

How can we reduce Health Insurance Charges?

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Who cares about this?



Big Idea

We need to reduce smoking habits and adopt better lifestyle choices because this can significantly reduce health insurance charges when seeking healthcare.



How did I come to that conclusion?



Dataset Snapshot

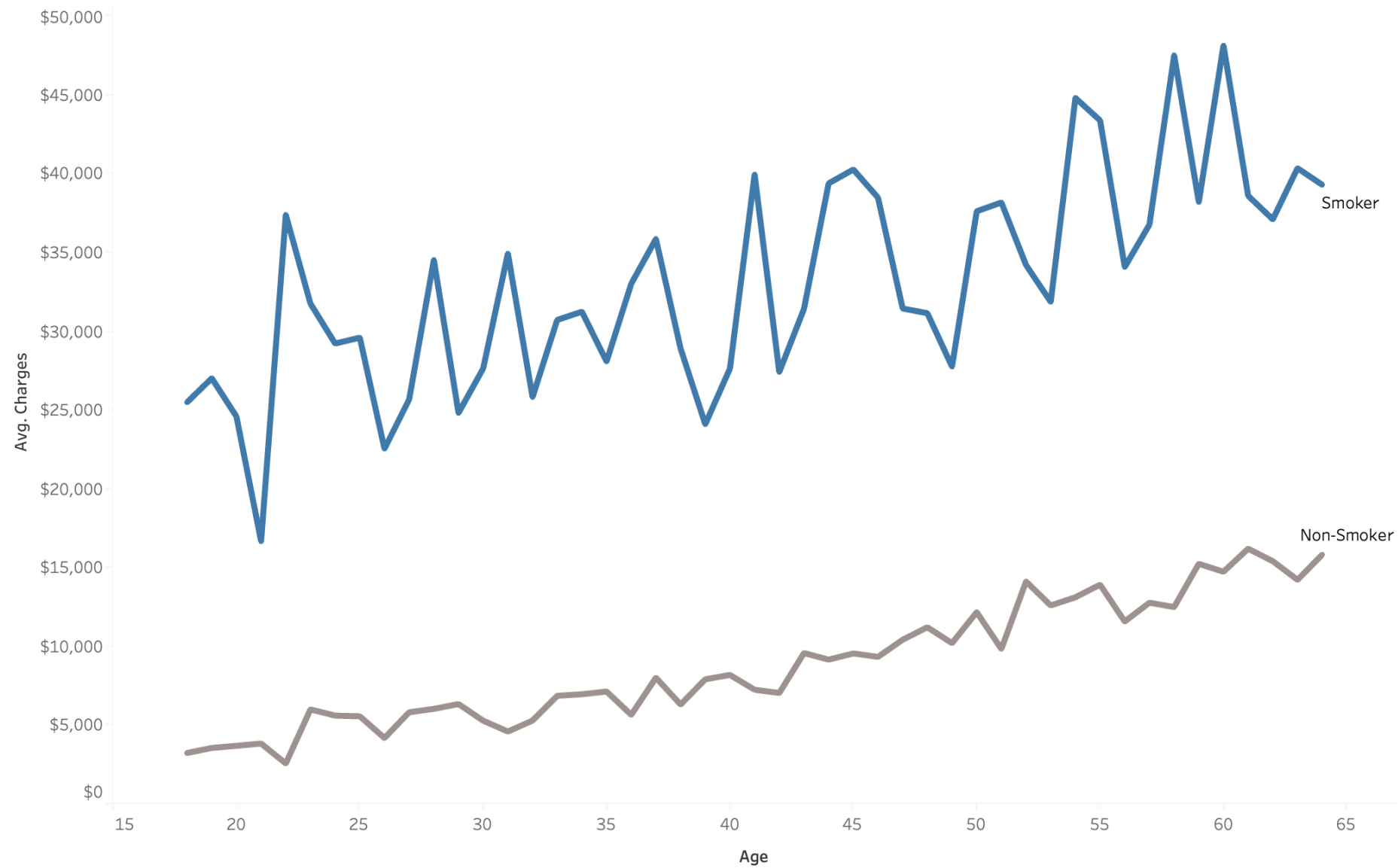
Health insurance charges dataset sourced from Kaggle containing over 1300 rows of data with columns such as age, smoker indicator, bmi, region, sex, number of children and charges accrued.

	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520

Why focus on smoking habits?



Health insurance charges increases steadily as people get older



Was the data skewed against smokers?

There are more non-smokers in the dataset

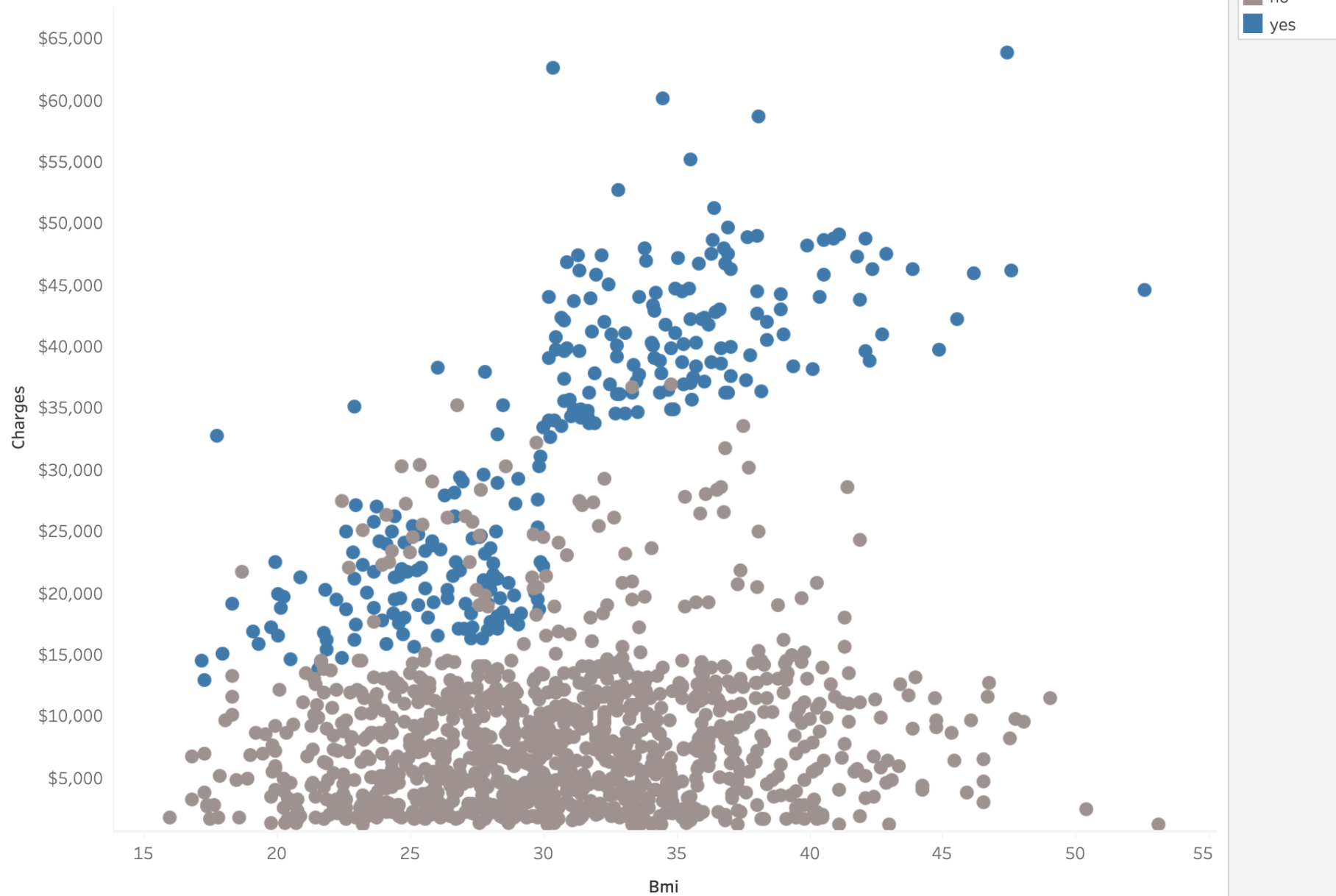


Smoking Impact on health insurance charges

Smokers have higher health insurance charges on average



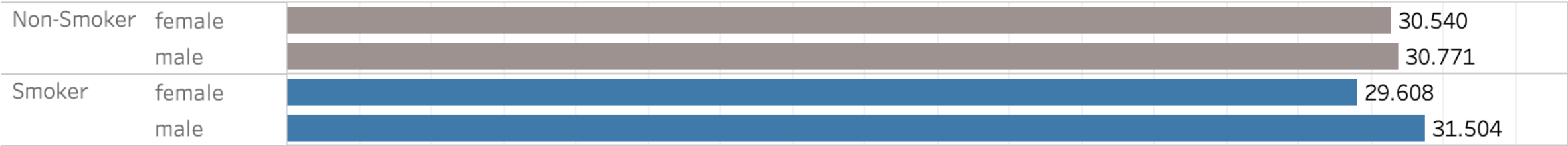
Smokers have higher insurance charges regardless of BMI



What about
body mass
index?

Furthermore...

Average BMI between Smokers and Non-Smokers does not vary significantly by Sex



Take Action!

1. **Benefit:** Improving lifestyle habits and reducing smoking habits will improve health and reduce the need to frequently visit the hospital or incur higher charges.
2. **Risk:** One might incur higher health insurance expenses with unchanged behavior.

Thank You!

