

# Health survey analysis with PowerBI

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# Agenda

- Introduction.
- Dataset brief.
- Data dictionary.
- Questions:
  - ❶ Question 1: Table and insight fact to show age of participants and BMI.
  - ❷ Question 2: Which type of IBD tends to have sufferers of a higher BMI?
  - ❸ Question 3: Which type of IBD has more sufferers that smoke or previously smoked?
  - ❹ Question 4: Which type of IBD has more cancer sufferers?
  - ❺ Question 5: Which type of IBD has more heart disease sufferers?
  - ❻ Question 6: Which age group is most effected by Ulcerative colitis (diagnosis type 2 in dataset) ? (comparing male and female)

# Introduction

A survey conducted by a medical institution about some patients who suffer from Crohn's or Ulcerative colitis disease.

The institution asking for 6 visuals clarifying some insights about the survey.

# Dataset brief

Dataset is made up of around 33,000 patients who answered a survey about their health all participants suffer from either Crohn's or Ulcerative colitis disease(both IBD diseases).

Dataset contains information of patient's gender, BMI<sub>(weight scale)</sub>, diagnosis<sub>(type of disease)</sub>, hospital admission, age range, smoker, past smoker, diet and cancer or heart disease.

# Data dictionary

Table 1

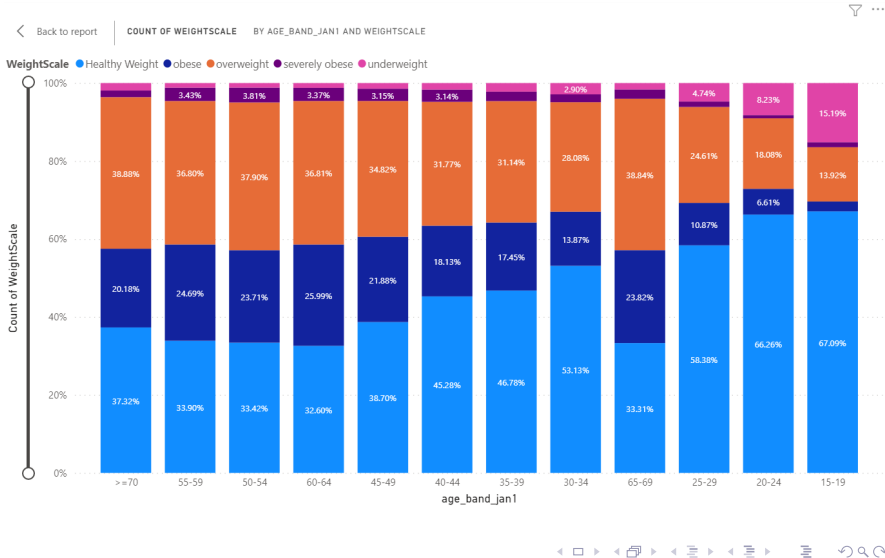
Information	Fieldname in dataset	Coding	
Bmi	bmi		
Approx. age	age_band_jan1		
Gender	gender	1=male, 2=female	
Specific diet type	diet_preference		
Type of IBD affected by	diagnosis	1, Crohn's 2, UC 3, IBD - type unspecified (IBDU) 4, Other	
Hospital for treatment	hosp_admin	1, Yes   2, No   3, Not known	
Cancer - yes/no	cancer		
heart disease - yes/no	heart_disease		
Current or past Smokers – yes/no	smoker past_smoker		

# Questions

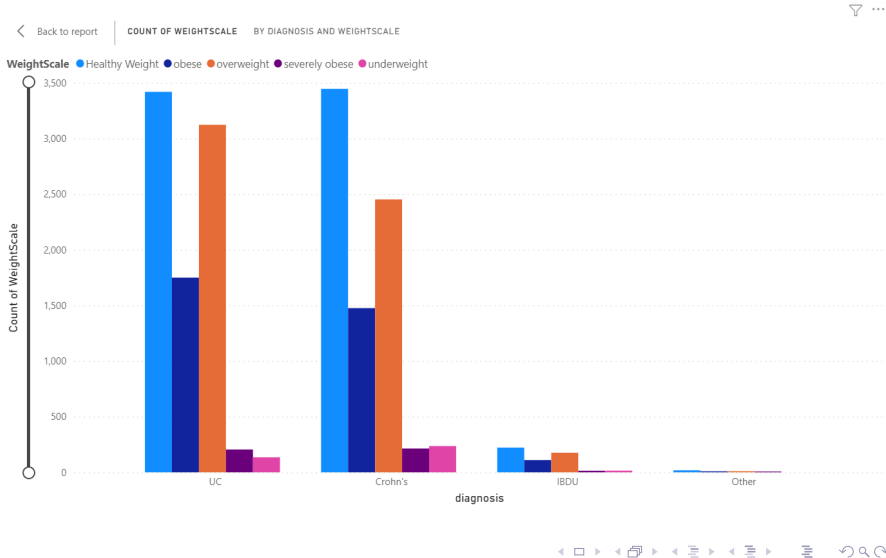
## Questions asked:

- Question 1: Table and insight fact to show age of participants and BMI.
- Question 2: Which type of IBD tends to have sufferers of a higher BMI?
- Question 3: Which type of IBD has more sufferers that smoke or previously smoked?
- Question 4: Which type of IBD has more cancer sufferers?
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- Question 6: Which age group is most effected by Ulcerative colitis (diagnosis type 2 in dataset) ? (comparing male and female)

## Question 1: Table and insight fact to show age of participants and BMI.

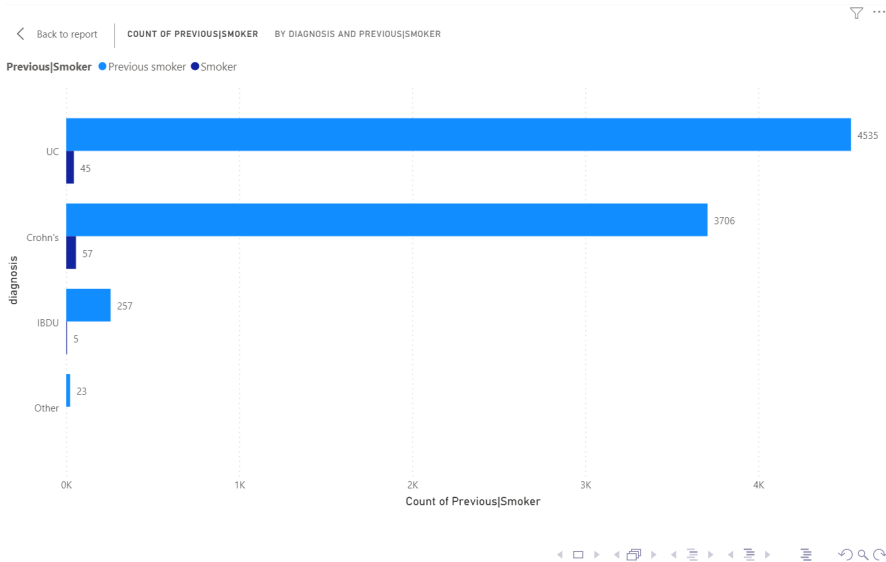


## Question 2: Which type of IBD tends to have sufferers of a higher BMI?

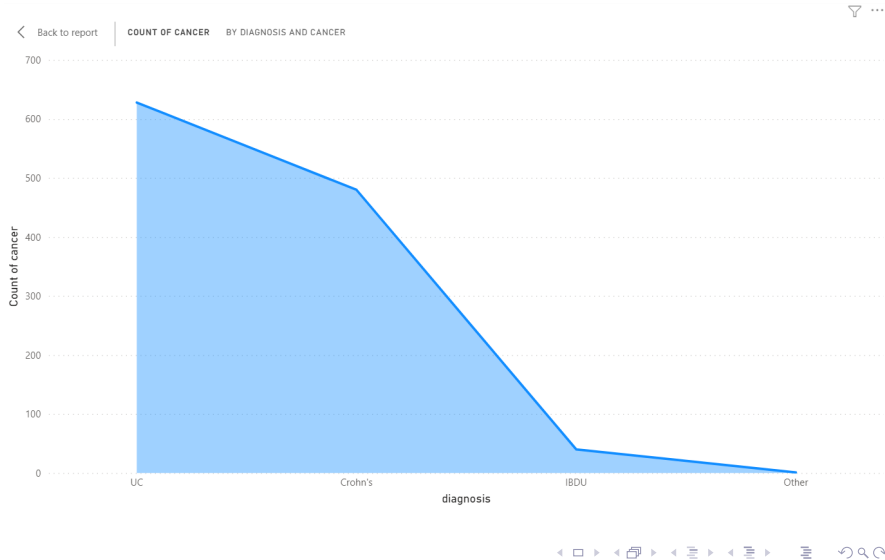




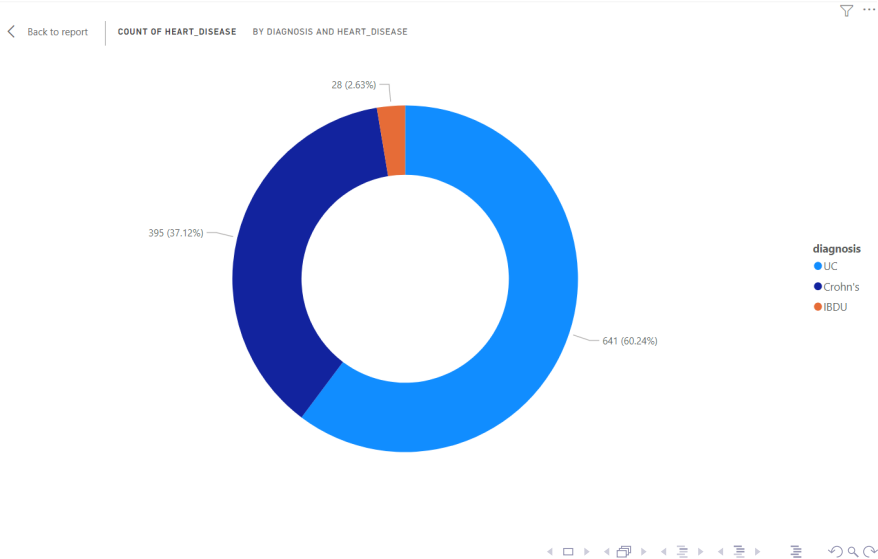
### Question 3: Which type of IBD has more sufferers that smoke or previously smoked?



#### Question 4: Which type of IBD has more cancer sufferers?



## Question 5: Which type of IBD has more heart disease sufferers?



## Question 6: Which age group is most effected by Ulcerative colitis (diagnosi type 2 in dataset) ? (comparing male and female)

