The Data Nutrition Label:

Alert Count	4*
Completeness	0
Provenance	1
Misrepresentation	1
Collection	2
Self Reporting Inaccuracy	1
Inaccurate Predictions	1
Description	0
Composition	1
Ethnicity Bias	1

Badges

Multi-source Data

Non-commercial License

About Humans

Alert Count by Category
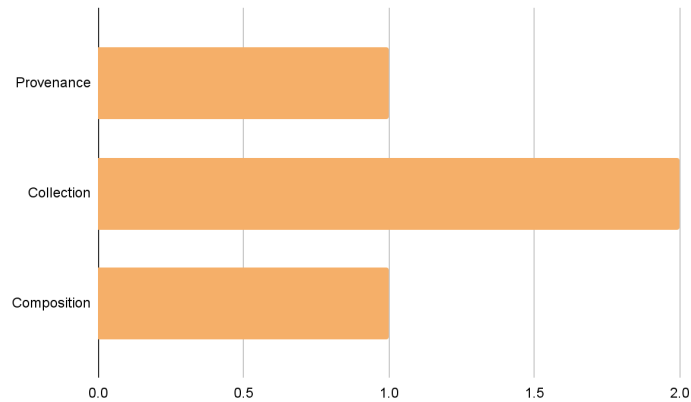
Alert Count by Potential Harm
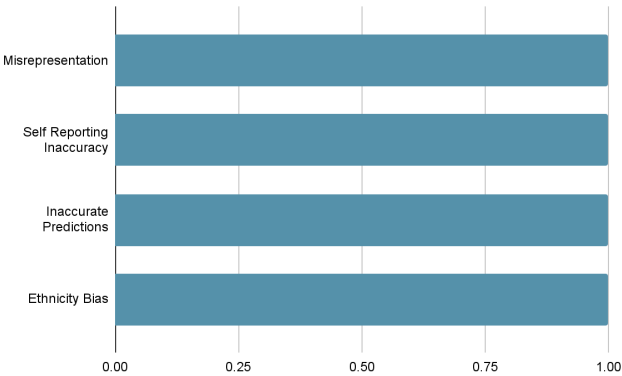
DATA
NUTRITION
PROJECT

What is this label? ∨

Dietary Composition with Mental Disorder Cases

Description

The dataset is a combination of dietary compositions by commodity group and estimated cases of mental illness throughout the years. It integrates nutritional data with epidemiological data to potentially explore correlations between diet and mental health outcomes.

Keywords

Nutrition   Mental Health   Epidemiology   Psychology

Dietary Composition

How to use it?

👍 Intended Use ∧

- **Intended Domain.** public health
- **Intended Domain.** nutrition
- **Intended Domain.** epidemiology
- **Intended Domain.** healthcare analytics
- **Intended Use.** Study the correlations or associations between dietary habits and the prevalence or incidence of various mental health disorders.
- **Other Responsible Uses.** Inform public health policies and create targeted nutritional programs

⚠ Restrictions on Use ∧

- no

☑ Known Uses ∧

⚠ Do Not Use ∧

- **Domain.** n/a
- **To make unsupported individual clinical diagnoses or to stigmatize certain dietary habits without proper context and professional health advice..** It is not accurate for healthcare

People

Owned by ∧

Amy Chung
University of Washington

Sophia Zuo
University of Washington

Ruifeng Tian
University of Washington

Sena Mohammed Birka
University of Washington

Created by	Amy Chung ∨
Maintained by	Amy Chung, Sophia Zuo & 2 others ∨
Funding	∨
Management	∨

Technical information

Publish Date	2024-02-18
Format	CSV

At a Glance ∨

About humans	Upstream sources	Technical review	Ethical review	Update frequency
Yes	Yes	Unsure	Unsure	Unsure

▦ Data values

What values are in each column?

Collection and Labeling Protocols

Data Imputation Protocols
n/a

Data Manipulation Protocols
We joined the two datasets by matching by the countries and years

Missing Data
We excluded diet data from the years 1960 to 1989 because there was no mental health data for those years. We also excluded data about high/middle/low income countries and general regions because there was not enough data from both sets to match together.

Raw Data
https://github.com/info-201-wi24/INFO-201-Final-Project

Number of issues

Risky	0
Safe	2
Unknown	3

Instances	5000
Version	n/a
License	n/a
Collection timeframe	1990-2019

Collection process ⌄

We downloaded two different datasets from ourworldindata.org to obtain data that was collected from questionnaires, quantitative dietary surveys, medical data, and statistical modeling. We merged these two datasets to create a new dataset.

Useful links

Dataset access point ⌄

https://github.com/info-201-wi24/INFO-201-Final-Project

▢ **Feature selection**
Which columns were chosen and why? ⌃

Cultural or Domain Assumptions

Nutritional Science Psychiatric Epidemiology Public Health

Proxy Characteristics

Planning Representation

Domain Knowledge

Dietary Data Interpretation: How different commodity groups contribute to overall nutrition and how they might relate to mental health. Mental Health Assessment: Recognition of various mental disorders and understanding of their prevalence and impact on different populations. Epidemiological Methods: Knowledge of how to interpret case numbers and rates within the context of public health research.

Number of issues

Risky	1
Safe	1
Unknown	2

⚇ **Representation** ⌄

Number of issues

⩘ **Upstream sources**
Are there known risks in datasets upstream? ⌃

Intended Use Familiarity

- Institute of Health Metrics and Evaluation (IHME), Global Burden of Disease (2019): Neutral.
- Food and Agriculture Organization of the United Nations (FAO): Neutral.

Data Collection Familiarity

- Institute of Health Metrics and Evaluation (IHME), Global Burden of Disease (2019): Somewhat familiar. Limitations may arise from the accuracy of mental health diagnosis reporting and estimations of mental health cases. There may also be biases in the data due to self-reporting and underrepresentation of people who chose not to take the surveys and questionnares.
- Food and Agriculture Organization of the United Nations (FAO): Somewhat familiar. Limitations may arise from the accuracy of dietary intake measurements. There may also be biases in the data due to self-reporting and underrepresentation of people who chose not to take the surveys.

Number of issues

Risky	0
Safe	0
Unknown	4

⏱ **General risks**
Any additional risks? ⌃

Individual Information

no

Consent

Yes,

Generalized Inferences

It won't give more detailed insights into how mental health and diet impacts different age, race, and gender groups due to the data being collected at a broader population level.

Generalized Inferences - Mitigation

n/a

Sensitive Content

Not Applicable

Number of issues

Risky	0
Safe	3
Unknown	4

Dietary Composition with Mental Disorder Cases

Description

The dataset is a combination of dietary compositions by commodity group and estimated cases of mental illness throughout the years. It integrates nutritional data with epidemiological data to potentially explore correlations between diet and mental health outcomes

Keywords

| Nutrition | Mental Health | Epidemiology | Psychology | Dietary Composition |

How to use it?

🖑 Intended Use ∧

- **Intended Domain.** public health
- **Intended Domain.** nutrition
- **Intended Domain.** epidemiology
- **Intended Domain.** healthcare analytics
- **Intended Use.** Study the correlations or associations between dietary habits and the prevalence or incidence of various mental health disorders.
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⚠ Restrictions on Use ∧

- no

☑ Known Uses ∨

⦸ Do Not Use ∨

Domain. n/a...**read more**

About the dataset

People

Owned by ∧

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University of Washington

Sophia Zuo
University of Washington

Ruifeng Tian
University of Washington

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Funding ∨

Management ∨

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Collection process ∧

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Dataset access point ∧
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Inference risks

At a Glance ∨

About humans	Upstream sources	Technical review	Ethical review	Update frequency
Yes	Yes	Unsure	Unsure	Unsure

▦ Data values ∨
What values are in each column?

		Number of issues	
Collection and Labeling Protocols	Data Imputation Protocols	Risky	0
Data Manipulation Protocols	Missing Data	Safe	🟢
Raw Data		Unknown	3

⊡ Feature selection ∨
Which columns were chosen and why?

		Number of issues	
Cultural or Domain Assumptions	Proxy Characteristics	Risky	1
Planning Representation	Domain Knowledge	Safe	🟢
		Unknown	2

⧉ Representation ∨
Which rows were included and why?

		Number of issues	
Subpopulation Information	Representation	Risky	2
Individual Inferences	Individual Inferences - Mitigation	Safe	🟢
Collection Representation	Other Representation Issues	Unknown	4

⇅ Upstream sources ∨
Are there known risks in datasets upstream?

		Number of issues	
Intended Use Familiarity	Data Collection Familiarity	Risky	0
Data Processing Familiarity	Other Known Issues	Safe	🟢
		Unknown	4

⬚ General risks ∨
Any additional risks?

		Number of issues	
Individual Information	Consent	Risky	0
Generalized Inferences	Generalized Inferences - Mitigation	Safe	🟢
Sensitive Content	Documented Known Issues	Unknown	4
Other Known Issues			