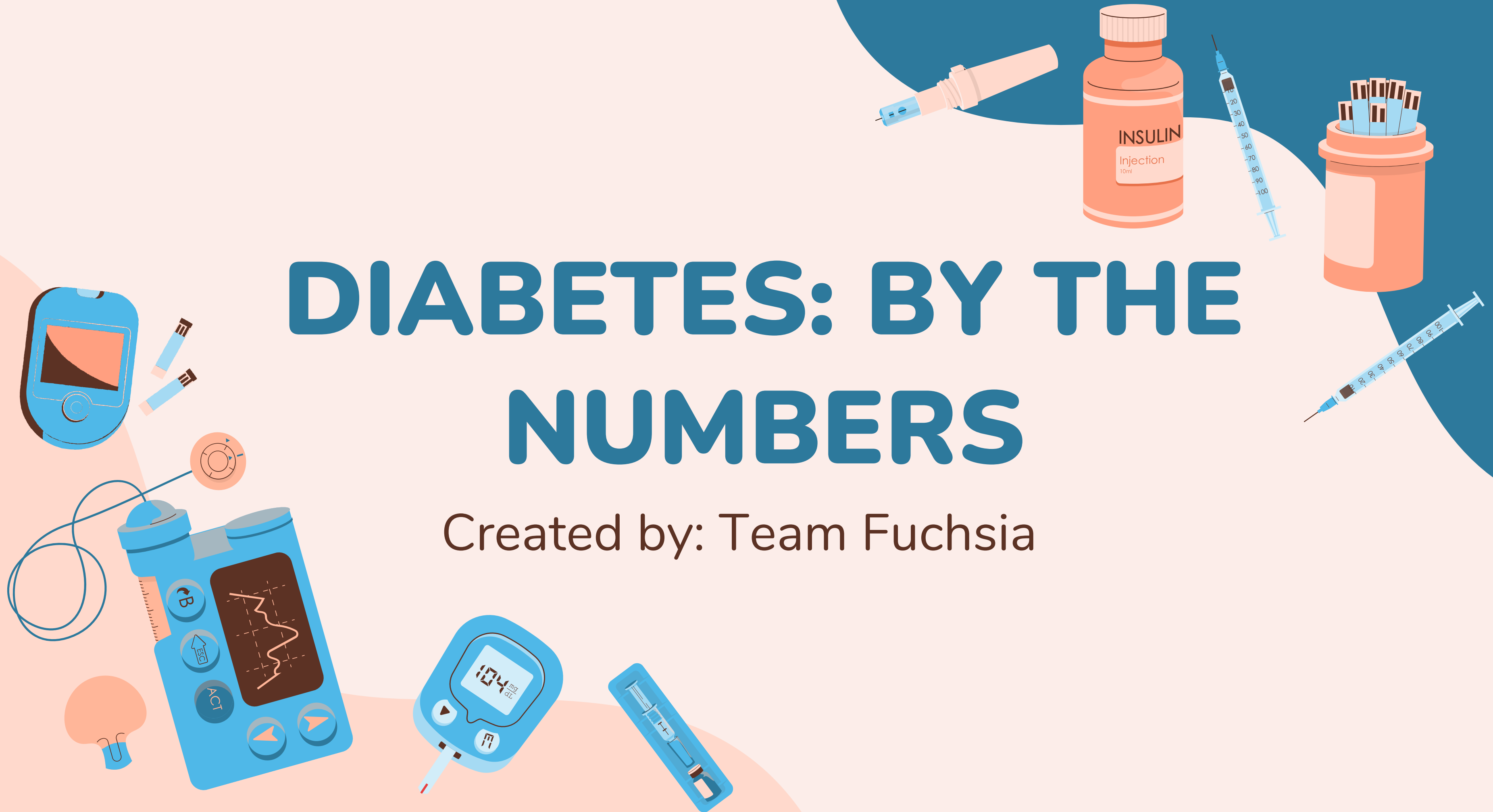


DIABETES: BY THE NUMBERS

Created by: Team Fuchsia



TODAY'S PLAN

- Provide statistical information about diabetes.
- Show relationships between health indicators and diabetes.
- View different visuals to give more insight into diabetes.



DATASET AND GITHUB REPOSITORY LINKS RESPECTIVELY ARE AS FOLLOWS:

- <https://www.kaggle.com/datasets/alexteboul/diabetes-health-indicators-dataset>
- <https://github.com/sjg42/Project3.git>



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WHAT IS DIABETES



Diabetes is a chronic medical condition that affects how your body processes glucose, a type of sugar that serves as a primary source of energy for cells.

WHAT ARE THE DIFFERENT TYPES OF DIABETES?



Type 1

This occurs when the immune system attacks and destroys the cells in the pancreas that produce insulin, a hormone that regulates blood glucose levels. People with type 1 diabetes need to take insulin injections or use an insulin pump to manage their blood glucose levels.

Type 2

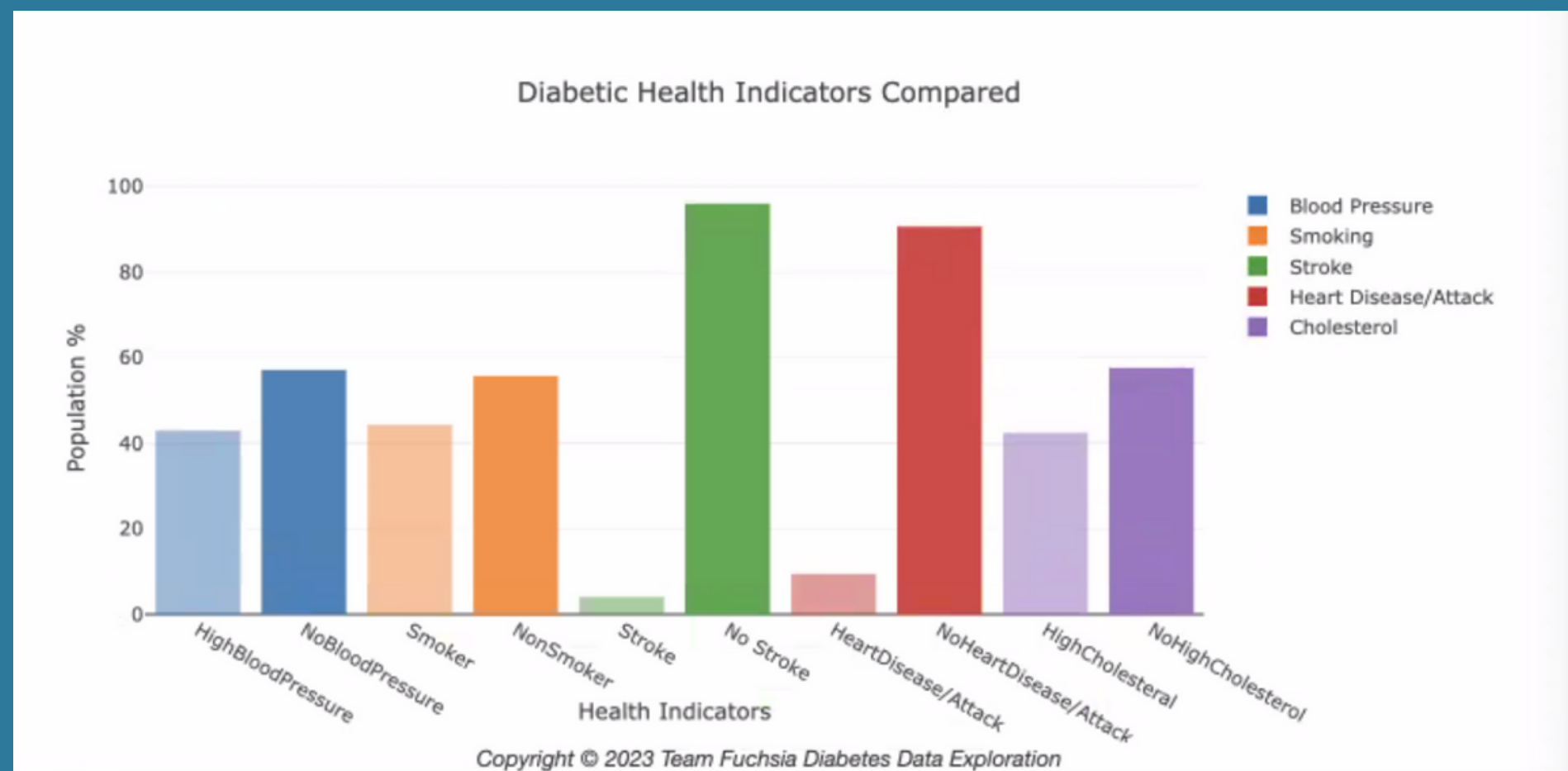
This occurs when the body becomes resistant to insulin or doesn't produce enough insulin to meet the body's needs. Type 2 diabetes is often related to lifestyle factors such as obesity, poor diet, and lack of exercise. Treatment may involve lifestyle changes, medication, or insulin therapy.

- Data sample we used was from Kaggle with about 250,000 rows of diabetes data which looked at:

- High Bp
- High Cholesterol
- BMI
- Smoker
- Stroke
- Heart Disease
- Physical Activity
- Ect.

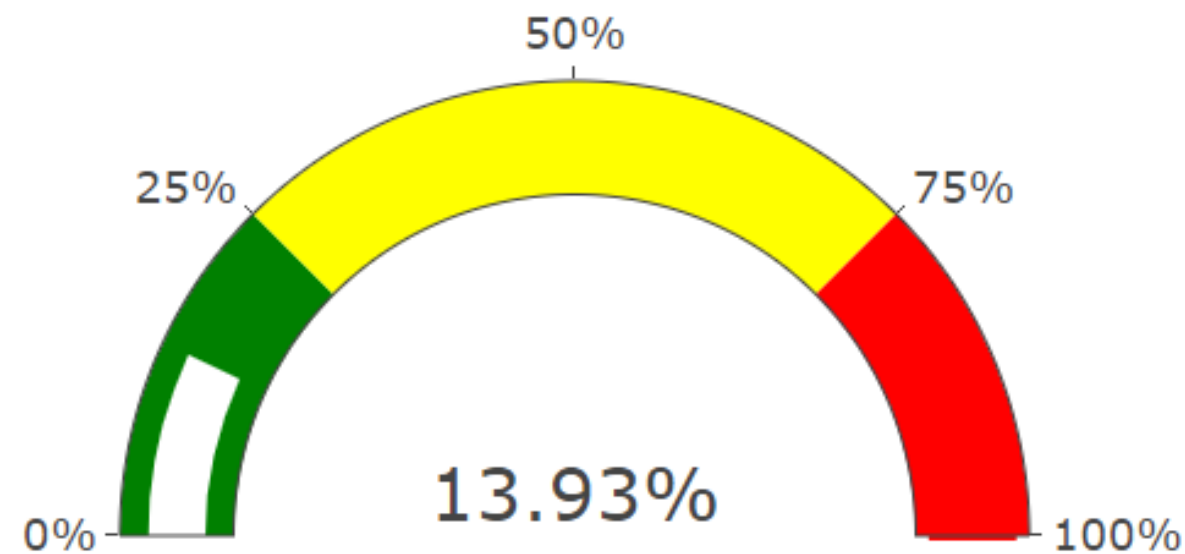
	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	HighBP	HighChol	CholChed	BMI	Smoker	Stroke	HeartDis	PhysActivity	Fruits	Veggies	HvyAlcoholConsump	AnyHealth	NoDobd	GenHlth	MentHlth	PhysHlth	DiffWalk	Sex	Age
	1	1	1	40	1	0	0		0	0	1	0	0	5	18	15	1	0	9
	0	0	0	25	1	0	0		1	0	0	0	0	1	3	0	0	0	7
	1	1	1	28	0	0	0		0	1	0	0	1	1	5	30	30	1	0
	1	0	1	27	0	0	0		1	1	1	0	1	0	2	0	0	0	11
	1	1	1	24	0	0	0		1	1	1	0	1	0	2	3	0	0	11
	1	1	1	25	1	0	0		1	1	1	0	1	0	2	0	2	0	10
	1	0	1	30	1	0	0		0	0	0	0	1	0	3	0	14	0	9
	1	1	1	25	1	0	0		1	0	1	0	1	0	3	0	0	1	11
	1	1	1	30	1	0	1		0	1	1	0	1	0	5	30	30	1	9
	0	0	1	24	0	0	0		0	0	1	0	1	0	2	0	0	0	8
	0	0	1	25	1	0	0		1	1	1	0	1	0	3	0	0	0	13
	1	1	1	34	1	0	0		0	1	1	0	1	0	3	0	30	1	10
	0	0	1	26	1	0	0		0	0	1	0	1	0	3	0	15	0	7
	1	1	1	28	0	0	0		0	0	1	0	1	0	4	0	0	1	11
	0	1	1	33	1	1	0		1	0	1	0	1	1	4	30	28	0	4
	1	0	1	33	0	0	0		1	0	0	0	1	0	2	5	0	0	6
	1	1	1	21	0	0	0		1	1	1	0	1	0	3	0	0	0	10
	0	0	1	23	1	0	0		1	0	0	0	1	0	2	0	0	1	7

- The objective of this chart is to allow people to compare their own health to common health indicators of the sample population.
- Blood pressure, smoking, stroke, heart disease, and cholesterol levels are commonly known indicators leading to a diabetes diagnosis.

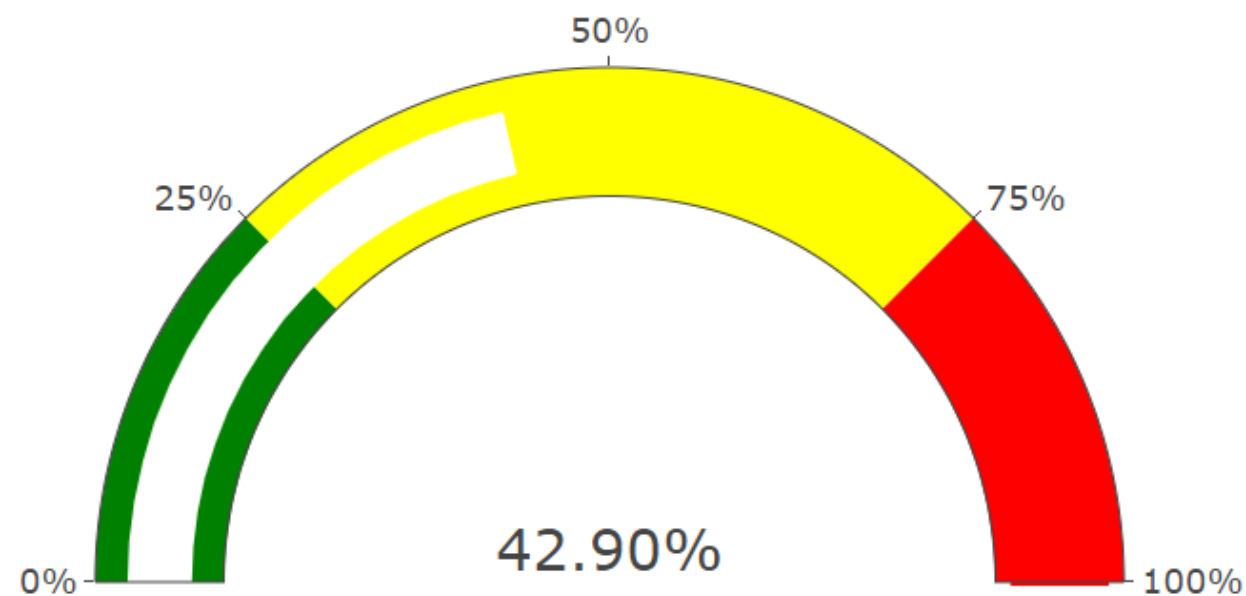


- The bars indicate the percentage of the sample population per health indicators.

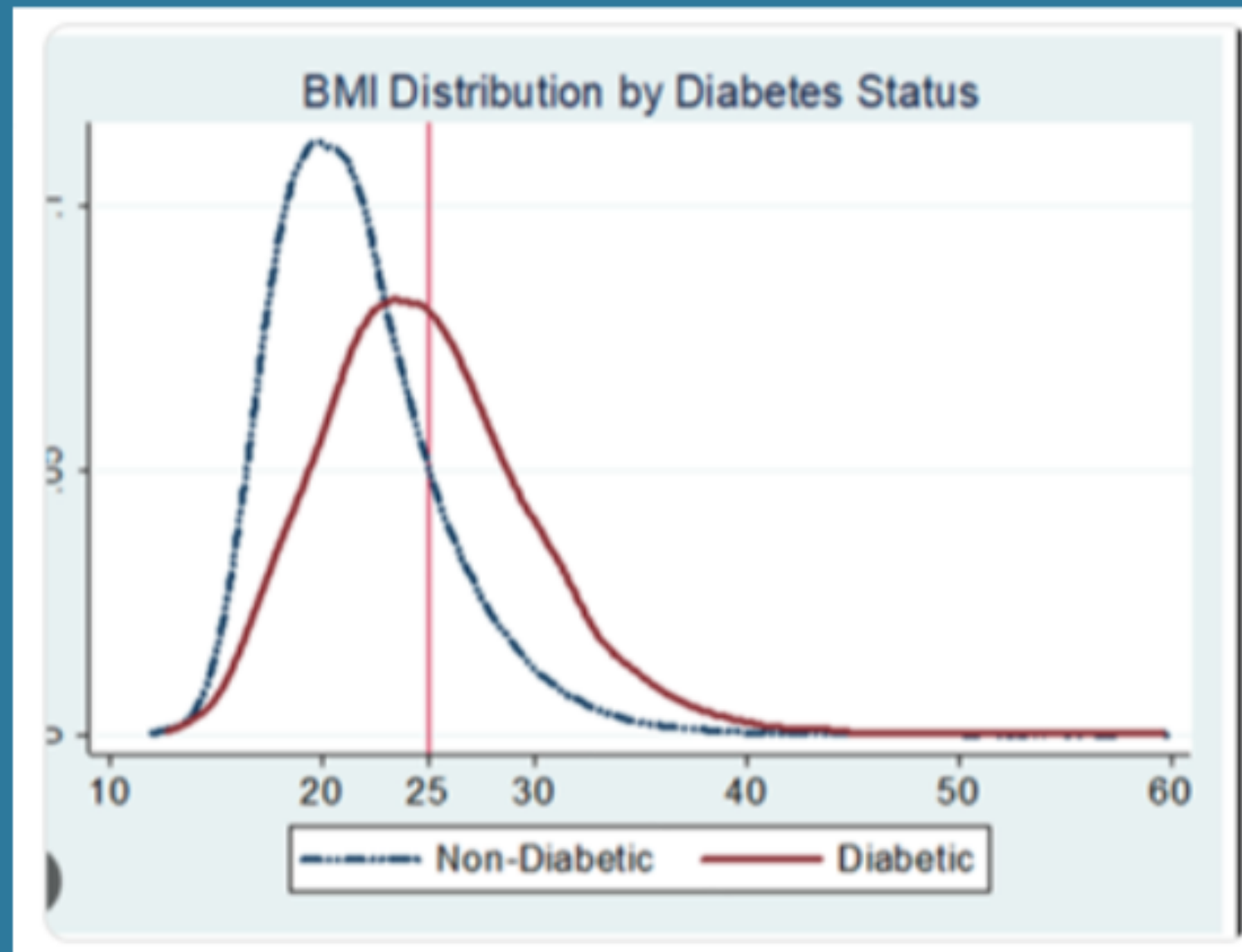
Percent of Population with Diabetes



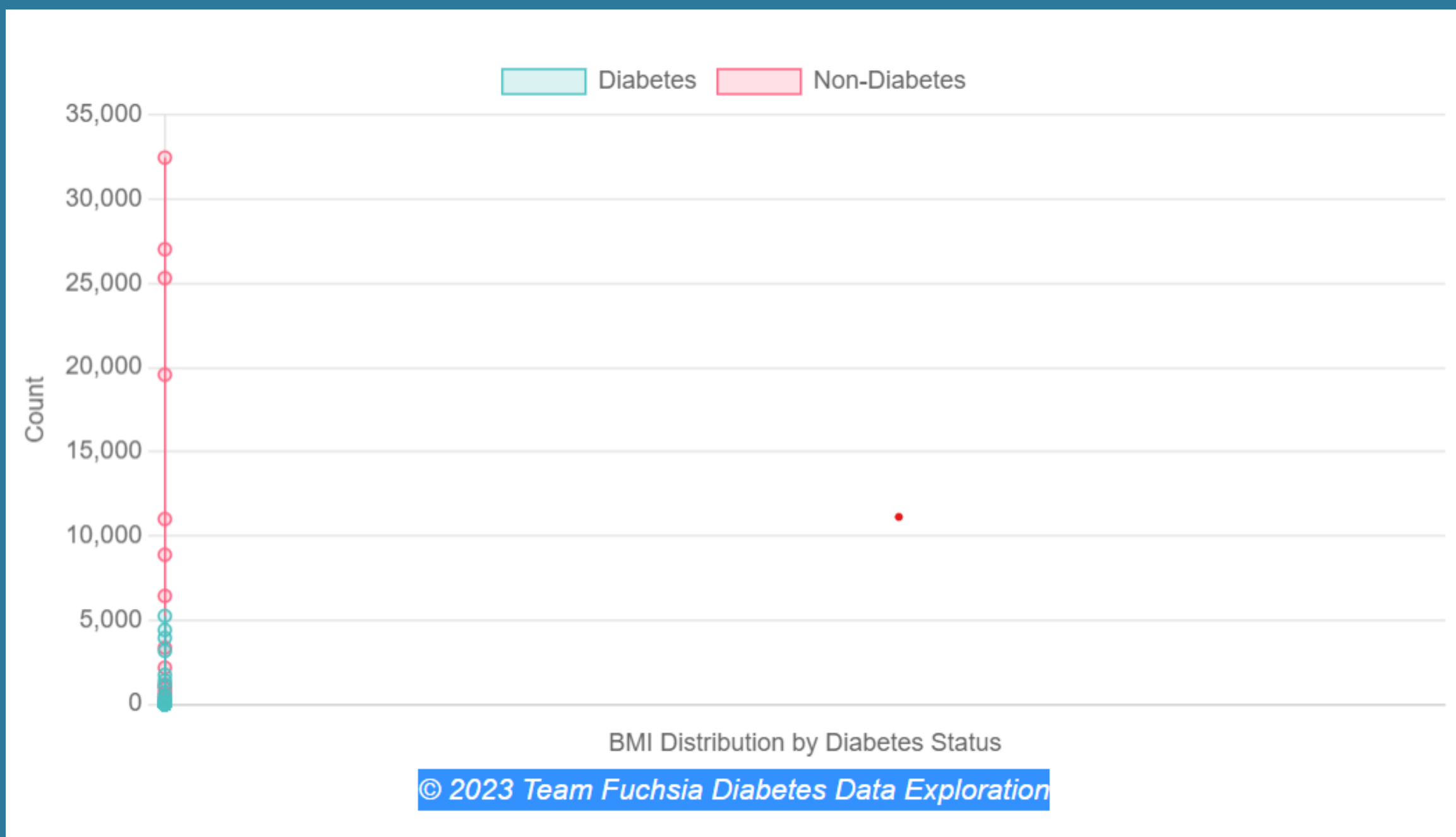
Percent of Population with HighBP



- To try and find other correlations we looked at different aspects of our data to see if there were any.
- One aspect was percent of population with Type 2 Diabetes
- Another aspect we looked at was the percent of the population with High BP



- This graph shows a comparison of the non-diabetic and diabetic populations in the dataset.
- The objective was to visualize the difference in the mean BMI's between the populations.
- This featured graph was not generated by our code but is a representation of what our code aims to visualize.



- And here is a look at our live site