

FLAREDOWN

Decode your chronic illness.

A decorative graphic at the bottom of the slide consisting of a grid of colored squares. The grid is 10 columns wide and 4 rows high. The colors of the squares are purple, orange, teal, and light blue, arranged in a repeating pattern that creates a sense of depth and movement.

Team September '23
Southern Careers Institute

The team



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Sales in Data Analytic
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Chronic Illness: Symptoms, Treatments, and Triggers

An Exploration and Analysis of a Dataset

Purpose:

To increase understanding of chronic illness.

To answer the following questions:

- ❖ What can this dataset tell us about nausea in relation to age, gender and geographical location?
 - ❖ What can we learn about Crohn's Disease in this dataset?
 - ❖ What can this dataset tell us about anxiety and depression in relation to age?
-



Why is this important?



It affects everyone.

- ❖ Caregivers
- ❖ Loved ones
- ❖ The patient.

The Team has firsthand and vicarious experience.



Questions For Analysis - Nausea

What countries have the highest instances of Nauseau?



What is the average age of those who report Nauseau as a condition? What is the average age of those who report Nauseau as a symptom?

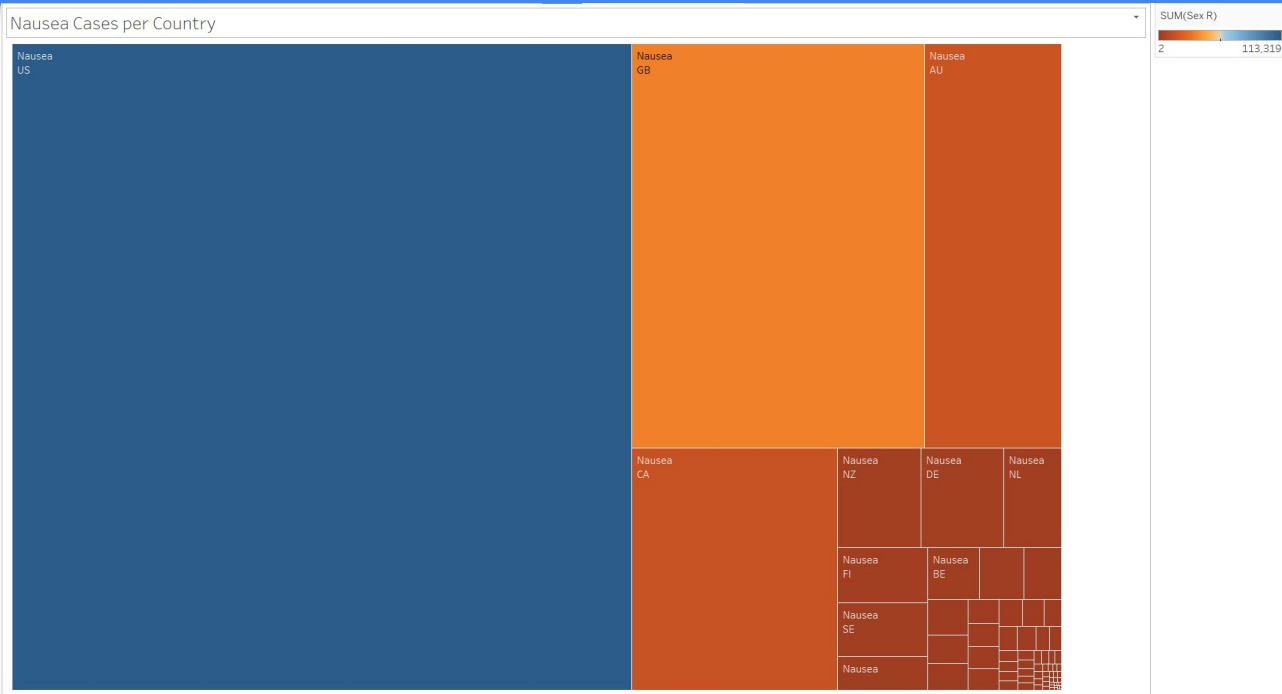
What gender has the highest reported instance of Nausea?



Reported Nausea Cases Per Country

The countries that have the highest instances of Nausea per reported genders are:

- ❖ United States 
- ❖ Great Britain 
- ❖ Australia 
- ❖ Canada 



Nausea as a Condition and Symptom

Nausea was reported as both
a Condition and a Symptom.

The average reported age for Nausea as a Condition
35 years old.

The average reported age for Nausea as a Symptom is 31 years old.

Nausea Avg. Age per Condition/Symptom

Trackabl..	Trackabl..	
Nausea	Condition	35.565
	Symptom	31.749



Nausea Per Gender Globally

Females reported the highest number of Nausea cases per gender globally.



Nausea per Gender per Country



Questions For Analysis - Crohn's Disease

What countries have the highest instances of Crohn's Disease?

What is the average age of those who report Crohn's disease as a condition? What is the average age of those who report Crohn's disease as a symptom?

What gender has the highest reported instance of Crohn's disease?

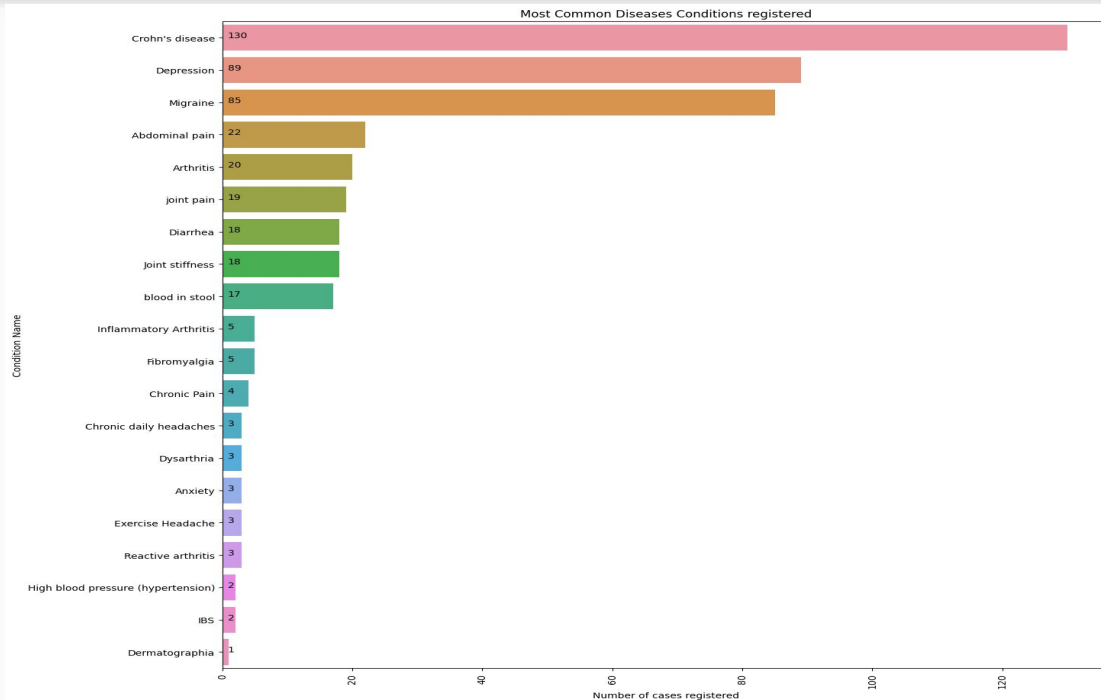
HBI: the Harvey Bradshaw Index is a standardized metric to gauge the severity of Crohn's disease specifically, often used in evaluation of therapies. Patients with Crohn's disease who scored 3 or less on the HBI are very likely to be in remission according to the CDAI. Patients with a score of 8 to 9 or higher are considered to have severe disease.



Reported Conditions Associated with Crohn's Disease

Top five conditions associated with Crohn's Disease

- ❖ Depression
- ❖ Migraine
- ❖ Abdonimal Pain
- ❖ Arthritis
- ❖ Joint Pain



Crohn's Disease - Average Age

count	2349.000000
mean	36.650064
std	6.322479
min	18.000000
25%	33.000000
50%	40.000000
75%	40.000000
max	54.000000

The average age of people with Crohn's Disease = 37

The youngest person in our dataset with the disease = 18

The oldest person in our dataset with the disease = 54



Crohn's Disease Per Gender

Females reported the highest number of Crohn's Disease cases. Also this disease was only reported in the US in our dataset.

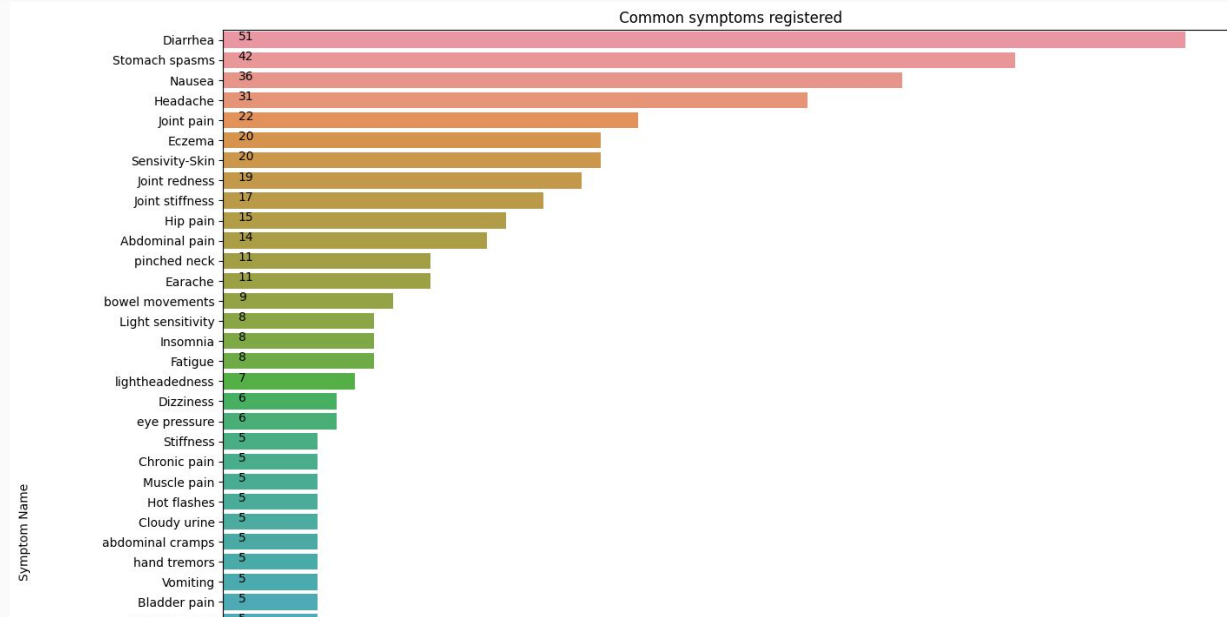
Number_of_Users	
Doesnt_say	0
Others	1
Male	0
Female	11



Symptoms Associated w/ Crohn's Disease

Total number of unique symptoms = 53

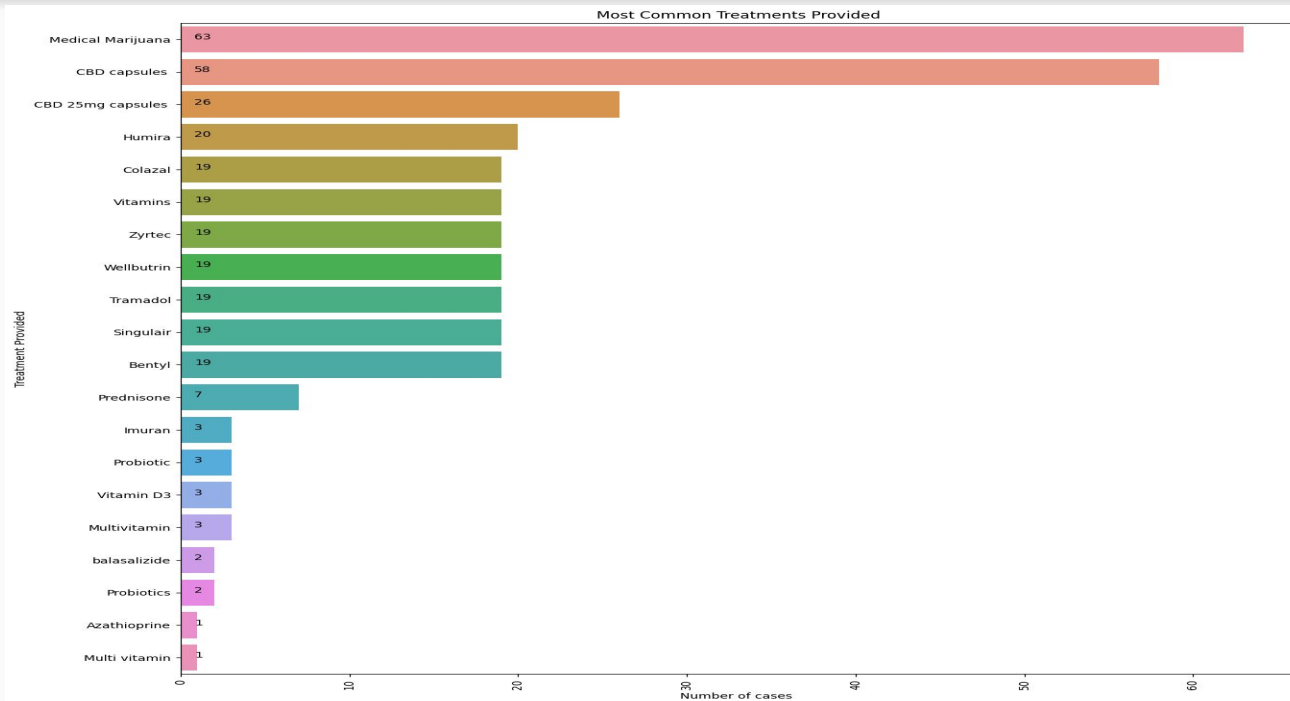
- ❖ Diarrhea
- ❖ Stomach Spasms
- ❖ Nausea
- ❖ Headache
- ❖ Joint Pain



Treatments Associated w/ Crohn's Disease

Total number of unique treatments is 21. Top five treatments associated with Crohn's Disease

- ❖ Medical Marijuana
- ❖ CBD capsules
- ❖ Humira
- ❖ Colazal
- ❖ Vitamins



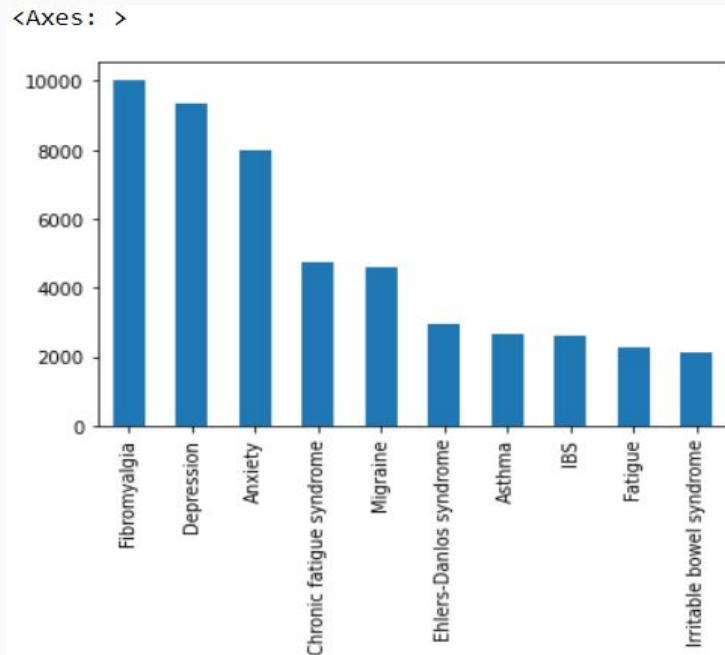
Mental health and illness

- The mind and brain are complex
- Understanding has improved
- Treatment is encouraged and readily available
- How does this affect the age demographic for seeking treatment?



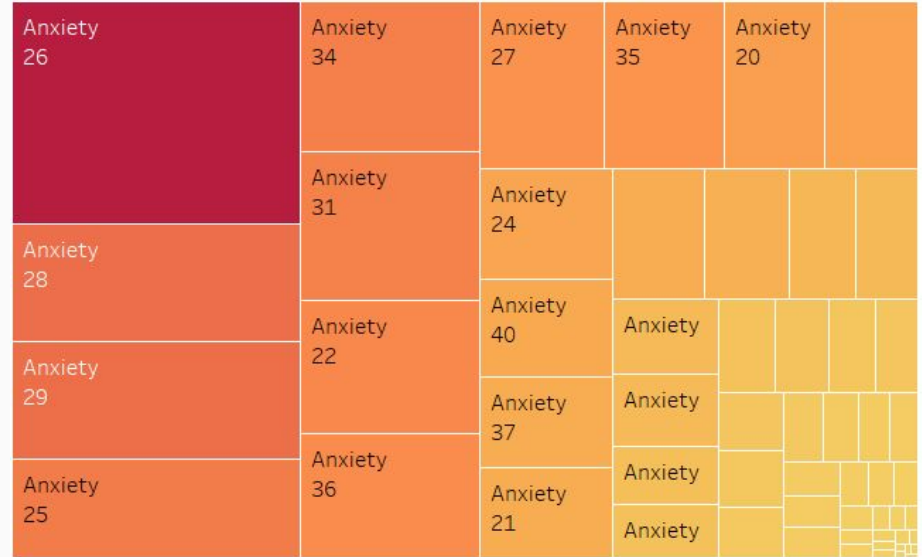
Focus on Anxiety and Depression

- 10 most common chronic illnesses in dataset
- Anxiety and Depression 2 most common mental health diagnoses.
 - 7995 people suffer from Anxiety disorders
 - 9335 people are diagnosed with Depression
 - Many other experience symptoms of anxiety and depression temporarily or intermittently.



Anxiety by age

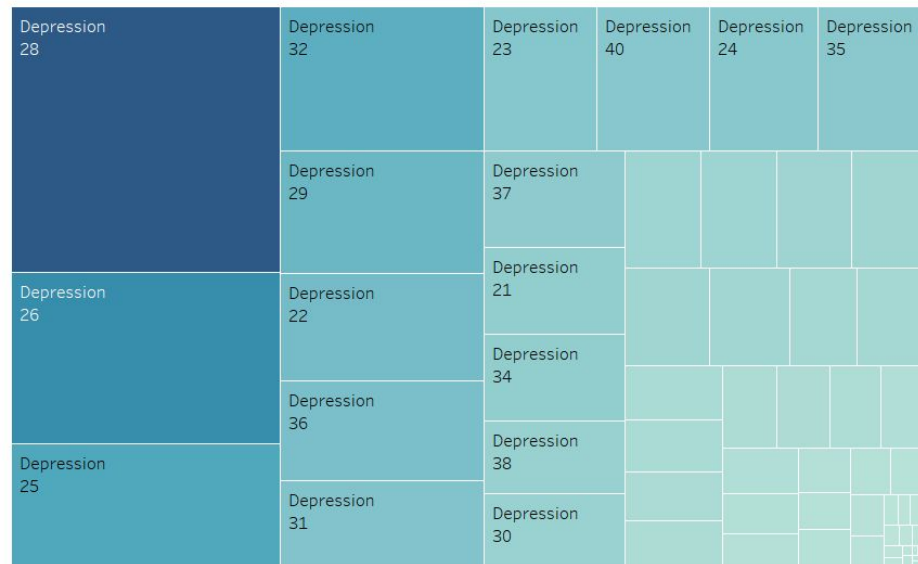
- Age of 26 most frequent diagnosis
- Most common age range mid 20s to mid 30s
- Anxiety can affect anyone at any age



Depression by age

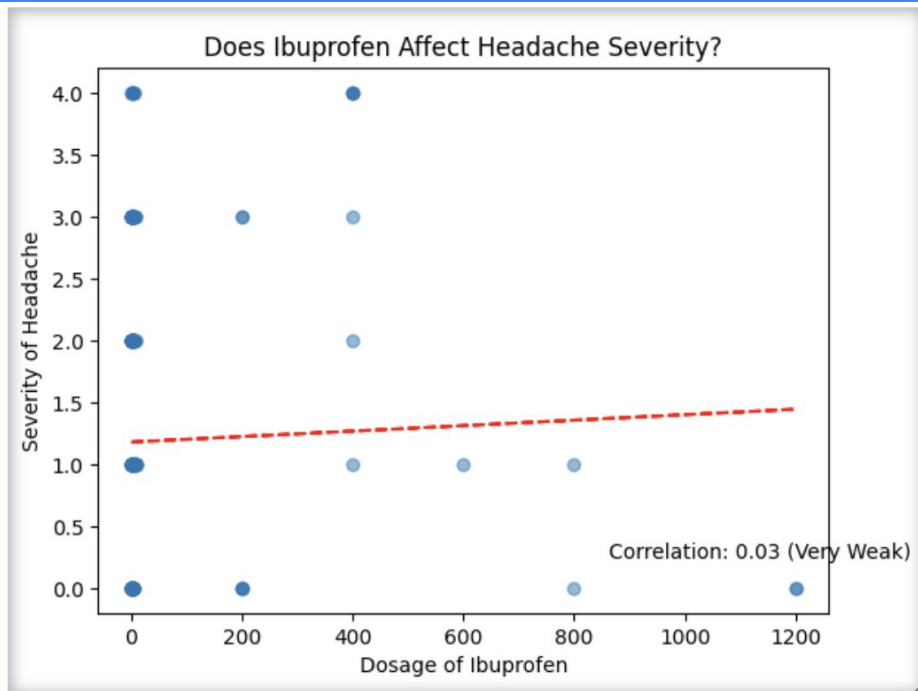
- Most frequently diagnosed at 28
- Most commonly affects mid 20s to mid 30s
- Not limited to above age range
- Similar to diagnoses of Anxiety

Depression by Age



Ibuprofen vs Nausea

- Users with Nausea that took Ibuprofen: 509
- "Based on our data, there's little evidence to suggest that Ibuprofen significantly impacts the severity of headaches."



Mental health assessment

- The average age across the board for dataset is 35
- Understanding and use of technology
- Changing views on mental health diagnoses and treatment
- A holistic approach



Summary

These are
just a few
examples.

Increase understanding

Lead to more effective
treatments

So much more to learn

Questions?

