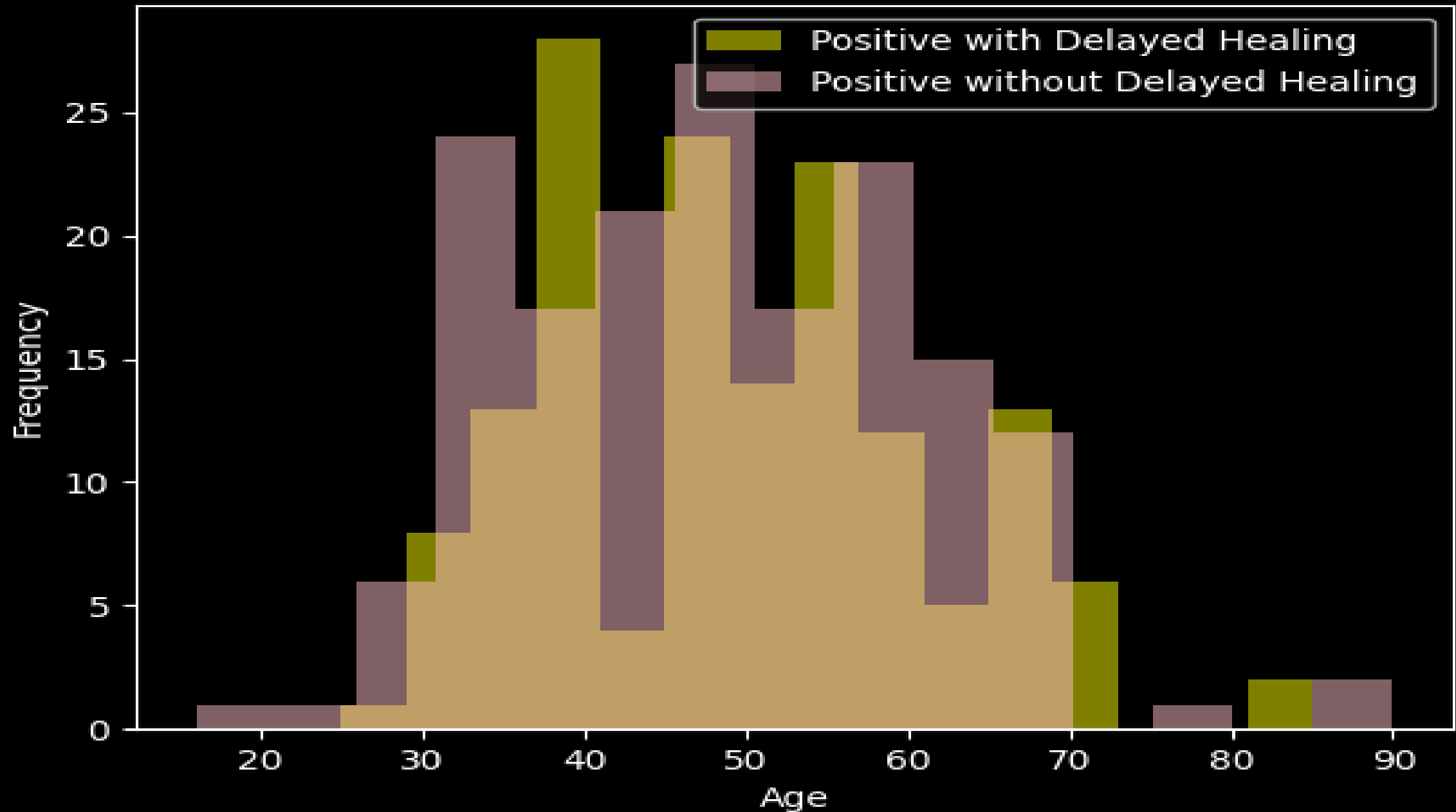
Prevalence of Diabetes Symptoms



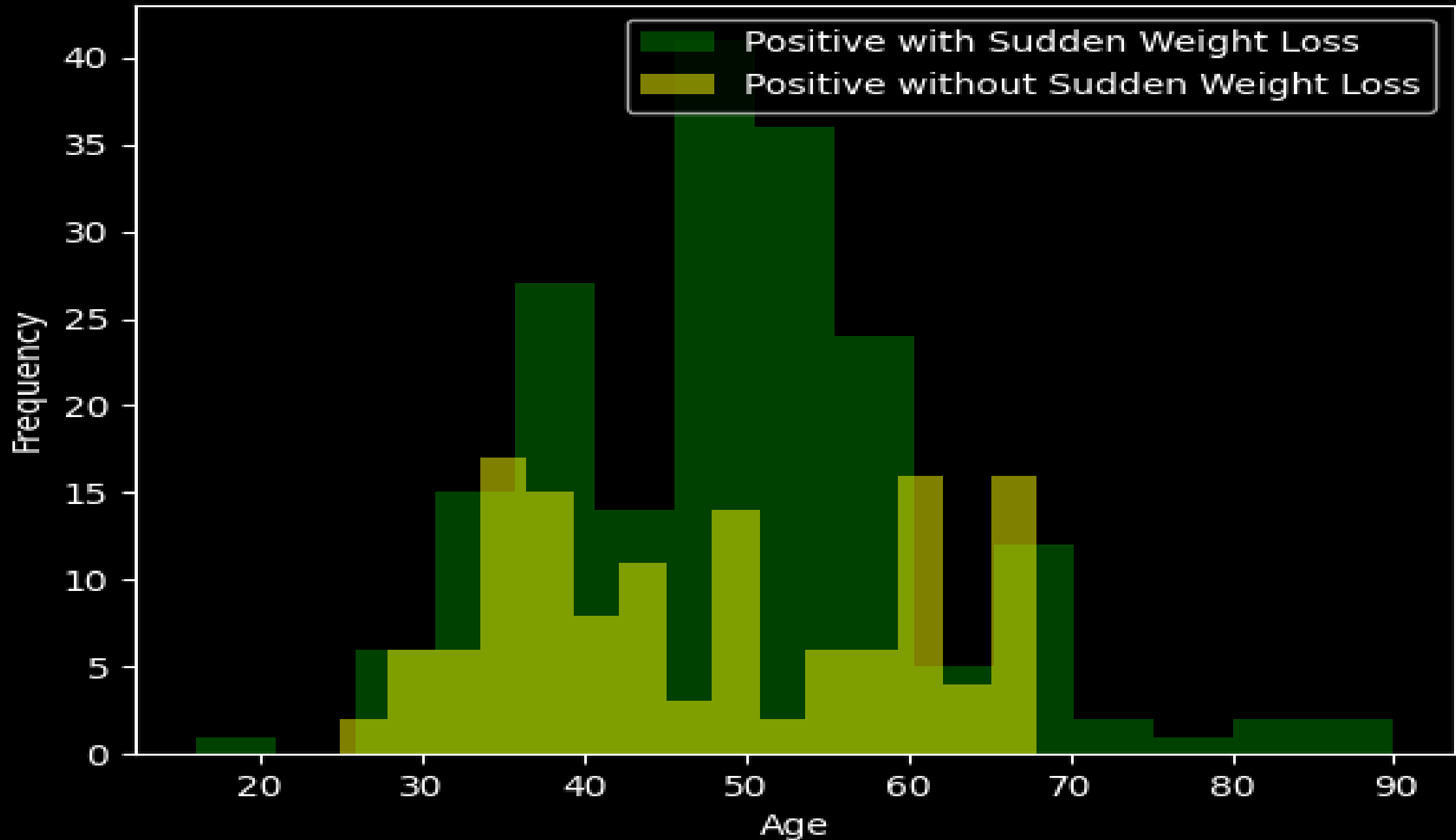
Age Distribution by Diabetes Status



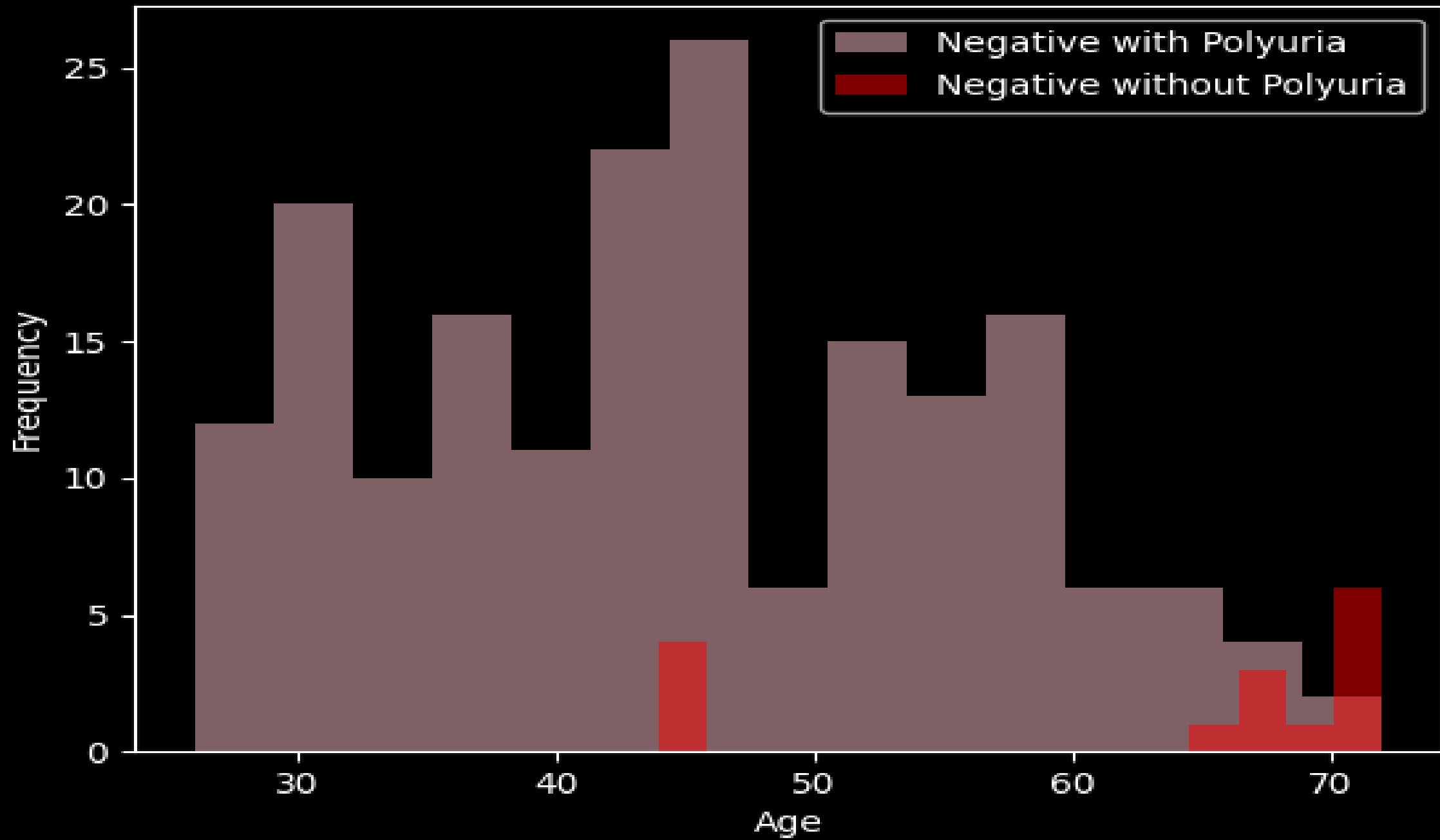
Age Distribution by Diabetes Status



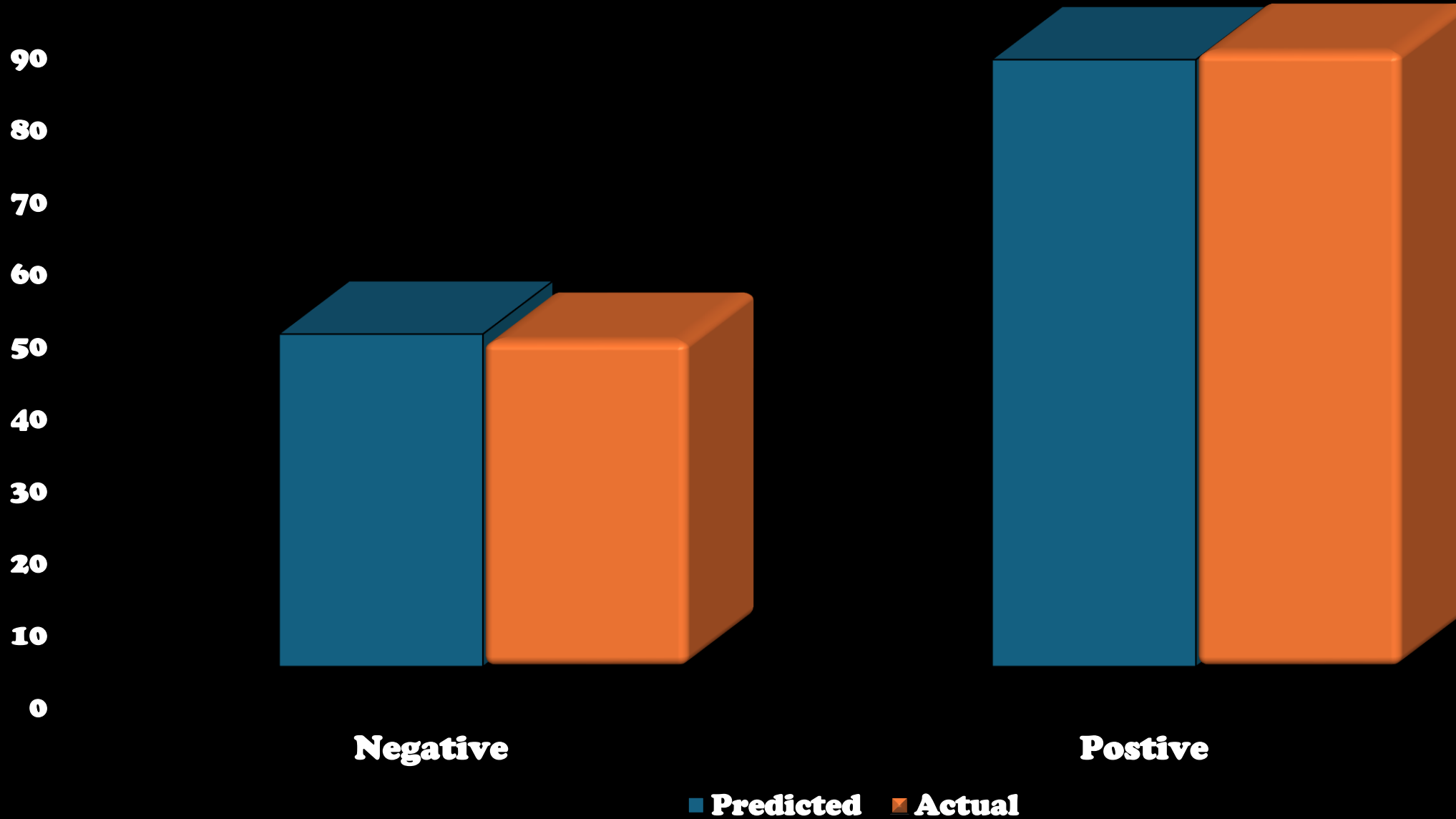
Age Distribution by Diabetes Status



Age Distribution by Diabetes Status

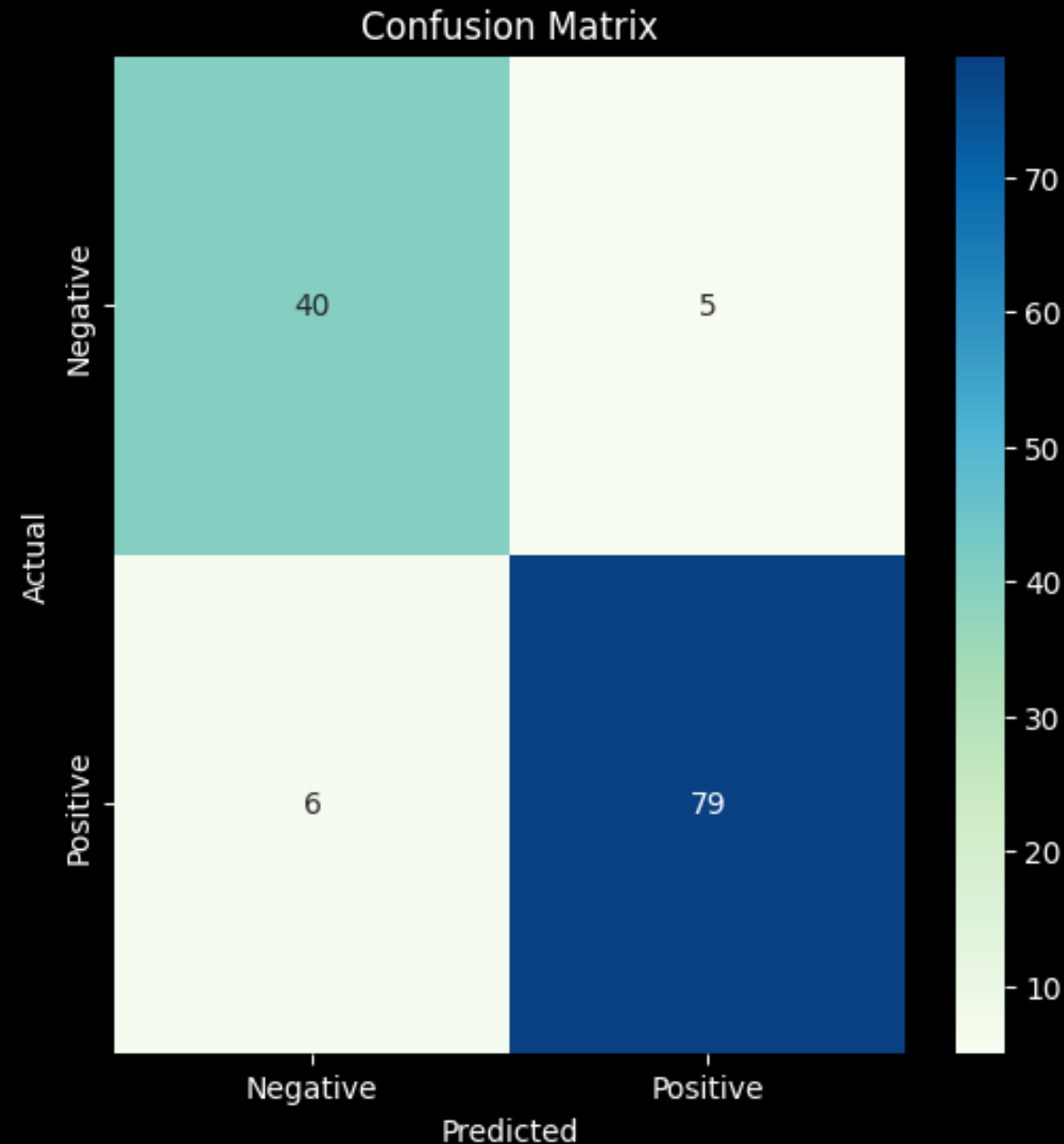


Predicted vs Actual



**Logistic Regression
Model
Classification Report**

	precision	recall	f1-score	support
0	0.87	0.89	0.88	45
1	0.94	0.93	0.93	85
accuracy			0.92	130
macro avg	0.91	0.91	0.91	130
weighted avg	0.92	0.92	0.92	130



Neural Models

Neural Network #1

Activation Functions:

1. Relu
2. Sigmoid
3. Sigmoid

Hidden Layers:

16, 16, 1

Epochs: 100

Loss: 0.0818

Accuracy: 0.9769

Neural Network #2

Activation Functions:

1. Relu
2. Sigmoid
3. Elu
4. Sigmoid

Hidden Layers:

30, 20, 10, 1

Epochs: 100

Loss: 0.1065

Accuracy: 0.9769

Neural Network #3

Activation Functions:

1. Relu
2. Relu
3. Elu
4. Sigmoid

Hidden Layers:

25, 25, 25, 1

Epochs: 100

Loss: 0.1153

Accuracy: 0.9692

The image features a vibrant red background with a series of concentric circles that create a tunnel-like or hypnotic effect. The circles are slightly darker in the center, giving a sense of depth. Overlaid on this pattern is the text "The End" in a large, elegant, white script font. The text is slightly tilted and has a subtle drop shadow, making it stand out against the red background.

The End

