FLIP ROBO

CAUSE OF DEATH

Submitted by:-
Mansi Nagpal

CAUSE OF DEATH

CONTENT

IN THIS DATASET, WE HAVE HISTORICAL DATA OF DIFFERENT CAUSE OF DEATHS FOR ALL AGES AROUND THE WORLD. THE KEY FEATURES OF THIS DATASET ARE: MENINGITIS, ALZHEIMER'S DISEASE AND OTHER DEMENTIAS, PARKINSON'S DISEASE, NUTRITIONAL DEFICIENCIES, MALARIA, DROWNING, INTERPERSONAL VIOLENCE, MATERNAL DISORDERS, HIV/AIDS, DRUG USE DISORDERS, TUBERCULOSIS, CARDIOVASCULAR DISEASES, LOWER RESPIRATORY INFECTIONS, NEONATAL DISORDERS, ALCOHOL USE DISORDERS, SELF-HARM, EXPOSURE TO FORCES OF NATURE, DIARRHEAL DISEASES, ENVIRONMENTAL HEAT AND COLD EXPOSURE, NEOPLASMS, CONFLICT AND TERRORISM, DIABETES MELLITUS, CHRONIC KIDNEY DISEASE, POISONINGS, PROTEIN-ENERGY MALNUTRITION, ROAD INJURIES, CHRONIC RESPIRATORY DISEASES, CIRRHOSIS AND OTHER CHRONIC LIVER DISEASES, DIGESTIVE DISEASES, FIRE, HEAT, AND HOT SUBSTANCES, ACUTE HEPATITIS.

PROBLEM STATEMENT

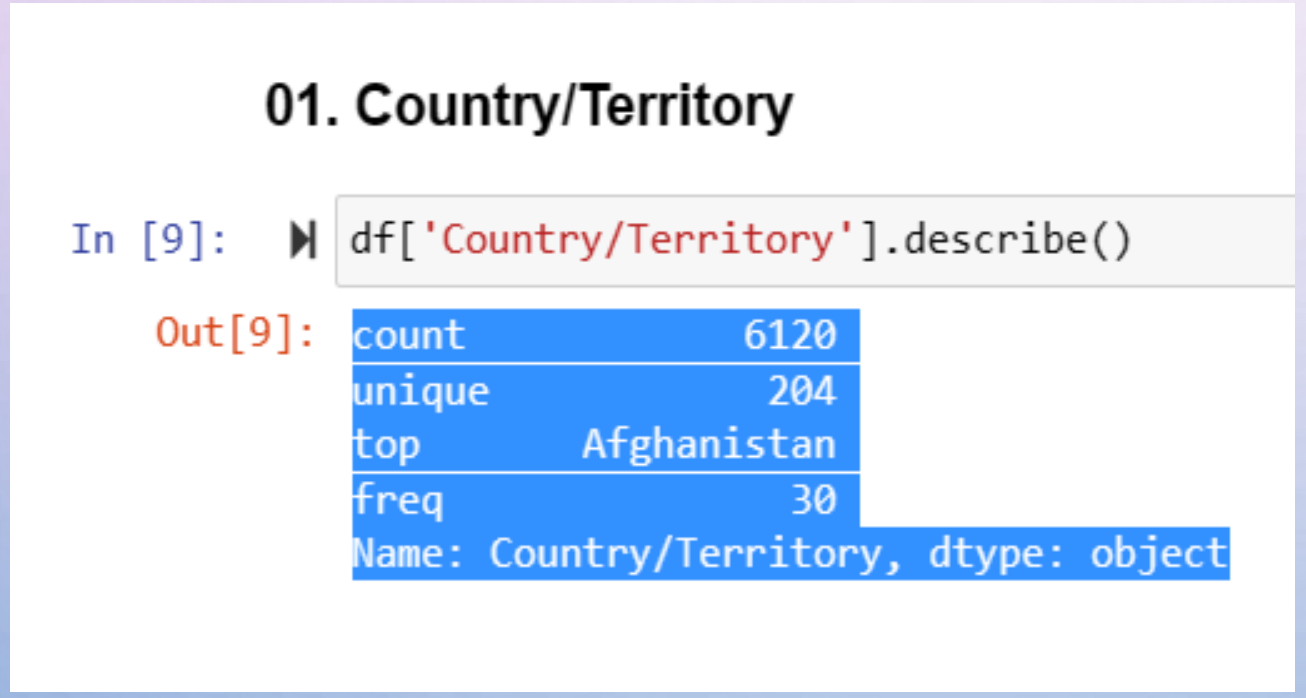
THIS CONTAINS THE PROBLEM STATEMENT AND BUSINESS GOAL

STATEMENT

- A STRAIGHTFORWARD WAY TO ASSESS THE HEALTH STATUS OF A POPULATION IS TO FOCUS ON MORTALITY – OR CONCEPTS LIKE CHILD MORTALITY OR LIFE EXPECTANCY, WHICH ARE BASED ON MORTALITY ESTIMATES. A FOCUS ON MORTALITY, HOWEVER, DOES NOT TAKE INTO ACCOUNT THAT THE BURDEN OF DISEASES IS NOT ONLY THAT THEY KILL PEOPLE, BUT THAT THEY CAUSE SUFFERING TO PEOPLE WHO LIVE WITH THEM. ASSESSING HEALTH OUTCOMES BY BOTH MORTALITY AND MORBIDITY (THE PREVALENT DISEASES) PROVIDES A MORE ENCOMPASSING VIEW ON HEALTH OUTCOMES. THIS IS THE TOPIC OF THIS ENTRY. THE SUM OF MORTALITY AND MORBIDITY IS REFERRED TO AS THE 'BURDEN OF DISEASE' AND CAN BE MEASURED BY A METRIC CALLED 'DISABILITY ADJUSTED LIFE YEARS' (DALYS). DALYS ARE MEASURING LOST HEALTH AND ARE A STANDARDIZED METRIC THAT ALLOW FOR DIRECT COMPARISONS OF DISEASE BURDENS OF DIFFERENT DISEASES ACROSS COUNTRIES, BETWEEN DIFFERENT POPULATIONS, AND OVER TIME. CONCEPTUALLY, ONE DALY IS THE EQUIVALENT OF LOSING ONE YEAR IN GOOD HEALTH BECAUSE OF EITHER PREMATURE DEATH OR DISEASE OR DISABILITY. ONE DALY REPRESENTS ONE LOST YEAR OF HEALTHY LIFE. THE FIRST 'GLOBAL BURDEN OF DISEASE' (GBD) WAS GBD 1990 AND THE DALY METRIC WAS PROMINENTLY FEATURED IN THE WORLD BANK'S 1993 WORLD DEVELOPMENT REPORT. TODAY IT IS PUBLISHED BY BOTH THE RESEARCHERS AT THE INSTITUTE OF HEALTH METRICS AND EVALUATION (IHME) AND THE 'DISEASE BURDEN UNIT' AT THE WORLD HEALTH ORGANIZATION (WHO), WHICH WAS CREATED IN 1998. THE IHME CONTINUES THE WORK THAT WAS STARTED IN THE EARLY 1990S AND PUBLISHES THE GLOBAL BURDEN OF DISEASE STUDY.

EXPLORATORY DATA ANALYSIS

1. COUNTRY/TERRITORY



2. COUNTRY/TERRITORY CONTAIN NOMINAL DATA IN TEXT FORMAT

In [11]:
```
#checking unique of variable
print(df['Country/Territory'].unique())
#counting the uniques
print(df['Country/Territory'].value_counts())
```

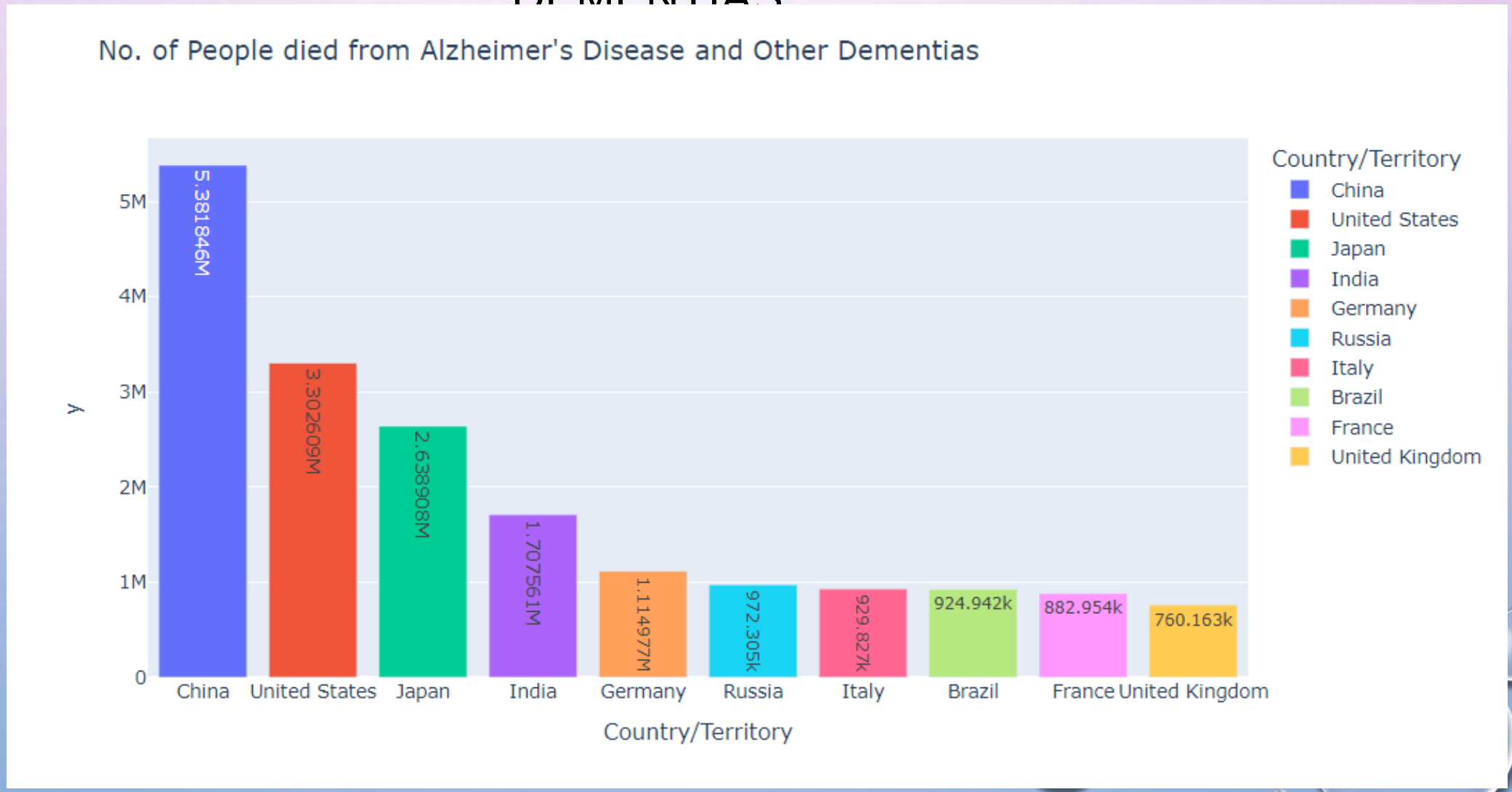
```
['Afghanistan' 'Albania' 'Algeria' 'American Samoa' 'Andorra' 'Angola'
 'Antigua and Barbuda' 'Argentina' 'Armenia' 'Australia' 'Austria'
 'Azerbaijan' 'Bahamas' 'Bahrain' 'Bangladesh' 'Barbados' 'Belarus'
 'Belgium' 'Belize' 'Benin' 'Bermuda' 'Bhutan' 'Bolivia'
 'Bosnia and Herzegovina' 'Botswana' 'Brazil' 'Brunei' 'Bulgaria'
 'Burkina Faso' 'Burundi' 'Cambodia' 'Cameroon' 'Canada' 'Cape Verde'
 'Central African Republic' 'Chad' 'Chile' 'China' 'Colombia' 'Comoros'
 'Congo' 'Cook Islands' 'Costa Rica' "Cote d'Ivoire" 'Croatia' 'Cuba'
 'Cyprus' 'Czechia' 'Democratic Republic of Congo' 'Denmark' 'Djibouti'
 'Dominica' 'Dominican Republic' 'Ecuador' 'Egypt' 'El Salvador'
 'Equatorial Guinea' 'Eritrea' 'Estonia' 'Eswatini' 'Ethiopia' 'Fiji'
 'Finland' 'France' 'Gabon' 'Gambia' 'Georgia' 'Germany' 'Ghana' 'Greece'
 'Greenland' 'Grenada' 'Guam' 'Guatemala' 'Guinea' 'Guinea-Bissau'
 'Guyana' 'Haiti' 'Honduras' 'Hungary' 'Iceland' 'India' 'Indonesia'
 'Iran' 'Iraq' 'Ireland' 'Israel' 'Italy' 'Jamaica' 'Japan' 'Jordan'
 'Kazakhstan' 'Kenya' 'Kiribati' 'Kuwait' 'Kyrgyzstan' 'Laos' 'Latvia'
 'Lebanon' 'Lesotho' 'Liberia' 'Libya' 'Lithuania' 'Luxembourg'
 'Madagascar' 'Malawi' 'Malaysia' 'Maldives' 'Mali' 'Malta'
 'Marshall Islands' 'Mauritania' 'Mauritius' 'Mexico' 'Micronesia'
 'Moldova' 'Monaco' 'Mongolia' 'Montenegro' 'Morocco' 'Mozambique'
 'Myanmar' 'Namibia' 'Nauru' 'Nepal' 'Netherlands' 'New Zealand'
 'Nicaragua' 'Niger' 'Nigeria' 'Niue' 'North Korea' 'North Macedonia'
 'Northern Mariana Islands' 'Norway' 'Oman' 'Pakistan' 'Palau' 'Palestine'
 'Panama' 'Papua New Guinea' 'Paraguay' 'Peru' 'Philippines' 'Poland'
 'Portugal' 'Puerto Rico' 'Qatar' 'Romania' 'Russia' 'Rwanda'
 'Saint Kitts and Nevis' 'Saint Lucia' 'Saint Vincent and the Grenadines'
 'Samoa' 'San Marino' 'Sao Tome and Principe' 'Saudi Arabia' 'Senegal'
 'Serbia' 'Seychelles' 'Sierra Leone' 'Singapore' 'Slovakia' 'Slovenia'
 'Solomon Islands' 'Somalia' 'South Africa' 'South Korea' 'South Sudan'
 'Spain' 'Sri Lanka' 'Sudan' 'Suriname' 'Sweden' 'Switzerland' 'Syria'
 'Taiwan' 'Tajikistan' 'Tanzania' 'Thailand' 'Timor' 'Togo' 'Tokelau'
 'Tonga' 'Trinidad and Tobago' 'Tunisia' 'Turkey' 'Turkmenistan' 'Tuvalu'
 'Uganda' 'Ukraine' 'United Arab Emirates' 'United Kingdom'
 'United States' 'United States Virgin Islands' 'Uruguay' 'Uzbekistan'
 'Vanuatu' 'Venezuela' 'Vietnam' 'Yemen' 'Zambia' 'Zimbabwe']
Afghanistan          30
Papua New Guinea     30
Niue                 30
North Korea          30
North Macedonia      30
                     ..
Greenland            30
Grenada              30
Guam                 30
Guatemala            30
Zimbabwe             30
Name: Country/Territory, Length: 204, dtype: int64
```

03. YEAR- YEAR OF THE INCIDENT

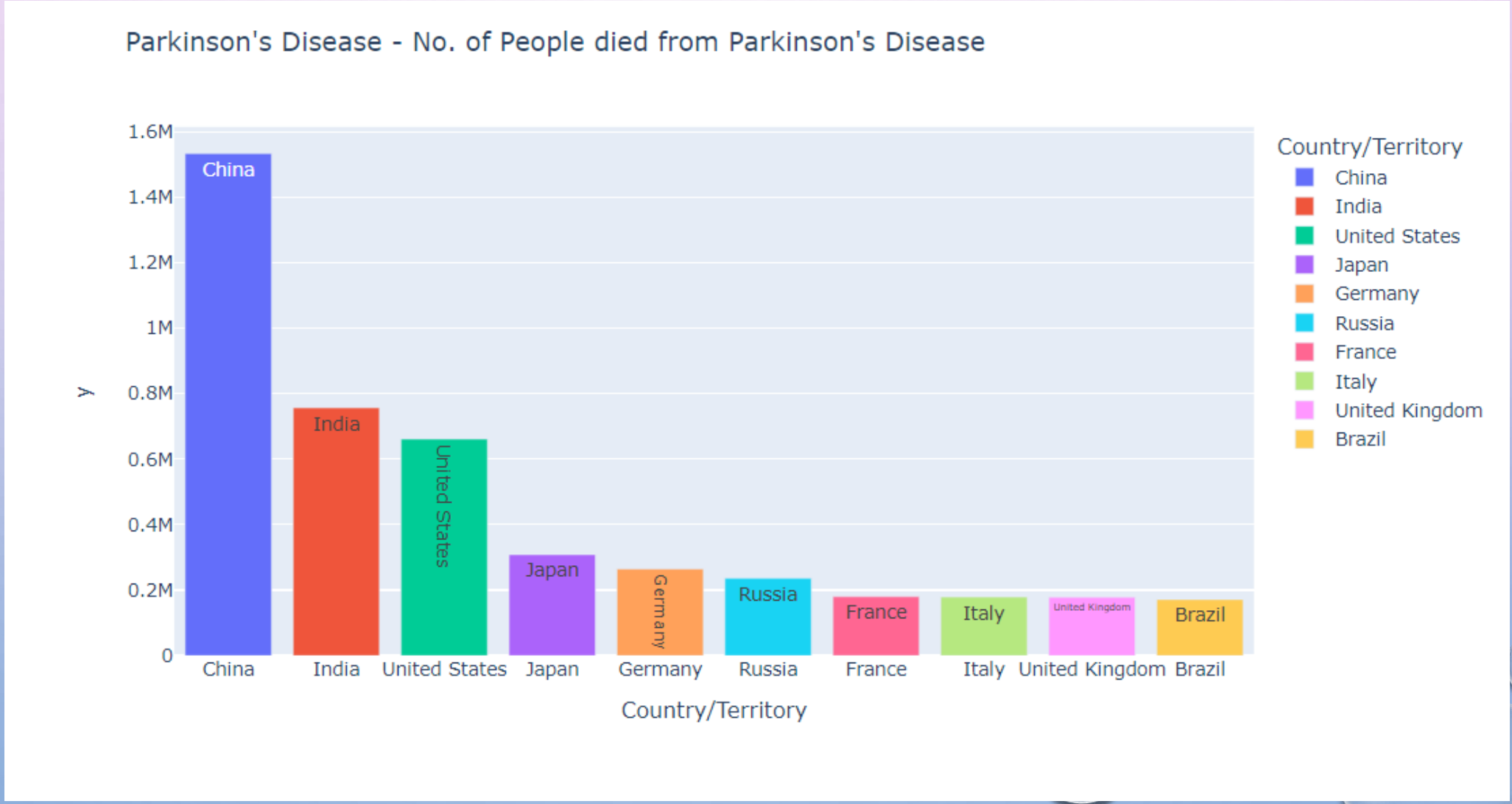
```
In [12]: df['Year'].describe()

Out[12]: count    6120.000000
         mean     2004.500000
         std         8.656149
         min      1990.000000
         25%      1997.000000
         50%      2004.500000
         75%      2012.000000
         max      2019.000000
         Name: Year, dtype: float64
```

04. MENINGITIS - NO. OF PEOPLE DIED FROM MENINGITIS

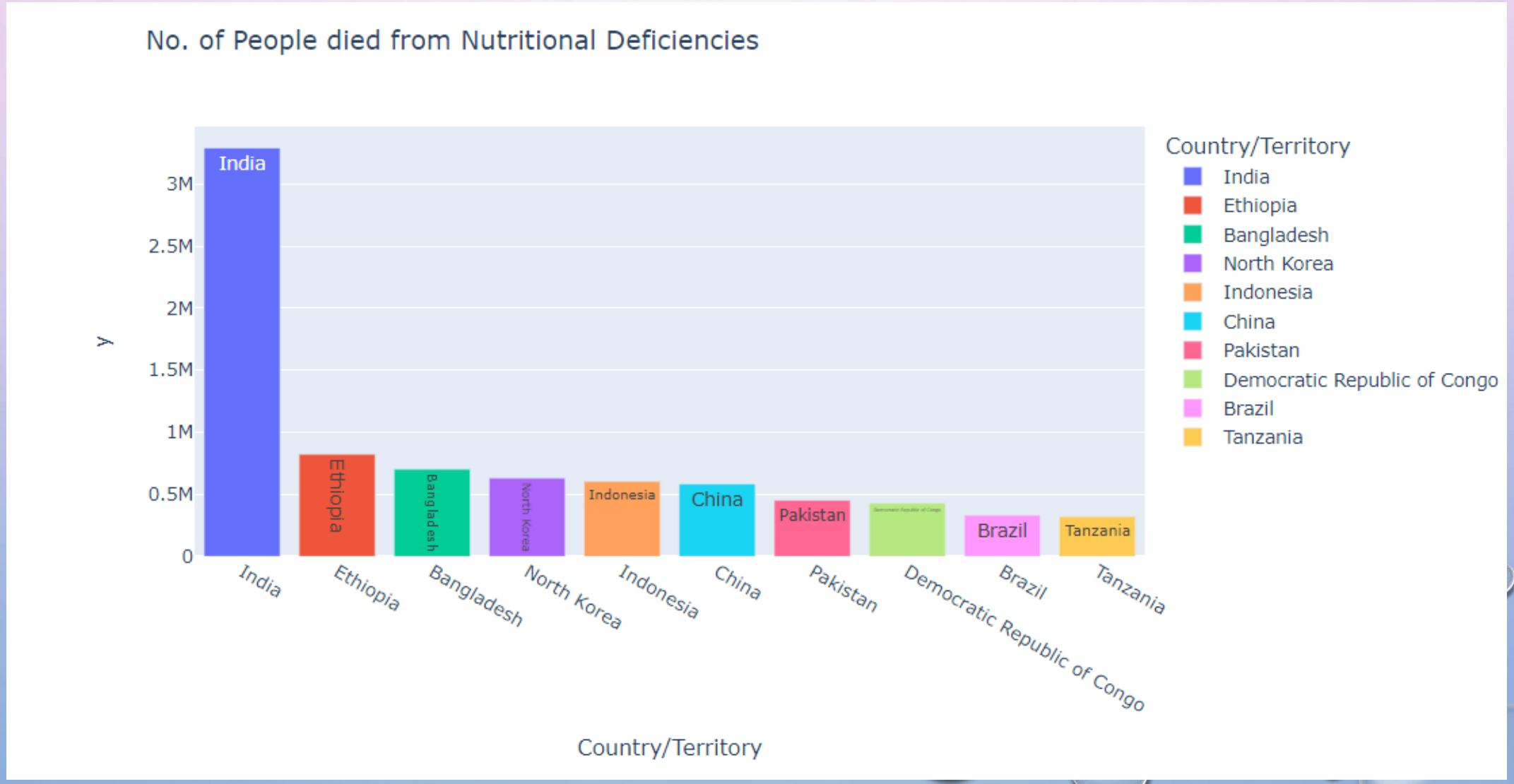
05. ALZHEIMER'S DISEASE AND OTHER DEMENTIAS - NO. OF PEOPLE DIED FROM ALZHEIMER'S DISEASE AND OTHER DEMENTIAS



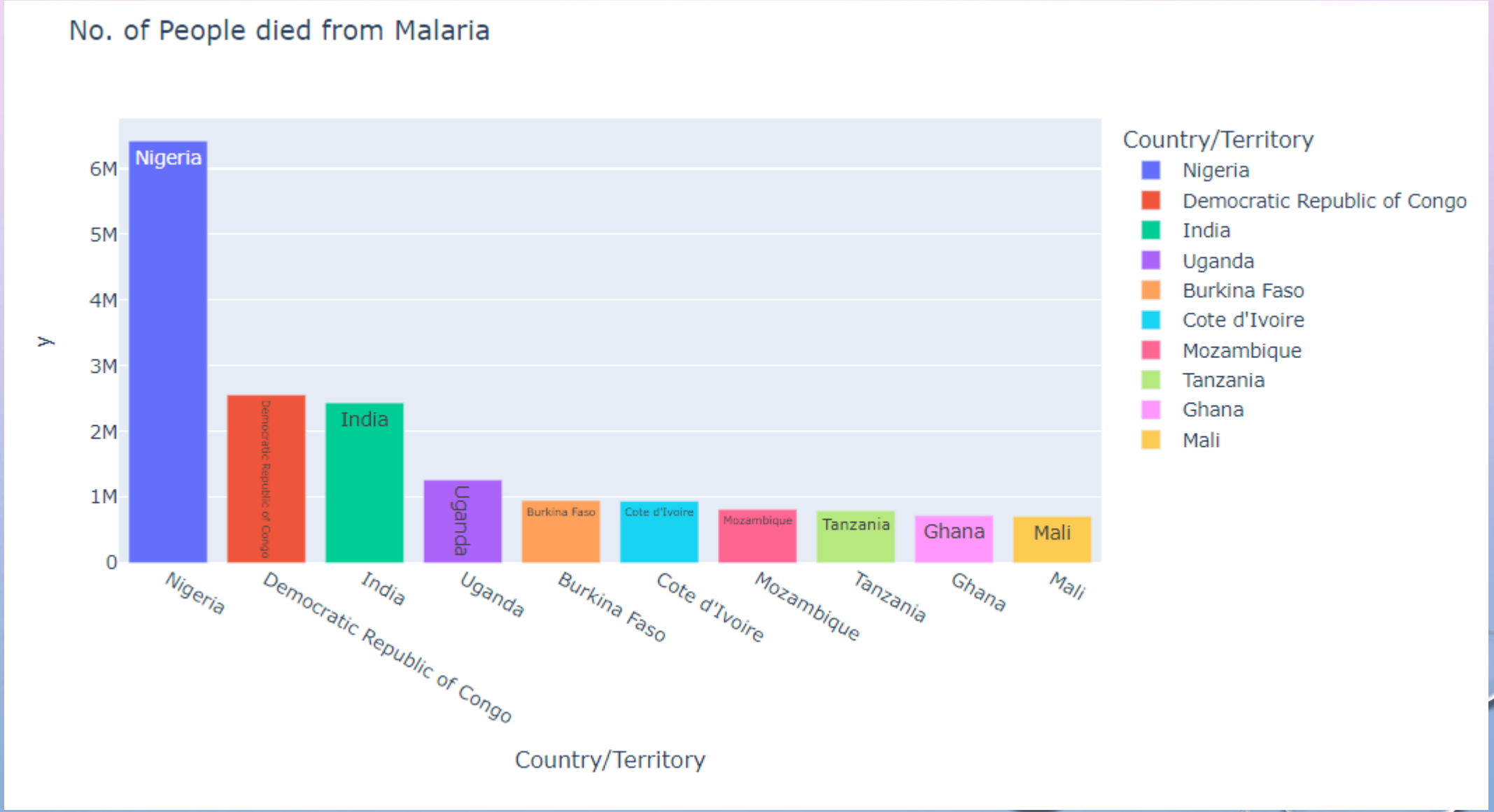
06. PARKINSON'S DISEASE - NO. OF PEOPLE DIED FROM PARKINSON'S DISEASE



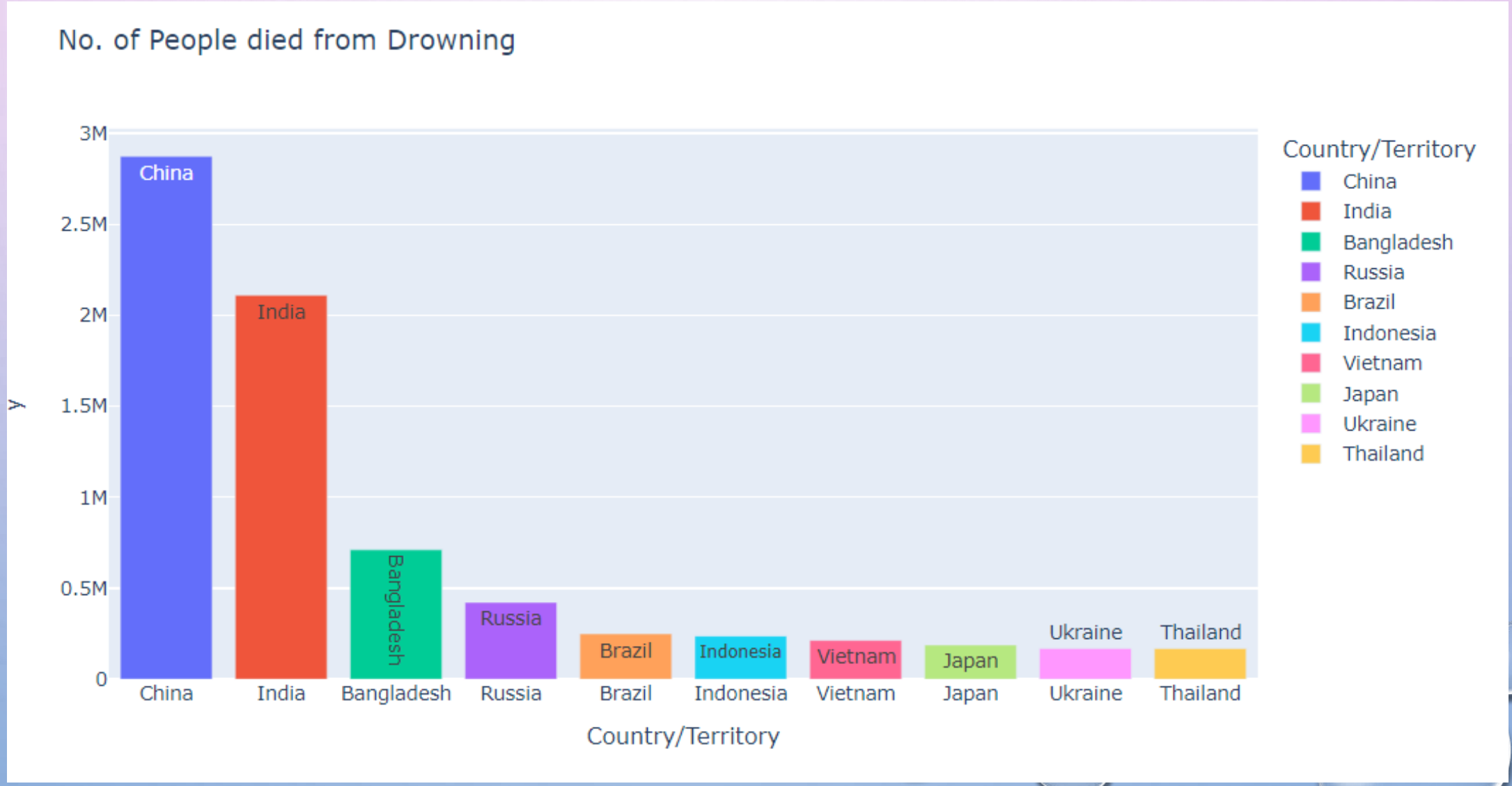
07. NUTRITIONAL DEFICIENCIES - NO. OF PEOPLE DIED FROM NUTRITIONAL DEFICIENCIES



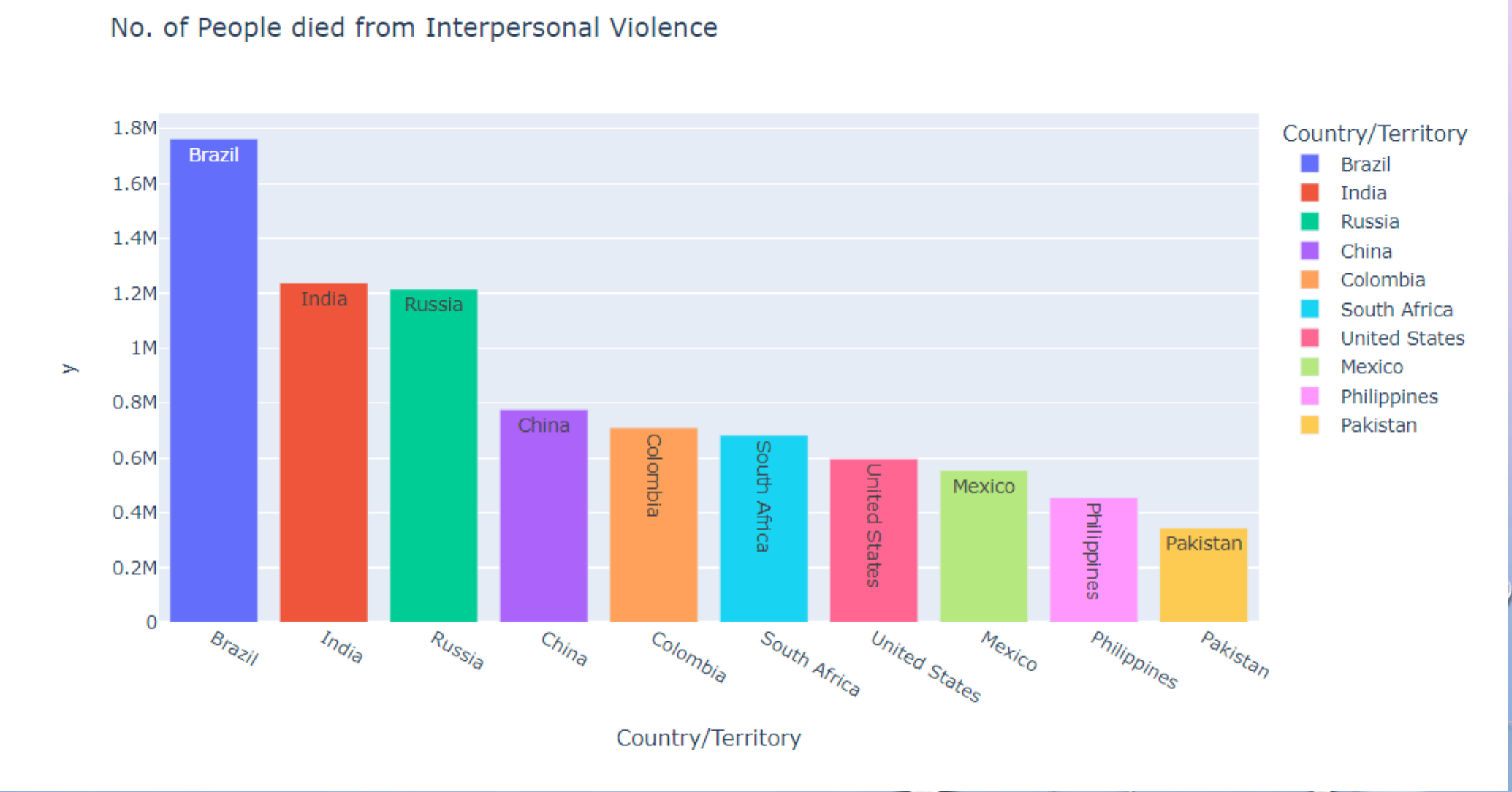
08. MALARIA - NO. OF PEOPLE DIED FROM MALARIA



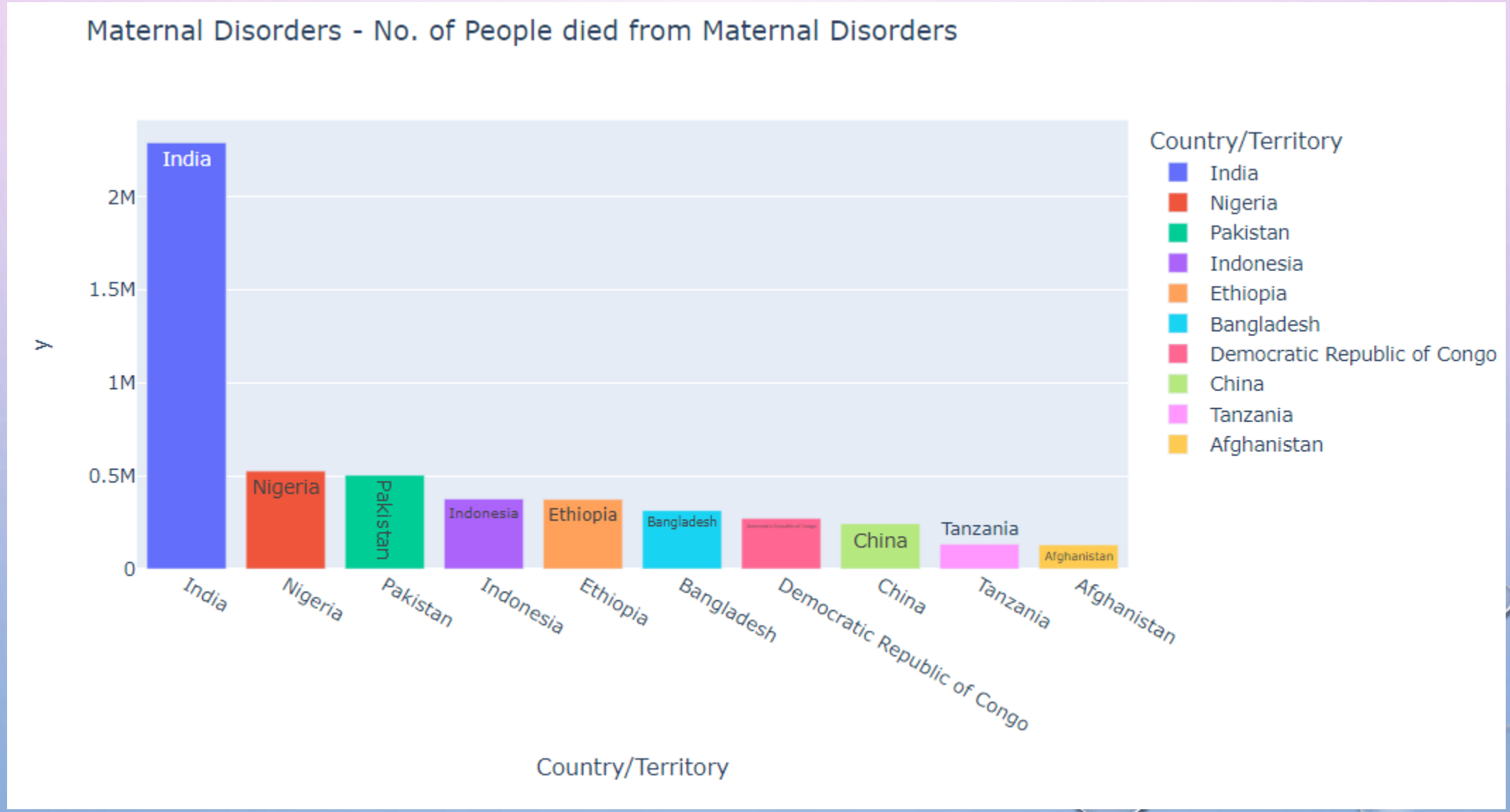
09. DROWNING - NO. OF PEOPLE DIED FROM DROWNING



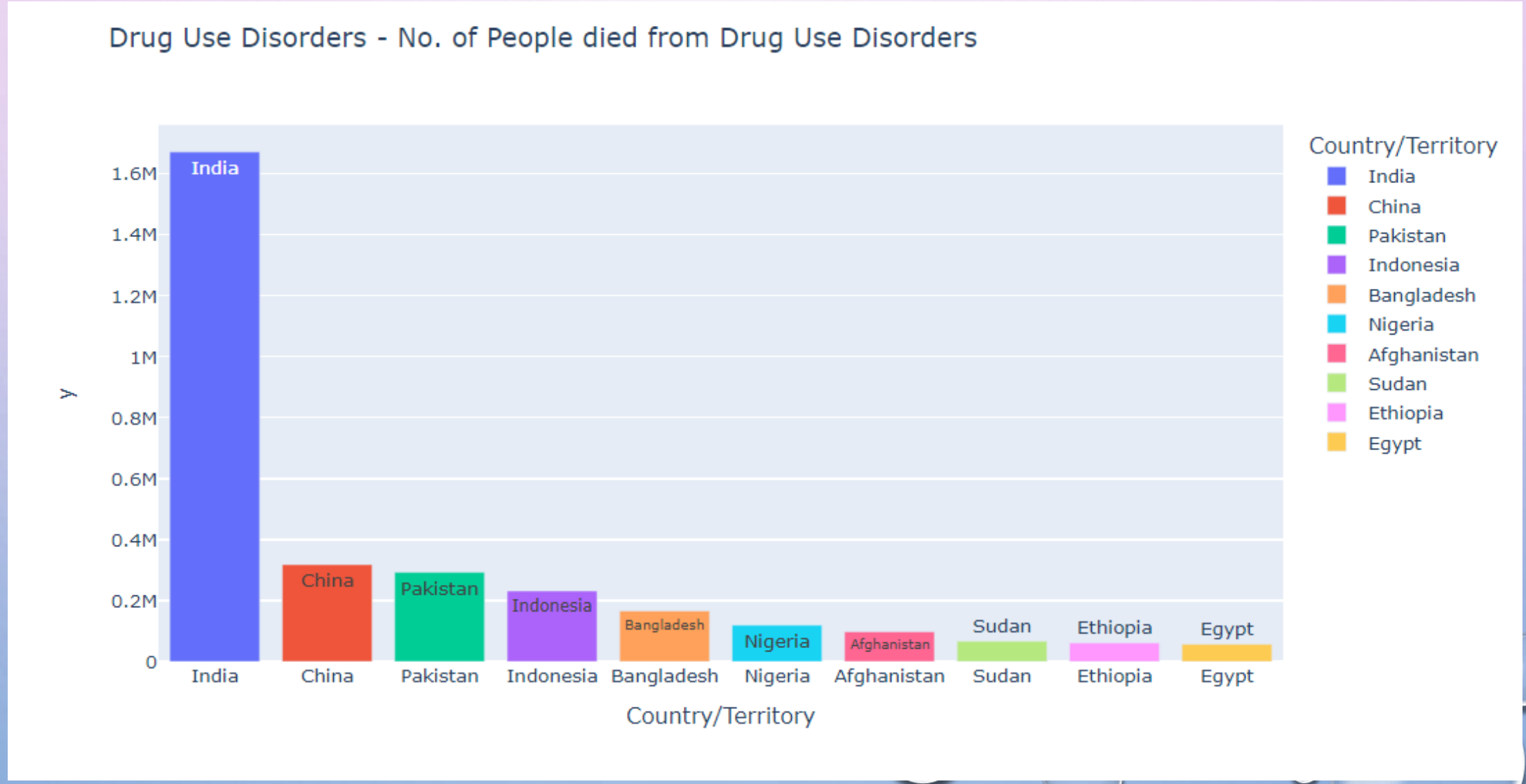
10. INTERPERSONAL VIOLENCE - NO. OF PEOPLE DIED FROM INTERPERSONAL VIOLENCE



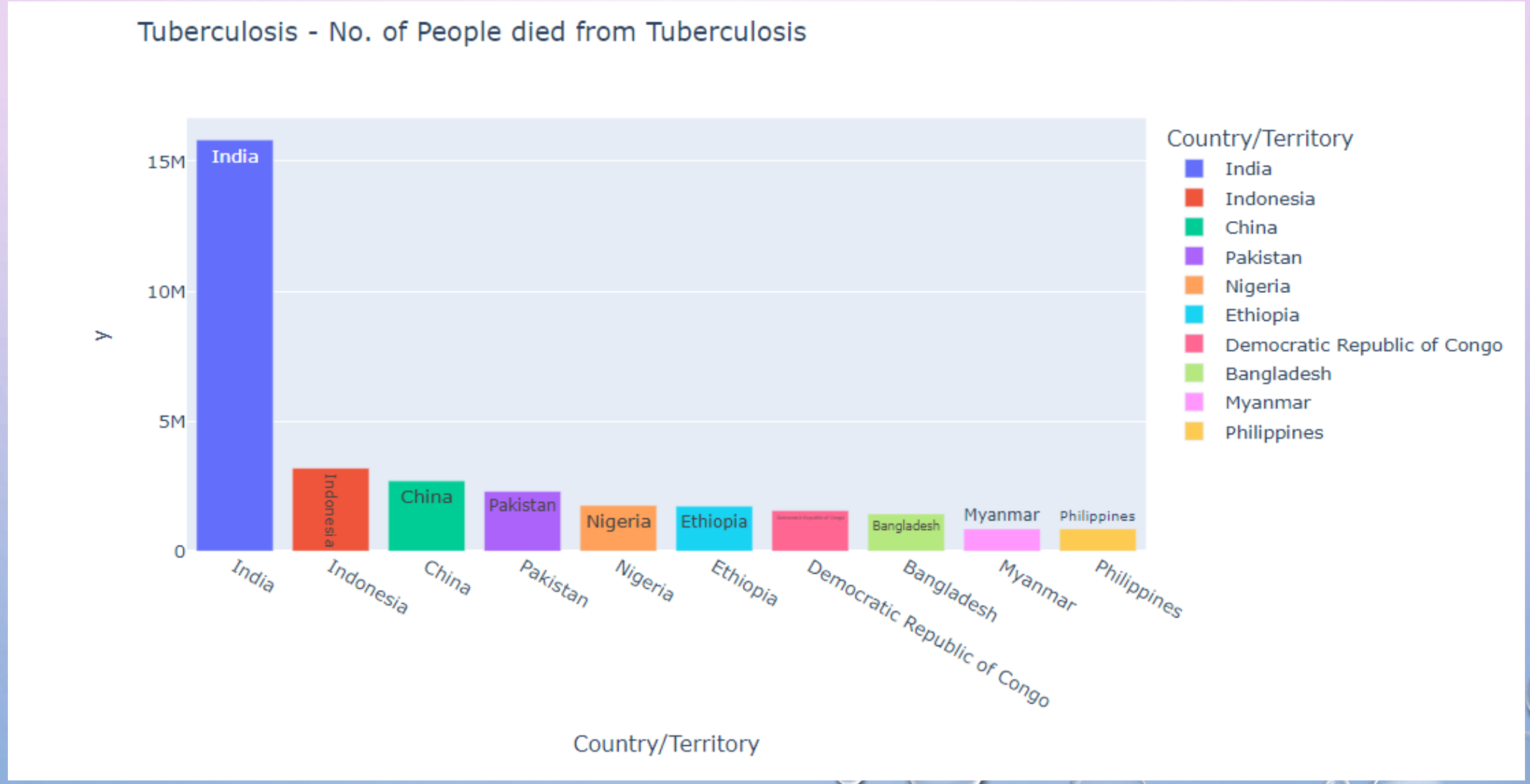
11. MATERNAL DISORDERS - NO. OF PEOPLE DIED FROM MATERNAL DISORDERS



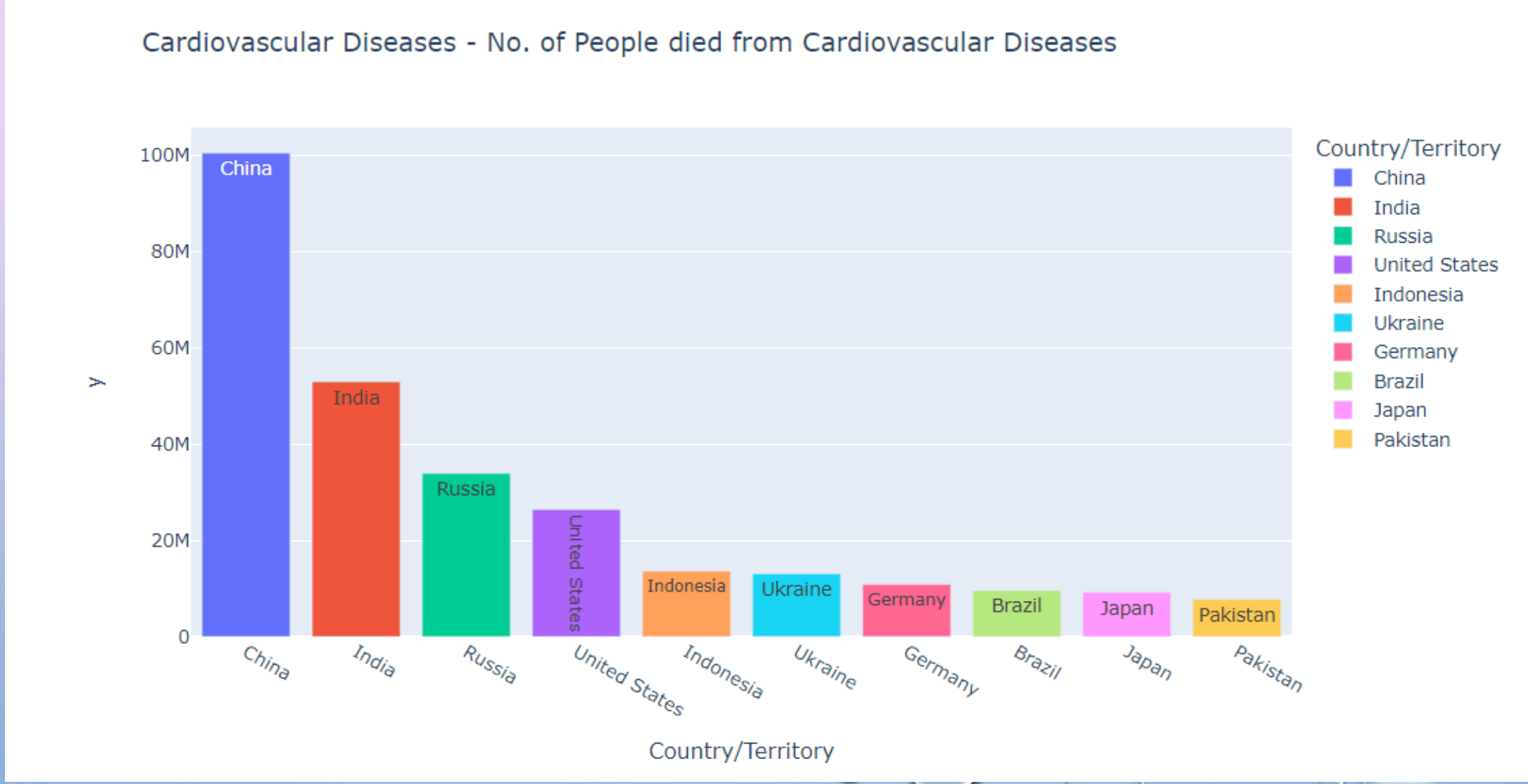
12. DRUG USE DISORDERS - NO. OF PEOPLE DIED FROM DRUG USE DISORDERS



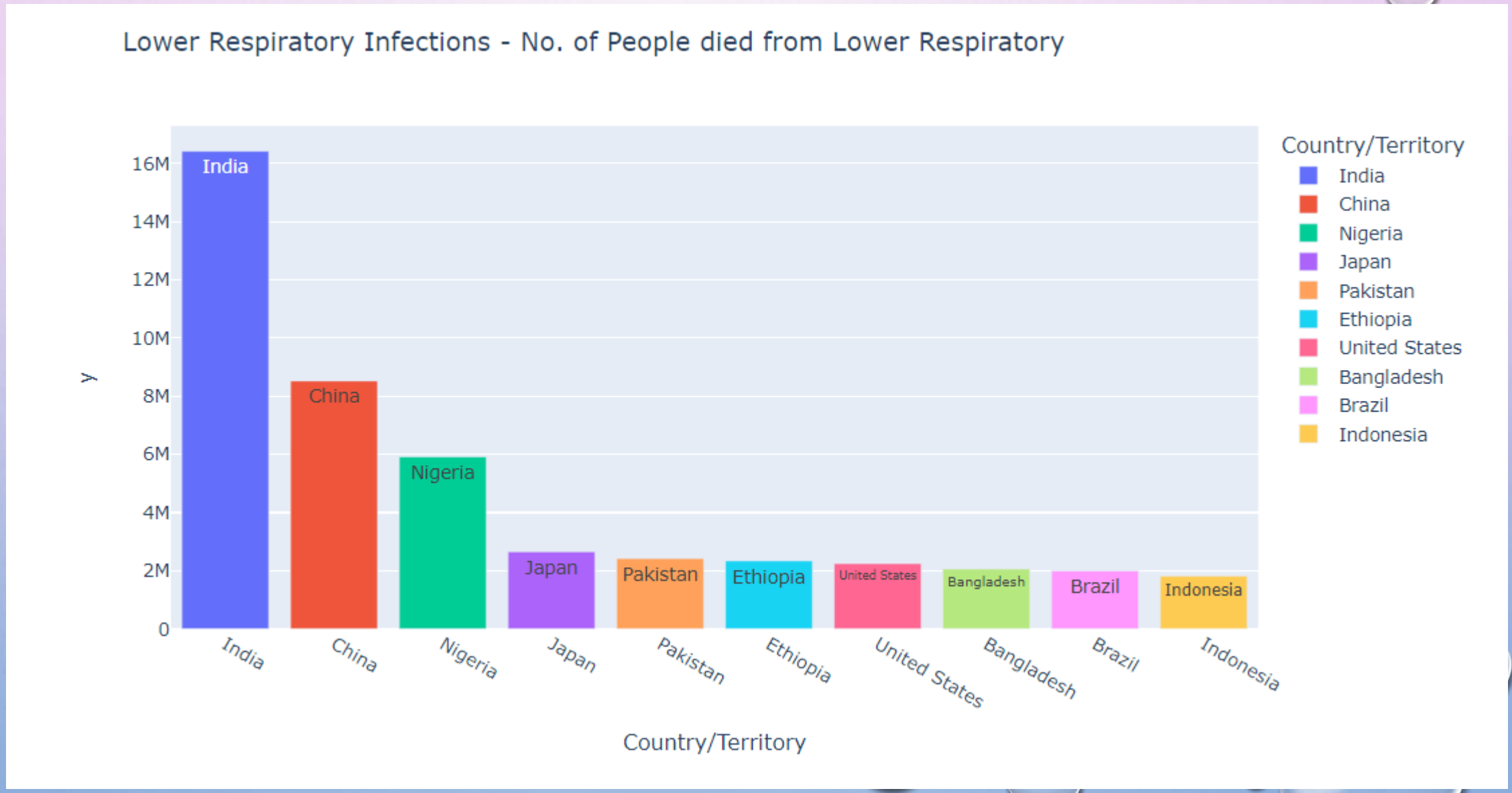
13. TUBERCULOSIS - NO. OF PEOPLE DIED FROM TUBERCULOSIS



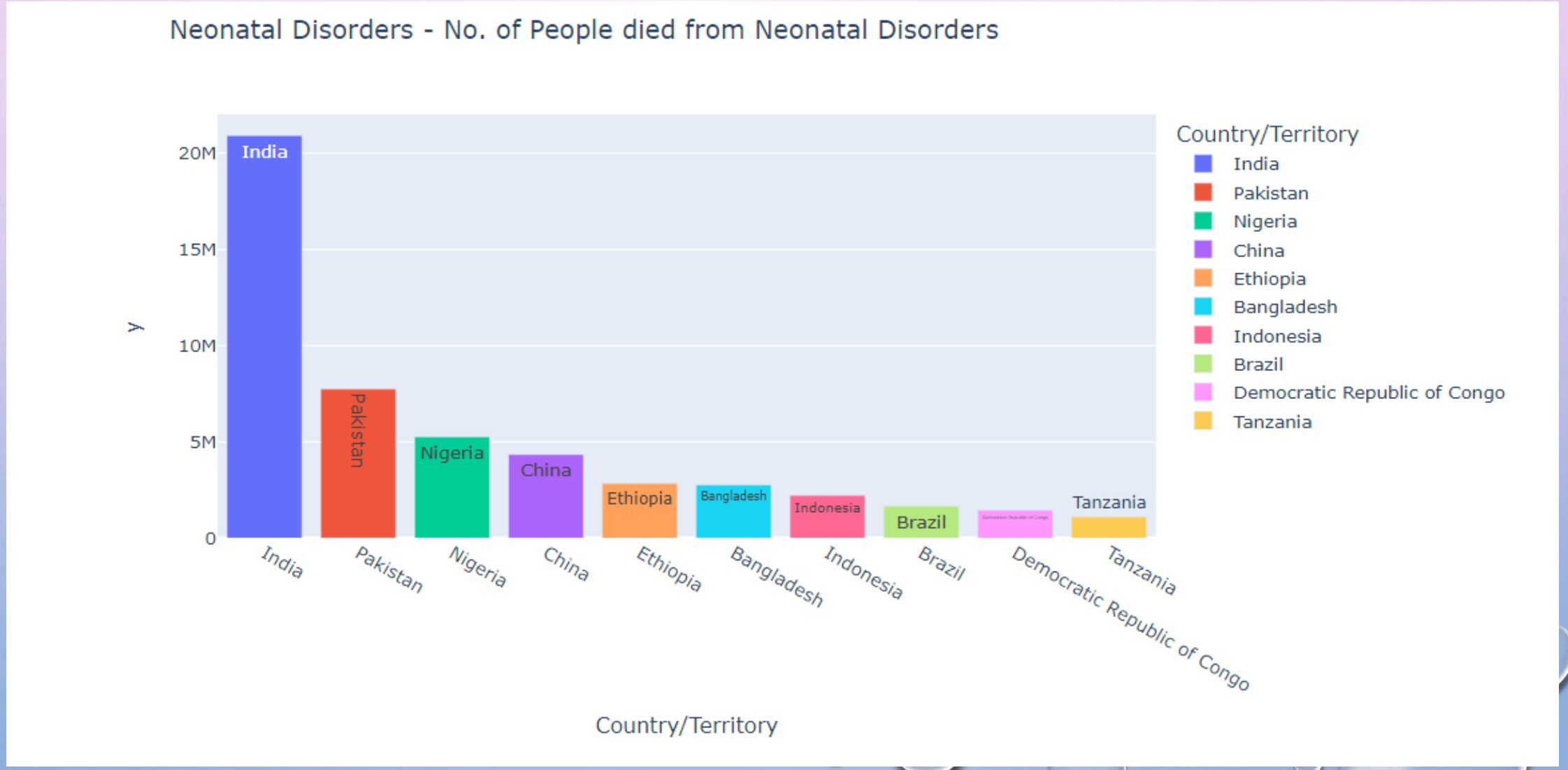
14. CARDIOVASCULAR DISEASES - NO. OF PEOPLE DIED FROM CARDIOVASCULAR DISEASES



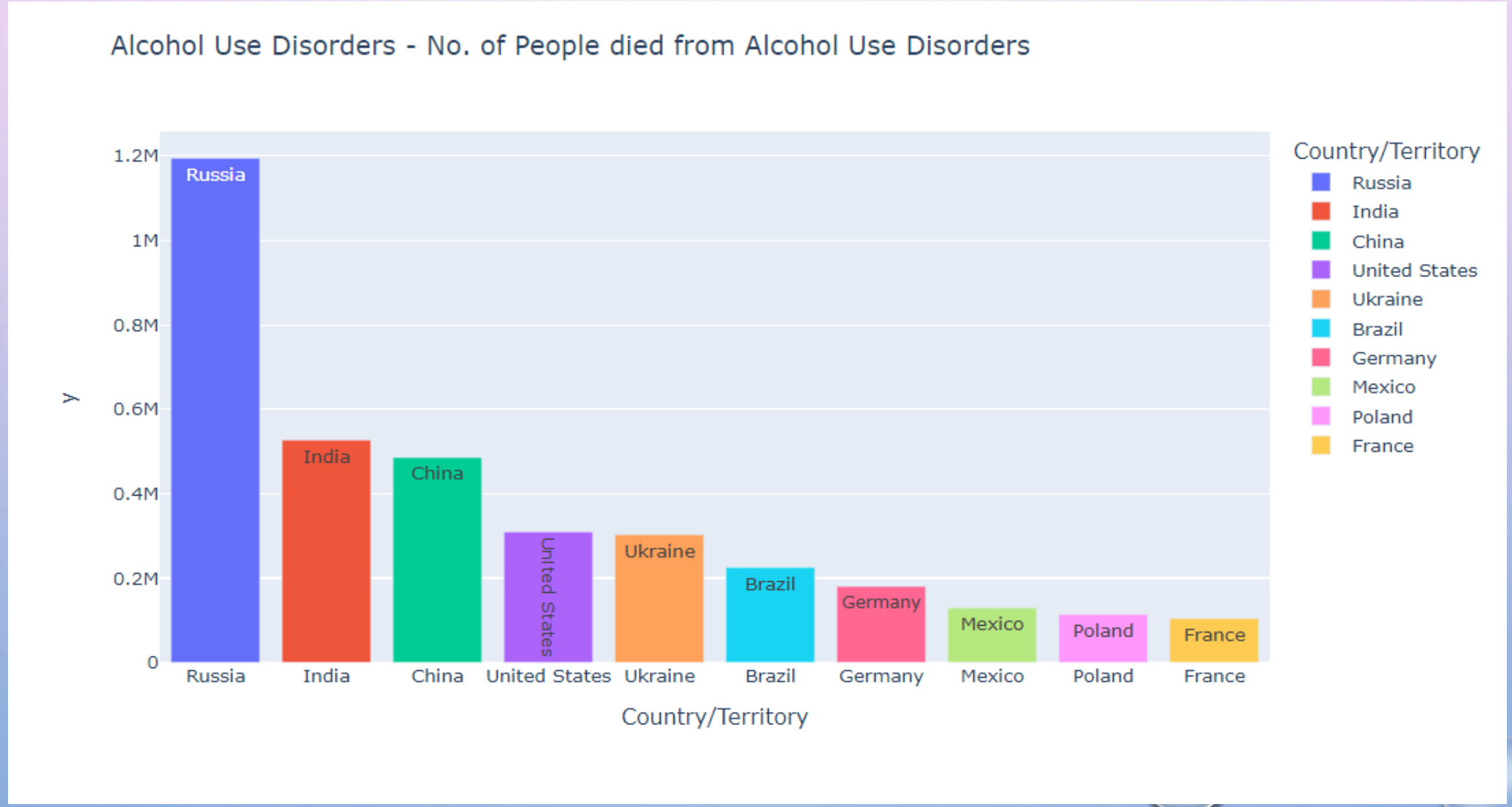
15. LOWER RESPIRATORY INFECTIONS - NO. OF PEOPLE DIED FROM LOWER RESPIRATORY INFECTIONS



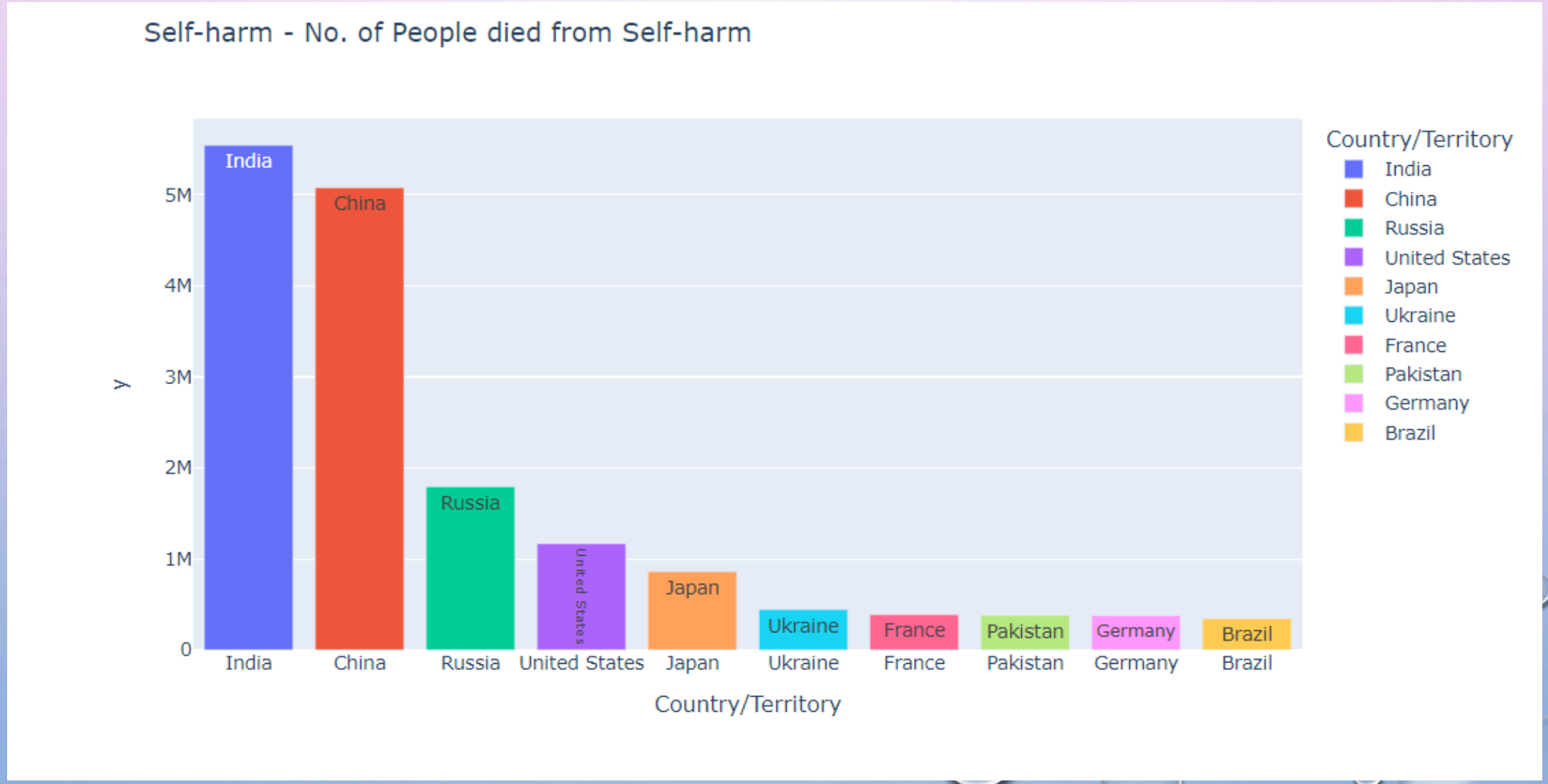
16. NEONATAL DISORDERS - NO. OF PEOPLE DIED FROM NEONATAL DISORDERS



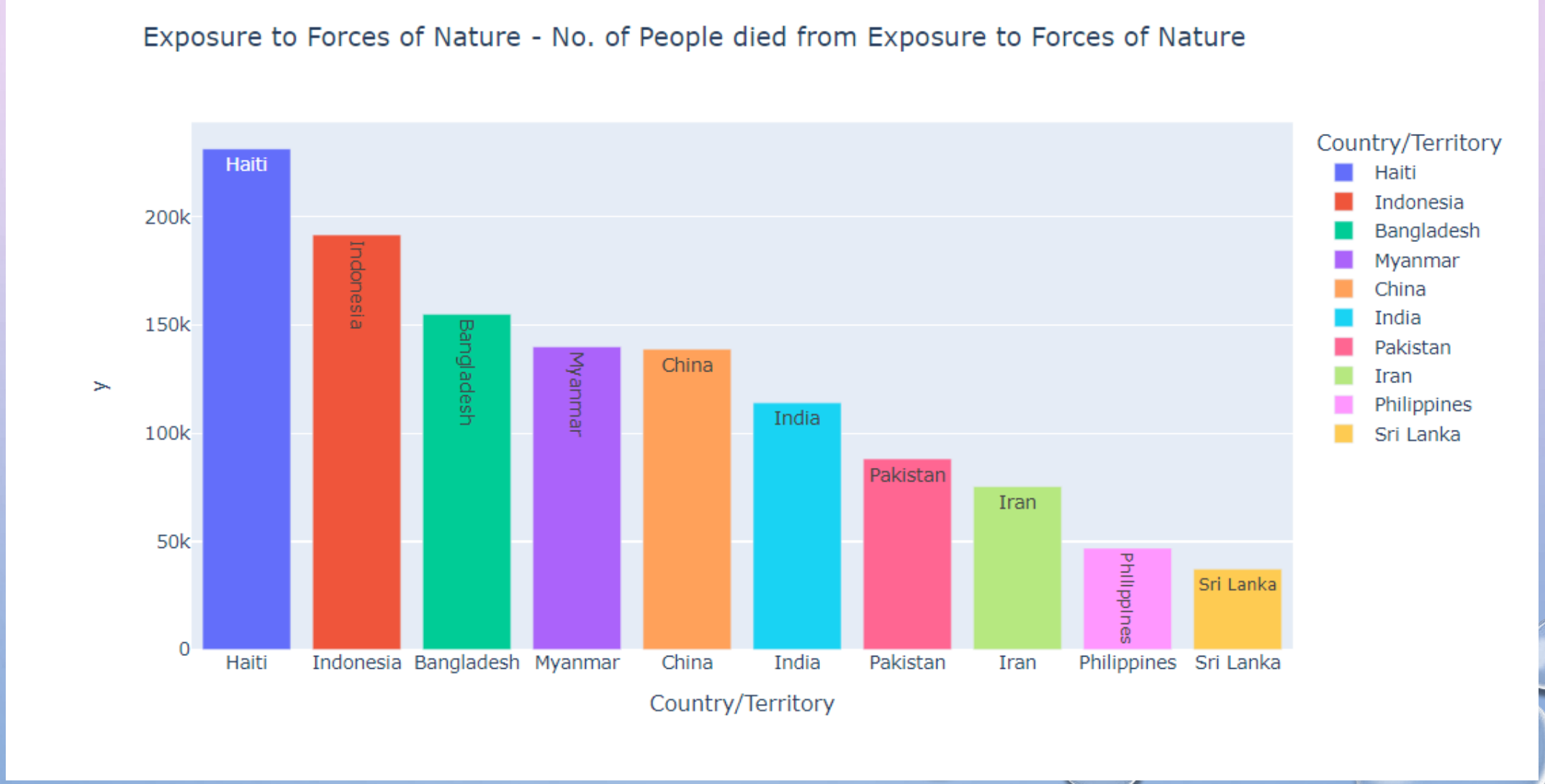
17. ALCOHOL USE DISORDERS - NO. OF PEOPLE DIED FROM ALCOHOL USE DISORDERS



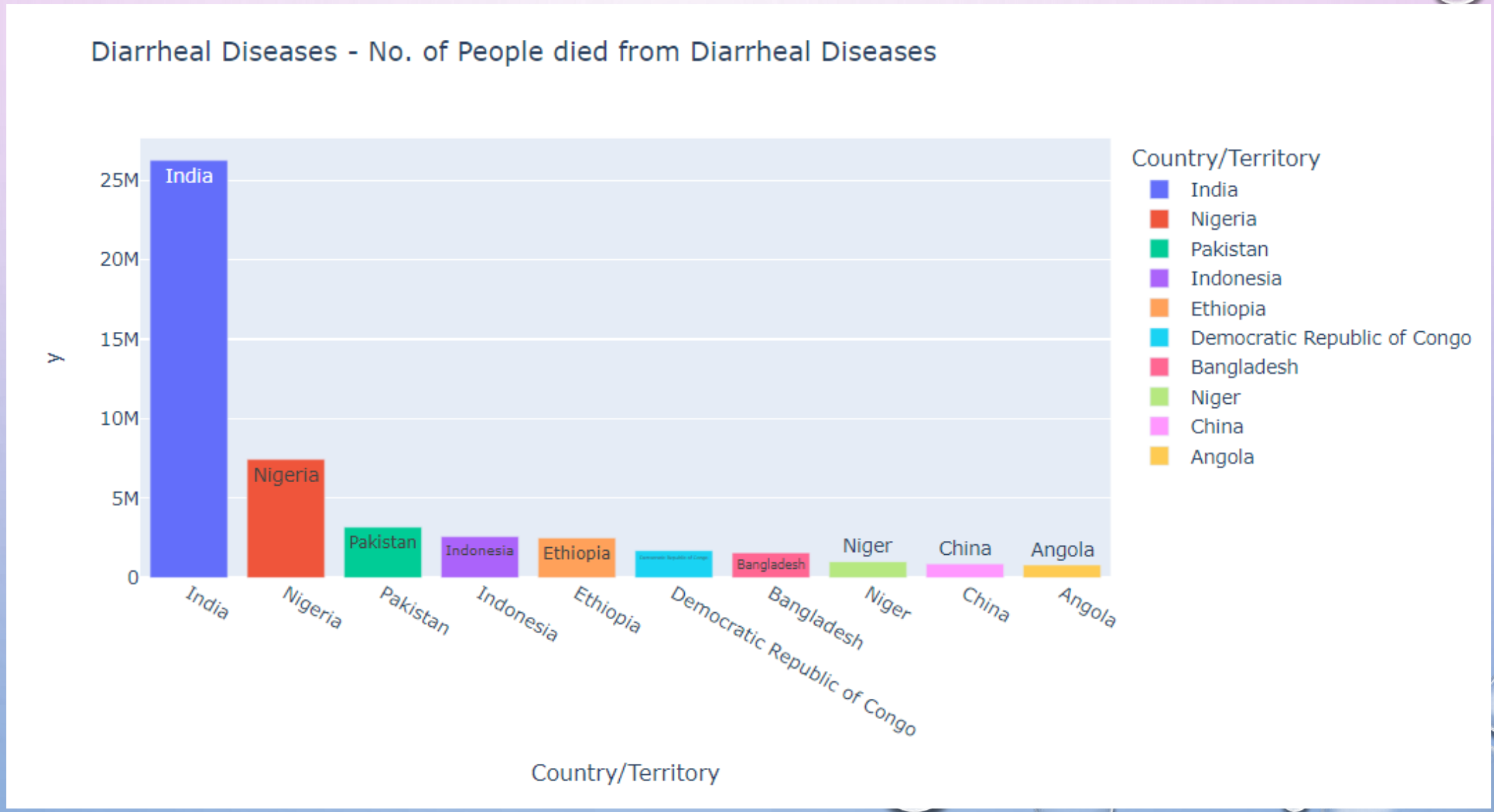
18. SELF-HARM - NO. OF PEOPLE DIED FROM SELF-HARM



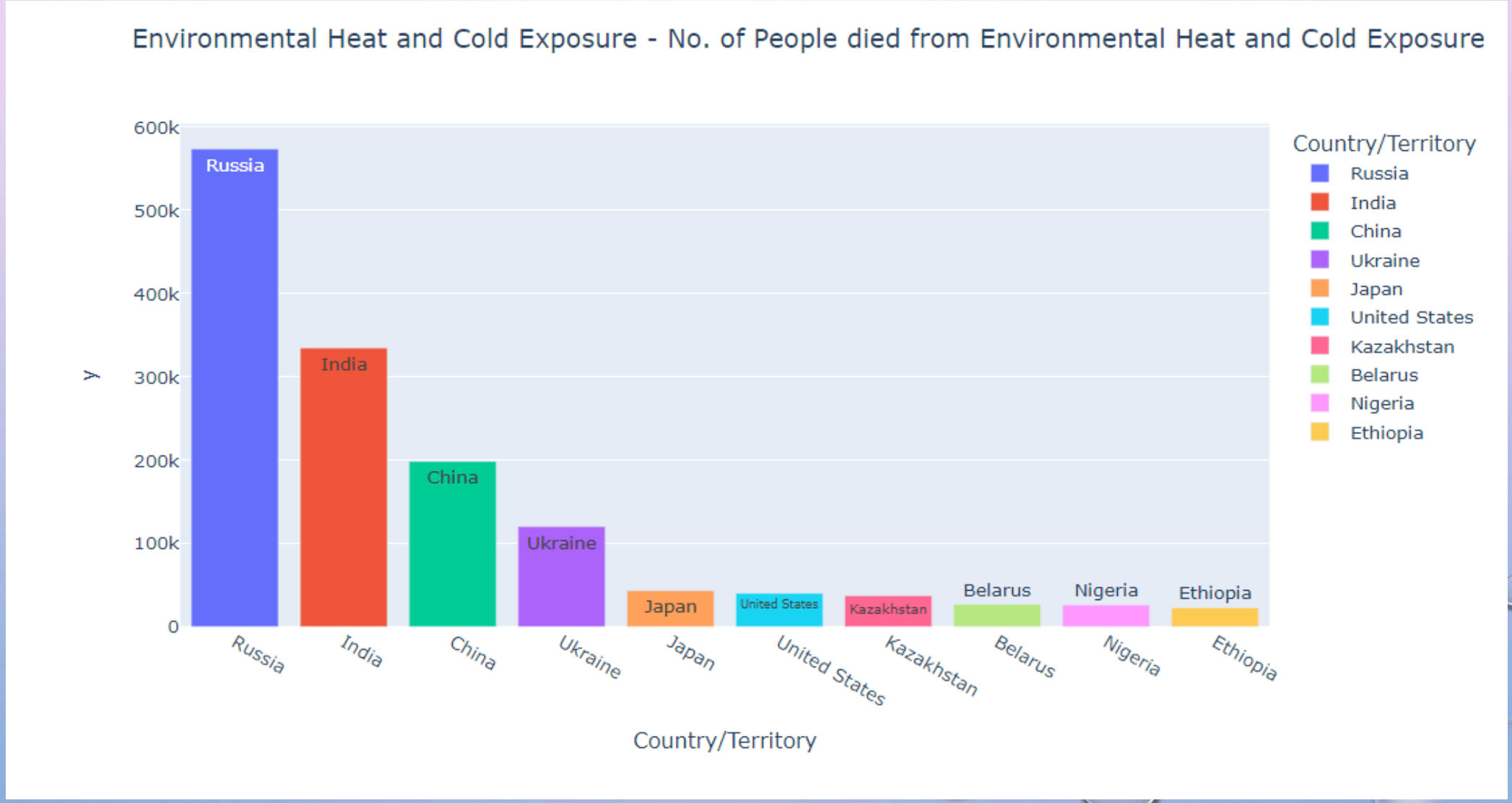
19. EXPOSURE TO FORCES OF NATURE - NO. OF PEOPLE DIED FROM EXPOSURE TO FORCES OF NATURE



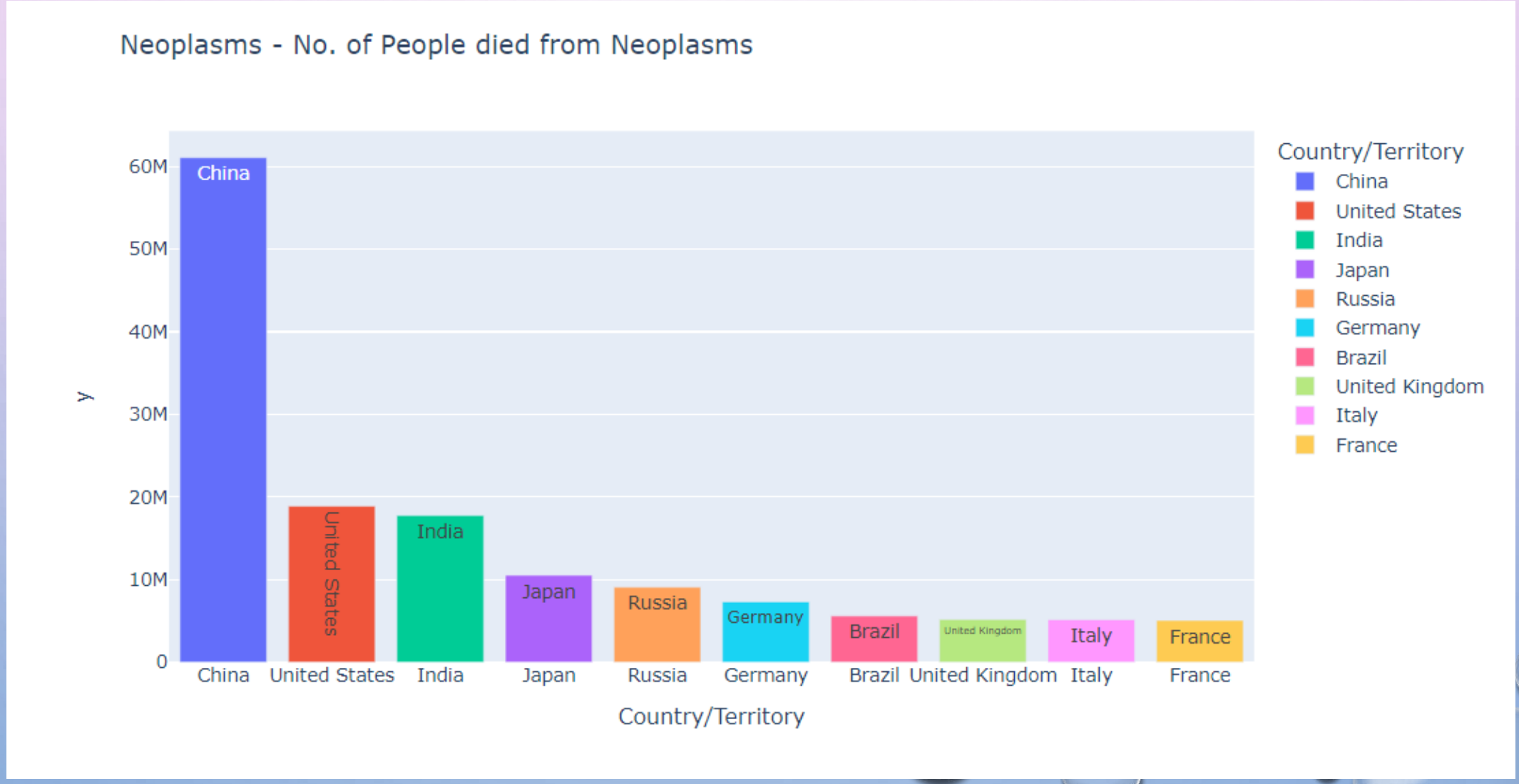
20. DIARRHEAL DISEASES - NO. OF PEOPLE DIED FROM DIARRHEAL DISEASES



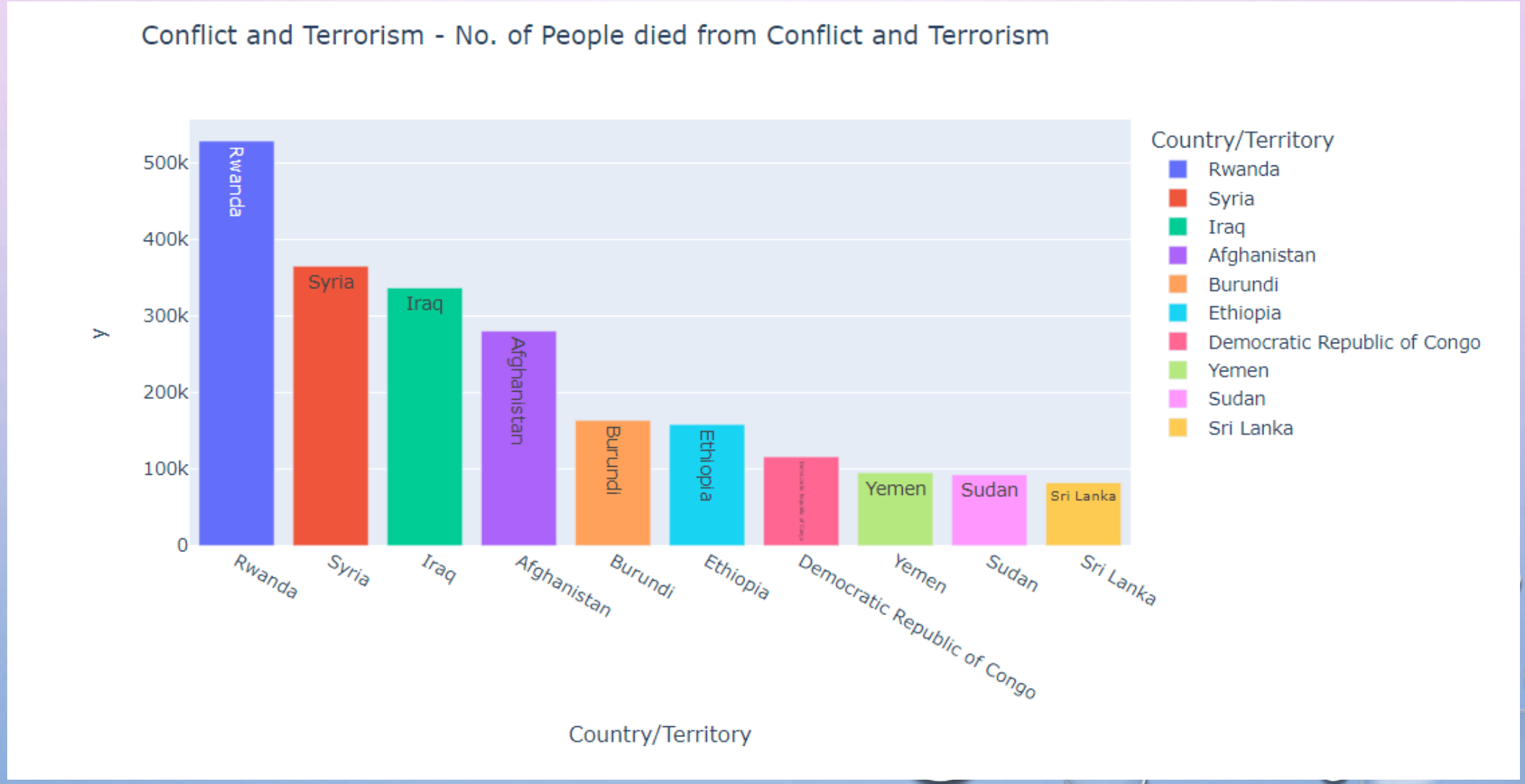
21. ENVIRONMENTAL HEAT AND COLD EXPOSURE - NO. OF PEOPLE DIED FROM ENVIRONMENTAL HEAT AND COLD EXPOSURE



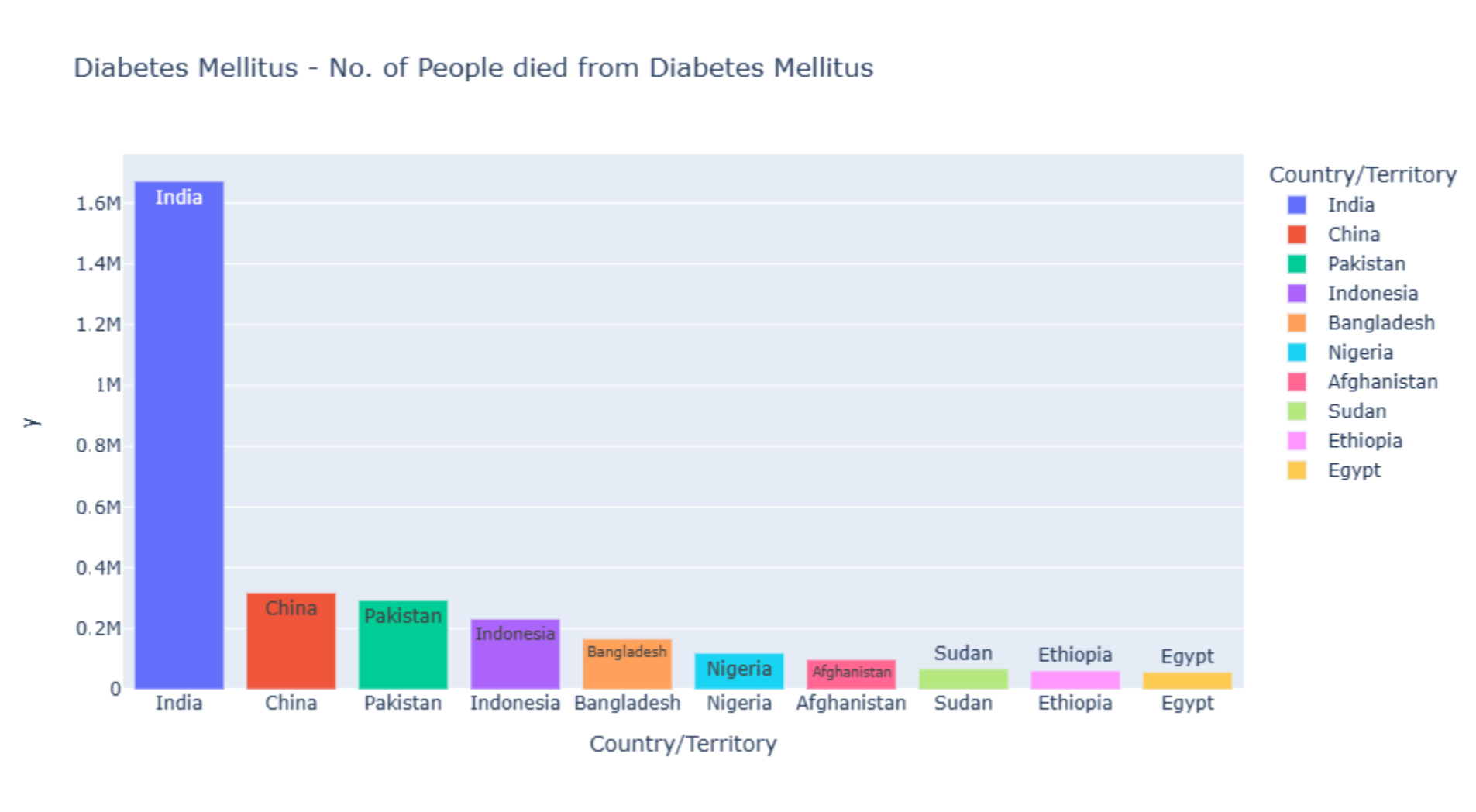
22. NEOPLASMS - NO. OF PEOPLE DIED FROM NEOPLASMS



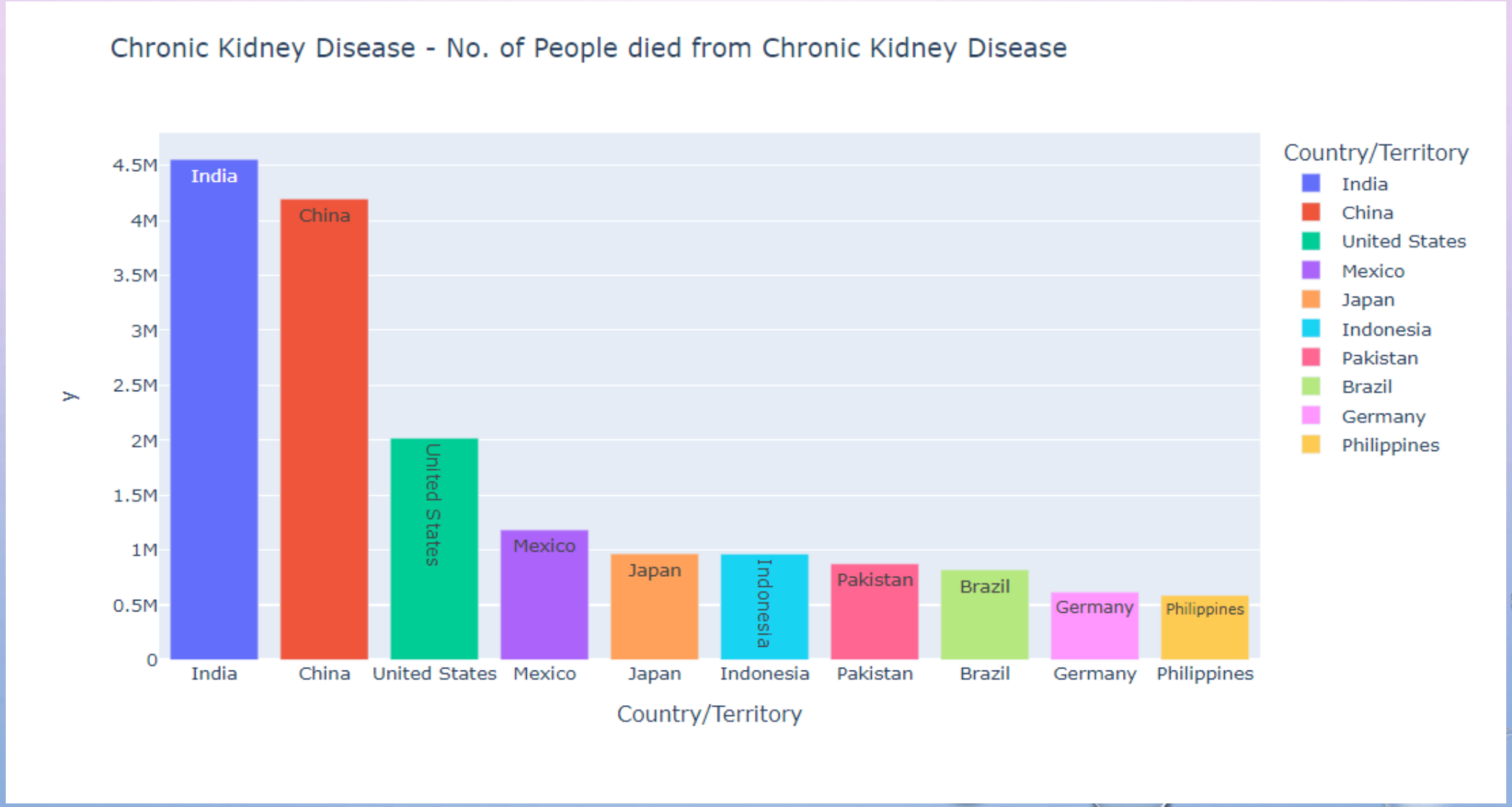
23. CONFLICT AND TERRORISM - NO. OF PEOPLE DIED FROM CONFLICT AND TERRORISM



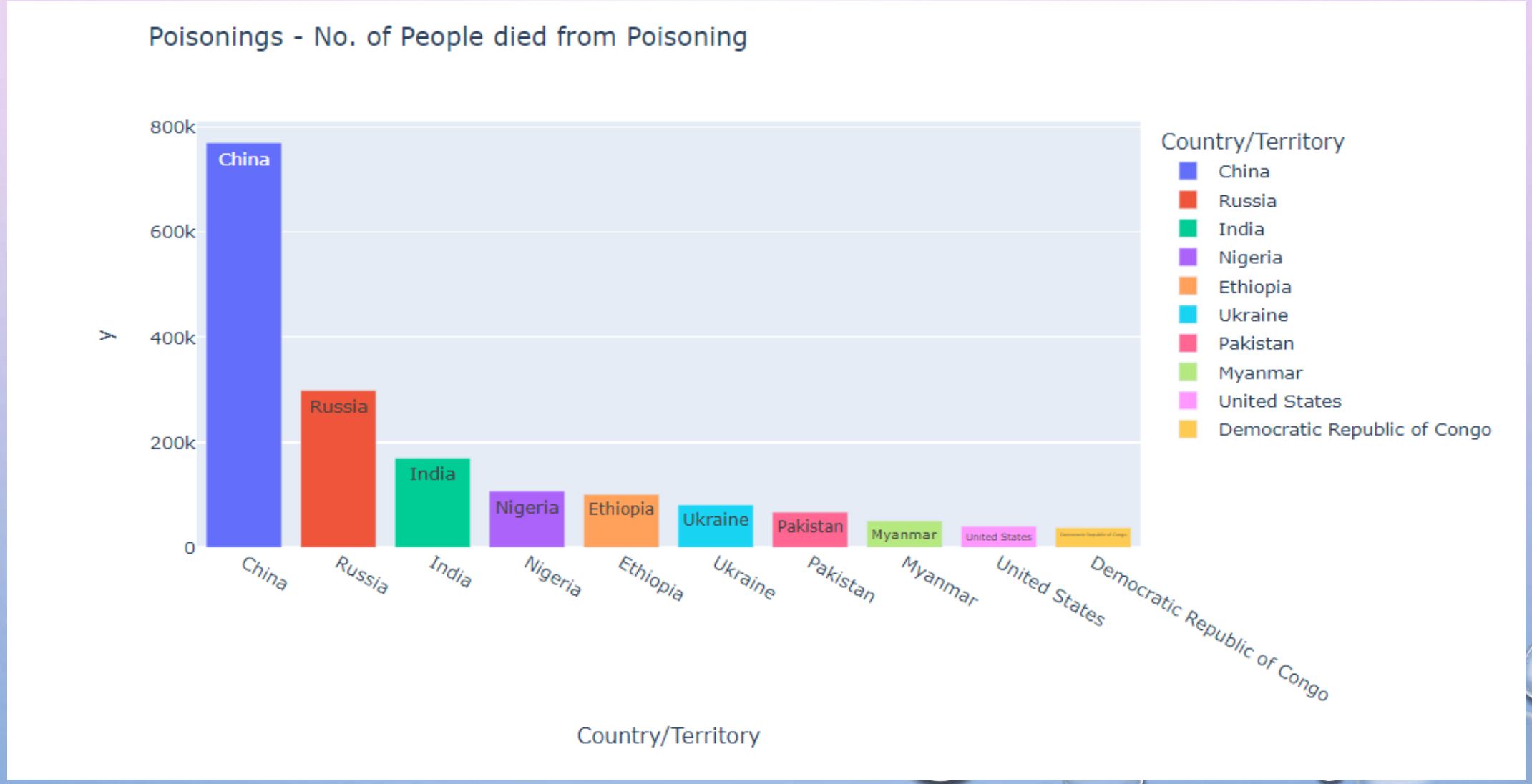
24. DIABETES MELLITUS - NO. OF PEOPLE DIED FROM DIABETES MELLITUS



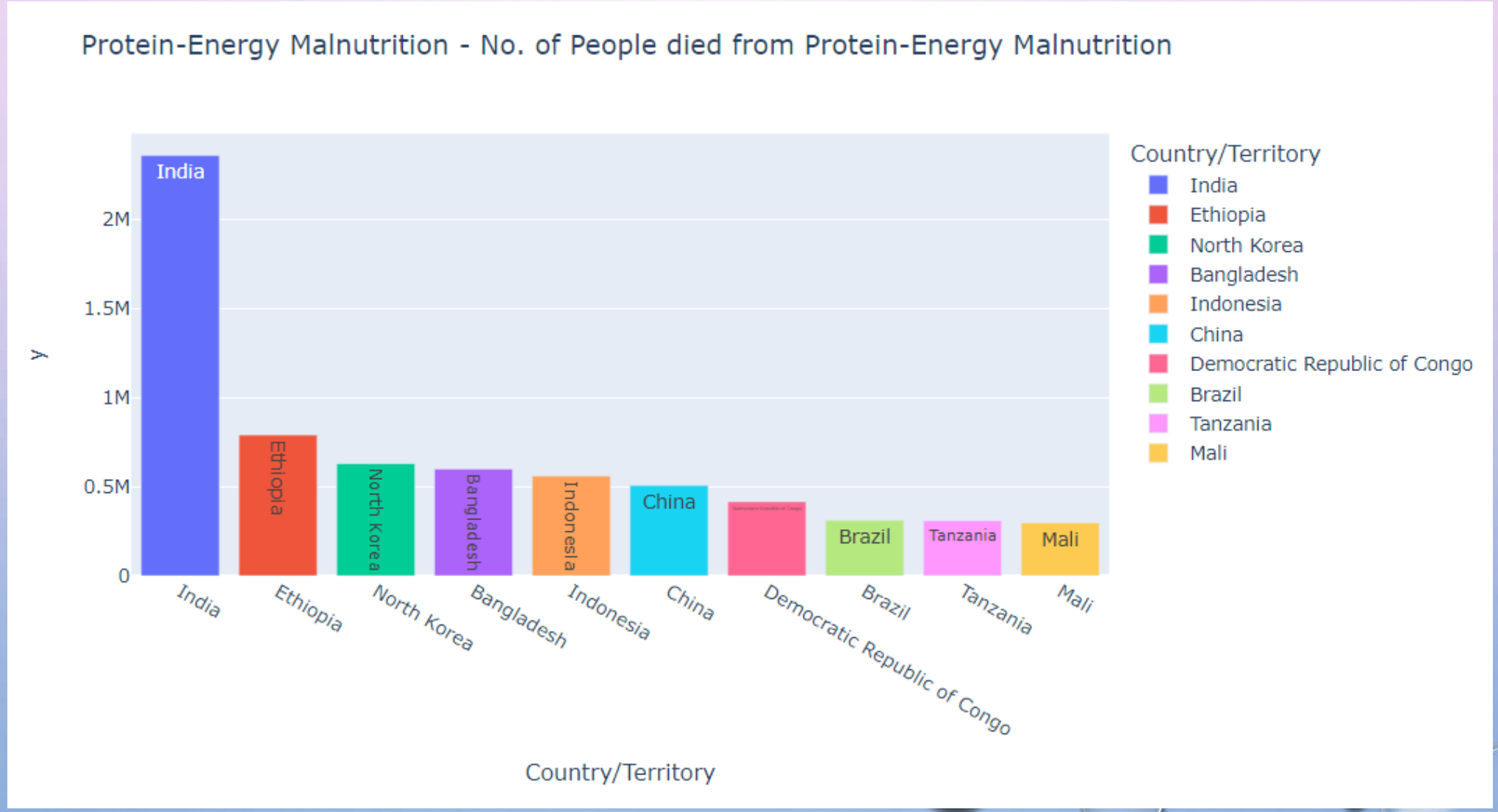
25. CHRONIC KIDNEY DISEASE - NO. OF PEOPLE DIED FROM CHRONIC KIDNEY DISEASE



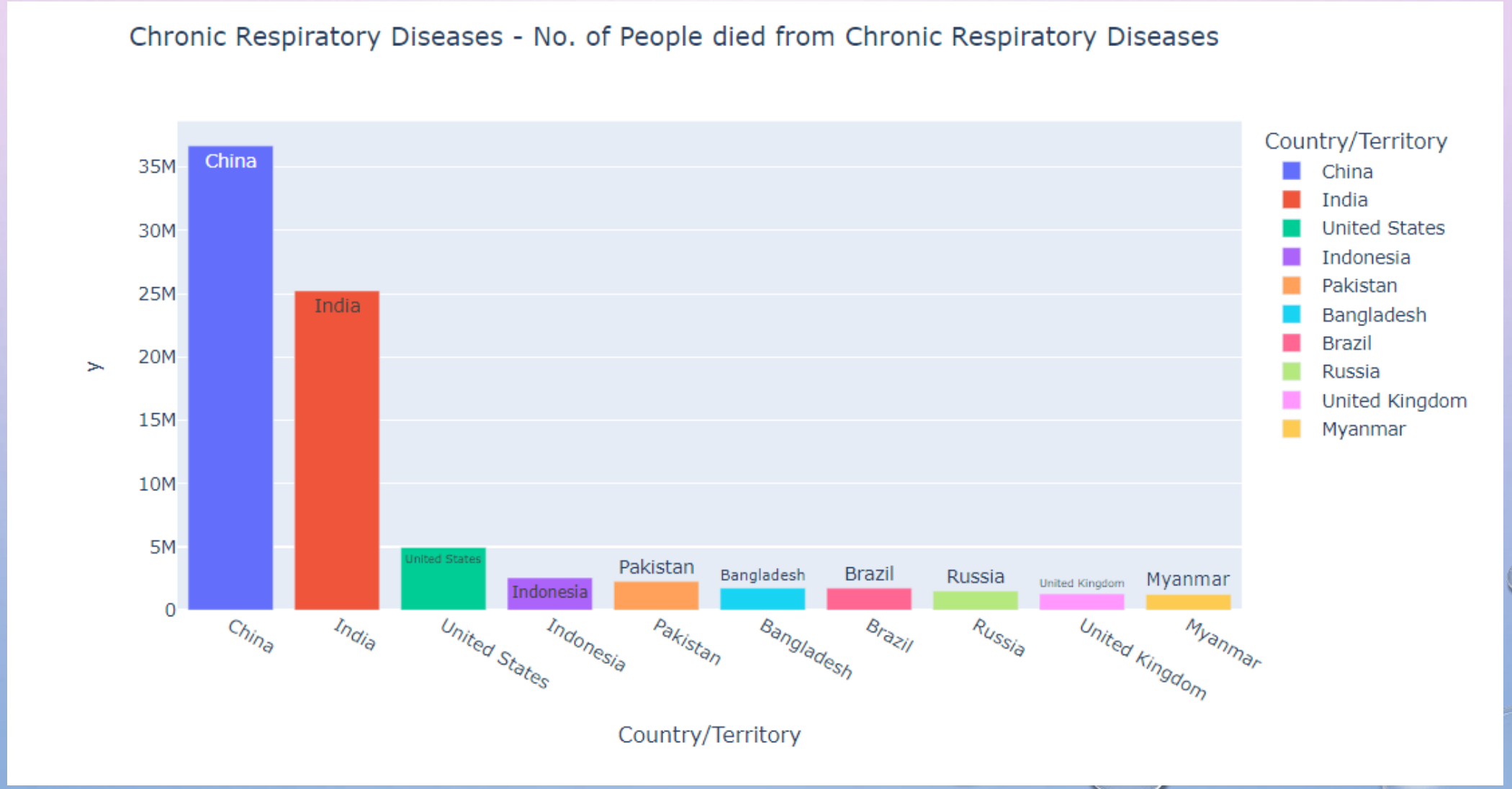
26. POISONINGS - NO. OF PEOPLE DIED FROM POISONING



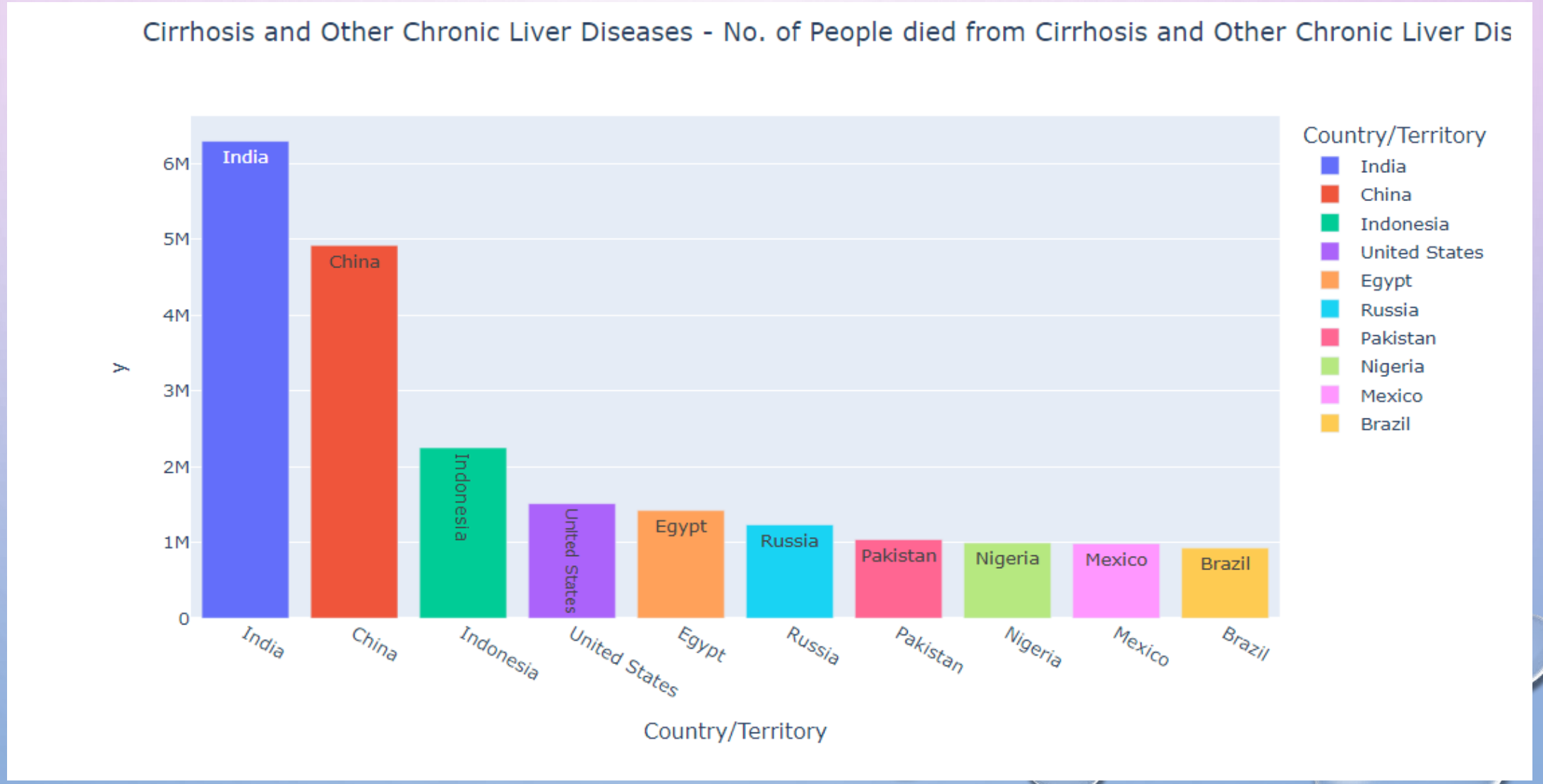
27. PROTEIN-ENERGY MALNUTRITION - NO. OF PEOPLE DIED FROM PROTEIN-ENERGY MALNUTRITION



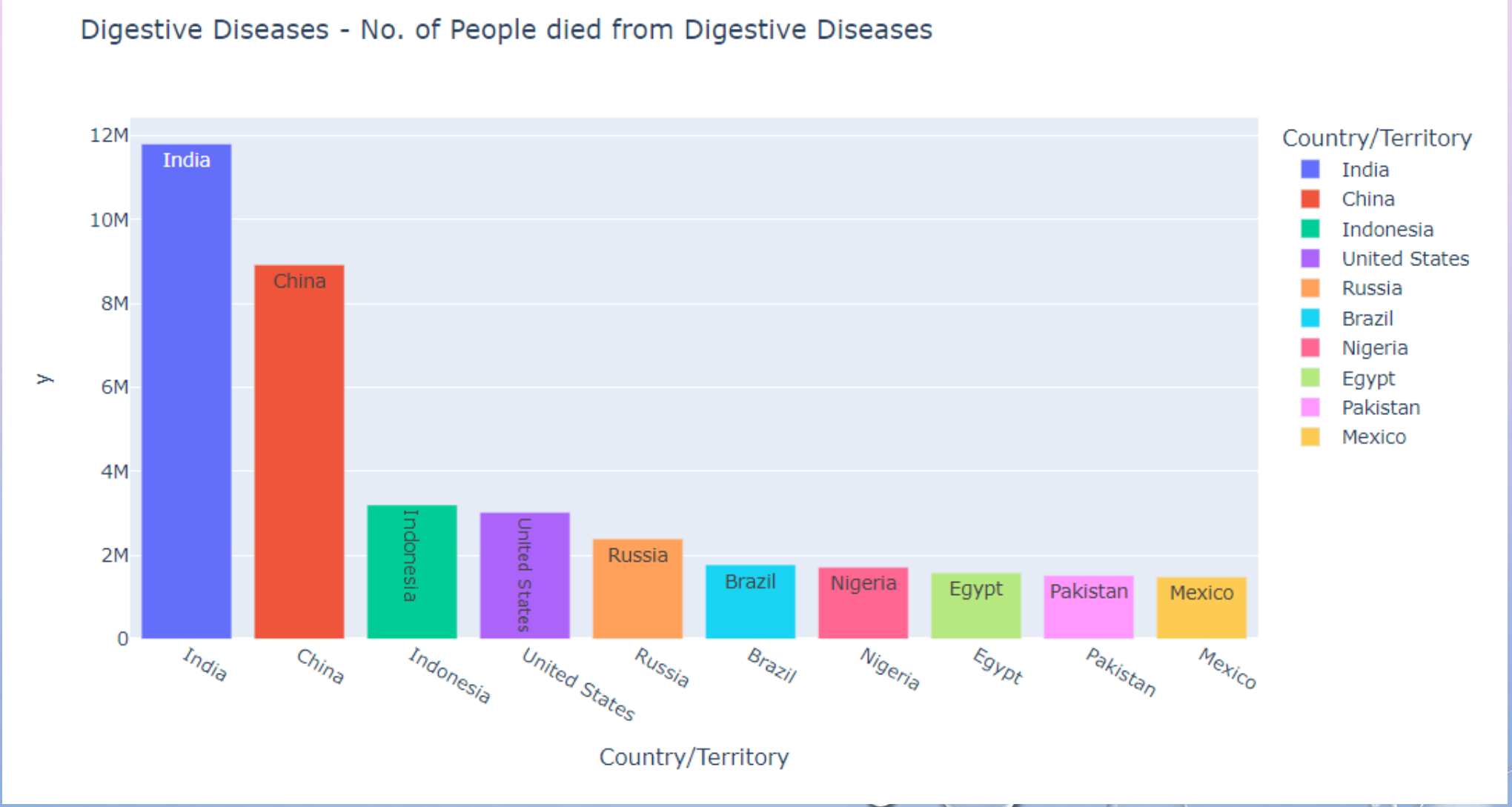
28. CHRONIC RESPIRATORY DISEASES - NO. OF PEOPLE DIED FROM CHRONIC RESPIRATORY DISEASES



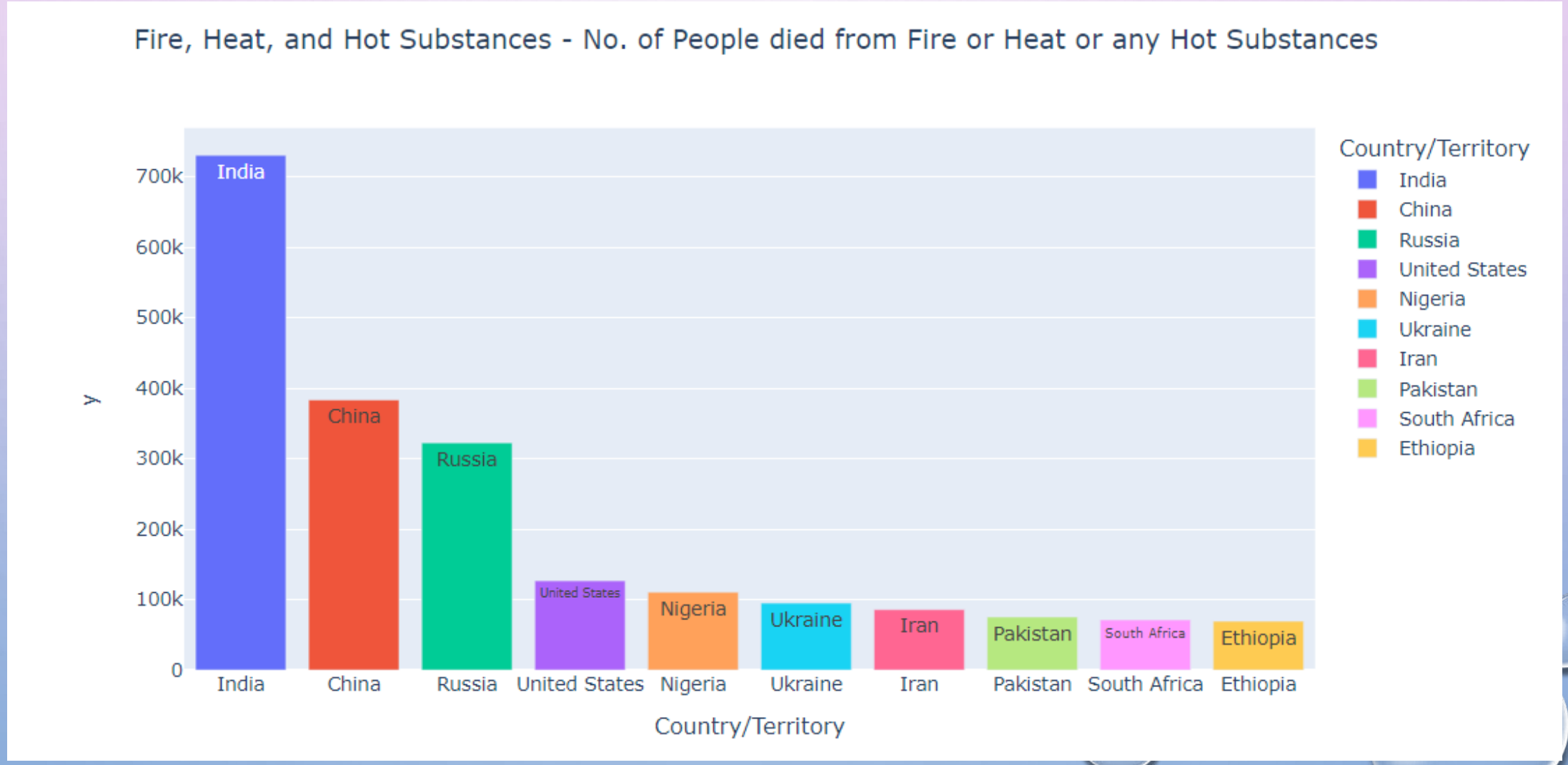
29. CIRRHOSIS AND OTHER CHRONIC LIVER DISEASES - NO. OF PEOPLE DIED FROM CIRRHOSIS AND OTHER CHRONIC LIVER DISEASES



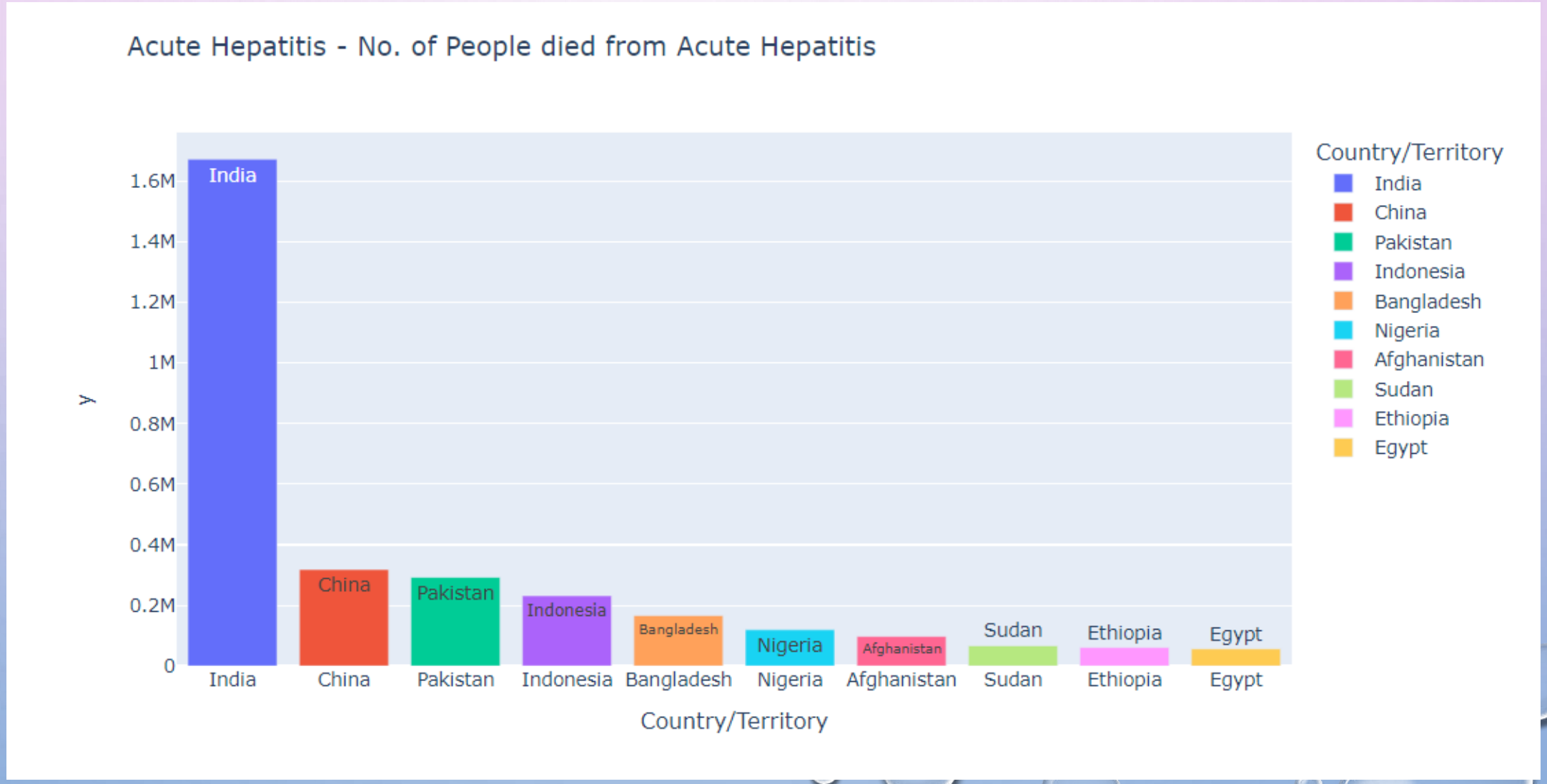
30. DIGESTIVE DISEASES - NO. OF PEOPLE DIED FROM DIGESTIVE DISEASES



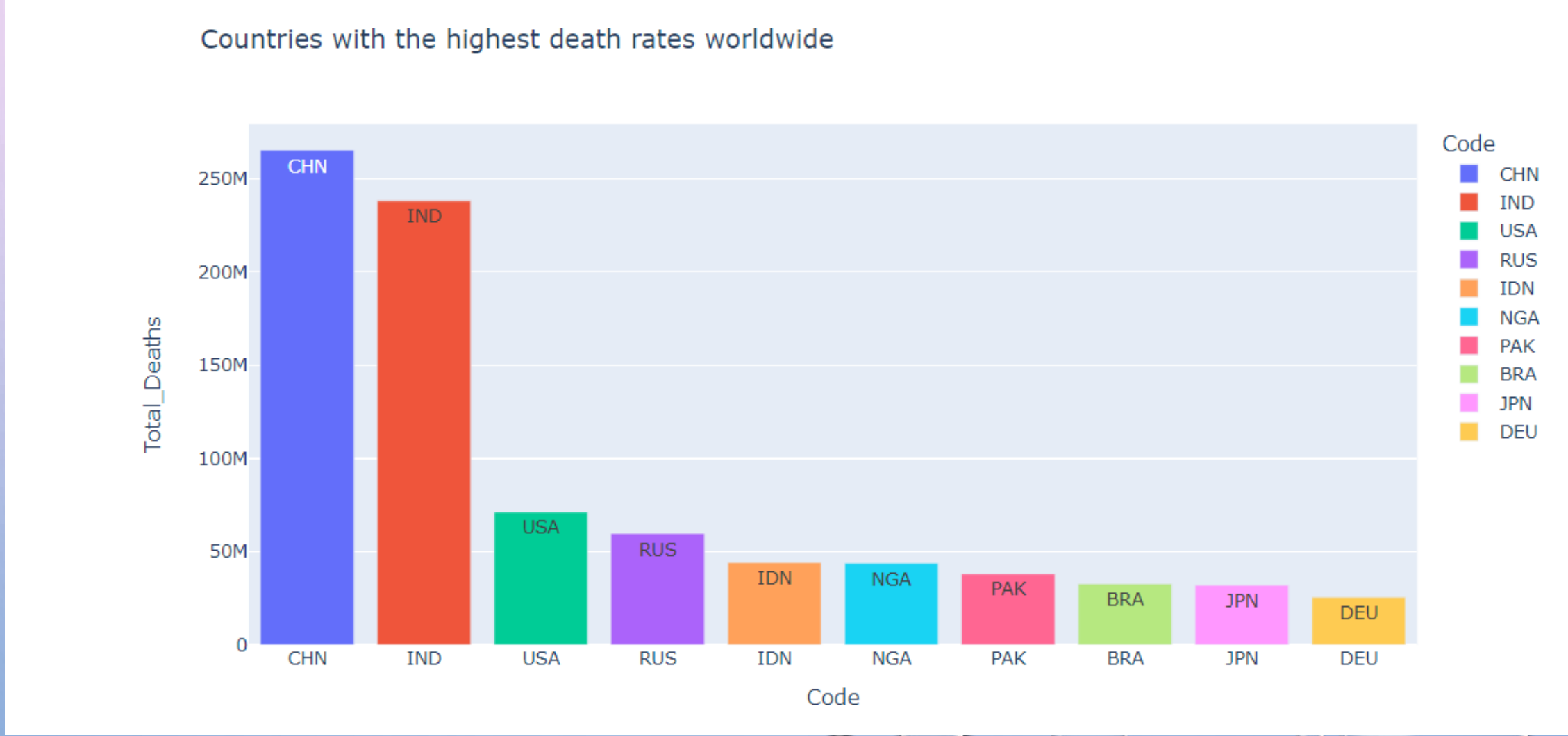
31. FIRE, HEAT, AND HOT SUBSTANCES - NO. OF PEOPLE DIED FROM FIRE OR HEAT OR ANY HOT SUBSTANCES



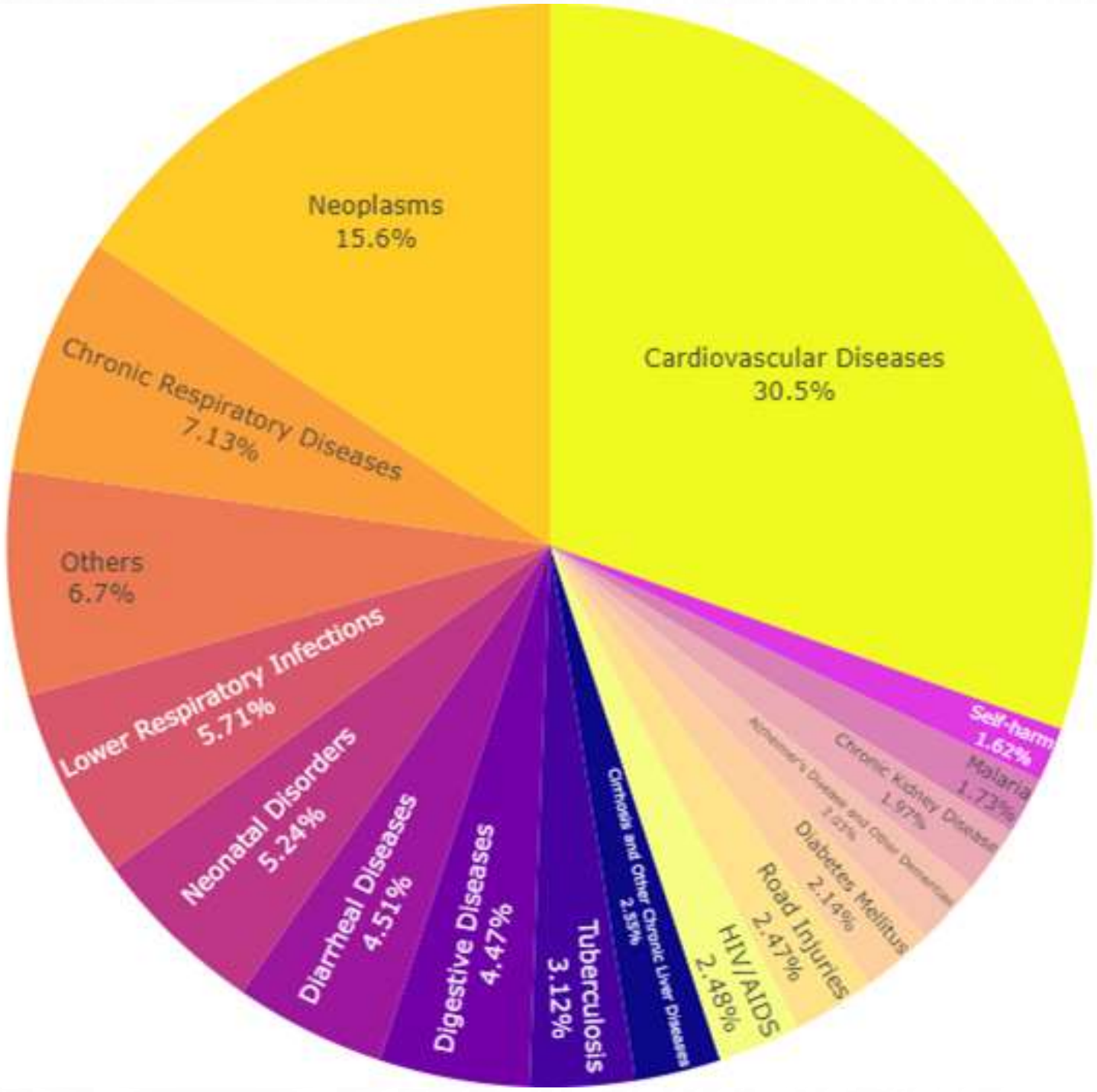
32. ACUTE HEPATITIS - NO. OF PEOPLE DIED FROM ACUTE HEPATITIS



COUNTRIES WITH THE HIGHEST DEATH RATES WORLDWIDE



BIGGEST DEADLIEST DISEASES IN THE WORLD



Conclusions:-

1) **CHINA , INDIA & USA has highest death rates due to Cardiovascular, Neoplasms ,and Respiratory are The top global causes of death.**

Thank you