

Asking Questions about Nutritional Issues



- Obesity
- Diabetes

Obesity



Description:

- Disease involving an excessive amount of body fat
- Major risk for heart disease, diabetes, high blood pressure and certain cancers
- Typically caused by a combination of genetics, environment, and poor diet/lifestyle

Potential Research Questions:

- How has COVID-19 and the pandemic affected obesity rates in the US?
- Is teenage obesity related to density of gyms and recreational facilities?
- Is there a relationship with obesity and suicide in Pennsylvania?



Diabetes



Description:

- Condition where the body cannot process sugar - the fuel for your energy
- Specifically, the body can't produce insulin, which is needed for sugar to be used by your body
- Two types of diabetes:
 - Type 1 (childhood diabetes) - you are born with diabetes, linked to genetics/environment
 - Type 2 - you develop diabetes, linked to genetics/environment, obesity, and poor lifestyle
- Since diabetics are bad at blood sugar regulation, emergencies requiring 911 occur frequently

Potential Research Questions:

- Do rates of childhood diabetes correlate with median household income?
- When do diabetic attacks typically happen? Time of day? Seasonal?
- How does hospital quality/density affect diabetic diagnosis rates?

*Click on each image to access the link

Nutritional Disease Datasets to Explore



- Pittsburgh EMS Responses from 2015-present**
- 1.4 mil+ 911 EMS responses in Allegheny County
 - Data gives year and reason for EMS event
 - Data organized by city & census block of event

How to use:

Use column '*description_short*' to filter responses by reason for EMS response

- OVERDOSE : 15,596 records in the database
- DIABETIC: 15,747 records in the database



- National Health and Nutrition Examination Survey**
- CDC project that interviewed and assessed the health of Americans
 - Dataset has obesity rates of young adults from 1999-2012
 - Data is split by gender and ethnicity

How to use:

- Download combined dataset from link to data.world
- Explore NHANES [website](#) to possibly get more data

*Click on each image to access the link

Obesity Datasets to Explore



CA Weight Loss Surgery Data 2005-2015

- # of Weight Loss Surgeries in CA Hospitals
- Gives Hospital Name, County, Type of Surgery
- Really thorough and easy-to-use dataset

How to use:

- Click Image for link to website
- Click "Go to Resource" for excel file



CA Food Affordability 2006-2010

- Food Affordability by city, county, and region
- Calculates an "affordability_ratio" based on a number of factors
- Combined effort from multiple CA state departments

How to use:

- Click Image for link to website
- Click "Go to Resource" for excel file

*Click on each image to access the link

Diabetes Datasets to Explore

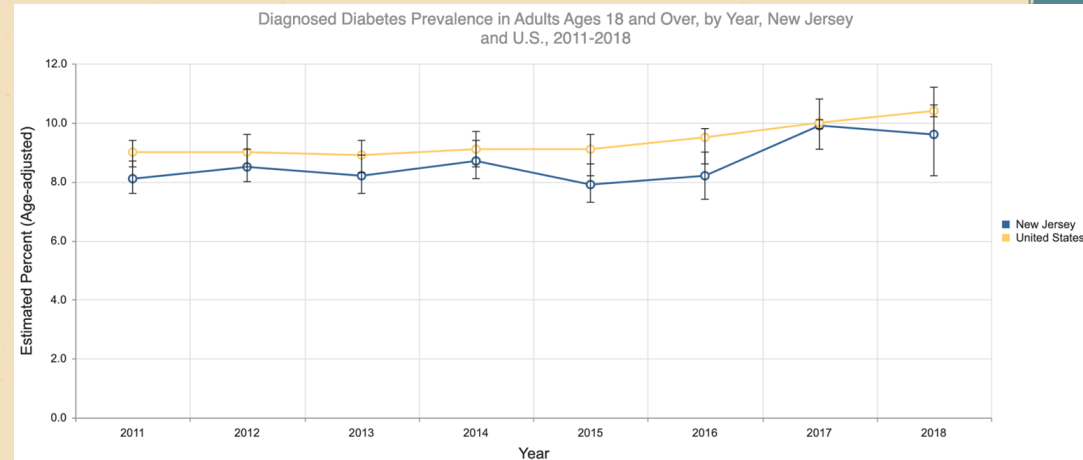
NJ Diabetes Prevalance 2011-2018

- County-level Depression rates data
- Based on The NJ Behavioral Risk Factor Survey



How to use:

- Click on image top right to access 2011-2019 data
- Or go to [main website](#) -> Health Topics -> Mental Health -> Doctor Diagnoses Depression
- Use filters to specify based on your question



*Click on each image to access the link

Diabetes Datasets to Explore



Diabetes Insurance Data in Allegheny County

- 390 observations (1 for each census tract)
- Includes # of men/women with Diabetes Type 2
- Data from 2015 and 2016

How to use:

Use the metadata (table explaining what each column means)

Data collected from 3 large health insurance providers

- IMPORTANT: this data does not include uninsured patients with heart disease

