

Dashboard overview



Quick measure

Overview

Demographic insights

BMI and Medical cost

Regional insights

Health Risk Analysis

region

northeast

northwest

southeast

southwest

smoker

no

yes

gender

female

male

Avg. Medical charges

\$13.27K

Total medical charges

\$17.76M

total individuals

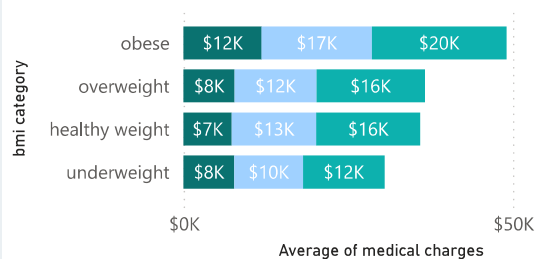
1338

Smoker percentage

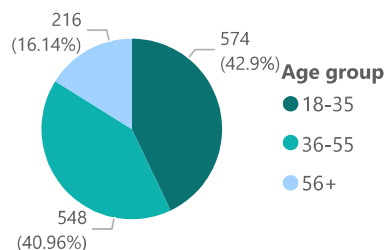
20.48%

Average of medical charges by bmi category and Age group

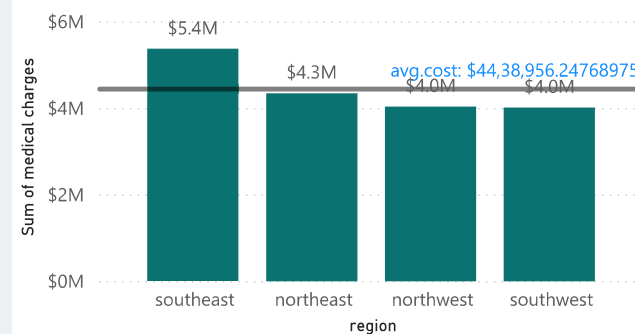
Age group ● 18-35 ● 36-55 ● 56+



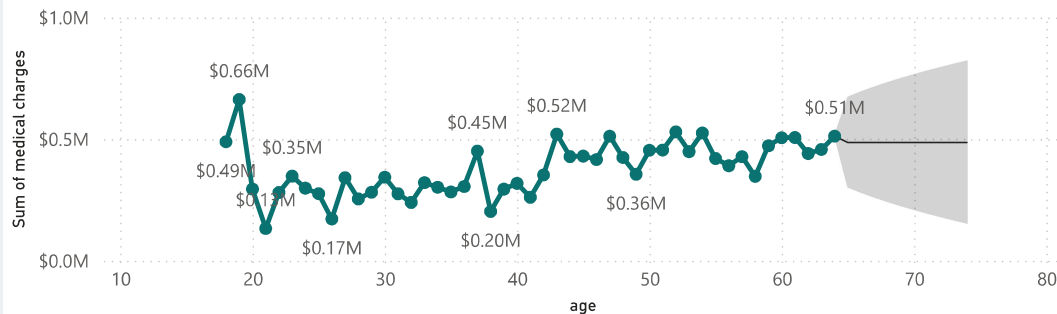
Count of people by Age group



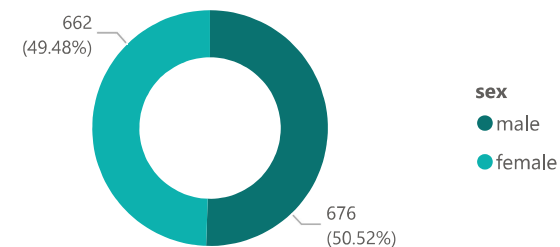
Sum of medical charges by region



Sum of medical charges by age



Count of gender and Sum of medical charges by sex



Demographic insights



Quick measure

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Demographic insights

BMI and Medical cost

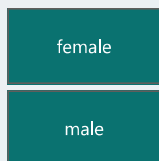
Regional insights

Health Risk Analysis

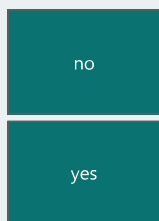
Age group



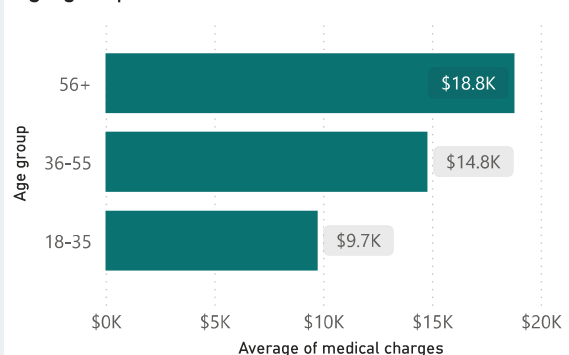
sex



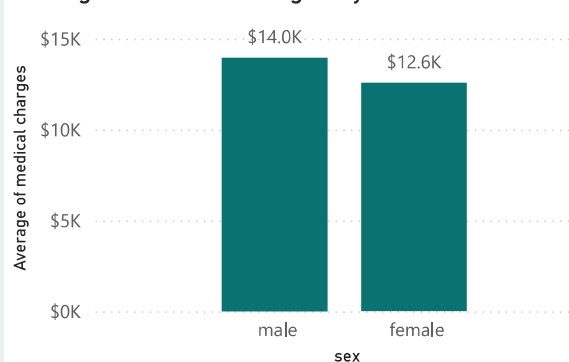
smoker



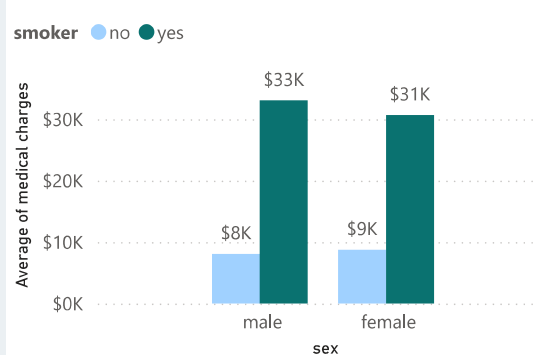
Average of medical charges and Count of age by Age group



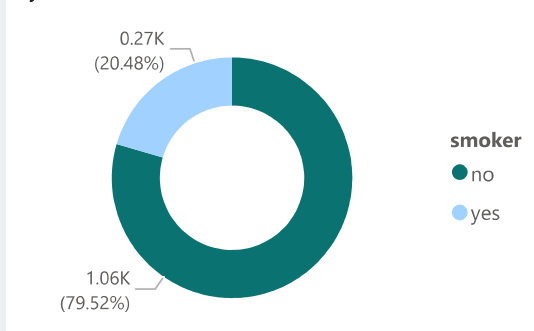
Average of medical charges by sex



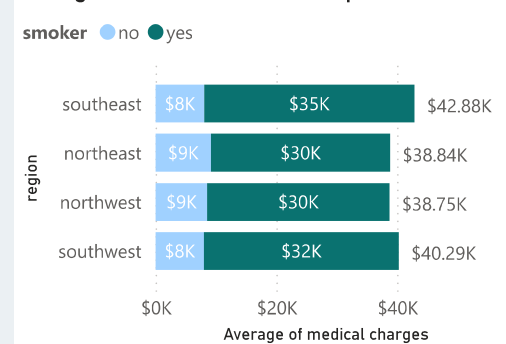
Average of medical charges by sex and smoker



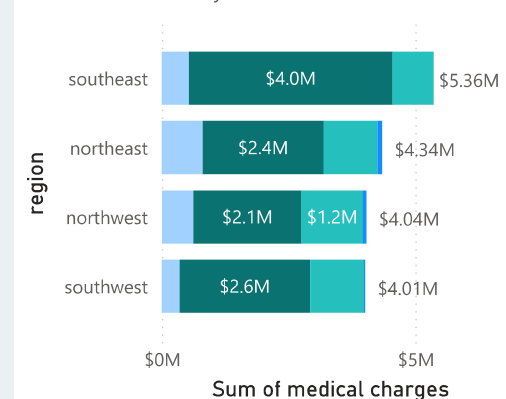
Count of age and Average of medical charges by smoker



Regional variations of Average of medical charges in BMI and Smoker prevalence



bmi cate... healthy w... obese overwei...



BMI and Medical costs



Quick measure

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BMI and Medical cost

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Health Risk Analysis

bmi category

healthy weight

obese

overweight

sex

female

male

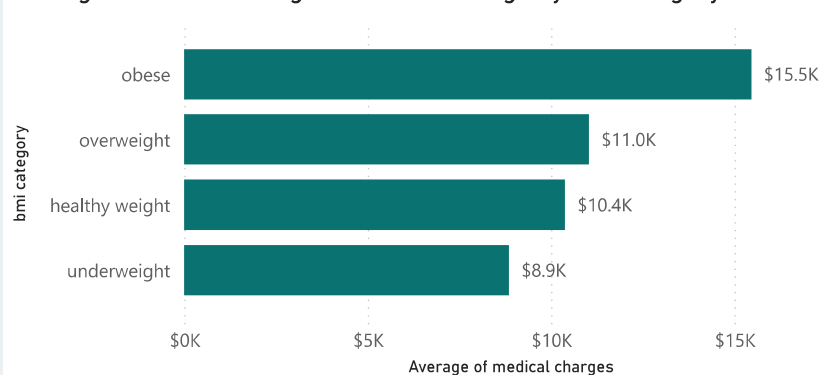
region

northeast

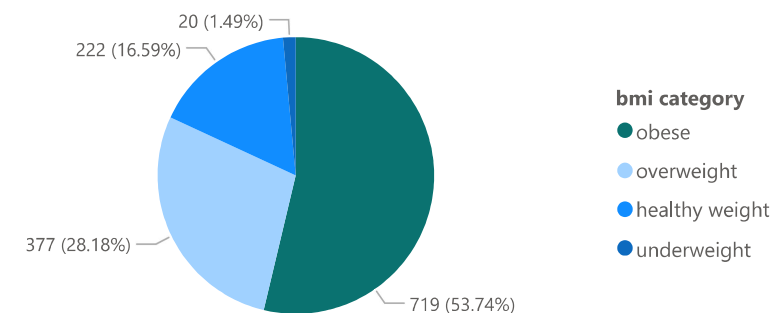
northwest

southeast

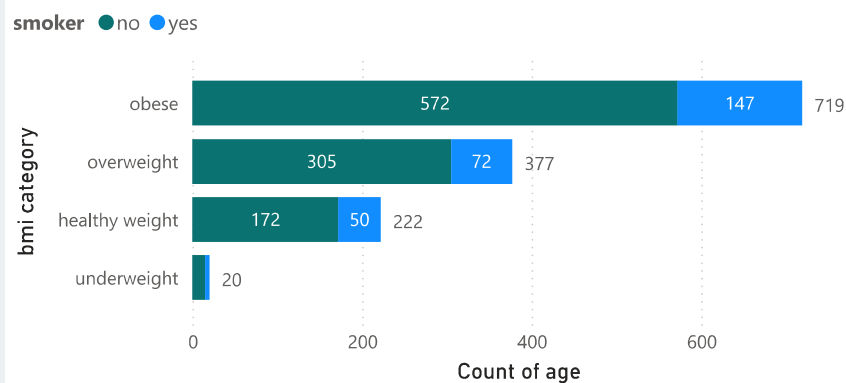
Average of medical charges and Count of age by bmi category



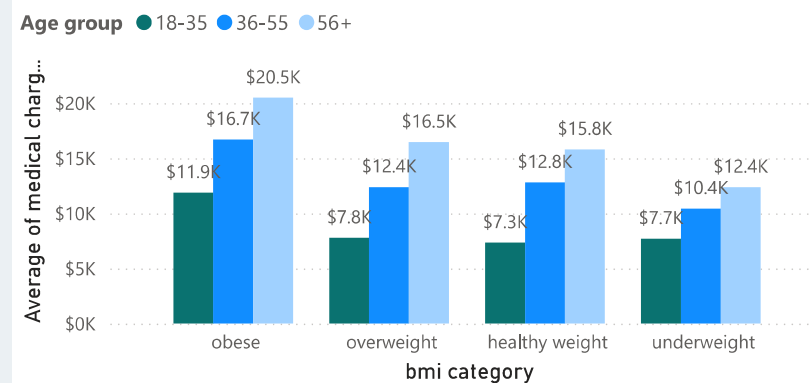
Count of individuals by bmi category



Count of individuals by bmi category and smoker



Average of medical charges by bmi category and Age group



Regional insights



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region



northeast

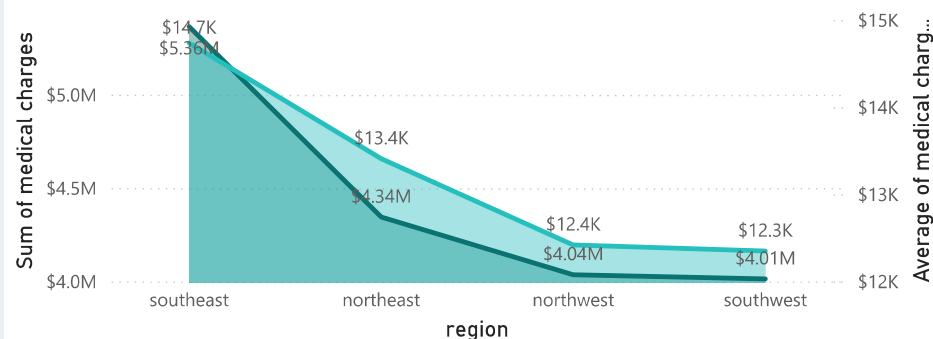
northwest

southeast

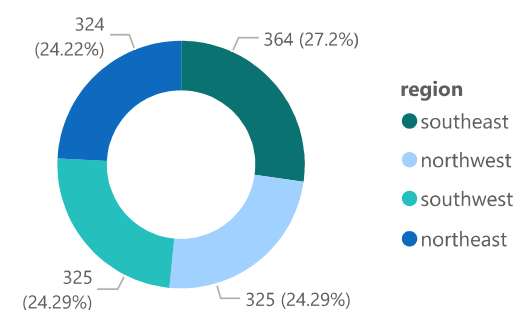
southwest

total and average medical charges by region

Sum of medical charges Average of medical charges

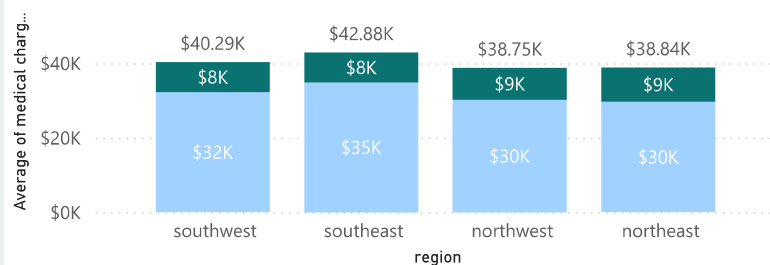


Count of age and Average of medical charges by region



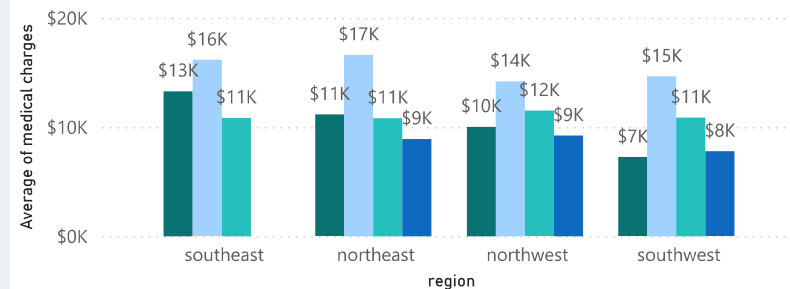
Average of medical charges and Count of age by region and smoker

smoker yes no



Average of medical charges by region and bmi category

bmi category healthy weight obese overweight underweight



Health Risk Analysis Report



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Health Risk Analysis

1. Demographic overview

***-Age group:** The majority of individuals fall into the 18-35(42.9%),but the 35-55 age group contributing significantly to the medical charges.

- Individuals aged 56+ have the highest average charges, likely due to the age related health risks.

***Gender :**Females represents 49.48% of the data set, while males represent 50.52%.
On average ,male individuals have slightly higher medical charge s compared to females.

2.Smoking impact

***Smoker prevalence:**20.48% of the individuals in the dataset are smokers . Smokers have an average medical charge of \$32,050.231,which is significantly higher than non-smokers(\$8,434.26829).

3.BMI Analysis

***BMI Distribution :**Obese(BMI>30) individuals accounts for the largest percentage (53.74%) and these category contributes the highest average medical cost of \$15,460.49 compared to the non-obese individuals.

***Correlation with charges :**Higher BMI is positively correlated with increased medical charges .

4.Regional insights

***Highest medical Charges:** Southeast region has the highest average medical charges ,driven by a highest percentage of smokers and obese individuals .

***Lowest medical charges :** South west region has the lowest average charges due to the healthier BMI distribution and fewer smokers when compared to the

Smoker Percentage
20.48%

Total Medical charges
\$17.76M

Obese percentage
53.74%

Avg.Medical charges
\$13.27K

Lowest cost region
southwest

Highest CostRegion
southeast

Key Drive

Smoker status :

Smoker incur higher charges on average than non smokers

Obesity:

Obese individuals contribute significantly to higher medical charges

Age: 36+(older age groups) see a sharp increase in average medical charges .
18-35 seems highest number of individuals in the dataset.

Recommendations

1.Focus On Smoking Cessation Programs: Target regions with higher smoking prevalence to reduce long-term medical costs.

2.Age-related care: Tailor healthcare interventions for individuals aged 56+ to manage chronic conditions.

3.Promote Weight Management: Implement wellness programs focusing on reducing obesity in high-BMI regions.