Quit

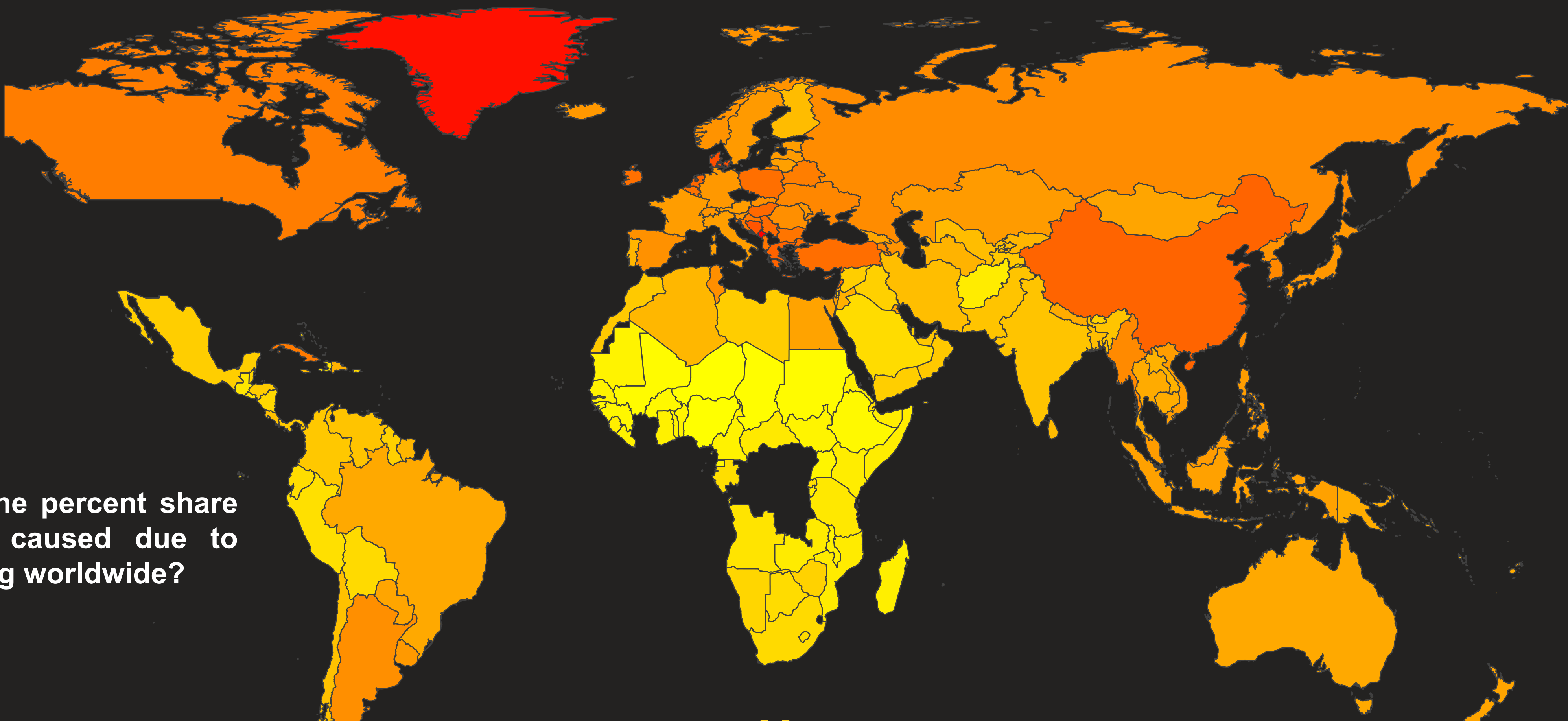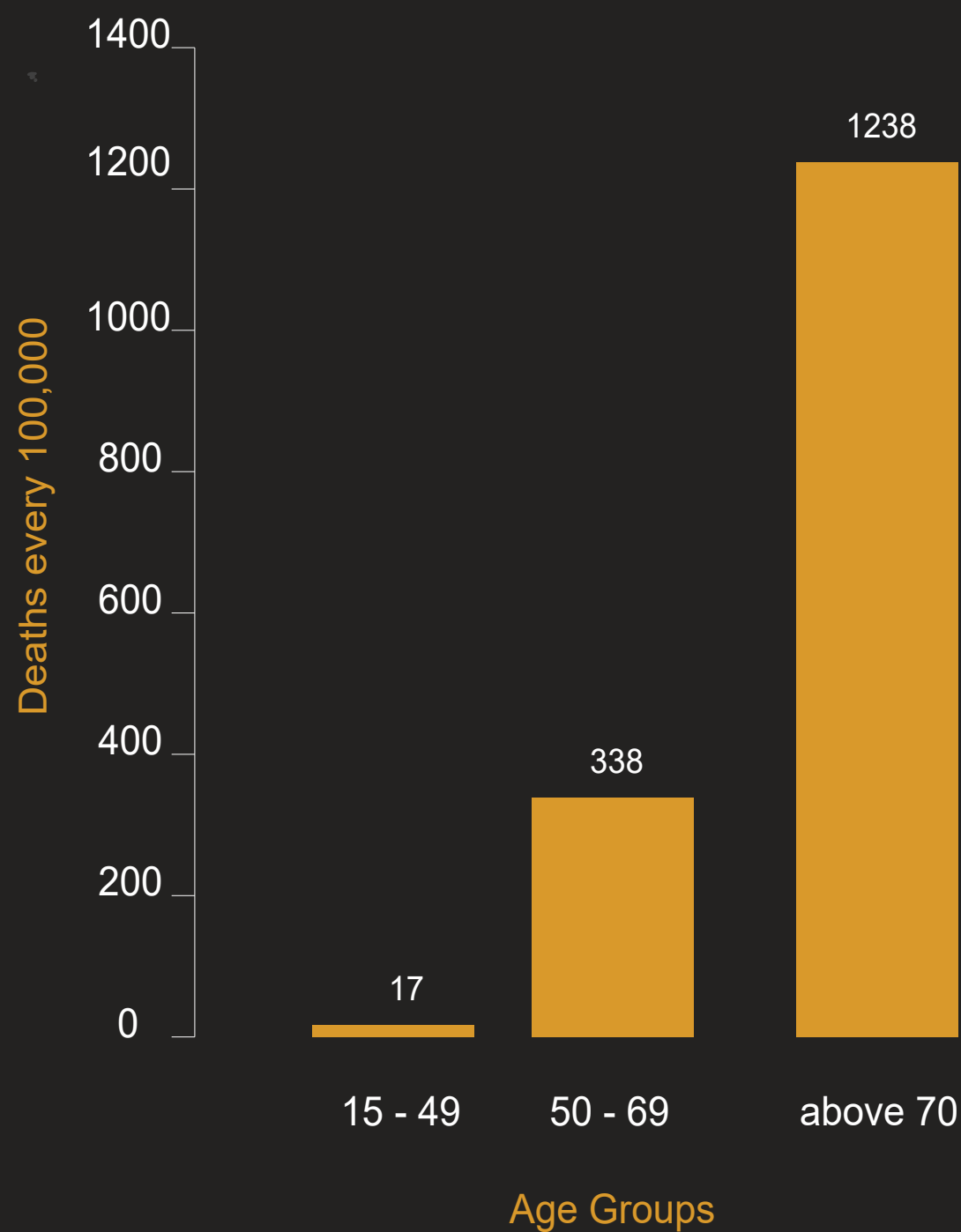## BEFORE IT KILLS YOU

By Shripad Laddha for IST 719, Spring 2021

It's never too late to quit smoking. Quitting smoking now, will improve your health and reduces your risk of heart diseases, cancer, lung disease, and other smoking related illnesses. This poster will give relevant information on deaths due to smoking and how insurance varies for smokers vs non smokers. It also discusses how countries restrain smoking.

The targeted audiance is smokers, doctors and policy makers who want to keep close eye on smoker's data and want to spread awareness as well. Lets dive in !
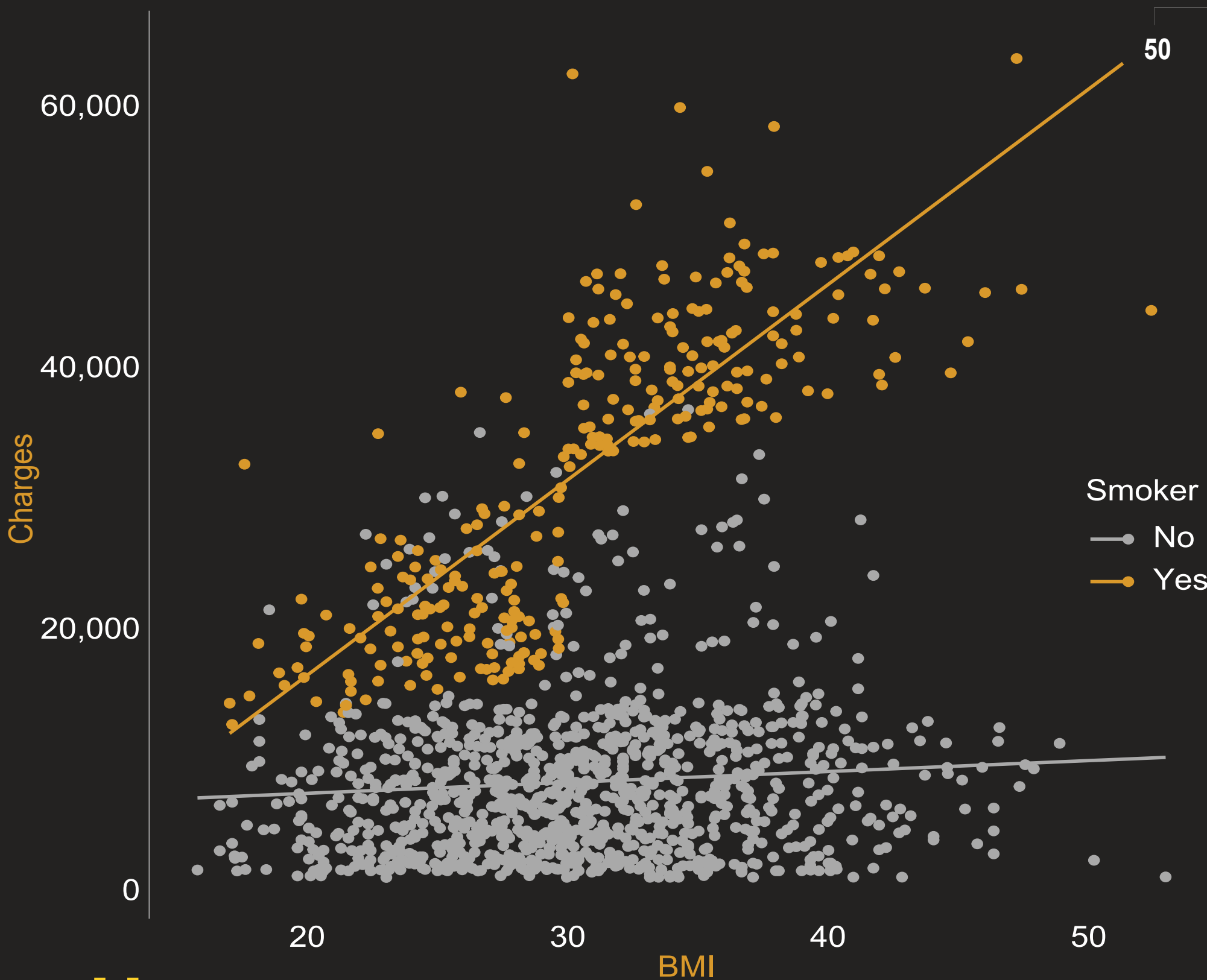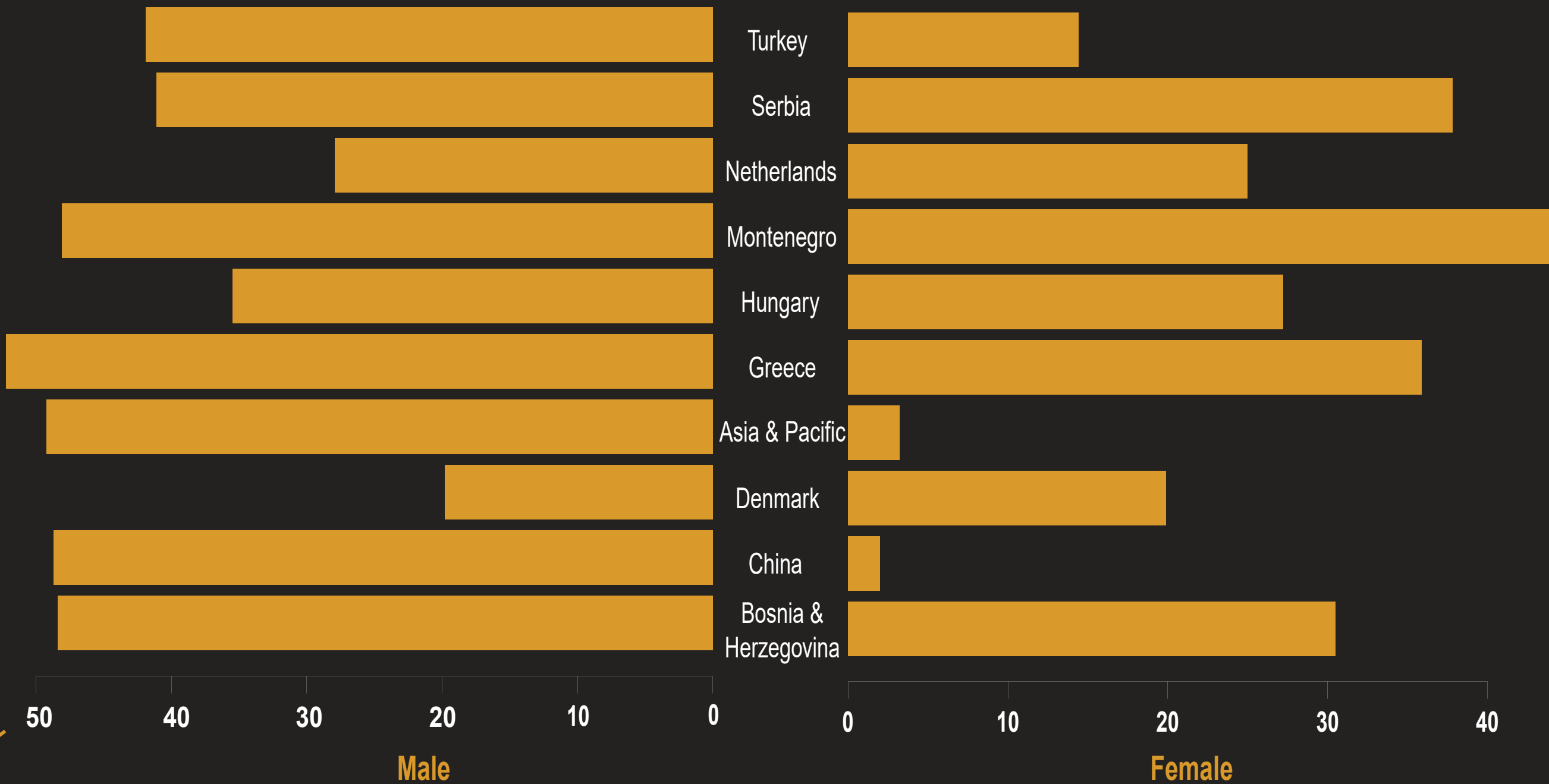
Percent share of deaths in 2015

25
20
15
10
5

What is the percent share of deaths caused due to smoking worldwide?

Deaths every 100,000

1400
1200
1000
800
600
400
200

17 — 15 - 49
338 — 50 - 69
1238 — above 70

Age Groups

What is the age group of people belonging to top 10 countries by death in 2015?

How does death vary with respect to gender for top 10 countries in 2015?

Turkey
Serbia
Netherlands
Montenegro
Hungary
Greece
Asia & Pacific
Denmark
China
Bosnia & Herzegovina

50 40 30 20 10 0   0 10 20 30 40

Male   Female

Charges

60,000
40,000
20,000
0

20   30   40   50

BMI

Smoker
No
Yes

How are charges affected by BMI and smoker status?

How do insurance charges vary according to smoking status?

Density

0.8
0.6
0.4
0.2
0.0

0   20,000   40,000   60,000
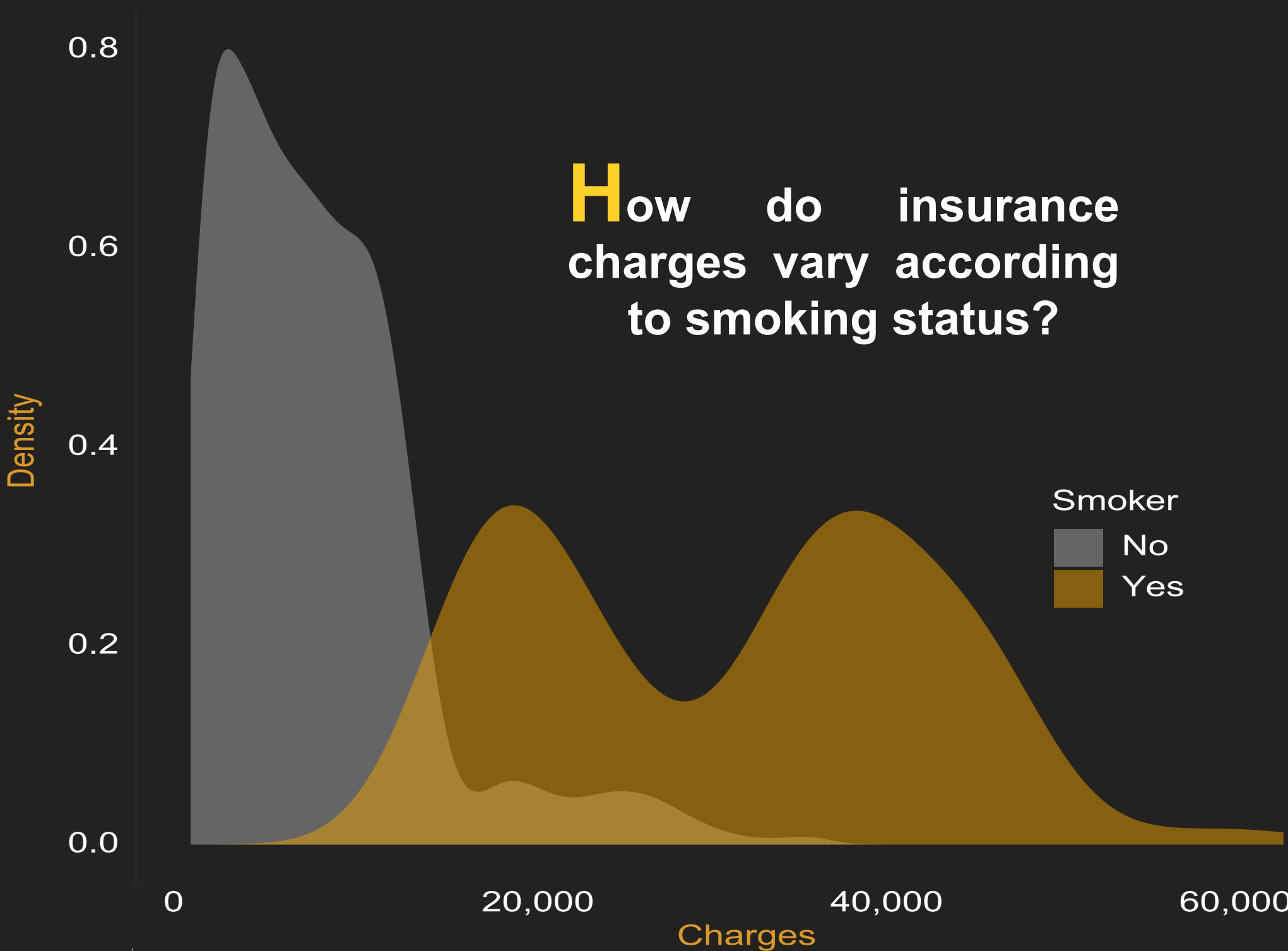
Charges

Smoker
No
Yes

INSIGHTS:
- People above 70 years have high risk of death due to smoking.
- Death rate of females due to smoking is comparitively less.
- For smokers, BMI and insurance charges are directly proportional but for non-smokers, charges remain almost constant even if BMI increases.
- Insurance charges for smokers is high, i.e 20k to 40k.
- To reduce the use of cigarettes, countries impose heavy taxes.
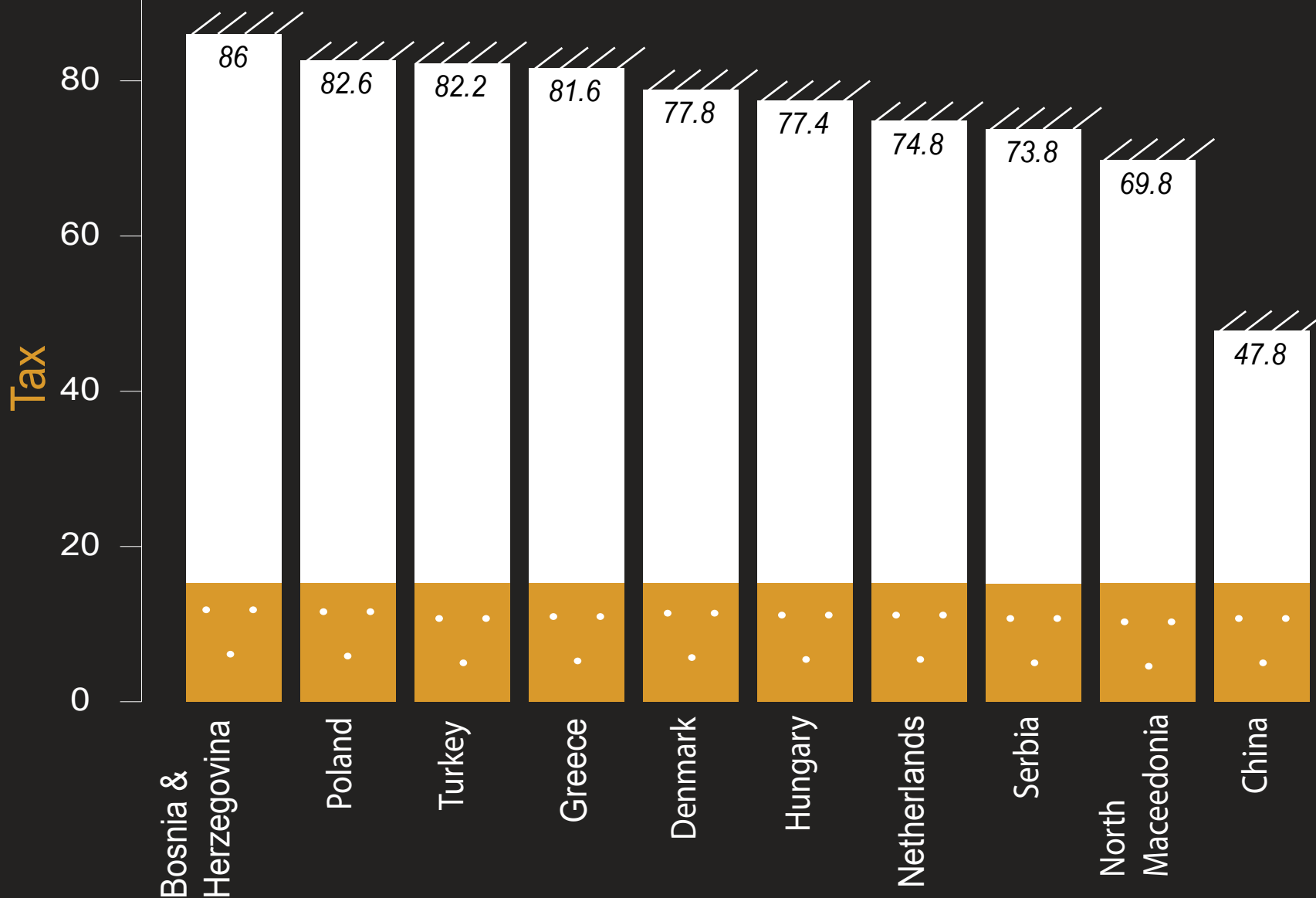
ABOUT DATA:
Data description: I have used multiple sources of data to make plots. All combined they add to 31 attributes and 61,710 tuples. Some of the main columns were year, country, death rate, gender, charges and tax percent. Performed aggregations at different levels to develop charts.
Data Source: ourworldindata.org and Kaggle
R - Packages used: ggplot2, dplyr and maps

Tax

80
60
40
20
0

86 — Bosnia & Herzegovina
82.6 — Poland
82.2 — Turkey
81.6 — Greece
77.8 — Denmark
77.4 — Hungary
74.8 — Netherlands
73.8 — Serbia
69.8 — North Macedonia
47.8 — China

What are the taxes as a percent of cigarette price, laid upon by 10 highest death countries in 2016?