

# Health survey analysis with PowerBI

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# Agenda

- ➊ Introduction.
- ➋ Data dictionary.
- ➌ Table and insight fact to show age of participants and BMI.
- ➍ Which type of IBD tends to have sufferers of a higher BMI?
- ➎ Which type of IBD has more sufferers that smoke or previously smoked?
- ➏ Which type of IBD has more cancer sufferers?
- ➐ Which type of IBD has more heart disease sufferers?
- ➑ Which age group is most effected by Ulcerative colitis (diagnosis type 2 in dataset) ? (comparing male and female)

# Introduction

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 (weight scale), diagnosis (type of disease), hospital admission, age range, smoker, past smoker, diet and cancer or heart disease.

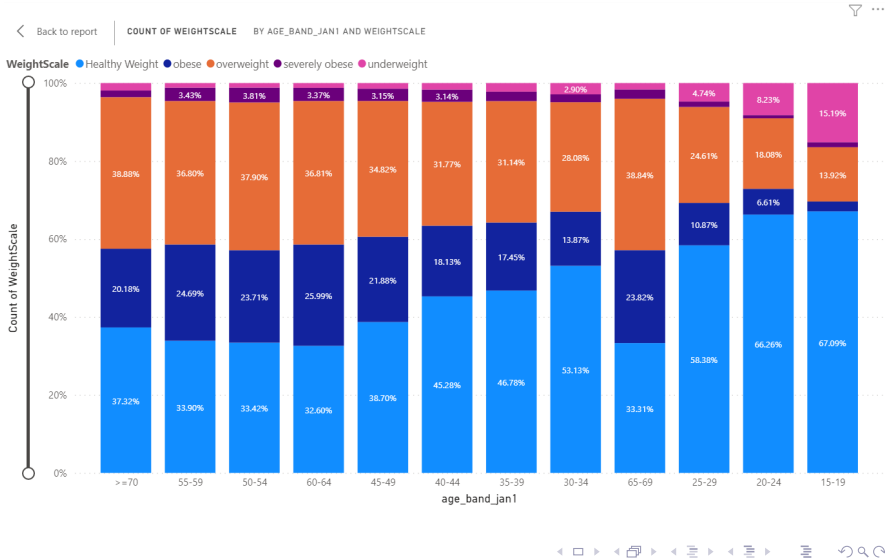
Visuals needed to spot some insights.

# Data dictionary

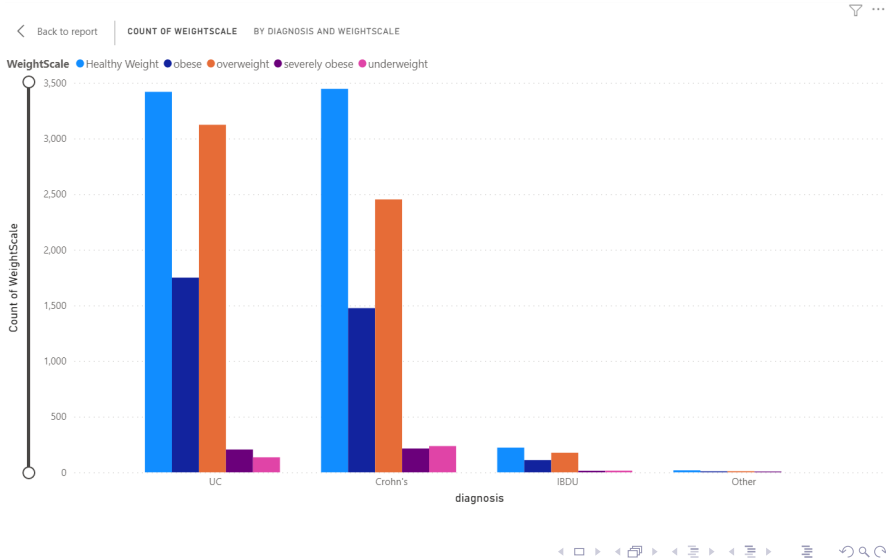
Table 1

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		

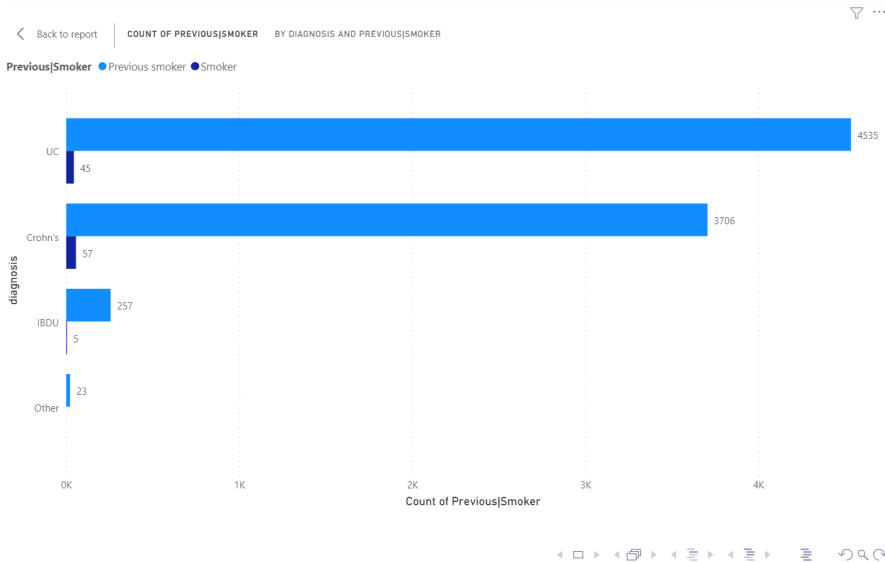
## Table and insight fact to show age of participants and BMI.



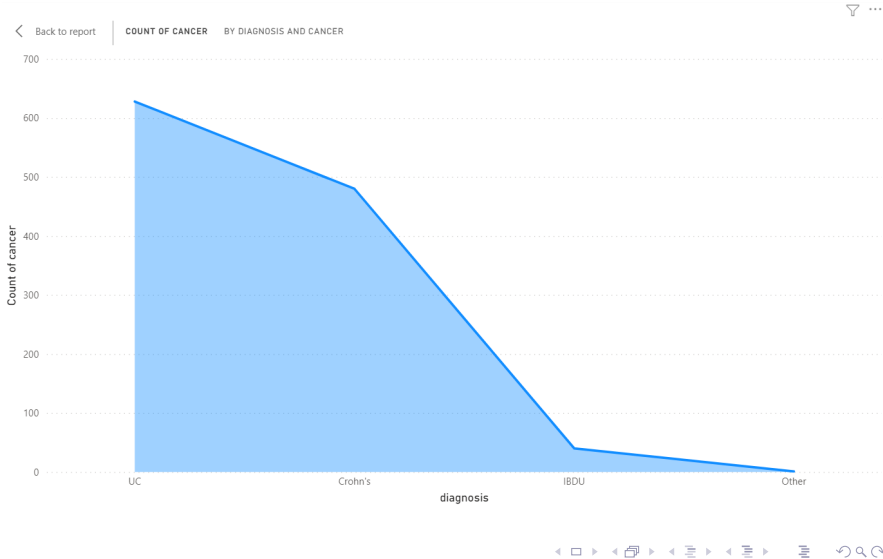
## Which type of IBD tends to have sufferers of a higher BMI?



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



## Which type of IBD has more cancer sufferers?

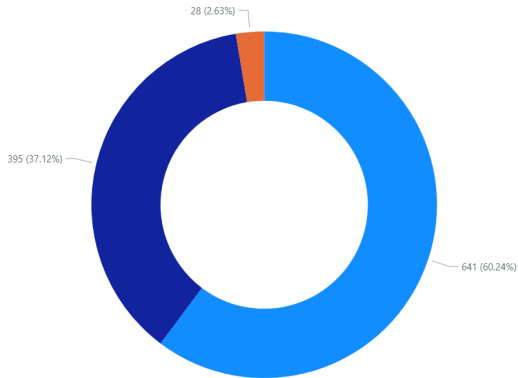




## Which type of IBD has more heart disease sufferers?

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COUNT OF HEART\_DISEASE BY DIAGNOSIS AND HEART\_DISEASE



diagnosis

UC

Crohn's

IBDU

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

