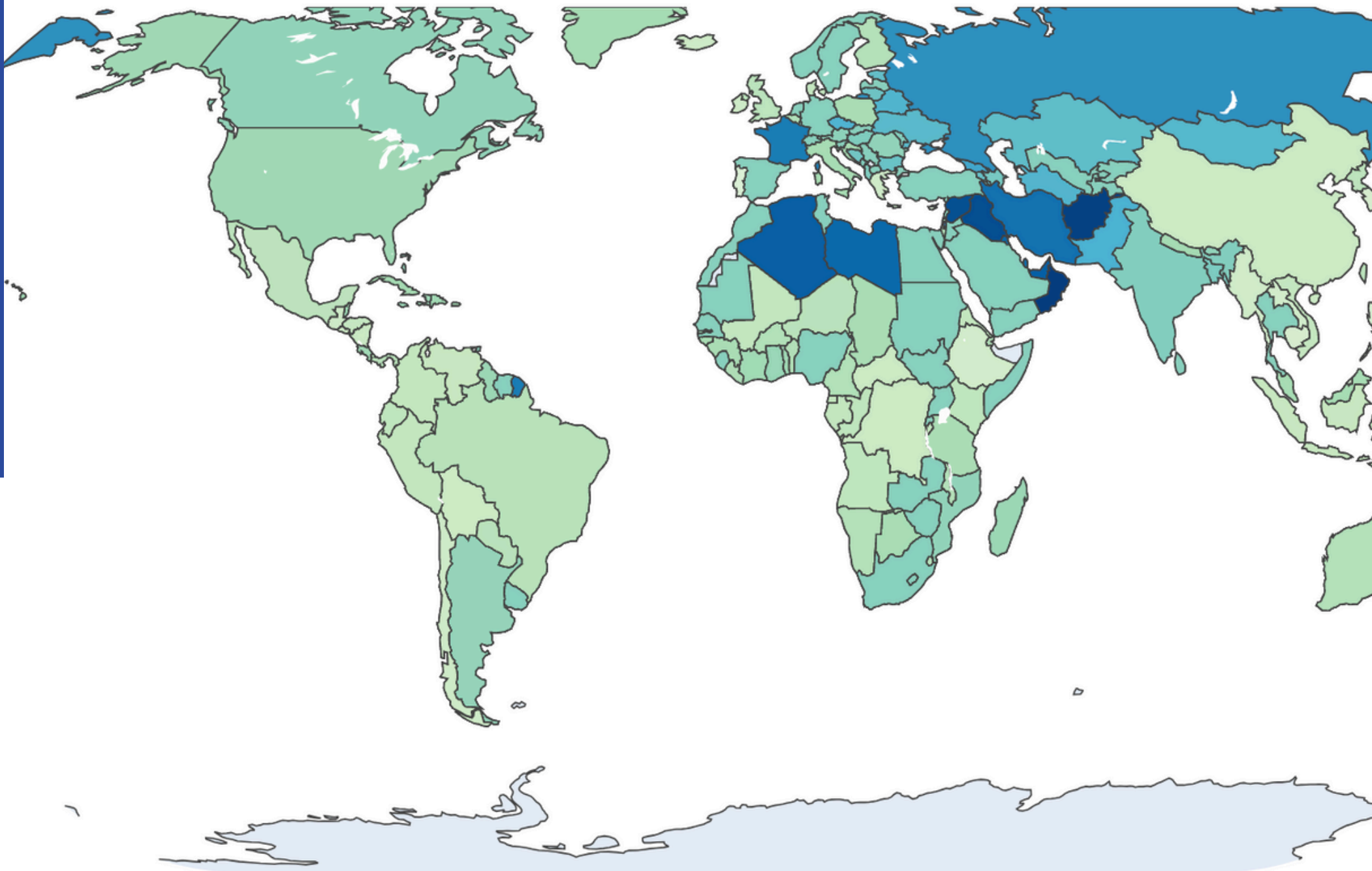


# GLOBAL HEART DISEASE DASHBOARD USER GUIDE

EXPLORING HEART DISEASE TRENDS & ECONOMIC FACTORS



# TABLE OF CONTENTS



**INTRODUCTION**

**GETTING STARTED**

**OVERVIEW PAGE**

**HEALTH MAPS PAGE**

**TRENDS ANALYSIS**

**CORRELATION ANALYSIS PAGE**



**TROUBLESHOOTING AND FAQs**



# INTRODUCTION

THE GLOBAL HEART DISEASE DASHBOARD IS AN INTERACTIVE PLATFORM DESIGNED TO PROVIDE COMPREHENSIVE INSIGHTS INTO HEART DISEASE PATTERNS ACROSS DIFFERENT REGIONS, DEMOGRAPHICS, AND ECONOMIC INDICATORS

## WHO IS THIS DASHBOARD FOR?

- POLICY MAKERS
- HEALTHCARE PROFESSIONALS
- GENERAL PUBLIC

## THIS DASHBOARD PROVIDES INSIGHTS INTO



**GLOBAL AND REGIONAL  
TRENDS**



**COMPARE COUNTRIES AND  
DEMOGRAPHIC GROUPS**

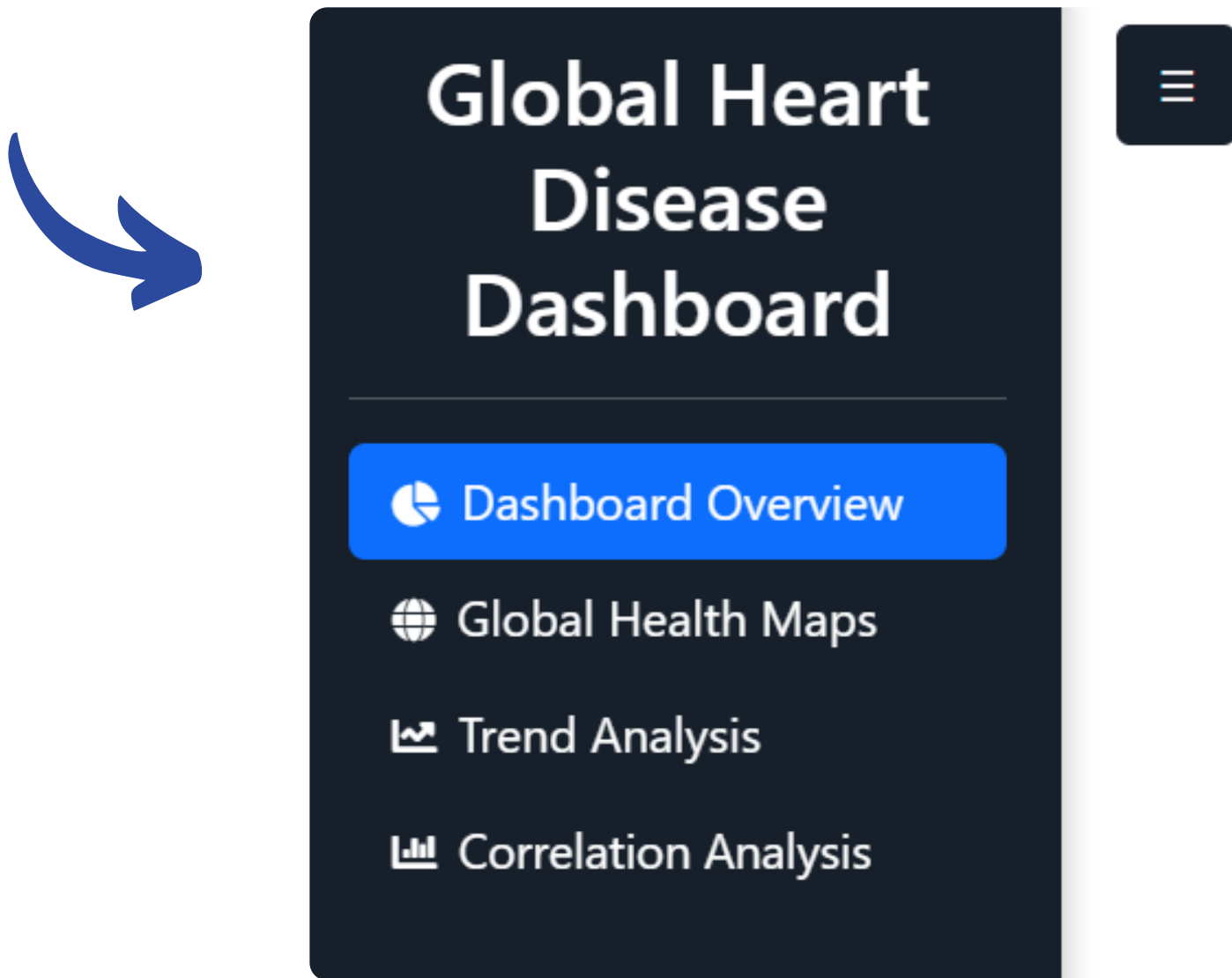


**VISUALIZE RISK FACTORS**

# GETTING STARTED

The dashboard has 4 pages:

- Overview Page: provides a brief introduction to the data
- Global Health Maps Page: explores global trends
- Metric Analysis Page: explores regional mortality trends
- Correlation Analysis Page: Explores risk factor correlation



## HOW TO USE FILTERS AND CONTROLS

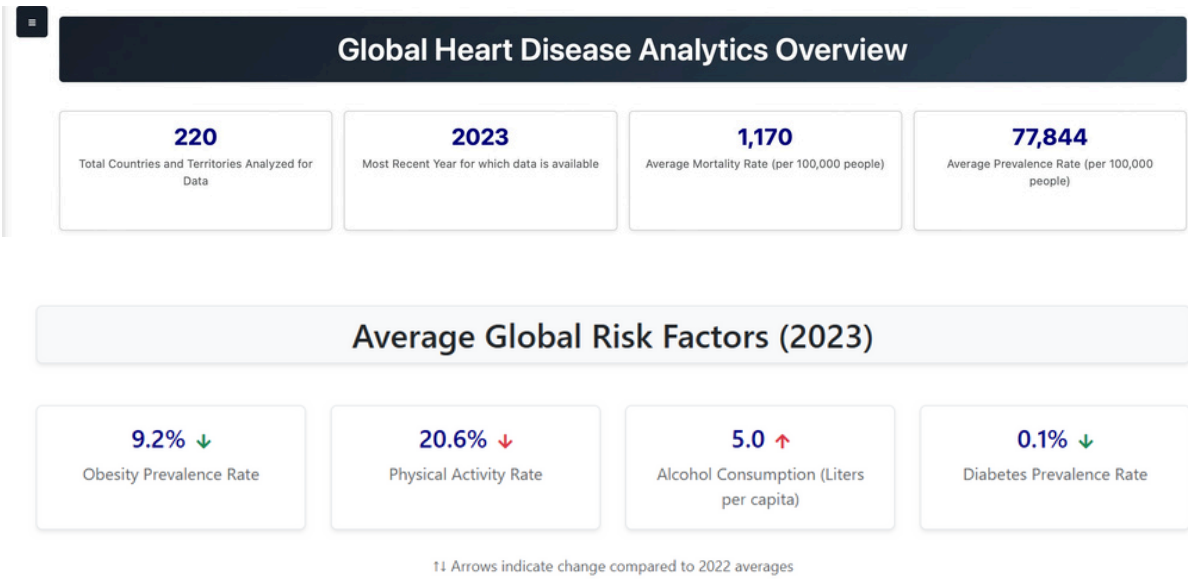
Users can customize their view using the filter options:

- Year Dropdown: Select a specific year or view data across all years.
- Country Dropdown: Focus on a particular country or analyze all regions.
- Metric Selection: Choose different parameters to compare in scatter plots.
- Interactive Hovering & Clicking: Hover over points and flows for details

# OVERVIEW PAGE

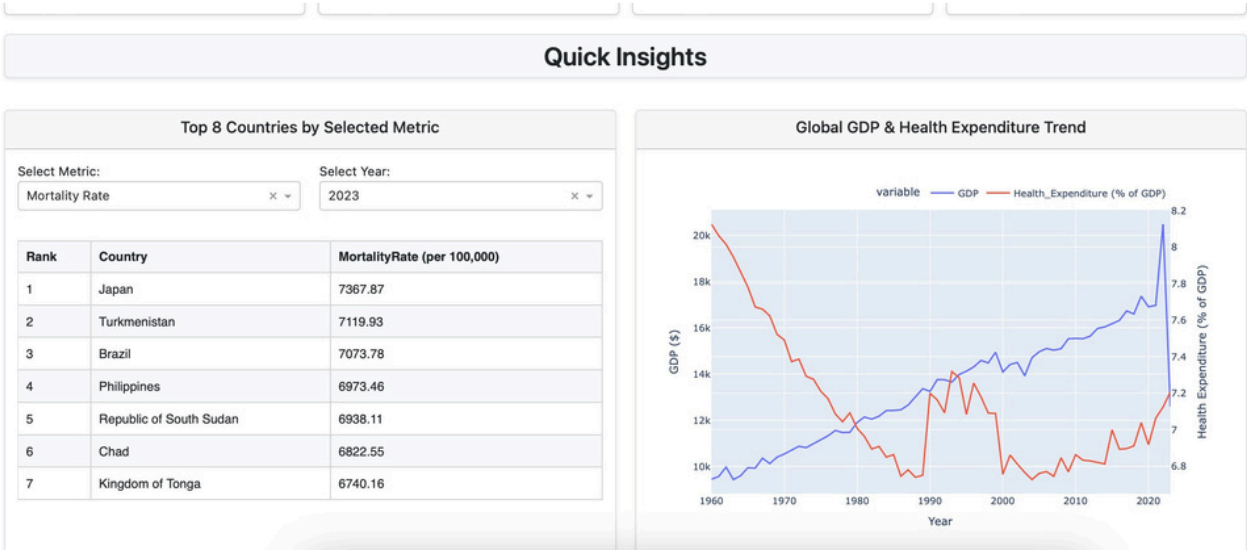
THIS PAGE HAS PLOTS ILLUSTRATING GENERAL TRENDS FROM THE DATA.  
IT INCLUDES:

- Data cards with key metrics
- Top 8 countries by prevalence/mortality/incidence rate
- Line graphs showing trends for economic indicators
- links to data sources

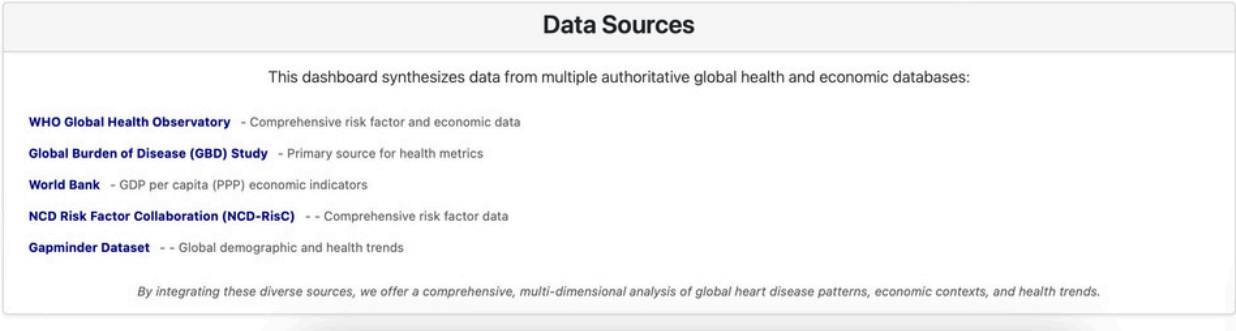


DATA CARDS

TABLE & LINE PLOTS



DATA SOURCES



# HEALTH MAPS PAGE

THE HEALTH MAPS PAGE PROVIDES A COMPREHENSIVE VISUALIZATION PLATFORM FOR EXPLORING GLOBAL HEART DISEASE DATA THROUGH MULTIPLE INTERACTIVE VISUALIZATIONS.

## 1. Choropleth Map: visualizes the global distribution of heart disease prevalence rates per filter

- Global/regional color-coded map showing health metrics across countries
- Colors range from light to dark indicating metric intensity
- Interactive tooltips show country-specific data and statistics
- Dual maps appear when economic indicators are selected

## 2. Scatter Plot:

- X-axis displays economic indicators (GDP/health expenditure)
- Y-axis shows health metrics (mortality/incidence/prevalence)
- Points colored by region for pattern identification
- Includes trend line showing correlation strength
- Helps identify how economic factors relate to heart disease outcomes

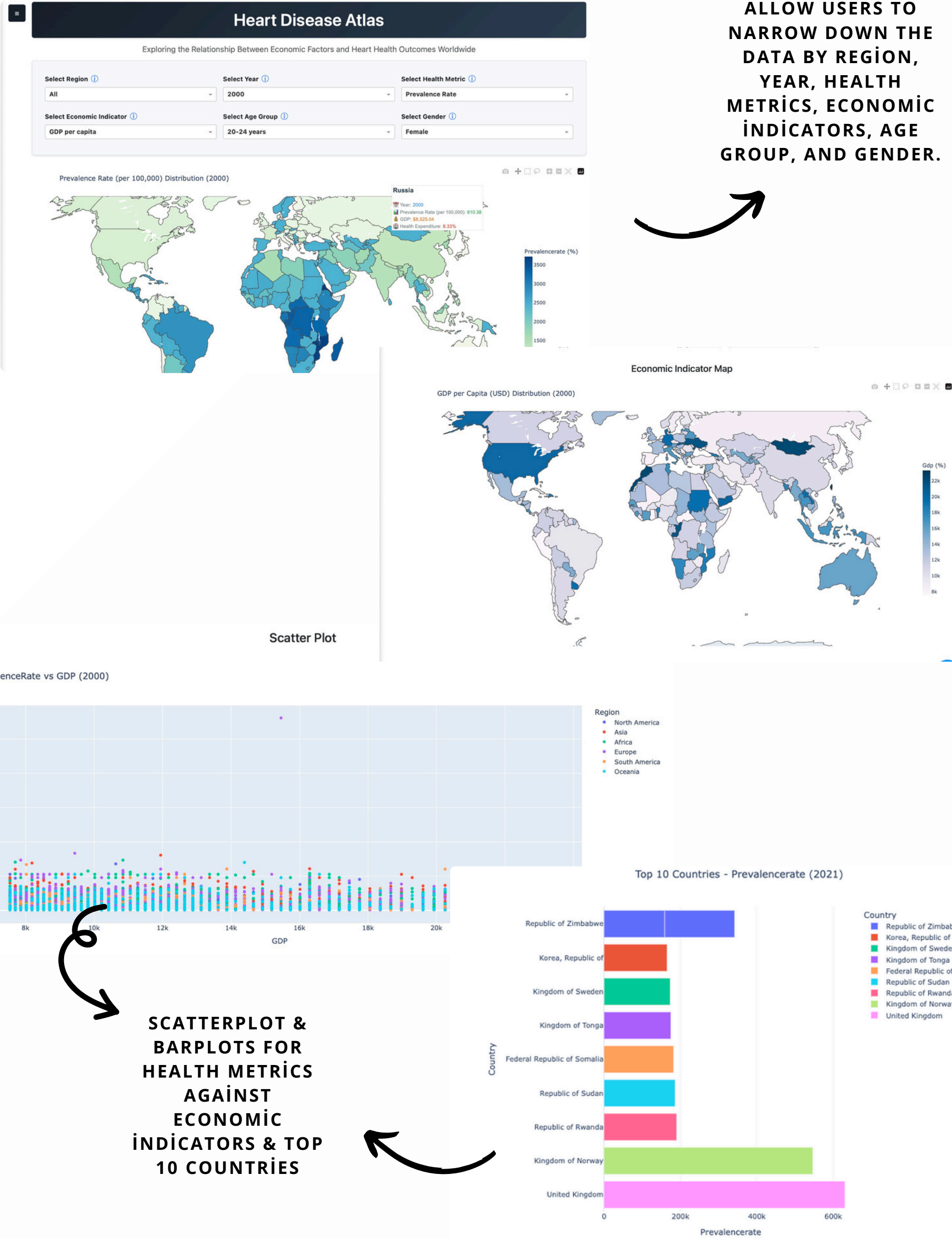
## 3. Bar Chart:

- Horizontal bars show top 10 countries for chosen metric
- Length of bars indicates metric value magnitude
- Color-coded by country for easy differentiation
- Includes detailed country information on hover
- Provides clear comparison of leading countries in each metric

## 4. Filter Panel

- Located at top of page with 6 interactive dropdown menus
- Region selector filters by continent or shows global view
- Year selector lets users choose specific time periods
- Health/Economic metric selectors control displayed indicators
- Age and Gender filters allow demographic-specific analysis

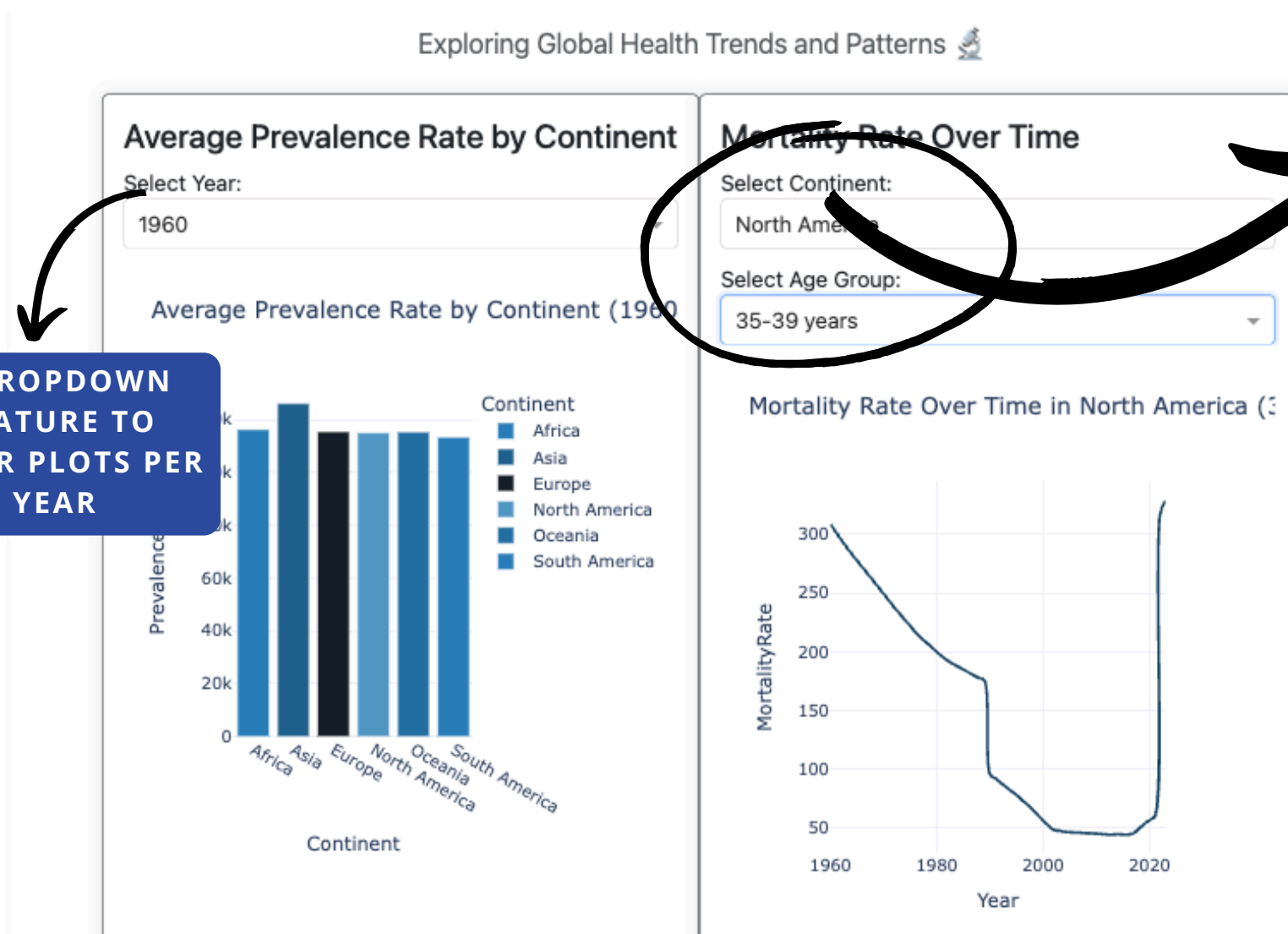




# TREND ANALYSIS PAGE

THIS PAGE HAS FIVE INTERACTIVE PLOTS (IN ORDER OF APPEARANCE)

- **A prevalence rate bar chart:** Illustrates the trend in average prevalence rate by continent
- **A mortality rate trend plot:** Shows the trend of mortality rate over the years per continent or region and age group
- **A mortality rate trend plot:** Illustrates the trend of age standardized mortality rate per country and gender group
- **A mortality rate trend plot:** Illustrates the trend of average mortality rate per country
- **Risk factor analysis plot:** shows the risk factor details per continent and country



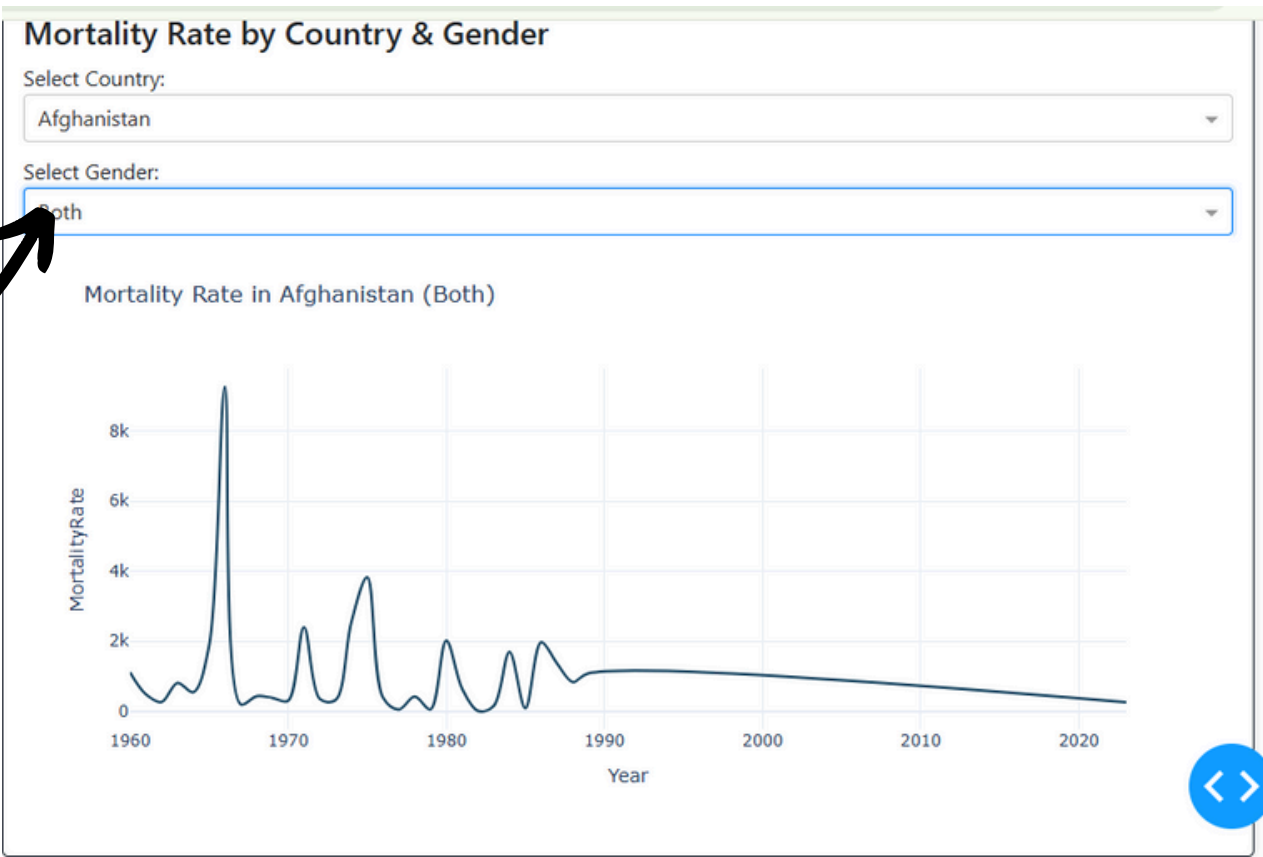
A DROPDOWN  
FEATURE TO  
FILTER PLOTS PER  
YEAR

DROPDOWN  
FILTERS TO HELP  
YOU VIEW PLOTS  
RELATION TO  
SPECIFIC AGE  
GROUP AND  
REGION

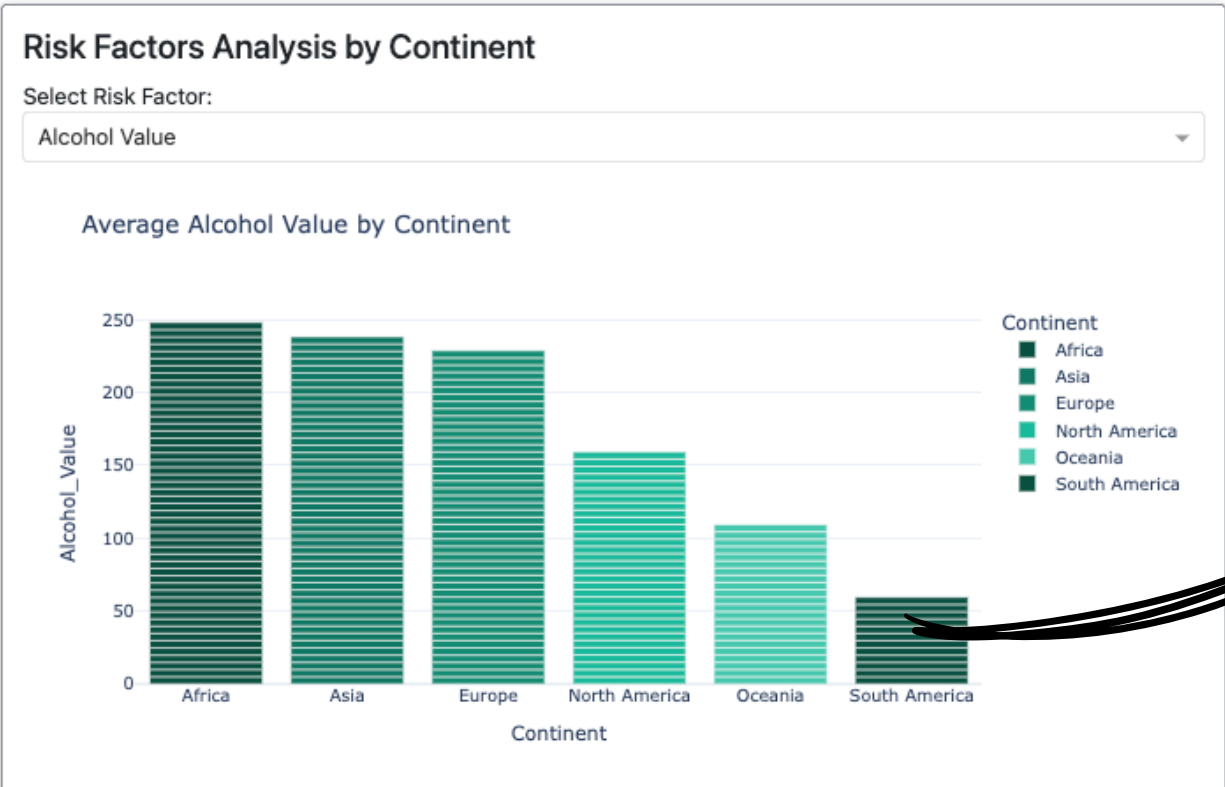
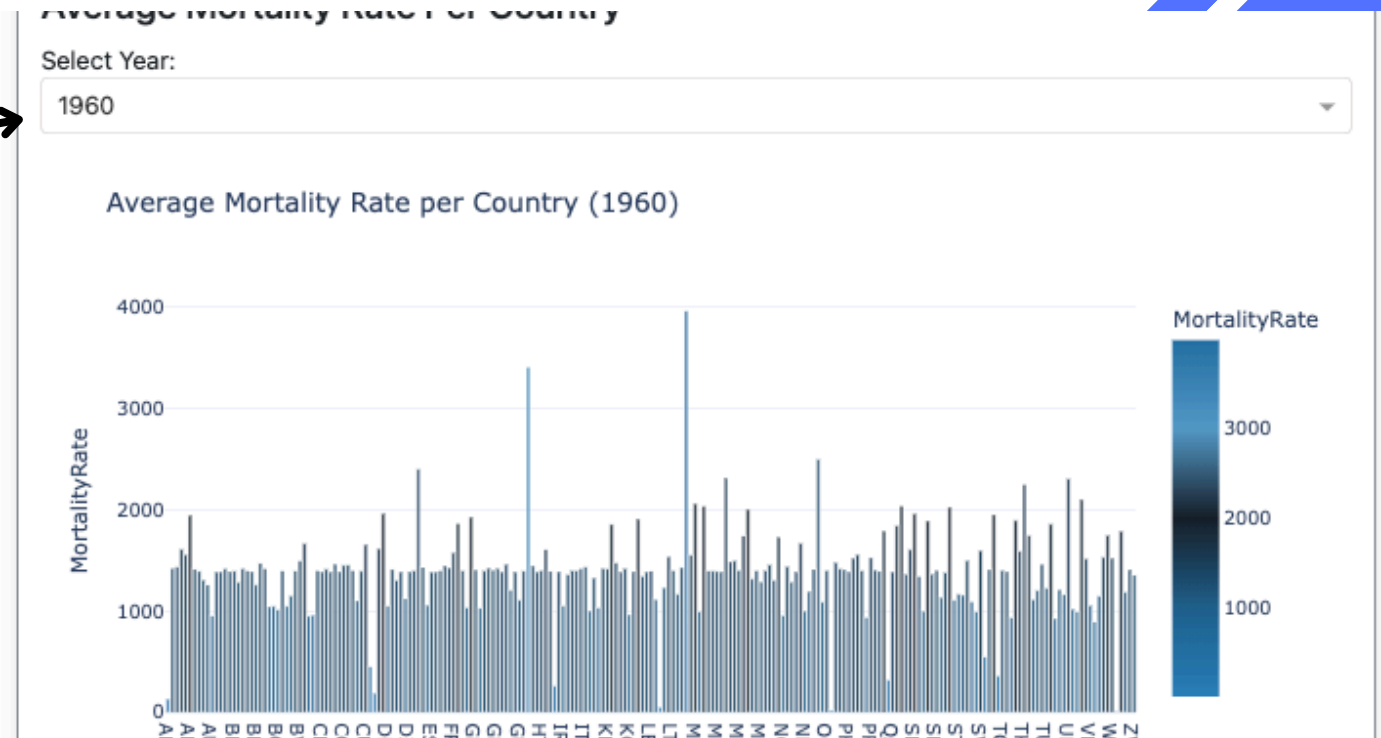


# TREND ANALYSIS PAGE

A DROPDOWN  
FEATURE TO  
FILTER PLOTS PER  
GENDER AND  
COUNTRY



FILTER PLOTS  
PER YEAR



HOVER OVER  
PLOTS TO GIVE  
PLOT DETAILS  
PER COUNTRY

# CORRELATION ANALYSIS PAGE

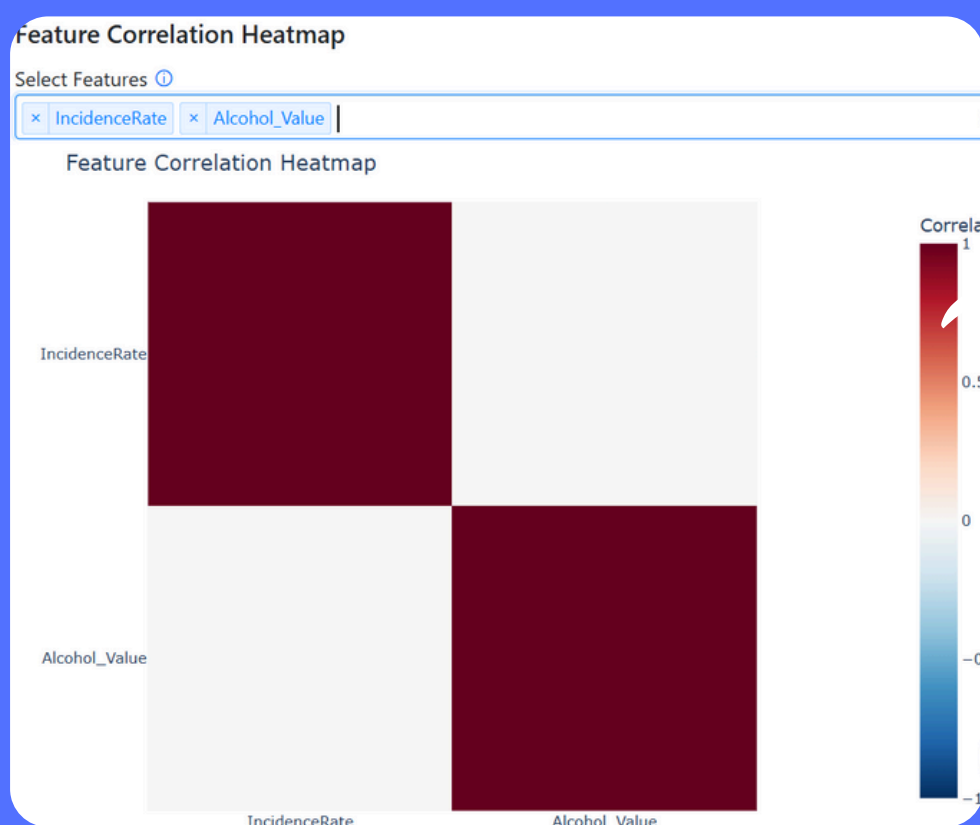
THIS PAGE HAS THREE INTERACTIVE PLOTS (IN ORDER OF APPEARANCE)

- **A correlation heatmap:** illustrates the correlation between risk factors and heart disease rates
- **A scatterplot:** shows the linear relationship between two risk factors
- **A Sankey diagram:** illustrates connections between risk factors, regions and heart disease rates

## Filters:

- Year & country dropdowns- these can be applied to the heatmap and scatterplot
- Heart disease rate dropdown - Can be applied to Sankey diagram

## HOW TO INTERPRET PLOTS



FEATURE COMBINATIONS WITH  
THE HIGHEST CORRELATION HAVE  
BURGUNDY SQUARES

THE LOWEST CORRELATIONS  
HAVE DARK BLUE SQUARES

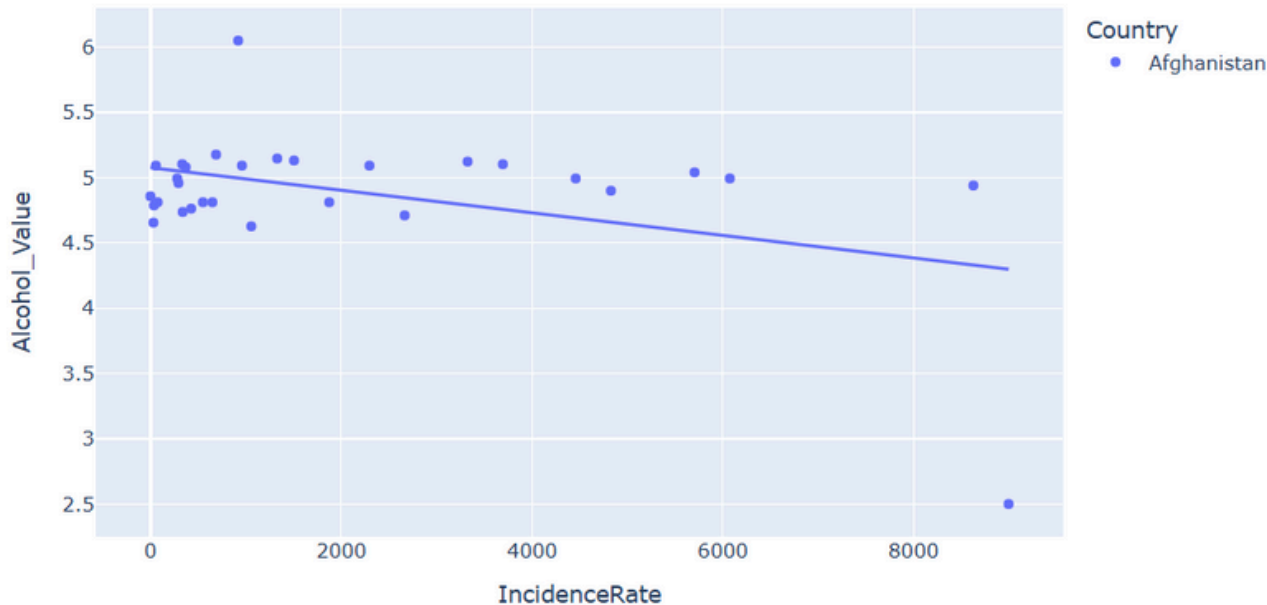
# CORRELATION ANALYSIS PAGE

## Feature Scatterplot

IncidenceRate

Alcohol\_Value

IncidenceRate vs Alcohol\_Value

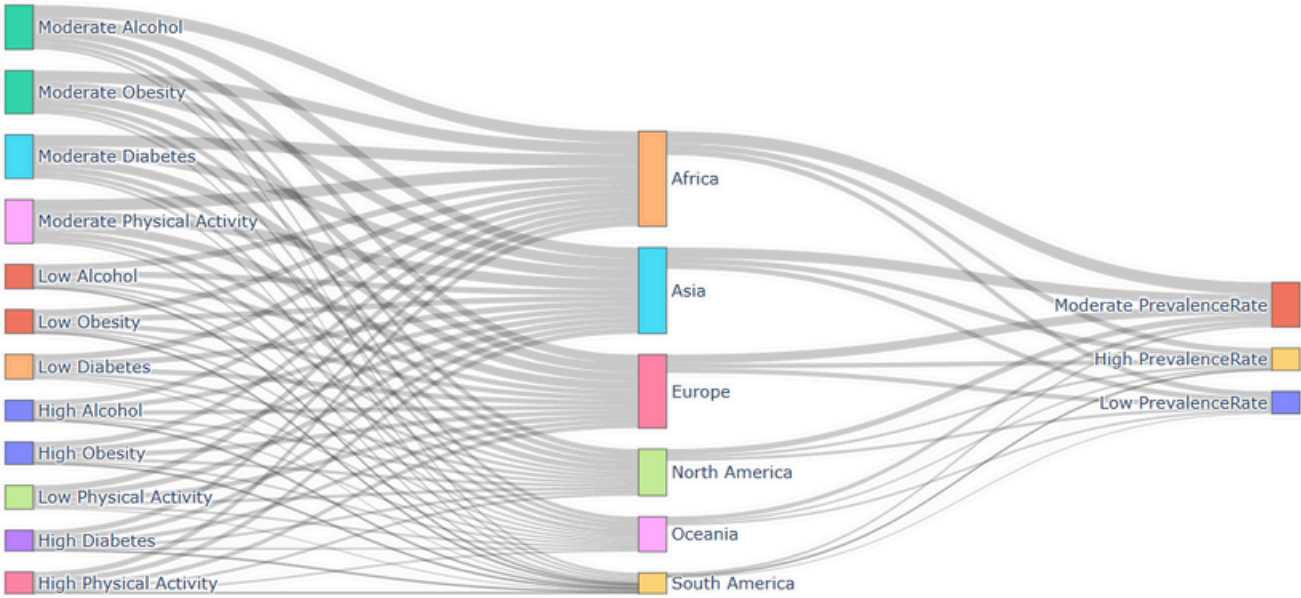


THE TREND LINE SHOWS WHETHER THE FEATURES HAVE A PROPORTIONAL OR INVERSE RELATIONSHIP

## Feature Sankey Diagram

PrevalenceRate

Risk Factor Influence on Heart Disease per Continent



THICKER FLOWS INDICATE STRONGER RELATIONSHIPS

# TROUBLESHOOTING AND FAQs

## COMMON ISSUES & SOLUTIONS

Issue	Possible Cause	Solution
Dashboard is not loading	Slow internet connection or browser issue	Refresh the page or try a different browser (Chrome, Firefox).
Data not displaying correctly	Filters might be incorrect	Reset filters and select the correct year, region, or metric.
Charts are not interactive	JavaScript is disabled in the browser	Enable JavaScript or update your browser.
Some countries/regions have missing data	Data may not be available for that region	Check the data sources section for details on availability.
Exported reports contain errors	Dataset might be incomplete	Ensure you have selected valid data before exporting.