

# Working Title

High Blood Pressure Indicator

## Summary

Our dataset allows hypertension patients, in 200 countries aged 18-79, and doctors to discern trends and patterns in current and past prevalence of raised systolic and diastolic high pressure.

## Summary of Dataset

The NCD provides a comprehensive dataset of blood pressure distribution by country and age from 1975 to 2015. The data is organized by country, gender, and year covering many countries around the globe. This dataset provides a large enough sample size to create graphs reliably, analyze trends, and judge the risk to users of our website based on specific parameters.

## Research Questions

1. What demographic does an individual with raised systolic blood pressure look like?
  - a. Fields: Country, Sex, Mean systolic blood pressure (mmHg), prevalence of raised blood pressure
2. Is an individual from a given country at risk for being a patient with abnormal blood pressure levels?
  - a. Fields: Country, Sex, Mean systolic blood pressure (mmHg), Mean diastolic blood pressure (mmHg), prevalence of raised blood pressure
3. What demographics does an American with a high prevalence of raised blood pressure look like?
  - a. Fields: Country, sex, prevalence of raised blood pressure
4. For a given year, how highly likely are men from that year to have abnormal systolic blood pressure based on where the year ranks in raised blood pressure prevalence?
  - a. Fields: Sex, Mean systolic blood pressure (mmHg), raised blood pressure prevalence

## User roles

User roles: Doctor

A doctor would be most interested in research question number 2.

A doctor's main goal for engaging with these questions and datasets would be to determine if specific genetic, gender, or environmental factors factor into being higher risk for raised blood pressure.

User Role: Patient concerned with possibly having blood pressure

A patient would most be interested in research question number 1.

A patient's main goal for engaging with these questions and datasets will be to see if they are at a higher risk for high blood pressure based on if they match a high risk individual's demographics.

User Role: Research Scientist

A research scientist would be most interested in research question number 4.

A research scientist's main goal for engaging with these questions and datasets would be to find historical data for men that have abnormal systolic blood pressure to publish a paper discerning trends in men's raised blood pressure rates.