

# Project Name: Cause of Death

## Introduction

The cause of death project would aim to analyze and understand the leading causes of death in a given time period (1990-2019) and how they have changed over time. This could include an examination of demographic trends, such as age and gender, as well as an analysis of how specific diseases and medical conditions have contributed to overall mortality rates.

Additionally, the project could also explore potential risk factors and possible interventions to reduce deaths from these causes. The goal would be to gain insight into the key drivers of mortality during this period and to identify areas where public health efforts could be directed to improve outcomes

This Dataset contains Historical Data on Causes of Death around the World (1990-2019)

```
In [2]: from IPython.display import Image  
Image(filename='Image1.jpeg')
```

Out[2]:



```
In [6]: import numpy as np  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns
```

```
import plotly.express as px
from plotly.offline import init_notebook_mode
init_notebook_mode(connected=True)

import warnings
warnings.filterwarnings('ignore')
```

In [7]: df=pd.read\_csv(r"Cause of death.csv")

In [10]: df.sample(5)

Out[10]:

	Country/Territory	Code	Year	Meningitis	Alzheimer's Disease and Other Dementias				Malaria
					Parkinson's Disease	Nutritional Deficiencies			
4741	Senegal	SEN	1991	2578	450	125	1539	8636	
5159	Sri Lanka	LKA	2019	297	4141	858	163	0	
4377	Portugal	PRT	2017	37	6225	1277	160	0	
1668	El Salvador	SLV	2008	67	1237	220	305	1	
2566	Ireland	IRL	2006	19	1069	261	13	0	

5 rows × 34 columns

◀ ▶

In [11]: df.shape ##shape of the data

Out[11]: (6120, 34)

In [12]: df.dtypes ##datatypes

```
Out[12]: Country/Territory          object
          Code                  object
          Year                 int64
          Meningitis           int64
          Alzheimer's Disease and Other Dementias   int64
          Parkinson's Disease        int64
          Nutritional Deficiencies      int64
          Malaria                int64
          Drowning                int64
          Interpersonal Violence      int64
          Maternal Disorders         int64
          HIV/AIDS                int64
          Drug Use Disorders        int64
          Tuberculosis             int64
          Cardiovascular Diseases    int64
          Lower Respiratory Infections  int64
          Neonatal Disorders         int64
          Alcohol Use Disorders      int64
          Self-harm                int64
          Exposure to Forces of Nature  int64
          Diarrheal Diseases          int64
          Environmental Heat and Cold Exposure  int64
          Neoplasms                int64
          Conflict and Terrorism      int64
          Diabetes Mellitus           int64
          Chronic Kidney Disease      int64
          Poisonings                int64
          Protein-Energy Malnutrition  int64
          Road Injuries              int64
          Chronic Respiratory Diseases  int64
          Cirrhosis and Other Chronic Liver Diseases  int64
          Digestive Diseases           int64
          Fire, Heat, and Hot Substances    int64
          Acute Hepatitis              int64
          dtype: object
```

In [13]: `df.describe()`

Out[13]:

	Year	Meningitis	Alzheimer's Disease and Other Dementias	Parkinson's Disease	Nutritional Deficiencies	Malaria	
<b>count</b>	6120.000000	6120.000000	6120.000000	6120.000000	6120.000000	6120.000000	6
<b>mean</b>	2004.500000	1719.701307	4864.189379	1173.169118	2253.600000	4140.960131	1
<b>std</b>	8.656149	6672.006930	18220.659072	4616.156238	10483.633601	18427.753137	8
<b>min</b>	1990.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
<b>25%</b>	1997.000000	15.000000	90.000000	27.000000	9.000000	0.000000	
<b>50%</b>	2004.500000	109.000000	666.500000	164.000000	119.000000	0.000000	
<b>75%</b>	2012.000000	847.250000	2456.250000	609.250000	1167.250000	393.000000	
<b>max</b>	2019.000000	98358.000000	320715.000000	76990.000000	268223.000000	280604.000000	153

8 rows × 32 columns

In [14]: `df.isnull().sum() ## to check the null values`

```
Out[14]: Country/Territory      0
          Code                  0
          Year                  0
          Meningitis             0
          Alzheimer's Disease and Other Dementias 0
          Parkinson's Disease        0
          Nutritional Deficiencies       0
          Malaria                 0
          Drowning                 0
          Interpersonal Violence      0
          Maternal Disorders          0
          HIV/AIDS                 0
          Drug Use Disorders          0
          Tuberculosis              0
          Cardiovascular Diseases     0
          Lower Respiratory Infections 0
          Neonatal Disorders          0
          Alcohol Use Disorders        0
          Self-harm                 0
          Exposure to Forces of Nature 0
          Diarrheal Diseases          0
          Environmental Heat and Cold Exposure 0
          Neoplasms                 0
          Conflict and Terrorism       0
          Diabetes Mellitus            0
          Chronic Kidney Disease        0
          Poisonings                 0
          Protein-Energy Malnutrition    0
          Road Injuries                0
          Chronic Respiratory Diseases   0
          Cirrhosis and Other Chronic Liver Diseases 0
          Digestive Diseases           0
          Fire, Heat, and Hot Substances 0
          Acute Hepatitis               0
          dtype: int64
```

In [16]: `df.columns`

```
Out[16]: Index(['Country/Territory', 'Code', 'Year', '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'],
      dtype='object')
```

In [17]: `df.duplicated(keep='last') ##remove Duplicate`

```
Out[17]: 0      False
         1      False
         2      False
         3      False
         4      False
         ...
        6115    False
        6116    False
        6117    False
        6118    False
        6119    False
Length: 6120, dtype: bool
```

Great we don't have null and duplicate values in our data set

## UNIVARIATE ANALYSIS

### Country/Territory

```
In [18]: df['Country/Territory'].describe()
```

```
Out[18]: count      6120
unique      204
top      Afghanistan
freq       30
Name: Country/Territory, dtype: object
```

Country/Territory contain nominal data in text format

```
In [19]: #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

## Year

In [21]: df['Year'].describe()

Out[21]:

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

```
In [22]: #checking unique of variable
print(df['Year'].unique())
#counting the uniques
print(df['Year'].value_counts())
```

```
[1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017
2018 2019]
1990    204
1991    204
2018    204
2017    204
2016    204
2015    204
2014    204
2013    204
2012    204
2011    204
2010    204
2009    204
2008    204
2007    204
2006    204
2005    204
2004    204
2003    204
2002    204
2001    204
2000    204
1999    204
1998    204
1997    204
1996    204
1995    204
1994    204
1993    204
1992    204
2019    204
Name: Year, dtype: int64
```

```
In [23]: # In the year column contains ordinal data
# it is equally distributed
# we have data from year 1990 to 2019 = 30 year of death records we have
```

## 04. Meningitis - No. of People died from Meningitis

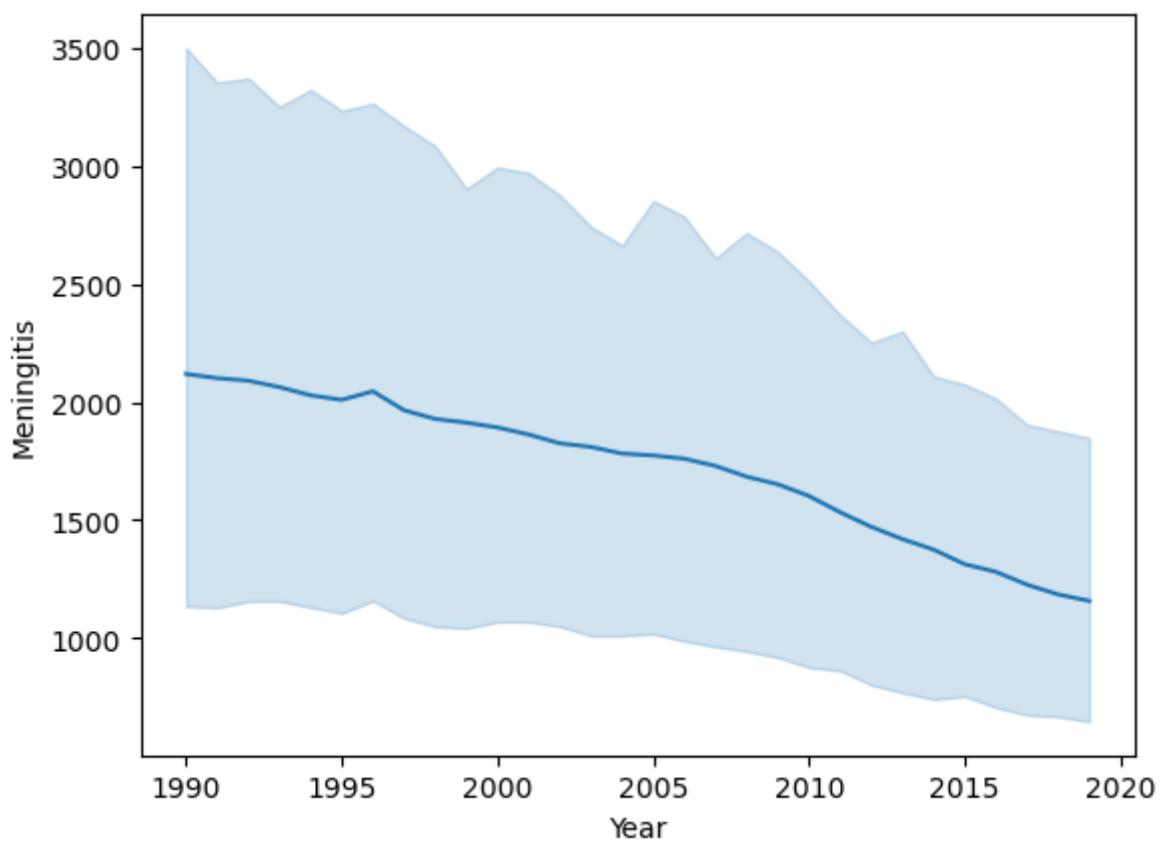
No.of People died from Meningitis

```
In [25]: df['Meningitis'].describe()
```

```
Out[25]: count    6120.000000
mean     1719.701307
std      6672.006930
min      0.000000
25%     15.000000
50%     109.000000
75%     847.250000
max     98358.000000
Name: Meningitis, dtype: float64
```

```
In [26]: sns.lineplot(data=df, x="Year", y="Meningitis")
```

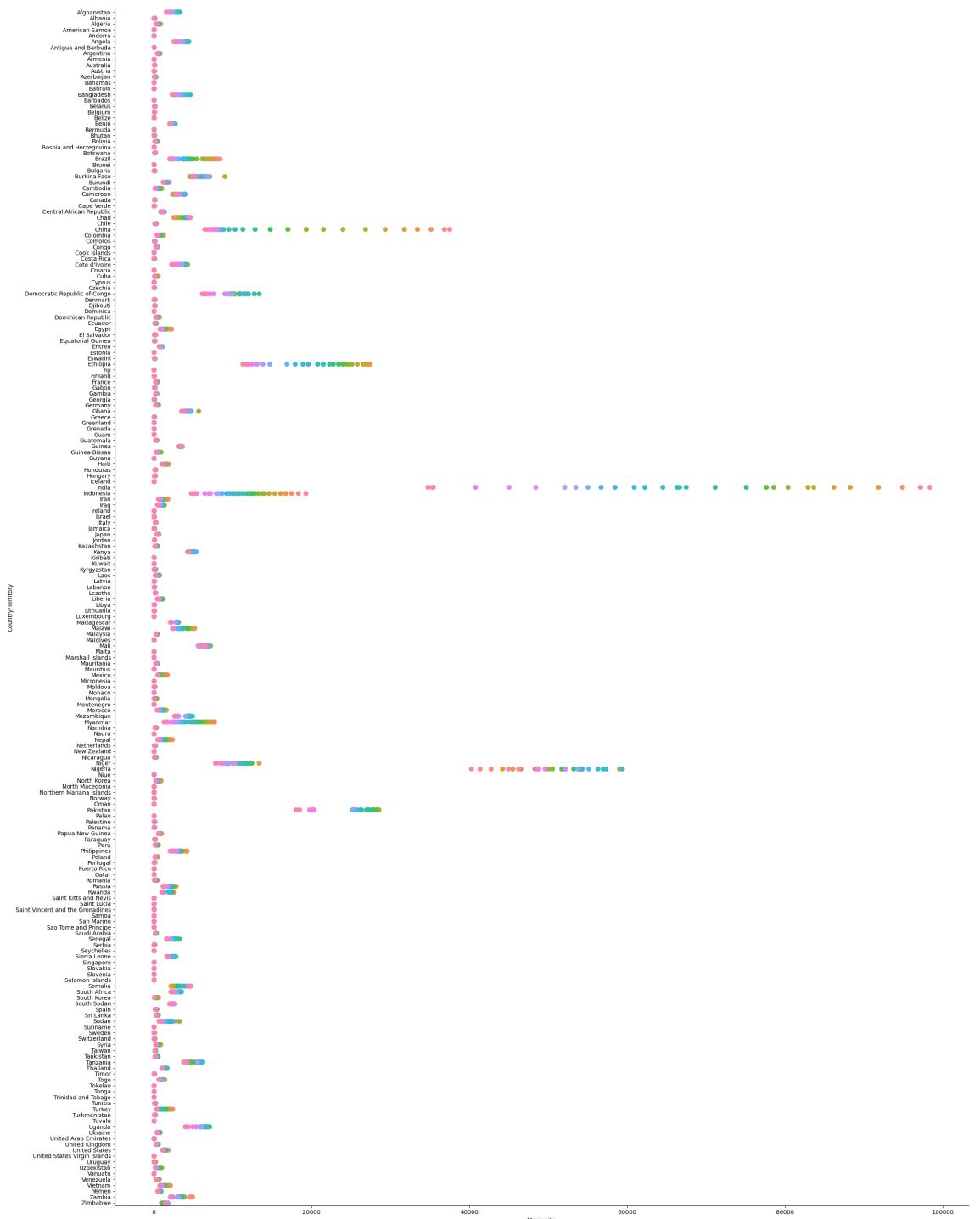
Out[26]: &lt;AxesSubplot:xlabel='Year', ylabel='Meningitis'&gt;



No.of People died from Meningitis is following down trend pattern for overall population

In [27]: `sns.factorplot(x='Meningitis',y='Country/Territory',hue='Year',data=df,size=30,aspects=False)`

Out[27]: <seaborn.axisgrid.FacetGrid at 0x19549711430>



Q. in which country maximum people were died due to Meningitis

A. india

Q. in which year death percentage was high

A. the year was 1990

```
In [28]: diseases = [ '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']
```

```
In [29]: # Top 10 Country name No.of People died from Meningitis
data = df.groupby(['Country/Territory'])["Meningitis"].sum().sort_values(ascending=False)
```

```
In [35]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,template="plotly")
```

No. of People died from Meningitis



## 05. Alzheimer's Disease and Other Dementias - No. of People died from Alzheimer's Disease and Other Dementias

```
In [31]: ## No.of People died from Alzheimer's Disease and Other Dementias
```

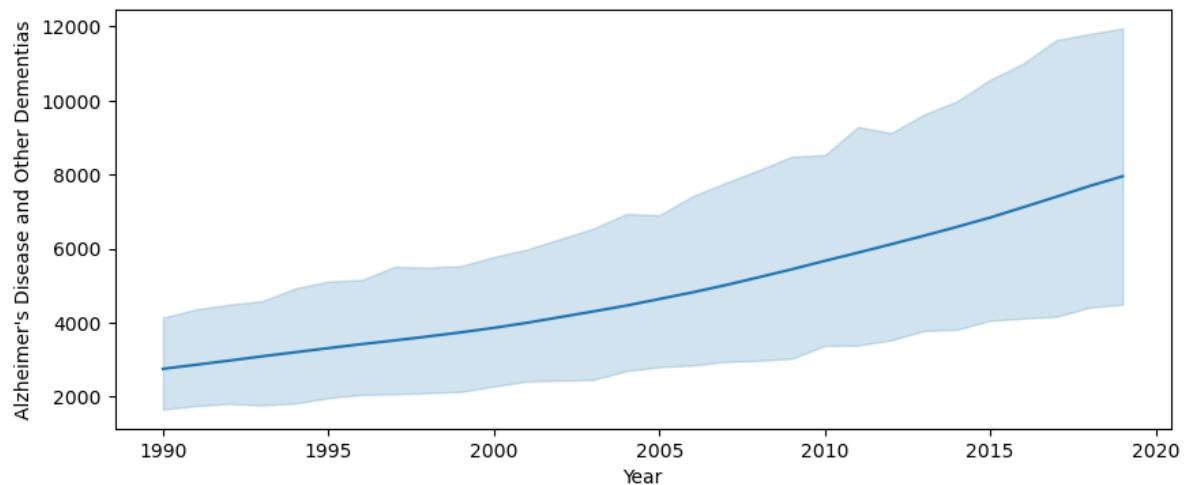
```
In [32]: df["Alzheimer's Disease and Other Dementias"].describe()
```

```
Out[32]: count      6120.000000
mean       4864.189379
std        18220.659072
min         0.000000
25%        90.000000
50%       666.500000
75%       2456.250000
max      320715.000000
Name: Alzheimer's Disease and Other Dementias, dtype: float64
```

```
In [33]: plt.figure(figsize=(10,4))
```

```
sns.lineplot(data=df, x="Year", y="Alzheimer's Disease and Other Dementias")
```

```
Out[33]: <AxesSubplot:xlabel='Year', ylabel="Alzheimer's Disease and Other Dementias">
```

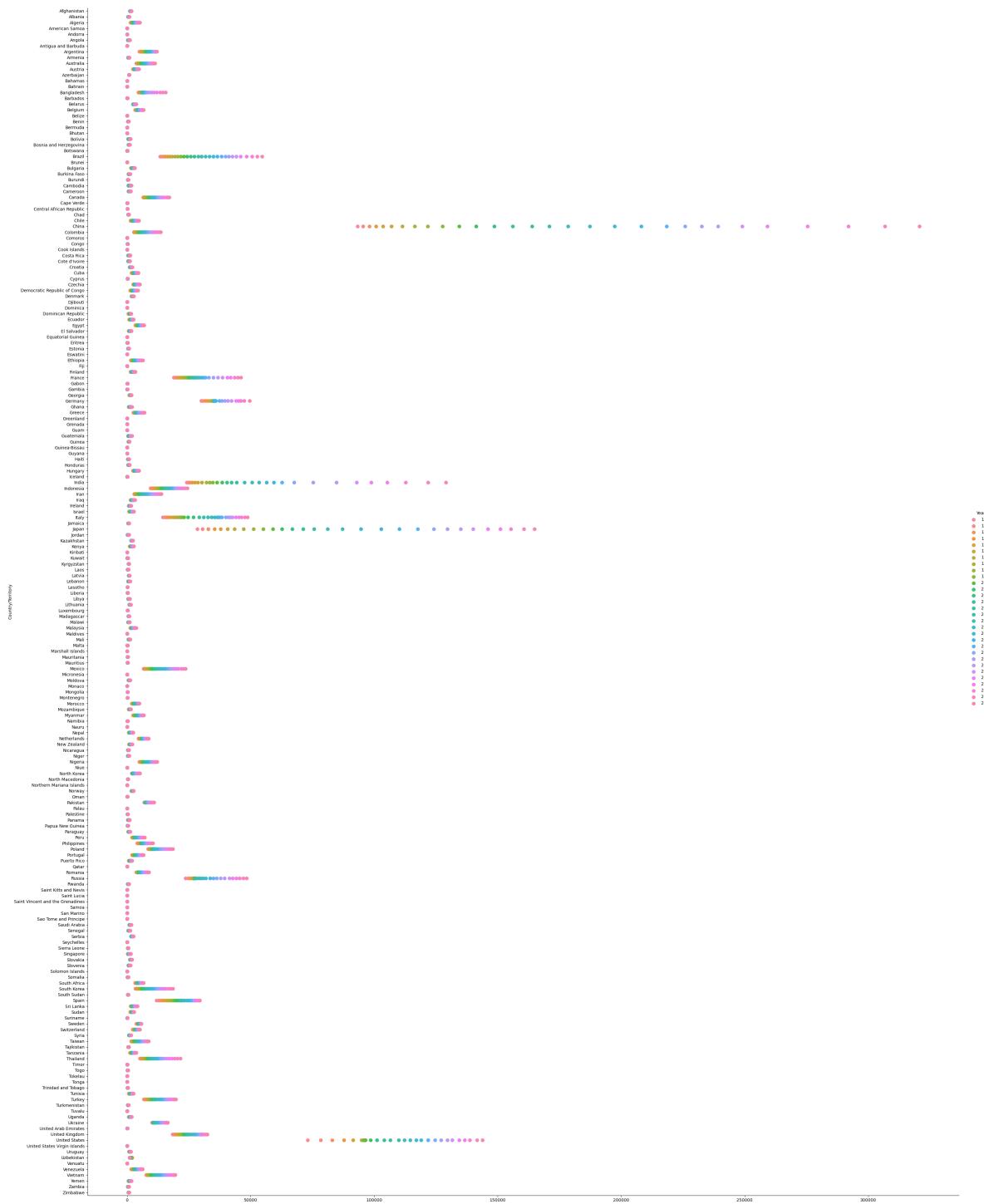


No.of People died from Alzheimer's Disease is following up trend pattern for over all population death

## BIVARIATE ANALYSIS

```
In [37]: sns.factorplot(x="Alzheimer's Disease and Other Dementias",y='Country/Territory',h
```

```
Out[37]: <seaborn.axisgrid.FacetGrid at 0x19558cec280>
```



Q. in which country maximum people were died due to Alzheimer's Disease

A. China

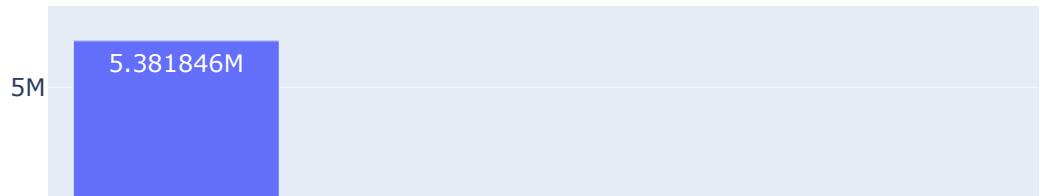
Q. in which year death percentage was high

A. the year was 1990

```
In [38]: data = df.groupby(['Country/Territory'])["Alzheimer's Disease and Other Dementias"]
```

```
In [39]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,te
```

## No. of People died from Alzheimer's Disease and Other De



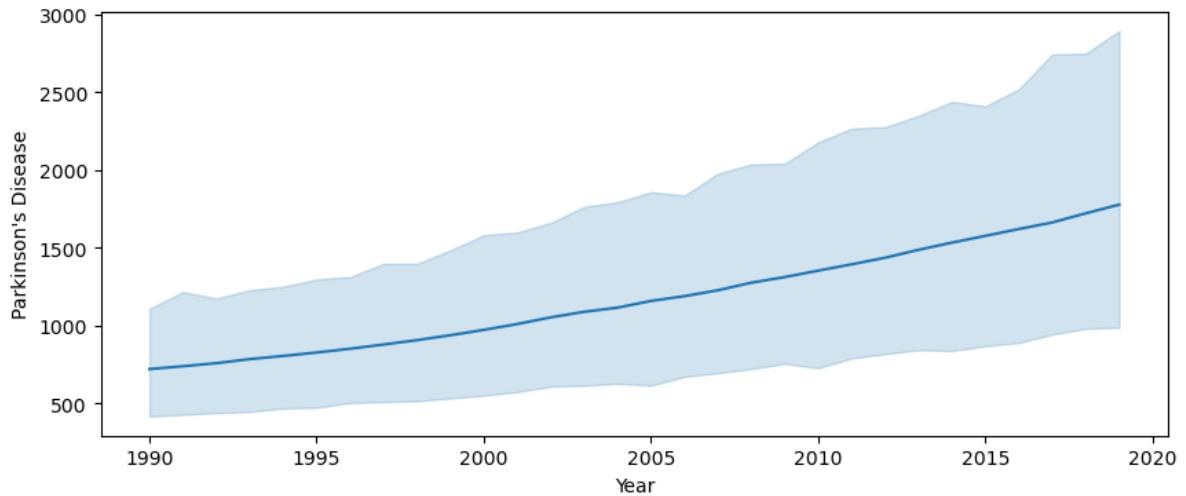
## 06. Parkinson's Disease - No. of People died from Parkinson's Disease

```
In [40]: df["Parkinson's Disease"].describe()
```

```
Out[40]: count    6120.000000
mean     1173.169118
std      4616.156238
min      0.000000
25%     27.000000
50%     164.000000
75%     609.250000
max    76990.000000
Name: Parkinson's Disease, dtype: float64
```

```
In [41]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Parkinson's Disease")
```

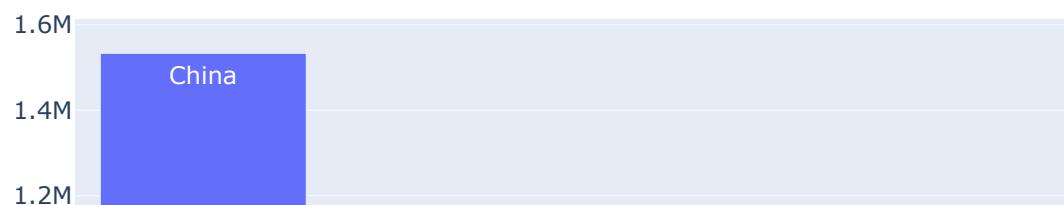
```
Out[41]: <AxesSubplot:xlabel='Year', ylabel="Parkinson's Disease">
```



```
In [42]: data = df.groupby(['Country/Territory'])["Parkinson's Disease"].sum().sort_values():
```

```
In [43]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti:
```

### Parkinson's Disease - No. of People died from Parkinson's



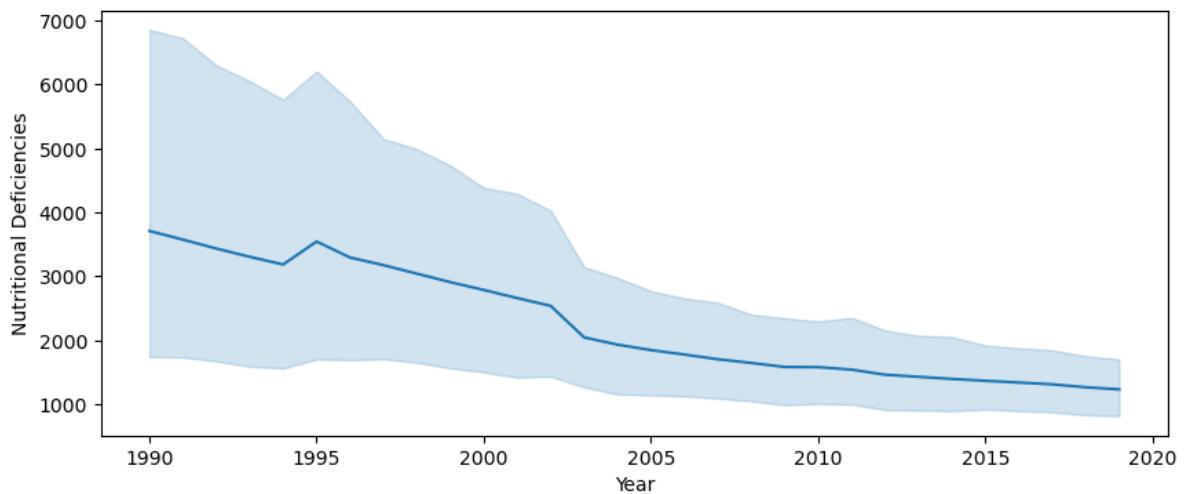
## 07 Nutritional Deficiencies - No. of People died from Nutritional Deficiencies

```
In [44]: df["Nutritional Deficiencies"].describe()
```

```
Out[44]: count      6120.000000
mean       2253.600000
std        10483.633601
min         0.000000
25%        9.000000
50%       119.000000
75%      1167.250000
max      268223.000000
Name: Nutritional Deficiencies, dtype: float64
```

```
In [45]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Nutritional Deficiencies")
```

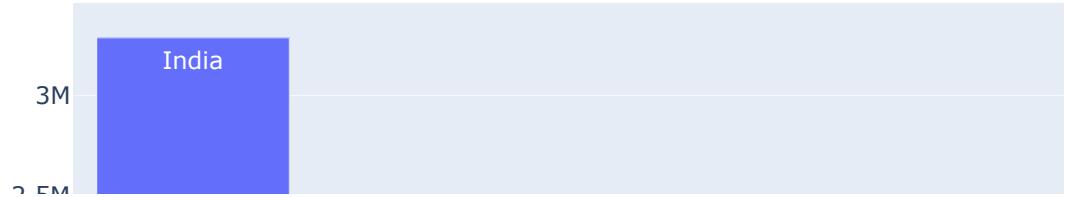
```
Out[45]: <AxesSubplot:xlabel='Year', ylabel='Nutritional Deficiencies'>
```



```
In [46]: data = df.groupby(['Country/Territory'])["Nutritional Deficiencies"].sum().sort_val
```

```
In [47]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## No. of People died from Nutritional Deficiencies



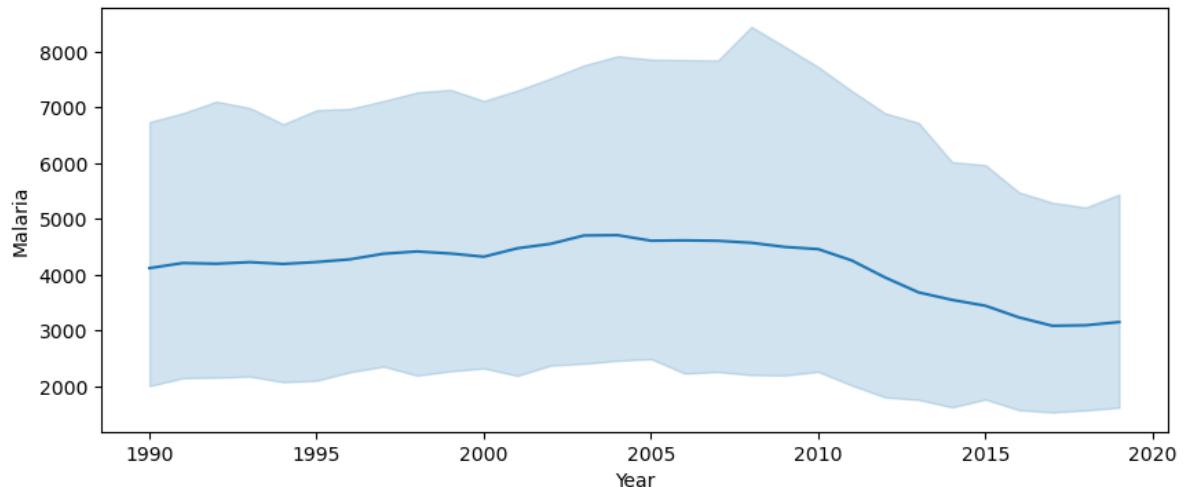
## 08. Malaria - No. of People died from Malaria

```
In [48]: df["Malaria"].describe()
```

```
Out[48]: count      6120.000000
mean       4140.960131
std        18427.753137
min        0.000000
25%        0.000000
50%        0.000000
75%        393.000000
max       280604.000000
Name: Malaria, dtype: float64
```

```
In [49]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Malaria")
```

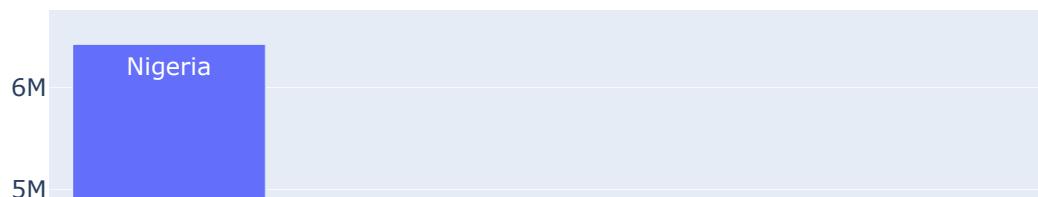
```
Out[49]: <AxesSubplot:xlabel='Year', ylabel='Malaria'>
```



```
In [50]: data = df.groupby(['Country/Territory'])["Malaria"].sum().sort_values(ascending=False)
```

```
In [51]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

No. of People died from Malaria



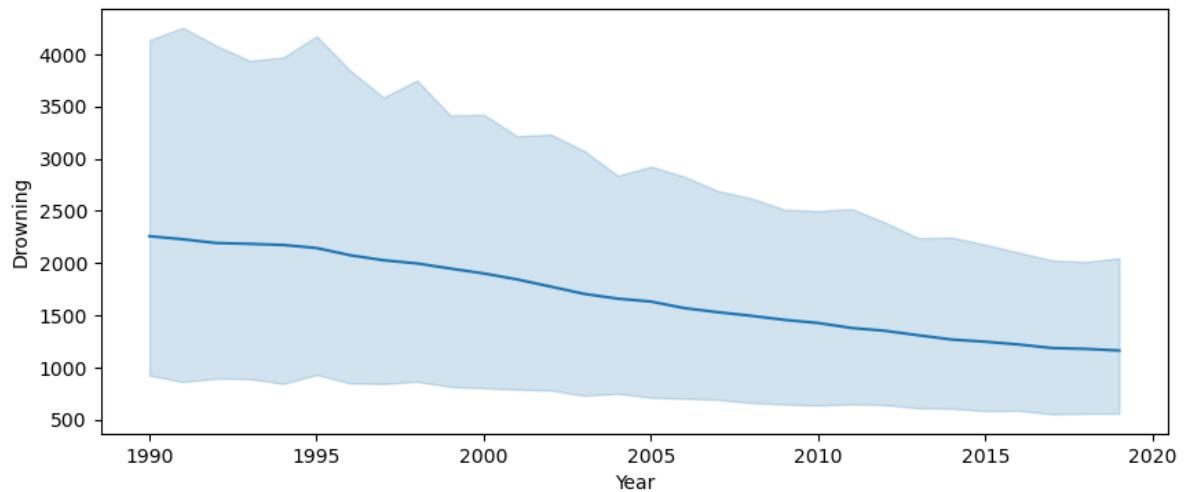
## 09. Drowning - No. of People died from Drowning

```
In [52]: df["Drowning"].describe()
```

```
Out[52]: count    6120.000000
mean     1683.333170
std      8877.018366
min      0.000000
25%     34.000000
50%     177.000000
75%     698.000000
max     153773.000000
Name: Drowning, dtype: float64
```

```
In [53]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Drowning")
```

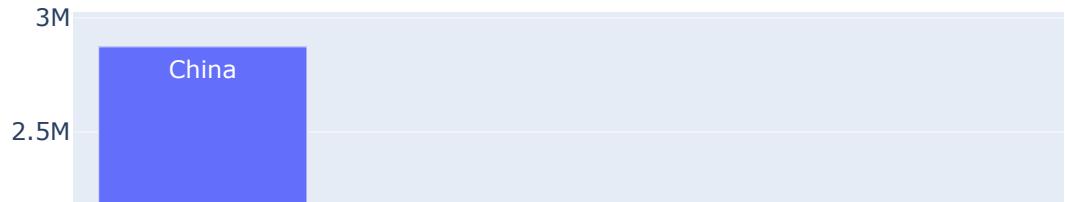
```
Out[53]: <AxesSubplot:xlabel='Year', ylabel='Drowning'>
```



```
In [54]: data = df.groupby(['Country/Territory'])["Drowning"].sum().sort_values(ascending=False)
```

```
In [55]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## No. of People died from Drowning



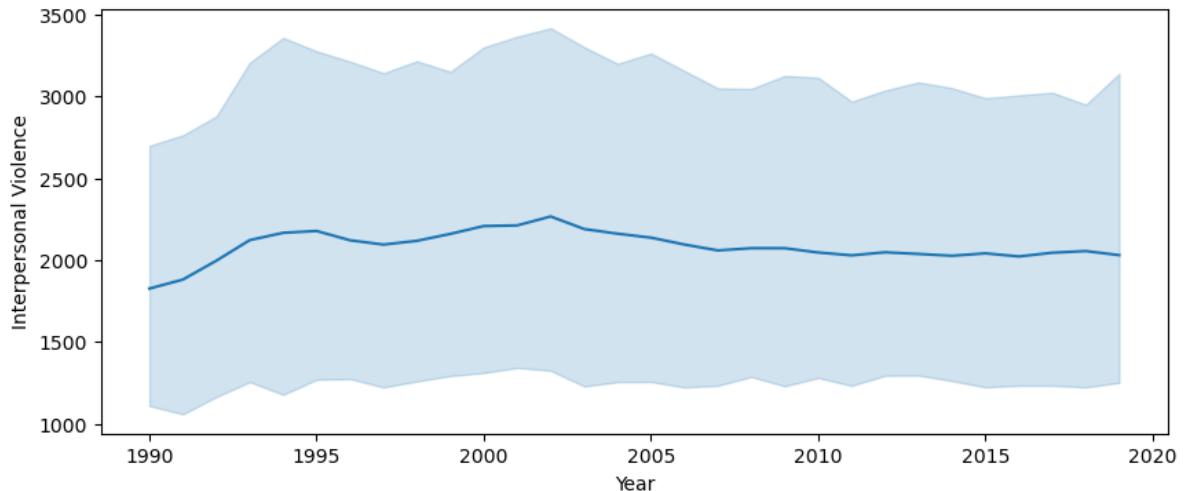
## 10. Interpersonal Violence - No. of People died from Interpersonal Violence

```
In [56]: df["Interpersonal Violence"].describe()
```

```
Out[56]: count    6120.000000
mean      2083.797222
std       6917.006075
min       0.000000
25%      40.000000
50%      265.000000
75%      877.000000
max     69640.000000
Name: Interpersonal Violence, dtype: float64
```

```
In [57]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Interpersonal Violence")
```

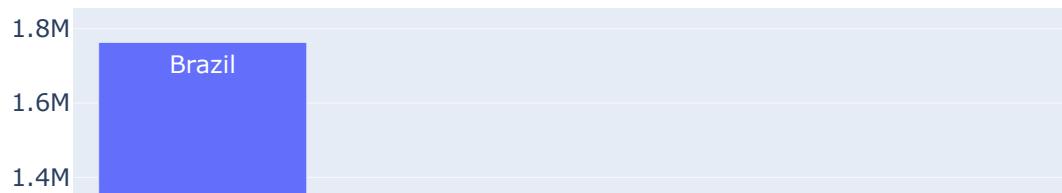
```
Out[57]: <AxesSubplot:xlabel='Year', ylabel='Interpersonal Violence'>
```



```
In [58]: data = df.groupby(['Country/Territory'])["Interpersonal Violence"].sum().sort_values()
```

```
In [59]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

No. of People died from Interpersonal Violence



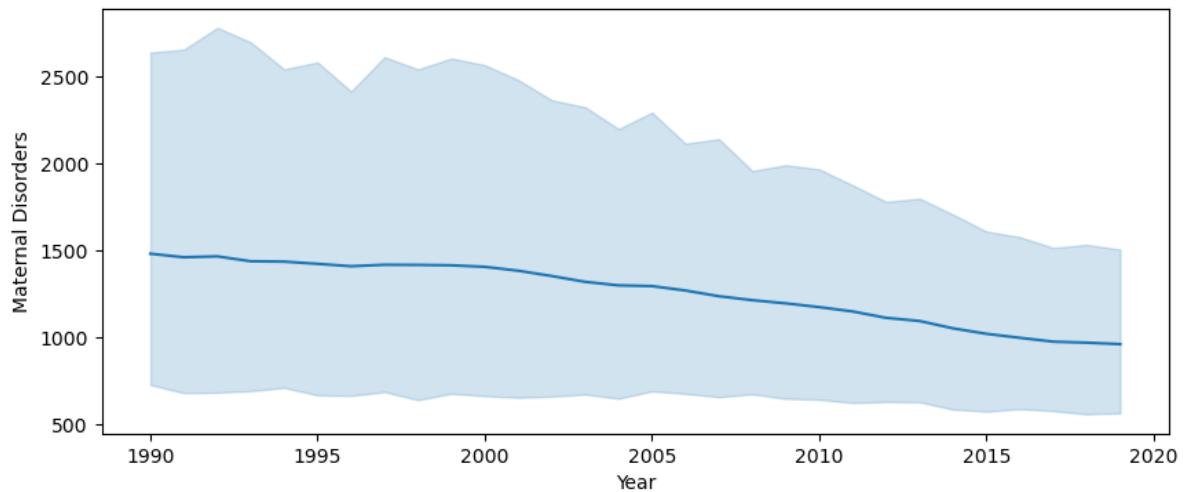
## 11. Maternal Disorders - No. of People died from Maternal Disorders

```
In [60]: df["Maternal Disorders"].describe()
```

```
Out[60]: count    6120.000000
mean     1262.589216
std      6057.973183
min      0.000000
25%     5.000000
50%     54.000000
75%    734.000000
max   107929.000000
Name: Maternal Disorders, dtype: float64
```

```
In [61]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Maternal Disorders")
```

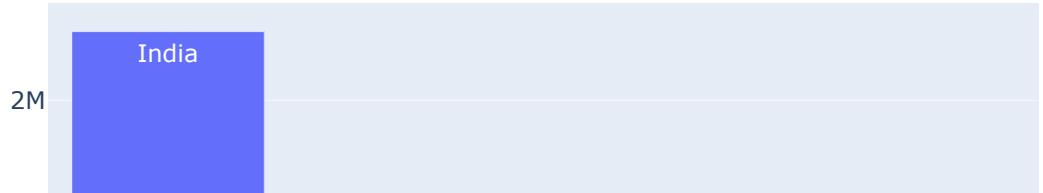
```
Out[61]: <AxesSubplot:xlabel='Year', ylabel='Maternal Disorders'>
```



```
In [62]: data = df.groupby(['Country/Territory'])["Maternal Disorders"].sum().sort_values(ascending=False)
```

```
In [63]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Maternal Disorders - No. of People died from Maternal Disorders



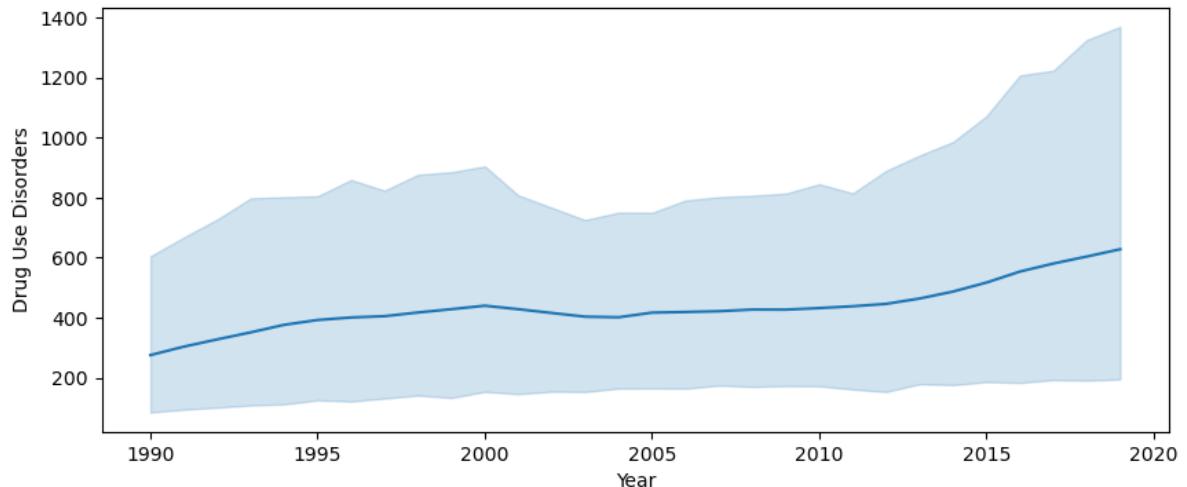
## 12. Drug Use Disorders - No. of People died from Drug Use Disorders

```
In [64]: df["Drug Use Disorders"].describe()
```

```
Out[64]: count    6120.000000
mean      434.006699
std       2898.761628
min       0.000000
25%      3.000000
50%     20.000000
75%    129.000000
max     65717.000000
Name: Drug Use Disorders, dtype: float64
```

```
In [65]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Drug Use Disorders")
```

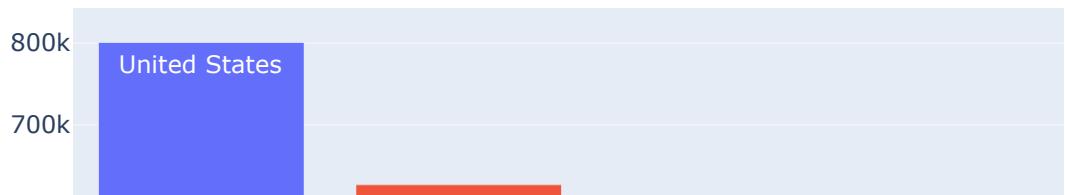
```
Out[65]: <AxesSubplot:xlabel='Year', ylabel='Drug Use Disorders'>
```



```
In [66]: data = df.groupby(['Country/Territory'])["Drug Use Disorders"].sum().sort_values(ascending=False)
```

```
In [67]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Drug Use Disorders - No. of People died from Drug Use Disorders")
```

### Drug Use Disorders - No. of People died from Drug Use Disorders



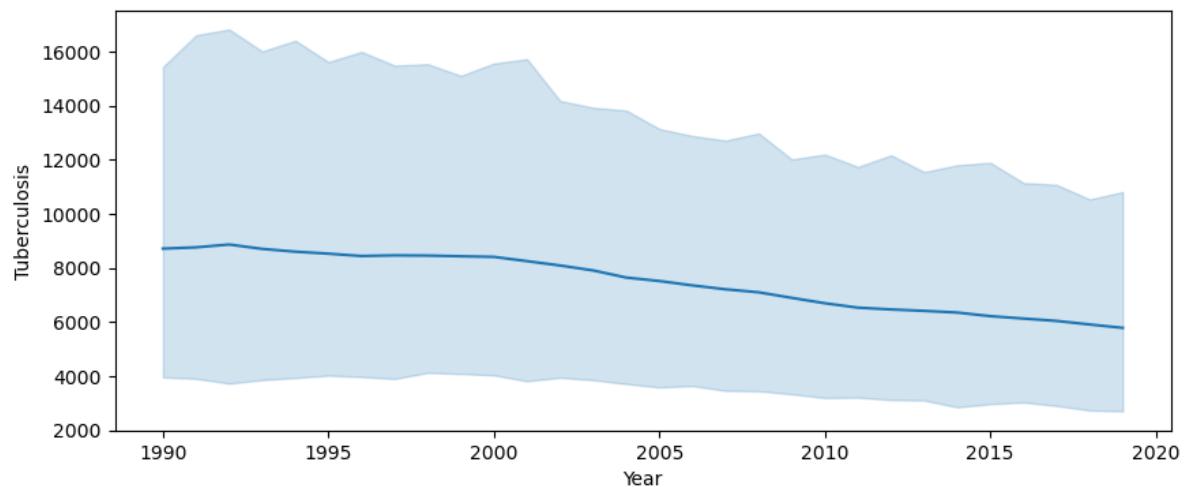
### 13. Tuberculosis - No. of People died from Tuberculosis

```
In [68]: df["Tuberculosis"].describe()
```

```
Out[68]: count    6120.000000
mean     7491.928595
std      39549.977578
min      0.000000
25%     35.000000
50%     417.000000
75%     2924.250000
max     657515.000000
Name: Tuberculosis, dtype: float64
```

```
In [69]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Tuberculosis")
```

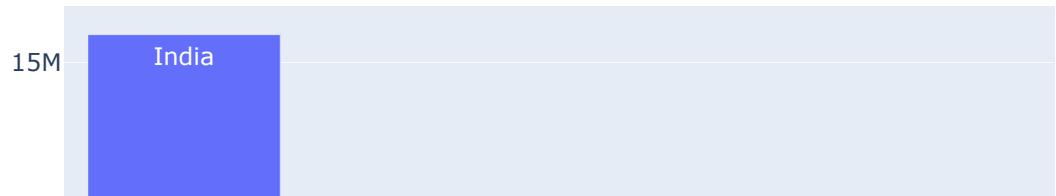
```
Out[69]: <AxesSubplot:xlabel='Year', ylabel='Tuberculosis'>
```



```
In [70]: data = df.groupby(['Country/Territory'])["Tuberculosis"].sum().sort_values(ascending=True)
```

```
In [71]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Tuberculosis - No. of People died from Tuberculosis



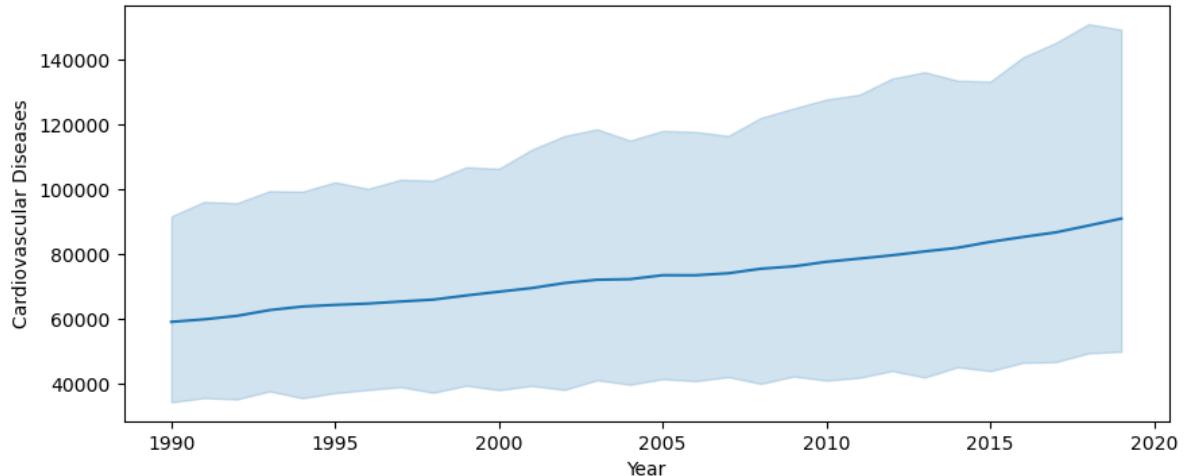
## 14. Cardiovascular Diseases - No. of People died from Cardiovascular Diseases

```
In [72]: df["Cardiovascular Diseases"].describe()
```

```
Out[72]: count    6.120000e+03
mean      7.316045e+04
std       2.915775e+05
min       4.000000e+00
25%      2.028000e+03
50%      1.174200e+04
75%      4.254650e+04
max      4.584273e+06
Name: Cardiovascular Diseases, dtype: float64
```

```
In [73]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Cardiovascular Diseases")
```

```
Out[73]: <AxesSubplot:xlabel='Year', ylabel='Cardiovascular Diseases'>
```



```
In [74]: data = df.groupby(['Country/Territory'])["Cardiovascular Diseases"].sum().sort_val
```

```
In [75]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

### Cardiovascular Diseases - No. of People died from Cardio



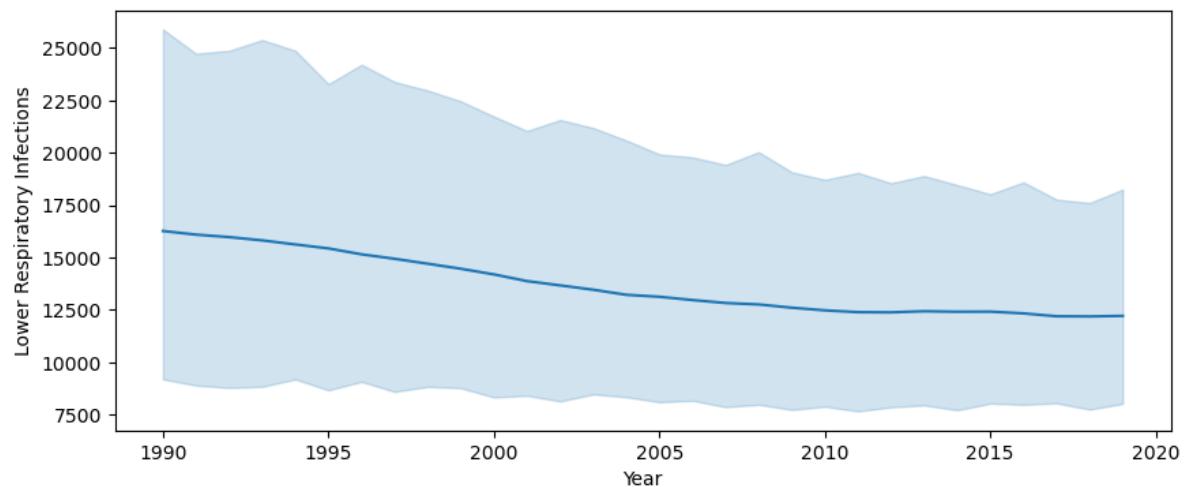
### 15. Lower Respiratory Infections - No. of People died from Lower Respiratory

```
In [76]: df["Lower Respiratory Infections"].describe()
```

```
Out[76]: count      6120.000000
mean       13687.914706
std        48031.720009
min         0.000000
25%       345.000000
50%       2126.500000
75%      10161.250000
max      690913.000000
Name: Lower Respiratory Infections, dtype: float64
```

```
In [77]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Lower Respiratory Infections")
```

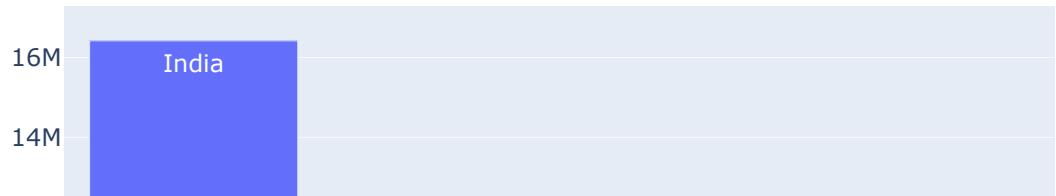
```
Out[77]: <AxesSubplot:xlabel='Year', ylabel='Lower Respiratory Infections'>
```



```
In [78]: data = df.groupby(['Country/Territory'])["Lower Respiratory Infections"].sum().sort_values(ascending=False)
```

```
In [79]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Lower Respiratory Infections")
```

## Lower Respiratory Infections - No. of People died from Lower Respiratory Infections



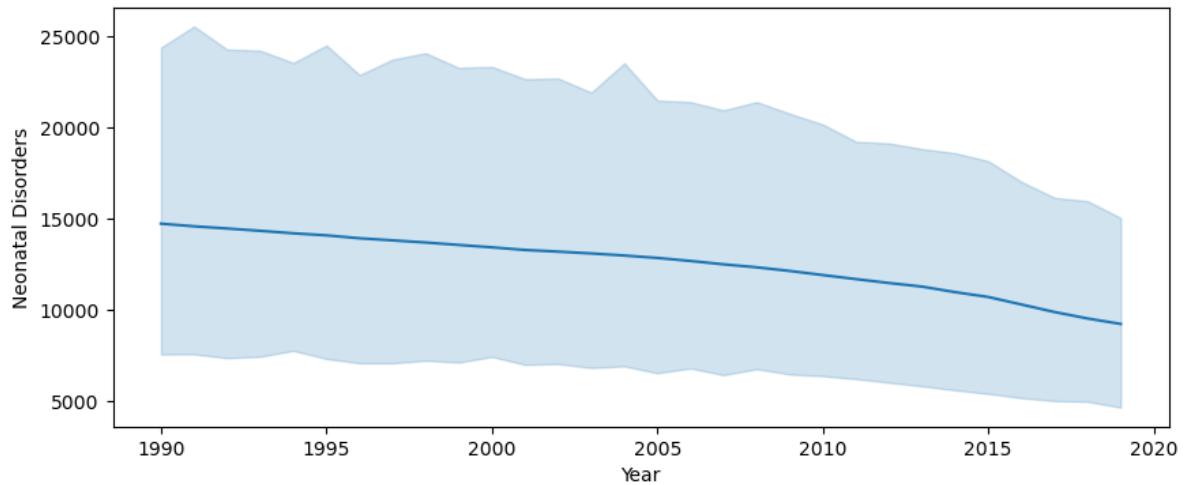
## 16. Neonatal Disorders - No. of People died from Neonatal Disorders

```
In [80]: df["Neonatal Disorders"].describe()
```

```
Out[80]: count      6120.000000
mean      12558.942647
std       56058.366412
min       0.000000
25%      131.000000
50%      916.000000
75%     7419.750000
max     852761.000000
Name: Neonatal Disorders, dtype: float64
```

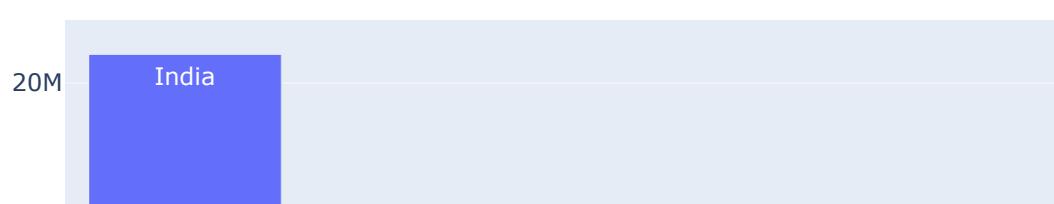
```
In [81]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Neonatal Disorders")
```

```
Out[81]: <AxesSubplot:xlabel='Year', ylabel='Neonatal Disorders'>
```



```
In [82]: data = df.groupby(['Country/Territory'])["Neonatal Disorders"].sum().sort_values(ascending=False)
```

```
In [83]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Neonatal Disorders - No. of People died from Neonatal Disorders")
```



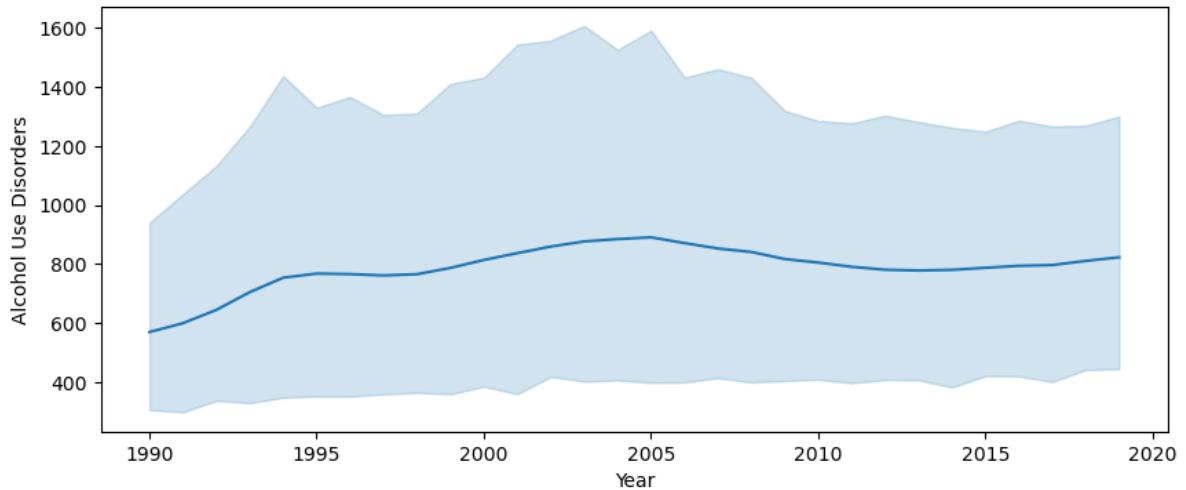
## 17. Alcohol Use Disorders - No. of People died from Alcohol Use Disorders

```
In [84]: df["Alcohol Use Disorders"].describe()
```

```
Out[84]: count    6120.000000
          mean     787.421242
          std      3545.823616
          min      0.000000
          25%     9.000000
          50%    80.000000
          75%   316.000000
          max   55200.000000
          Name: Alcohol Use Disorders, dtype: float64
```

```
In [85]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Alcohol Use Disorders")
```

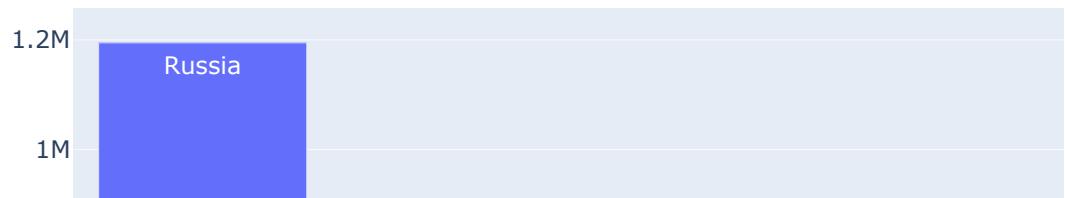
```
Out[85]: <AxesSubplot:xlabel='Year', ylabel='Alcohol Use Disorders'>
```



```
In [86]: data = df.groupby(['Country/Territory'])["Alcohol Use Disorders"].sum().sort_values(ascending=False)
```

```
In [87]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Alcohol Use Disorders - No. of People died from Alcohol Us



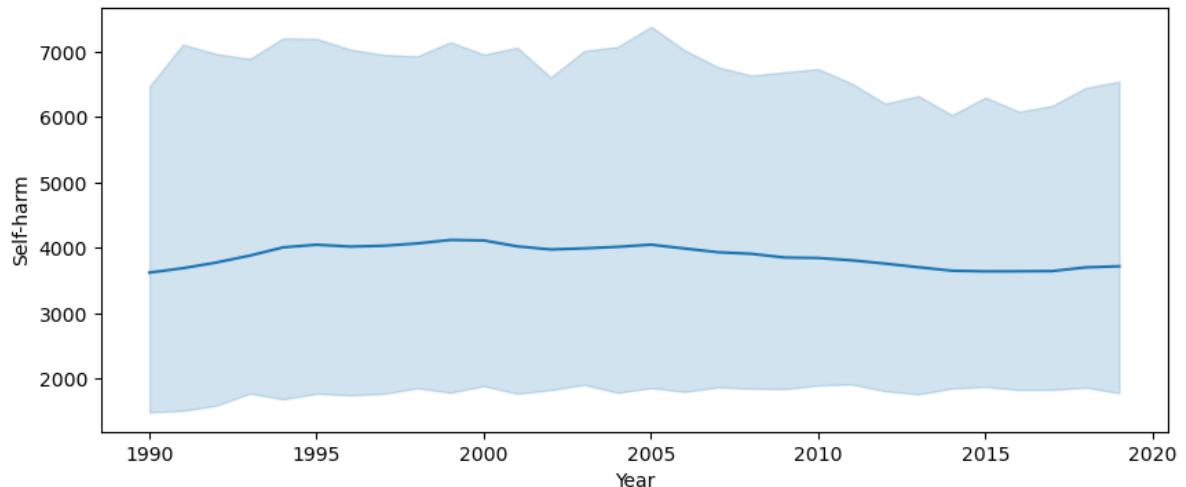
## 18. Self-harm - No. of People died from Self-harm

```
In [88]: df["Self-harm"].describe()
```

```
Out[88]: count      6120.000000
mean       3874.825327
std        18425.616418
min        0.000000
25%       94.000000
50%      533.000000
75%     1882.250000
max      220357.000000
Name: Self-harm, dtype: float64
```

```
In [89]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Self-harm")
```

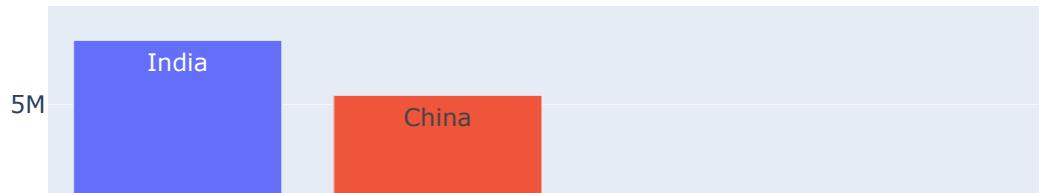
```
Out[89]: <AxesSubplot:xlabel='Year', ylabel='Self-harm'>
```



```
In [90]: data = df.groupby(['Country/Territory'])["Self-harm"].sum().sort_values(ascending=True)
```

```
In [91]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

Self-harm - No. of People died from Self-harm



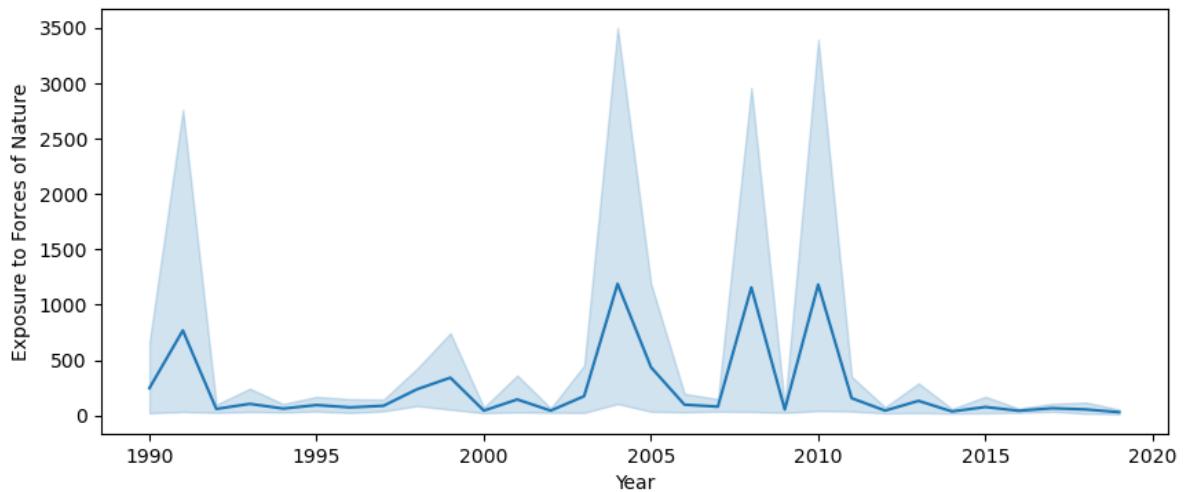
## 19. Exposure to Forces of Nature - No. of People died from Exposure to Forces of Nature

```
In [92]: df["Exposure to Forces of Nature"].describe()
```

```
Out[92]: count      6120.000000
mean       243.485621
std        4717.104377
min         0.000000
25%        0.000000
50%        0.000000
75%       12.000000
max      222641.000000
Name: Exposure to Forces of Nature, dtype: float64
```

```
In [93]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Exposure to Forces of Nature")
```

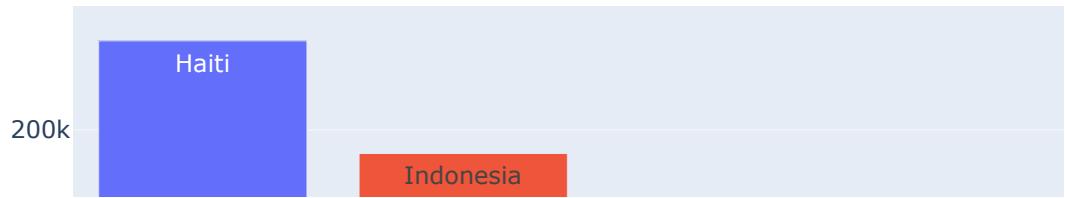
```
Out[93]: <AxesSubplot:xlabel='Year', ylabel='Exposure to Forces of Nature'>
```



```
In [94]: data = df.groupby(['Country/Territory'])["Exposure to Forces of Nature"].sum().sort_index()
```

```
In [95]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Exposure to Forces of Nature by Country/Territory")
```

## Exposure to Forces of Nature - No. of People died from Exposure to Forces of Nature



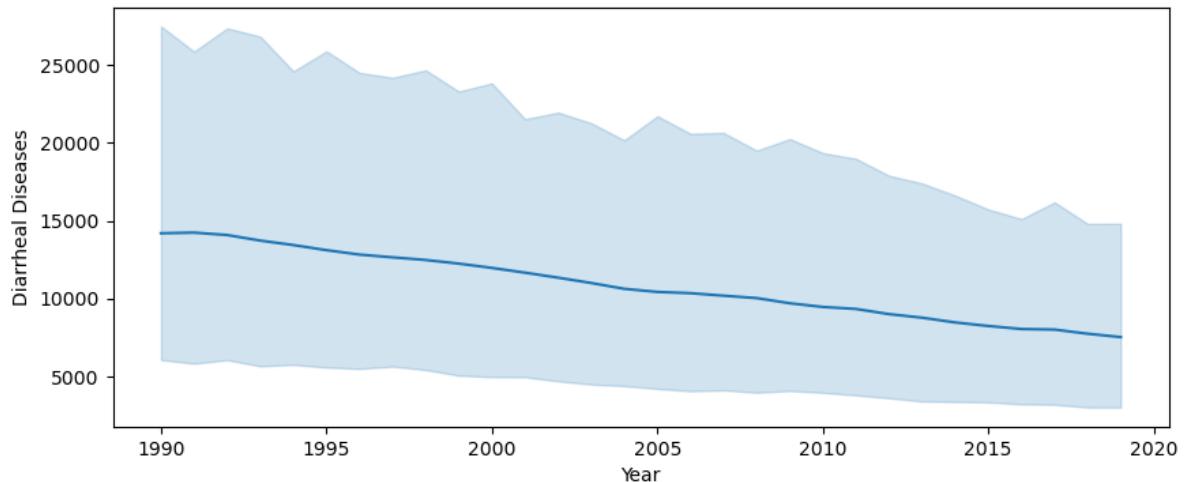
## 20. Diarrheal Diseases - No. of People died from Diarrheal Diseases

```
In [96]: df["Diarrheal Diseases"].describe()
```

```
Out[96]: count    6.120000e+03
mean      1.082280e+04
std       6.541617e+04
min       0.000000e+00
25%      2.000000e+01
50%      2.965000e+02
75%      3.946750e+03
max      1.119477e+06
Name: Diarrheal Diseases, dtype: float64
```

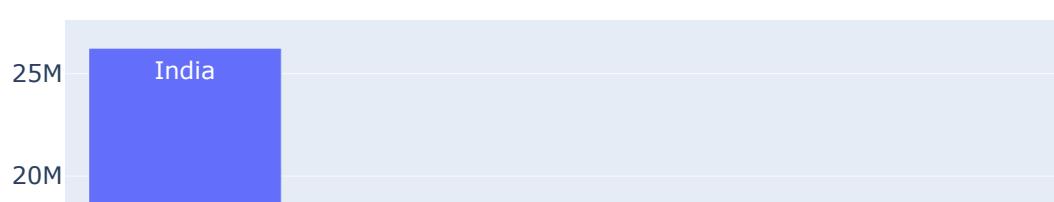
```
In [97]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Diarrheal Diseases")
```

```
Out[97]: <AxesSubplot:xlabel='Year', ylabel='Diarrheal Diseases'>
```



```
In [98]: data = df.groupby(['Country/Territory'])["Diarrheal Diseases"].sum().sort_values(ascending=False)
```

```
In [99]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Diarrheal Diseases - No. of People died from Diarrheal Diseases")
```



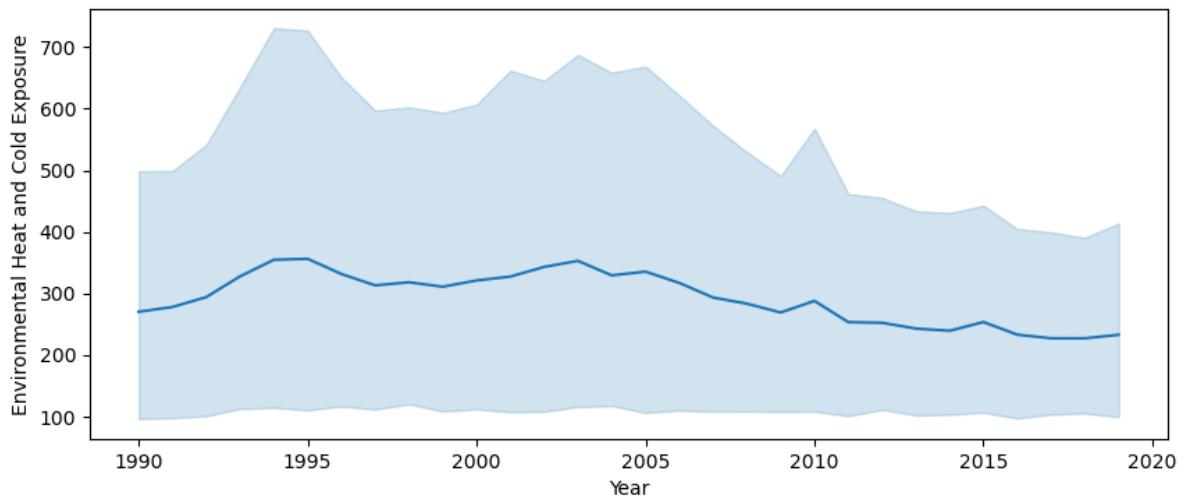
## 21. Environmental Heat and Cold Exposure - No. of People died from Environmental Heat and Cold Exposure

```
In [100...]: df[["Environmental Heat and Cold Exposure"]].describe()
```

```
Out[100]: count    6120.000000
mean     292.295915
std      1704.466356
min      0.000000
25%     2.000000
50%     21.000000
75%    109.000000
max    29048.000000
Name: Environmental Heat and Cold Exposure, dtype: float64
```

```
In [101... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Environmental Heat and Cold Exposure")
```

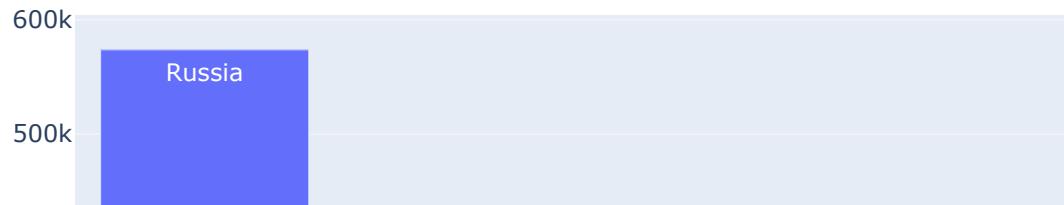
```
Out[101]: <AxesSubplot:xlabel='Year', ylabel='Environmental Heat and Cold Exposure'>
```



```
In [102... data = df.groupby(['Country/Territory'])["Environmental Heat and Cold Exposure"].sum()
```

```
In [103... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,tit
```

## Environmental Heat and Cold Exposure - No. of People die



## 22. Neoplasms - No. of People died from Neoplasms

```
In [104]: df["Neoplasms"].describe()
```

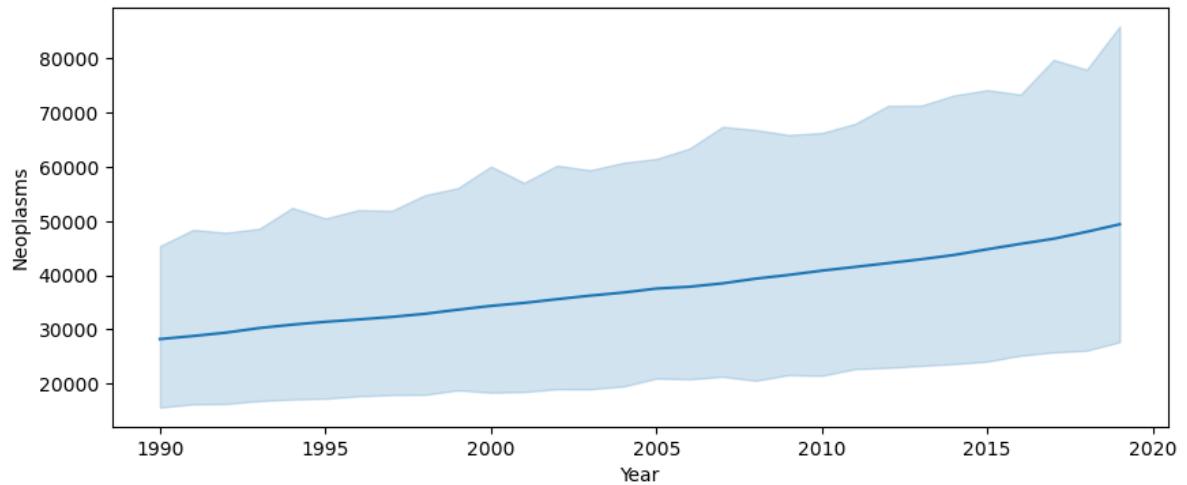
```
Out[104]:
```

count	6.120000e+03
mean	3.754224e+04
std	1.615584e+05
min	1.000000e+00
25%	8.097500e+02
50%	5.629500e+03
75%	2.014775e+04
max	2.716551e+06

Name: Neoplasms, dtype: float64

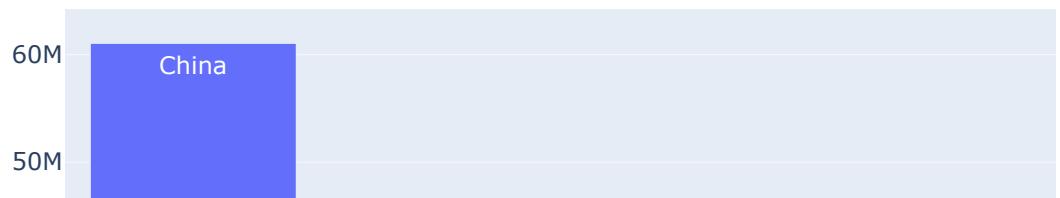
```
In [105]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Neoplasms")
```

```
Out[105]: <AxesSubplot:xlabel='Year', ylabel='Neoplasms'>
```



```
In [106...]: data = df.groupby(['Country/Territory'])["Neoplasms"].sum().sort_values(ascending :  
In [107...]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti:
```

Neoplasms - No. of People died from Neoplasms



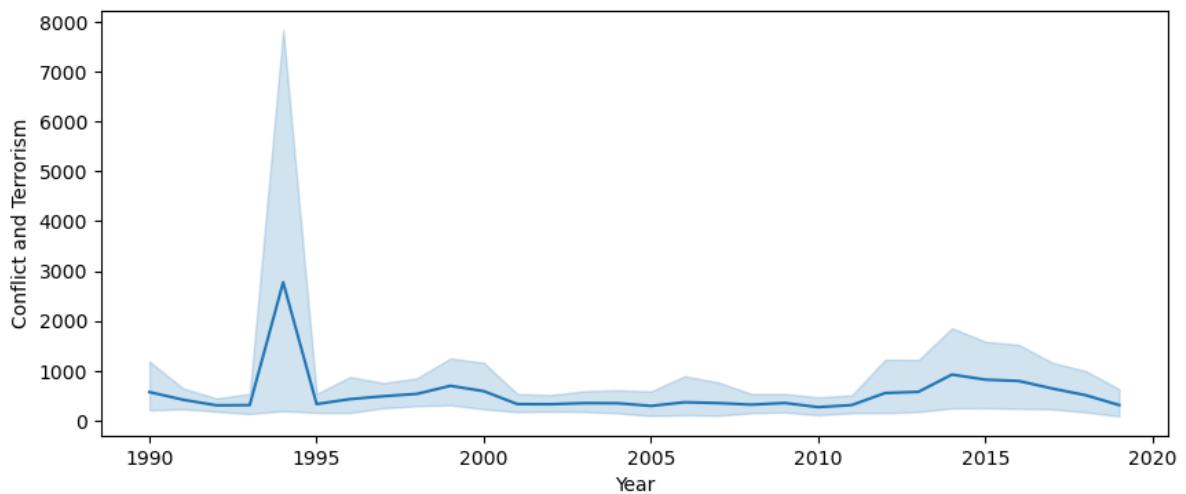
## 23. Conflict and Terrorism - No. of People died from Conflict and Terrorism

```
In [108...]: df["Conflict and Terrorism"].describe()
```

```
Out[108]: count      6120.000000
mean       538.243954
std        7033.308187
min         0.000000
25%        0.000000
50%        0.000000
75%       23.000000
max      503532.000000
Name: Conflict and Terrorism, dtype: float64
```

```
In [109... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Conflict and Terrorism")
```

```
Out[109]: <AxesSubplot:xlabel='Year', ylabel='Conflict and Terrorism'>
```



```
In [110... data = df.groupby(['Country/Territory'])["Conflict and Terrorism"].sum().sort_values(ascending=False)
```

```
In [111... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Conflict and Terrorism - No. of People died from Conflict and Terrorism



## 24. Diabetes Mellitus - No. of People died from Diabetes Mellitus

```
In [112]: df["Diabetes Mellitus"].describe()
```

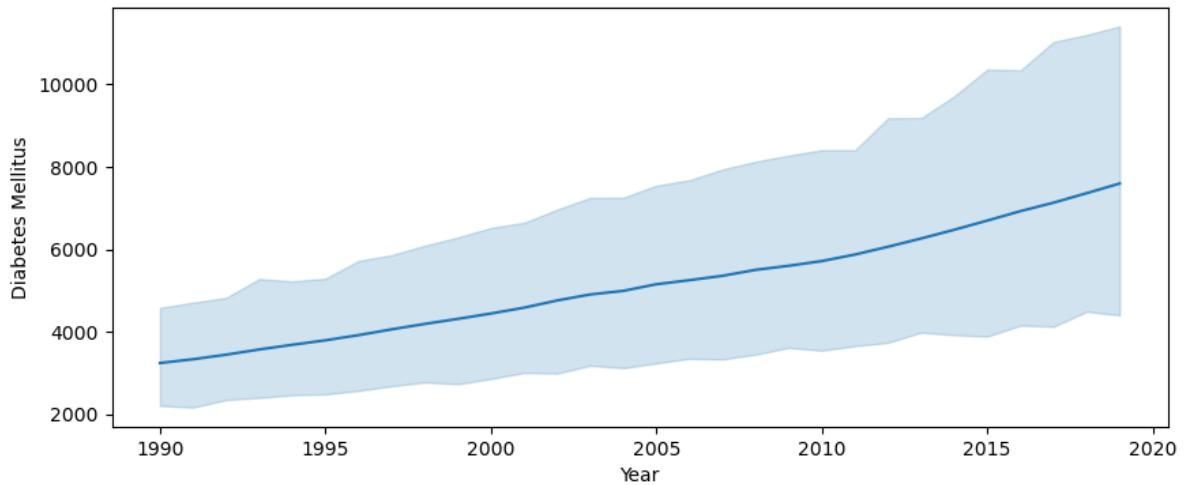
```
Out[112]:
```

count	6120.000000
mean	5138.704575
std	16773.081040
min	1.000000
25%	236.000000
50%	1087.000000
75%	2954.000000
max	273089.000000

Name: Diabetes Mellitus, dtype: float64

```
In [113]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Diabetes Mellitus")
```

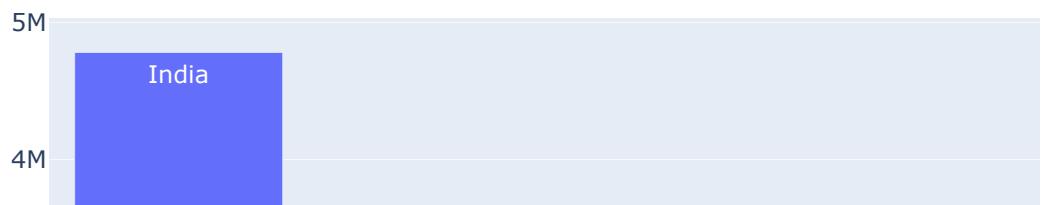
```
Out[113]: <AxesSubplot:xlabel='Year', ylabel='Diabetes Mellitus'>
```



```
In [114]: data = df.groupby(['Country/Territory'])["Diabetes Mellitus"].sum().sort_values(as
```

```
In [115]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

### Diabetes Mellitus - No. of People died from Diabetes Mellitus



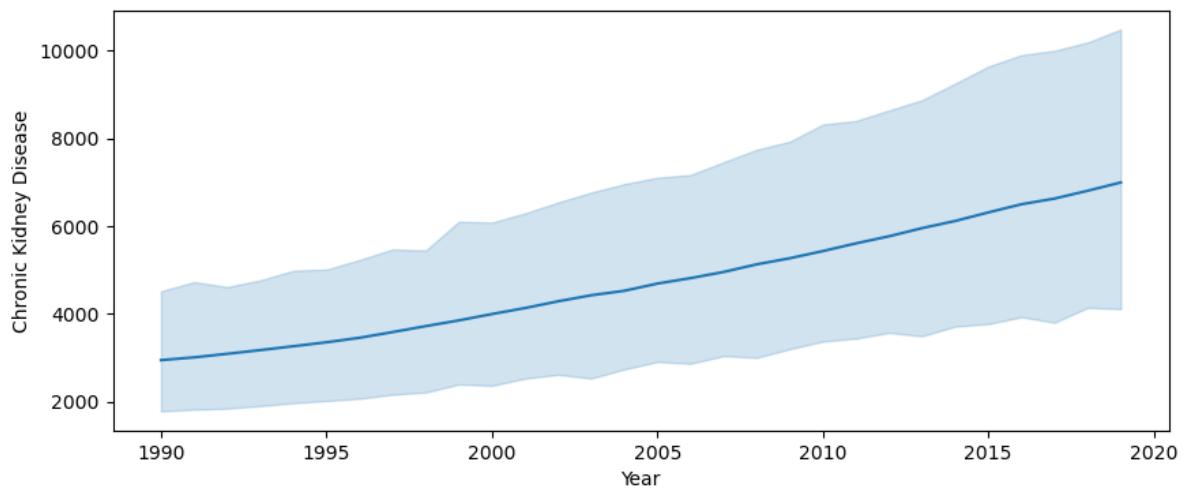
### 25. Chronic Kidney Disease - No. of People died from Chronic Kidney Disease

```
In [116]: df["Chronic Kidney Disease"].describe()
```

```
Out[116]: count    6120.000000
mean     4724.132680
std      16470.429969
min      0.000000
25%     145.750000
50%     822.000000
75%     2922.500000
max     222922.000000
Name: Chronic Kidney Disease, dtype: float64
```

```
In [117... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Chronic Kidney Disease")
```

```
Out[117]: <AxesSubplot:xlabel='Year', ylabel='Chronic Kidney Disease'>
```



```
In [118... data = df.groupby(['Country/Territory'])["Chronic Kidney Disease"].sum().sort_values(ascending=False)
```

```
In [119... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti...
```

## Chronic Kidney Disease - No. of People died from Chronic



## 26. Poisonings - No. of People died from Poisoning

```
In [121]: df["Poisonings"].describe()
```

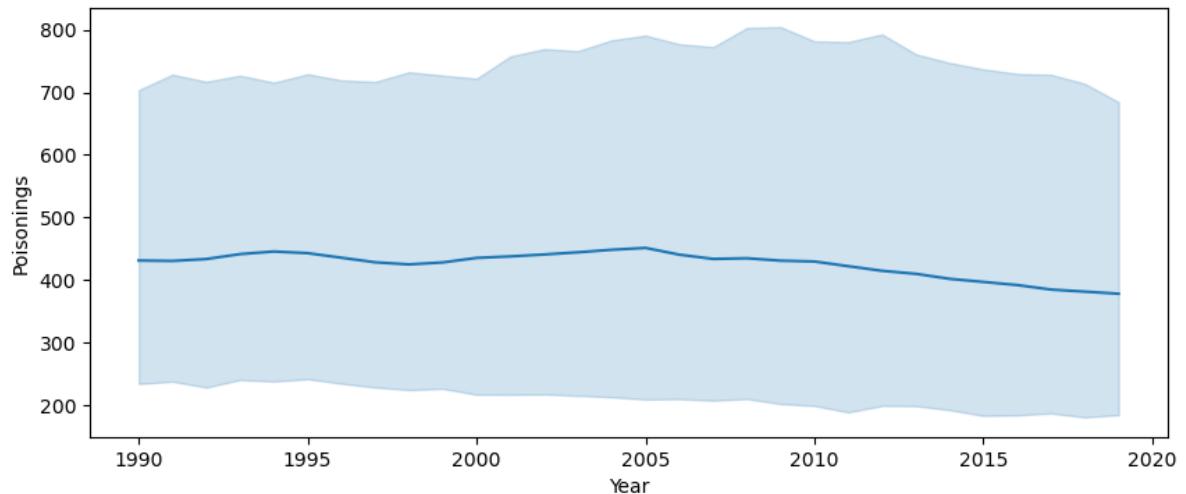
```
Out[121]:
```

count	6120.000000
mean	425.013399
std	2022.640521
min	0.000000
25%	6.000000
50%	52.500000
75%	254.000000
max	30883.000000

Name: Poisonings, dtype: float64

```
In [122]: plt.figure(figsize=(10,4))  
sns.lineplot(data=df, x="Year", y="Poisonings")
```

```
Out[122]: <AxesSubplot:xlabel='Year', ylabel='Poisonings'>
```



```
In [123...]: data = df.groupby(['Country/Territory'])["Poisonings"].sum().sort_values(ascending=True)
```

```
In [124...]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti...
```

Poisonings - No. of People died from Poisoning



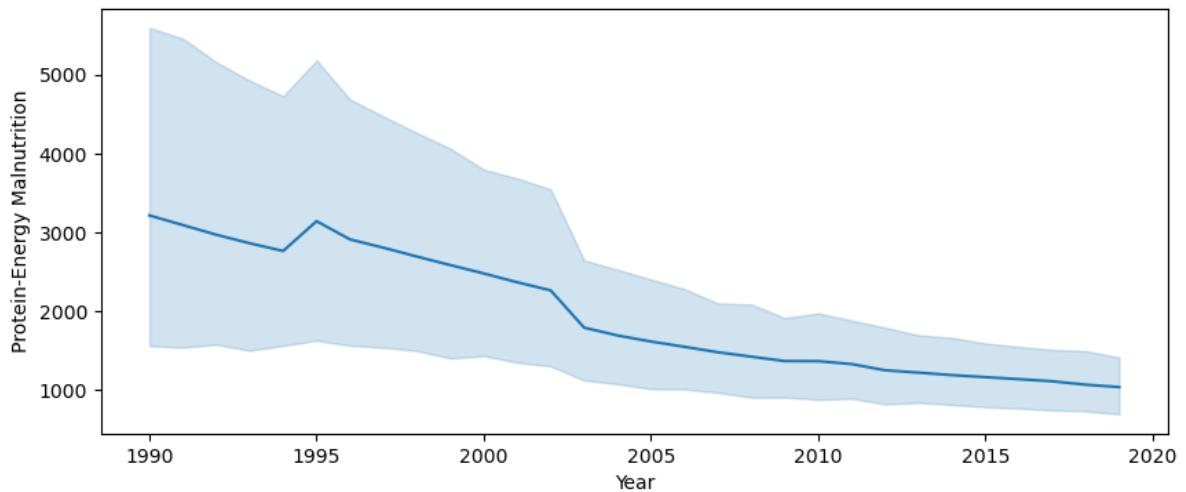
## 27. Protein-Energy Malnutrition - No. of People died from Protein-Energy Malnutrition

```
In [125...]: df["Protein-Energy Malnutrition"].describe()
```

```
Out[125]: count    6120.000000
mean     1965.994281
std      8255.999063
min      0.000000
25%      5.000000
50%      92.000000
75%     1042.500000
max     202241.000000
Name: Protein-Energy Malnutrition, dtype: float64
```

```
In [126... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Protein-Energy Malnutrition")
```

```
Out[126]: <AxesSubplot:xlabel='Year', ylabel='Protein-Energy Malnutrition'>
```



```
In [127... data = df.groupby(['Country/Territory'])["Protein-Energy Malnutrition"].sum().sort
```

```
In [128... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Protein-Energy Malnutrition - No. of People died from Protein-Energy Malnutrition



## 28. Chronic Respiratory Diseases - No. of People died from Chronic Respiratory Diseases

```
In [129...]: df["Chronic Respiratory Diseases"].describe()
```

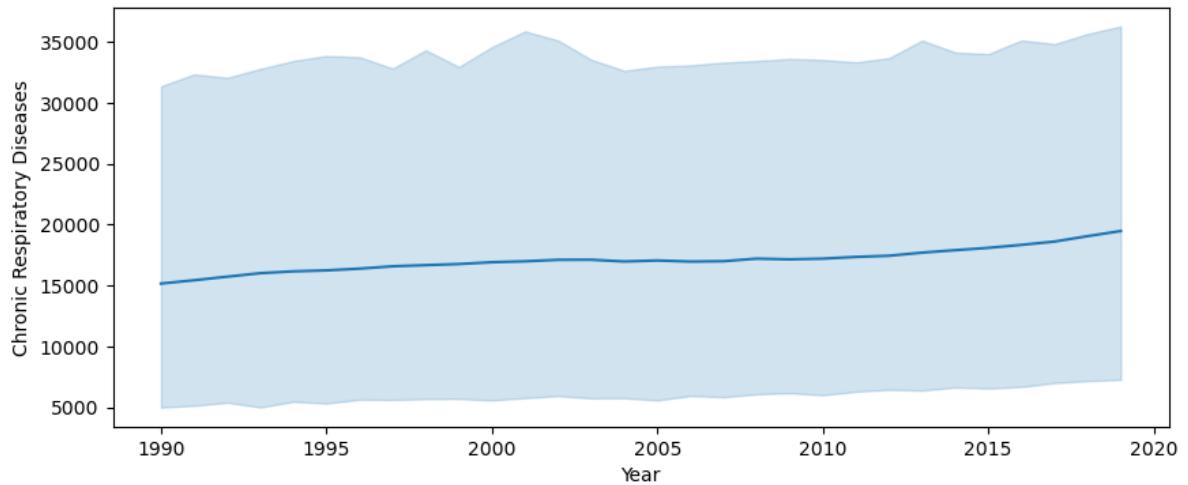
```
Out[129]:
```

count	6.120000e+03
mean	1.709237e+04
std	1.051572e+05
min	1.000000e+00
25%	2.890000e+02
50%	1.689000e+03
75%	5.249750e+03
max	1.366039e+06

Name: Chronic Respiratory Diseases, dtype: float64

```
In [130...]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Chronic Respiratory Diseases")
```

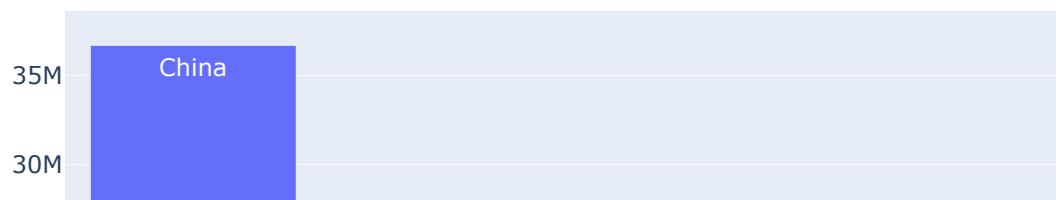
```
Out[130]: <AxesSubplot:xlabel='Year', ylabel='Chronic Respiratory Diseases'>
```



```
In [131...]: data = df.groupby(['Country/Territory'])["Chronic Respiratory Diseases"].sum().sort_index(ascending=True)
```

```
In [132...]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Chronic Respiratory Diseases - No. of People died from Chri")
```

Chronic Respiratory Diseases - No. of People died from Chronic Respiratory Diseases



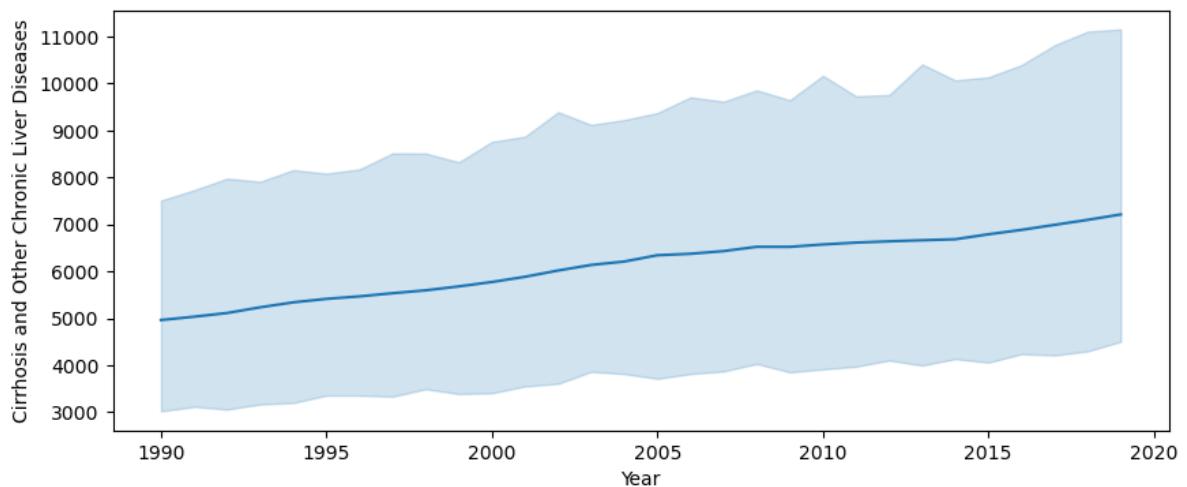
## 29. Cirrhosis and Other Chronic Liver Diseases - No. of People died from Cirrhosis and Other Chronic Liver Diseases

```
In [133...]: df["Cirrhosis and Other Chronic Liver Diseases"].describe()
```

```
Out[133]: count    6120.000000
mean     6124.072059
std      20688.118580
min      0.000000
25%     154.000000
50%     1210.000000
75%     3547.250000
max     270037.000000
Name: Cirrhosis and Other Chronic Liver Diseases, dtype: float64
```

```
In [134... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Cirrhosis and Other Chronic Liver Diseases")
```

```
Out[134]: <AxesSubplot:xlabel='Year', ylabel='Cirrhosis and Other Chronic Liver Diseases'>
```



```
In [135... data = df.groupby(['Country/Territory'])["Cirrhosis and Other Chronic Liver Disease
```

```
In [136... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti
```

## Cirrhosis and Other Chronic Liver Diseases - No. of People



## 30. Digestive Diseases - No. of People died from Digestive Diseases

```
In [137]: df["Digestive Diseases"].describe()
```

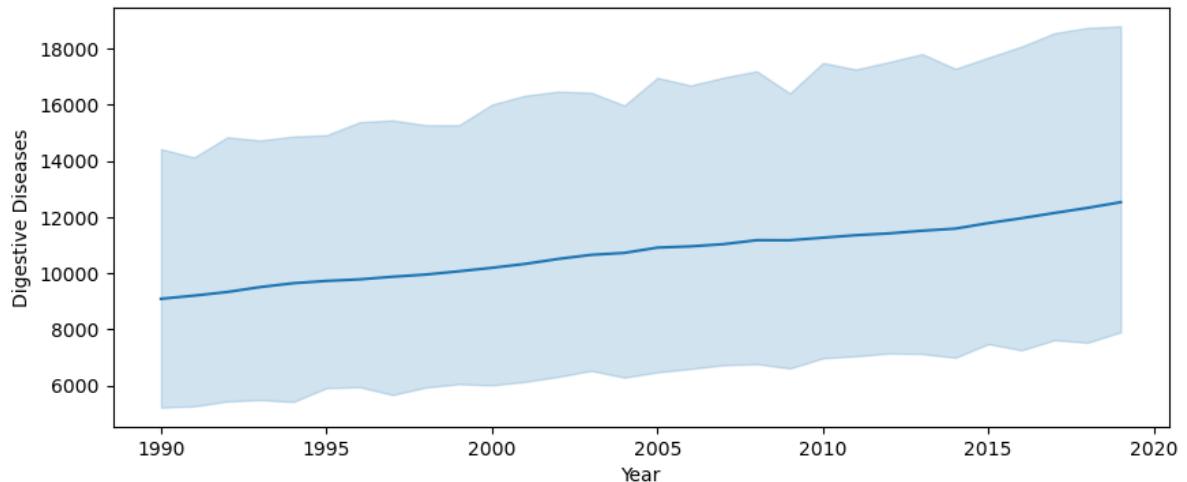
```
Out[137]:
```

	Digestive Diseases
count	6120.000000
mean	10725.267157
std	37228.051096
min	0.000000
25%	284.000000
50%	2185.000000
75%	6080.000000
max	464914.000000

Name: Digestive Diseases, dtype: float64

```
In [138]: plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Digestive Diseases")
```

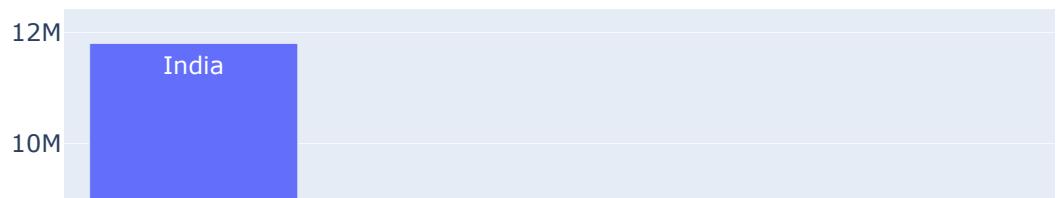
```
Out[138]: <AxesSubplot:xlabel='Year', ylabel='Digestive Diseases'>
```



```
In [139...]: data = df.groupby(['Country/Territory'])["Digestive Diseases"].sum().sort_values(ascending=False)
```

```
In [140...]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti...
```

Digestive Diseases - No. of People died from Digestive Diseases



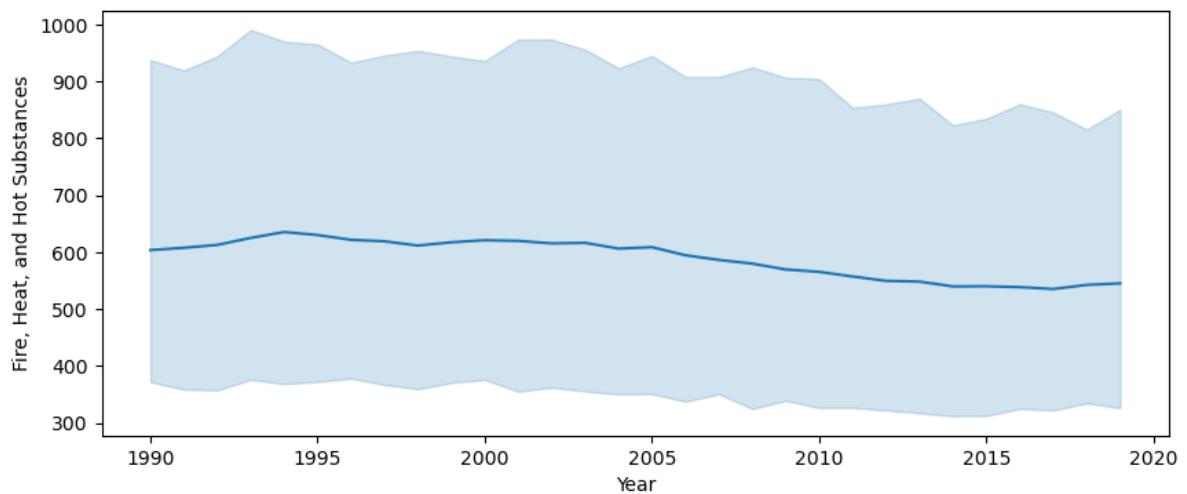
## 31. Fire, Heat, and Hot Substances - No. of People died from Fire or Heat or any Hot Substances

```
In [141...]: df[["Fire, Heat, and Hot Substances"]].describe()
```

```
Out[141]: count    6120.000000
mean     588.711438
std      2128.595120
min      0.000000
25%     17.000000
50%     126.000000
75%     450.000000
max     25876.000000
Name: Fire, Heat, and Hot Substances, dtype: float64
```

```
In [142... plt.figure(figsize=(10,4))
sns.lineplot(data=df, x="Year", y="Fire, Heat, and Hot Substances")
```

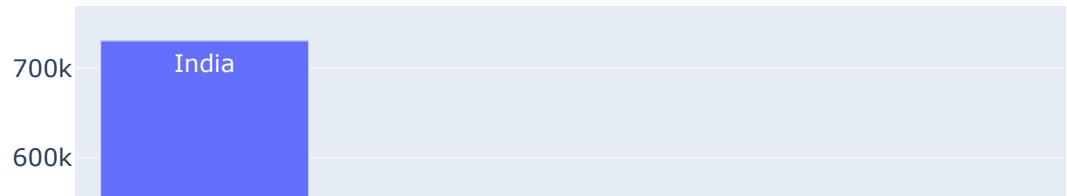
```
Out[142]: <AxesSubplot:xlabel='Year', ylabel='Fire, Heat, and Hot Substances'>
```



```
In [143... data = df.groupby(['Country/Territory'])["Fire, Heat, and Hot Substances"].sum().sort_values(ascending=False)
```

```
In [144... px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index, title="Top Countries by Cause of Death")
```

## Fire, Heat, and Hot Substances - No. of People died from Fire, Heat, and Hot Substances



## 32. Acute Hepatitis - No. of People died from Acute Hepatitis

```
In [146]: df["Acute Hepatitis"].describe()
```

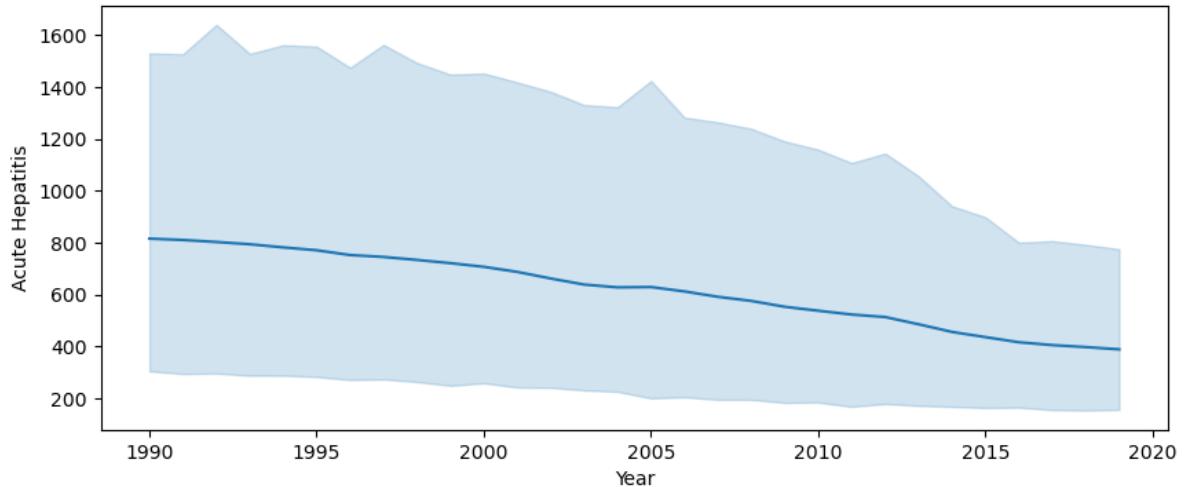
```
Out[146]:
```

count	6120.000000
mean	618.429902
std	4186.023497
min	0.000000
25%	2.000000
50%	15.000000
75%	160.000000
max	64305.000000

Name: Acute Hepatitis, dtype: float64

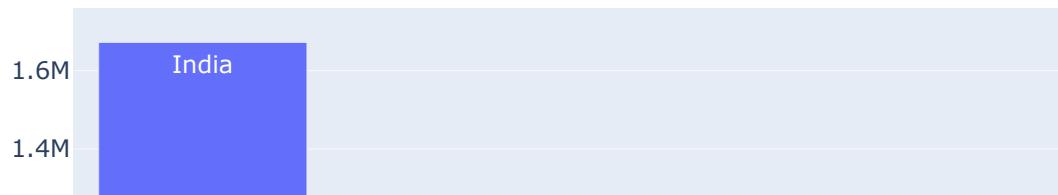
```
In [147]: plt.figure(figsize=(10,4))  
sns.lineplot(data=df, x="Year", y="Acute Hepatitis")
```

```
Out[147]: <AxesSubplot:xlabel='Year', ylabel='Acute Hepatitis'>
```



```
In [148...]: data = df.groupby(['Country/Territory'])["Acute Hepatitis"].sum().sort_values(ascending=True)
In [149...]: px.bar(data,x = data.index , y = data.values, text=data.index,color = data.index,ti...
```

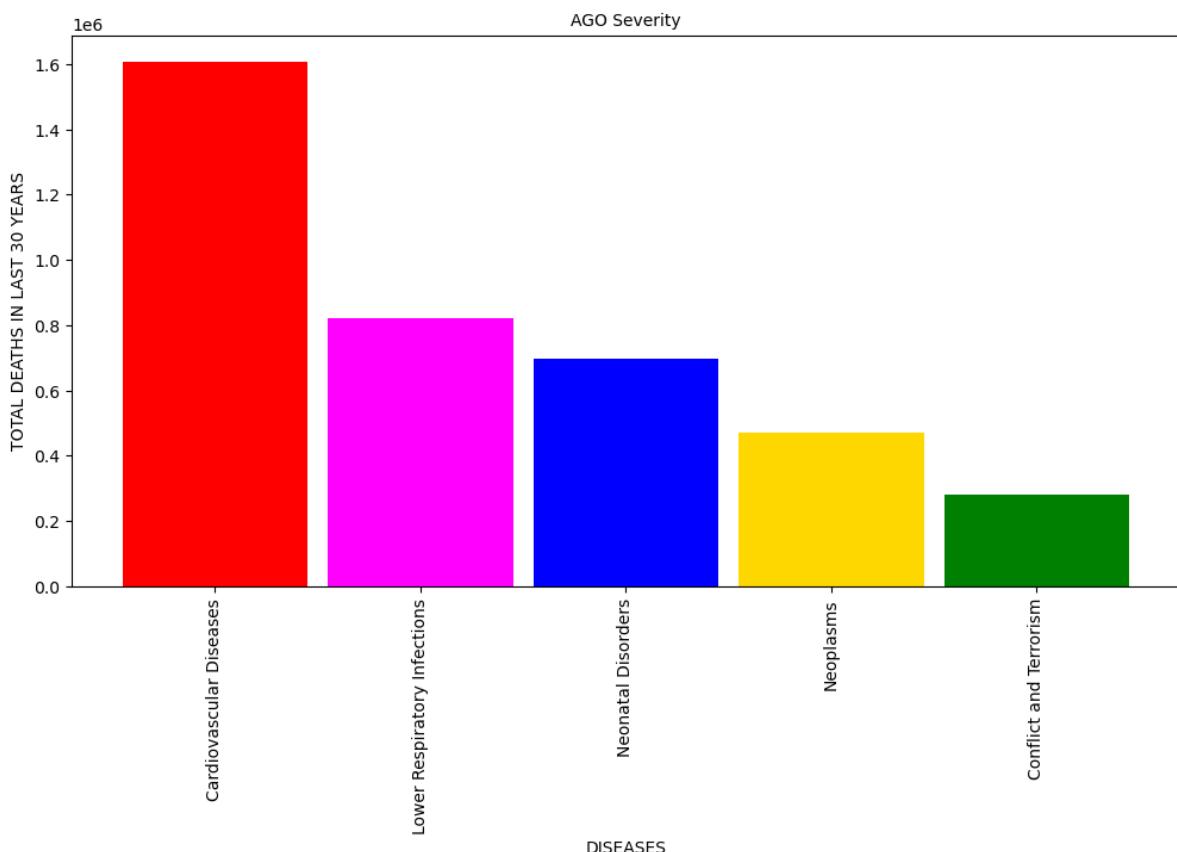
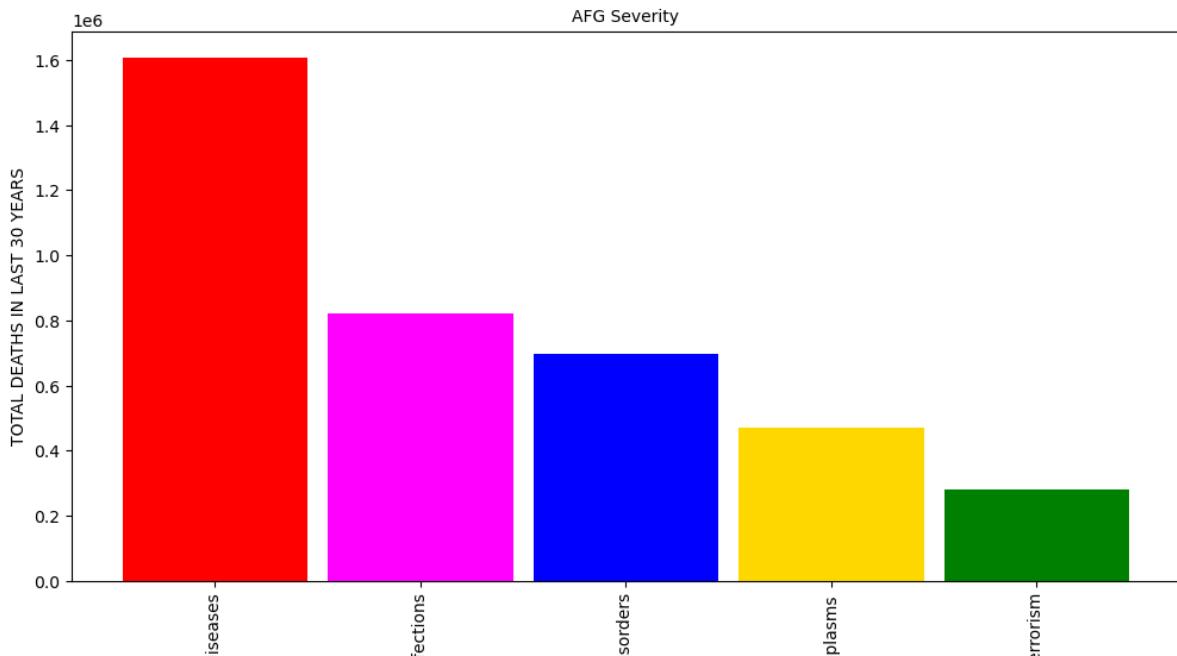
### Acute Hepatitis - No. of People died from Acute Hepatitis



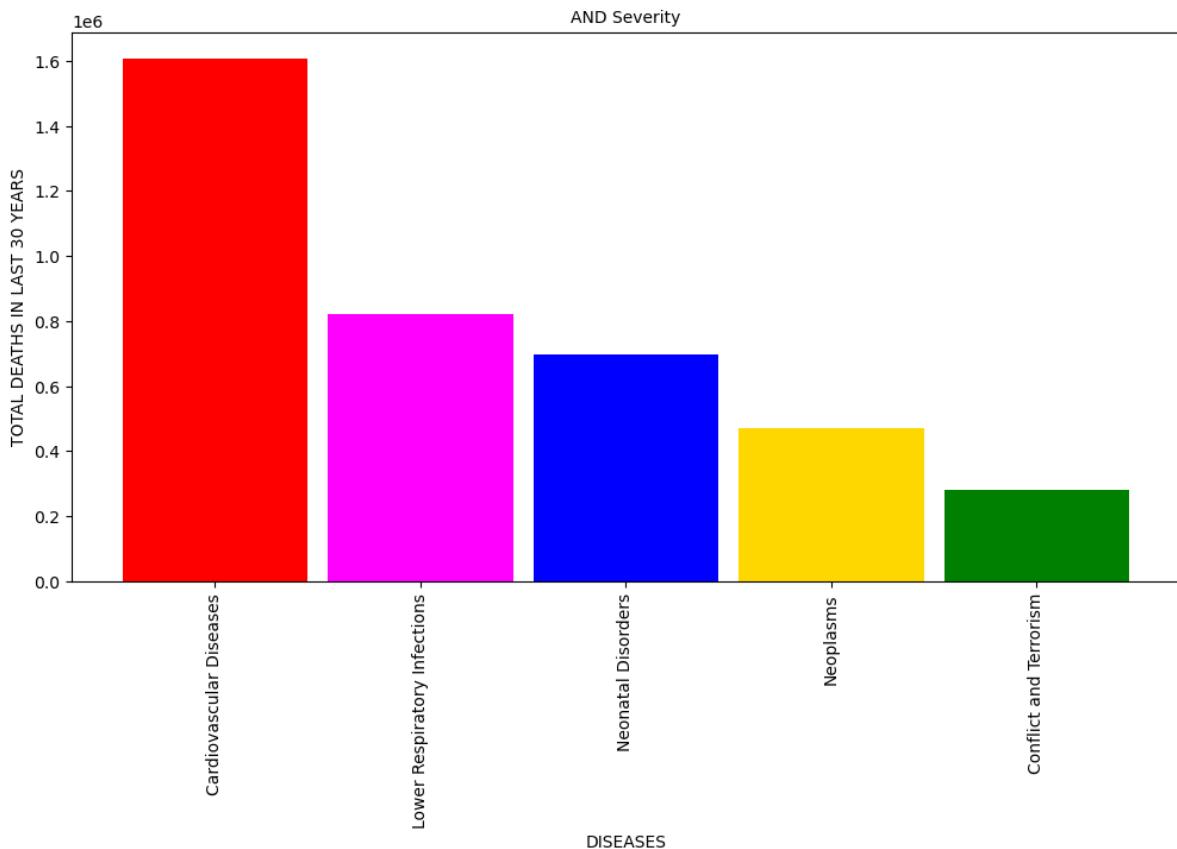
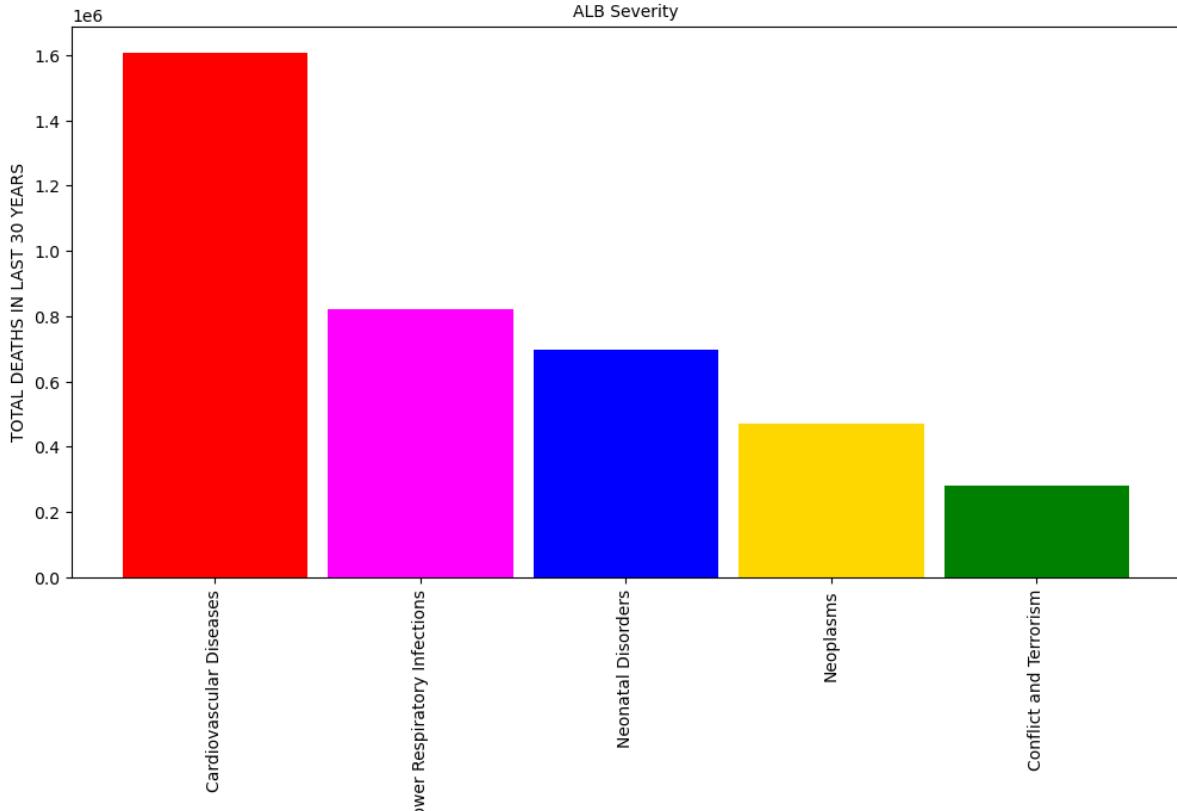
## Severity Of disease in the countries

```
In [150...]: df1 = df.drop('Year',axis=1).groupby('Code').sum().reset_index()
In [151...]: for x in df1.index:
    y=df1.Code.iloc[x]
    temp=df1.set_index('Code').iloc[0].nlargest(5)
```

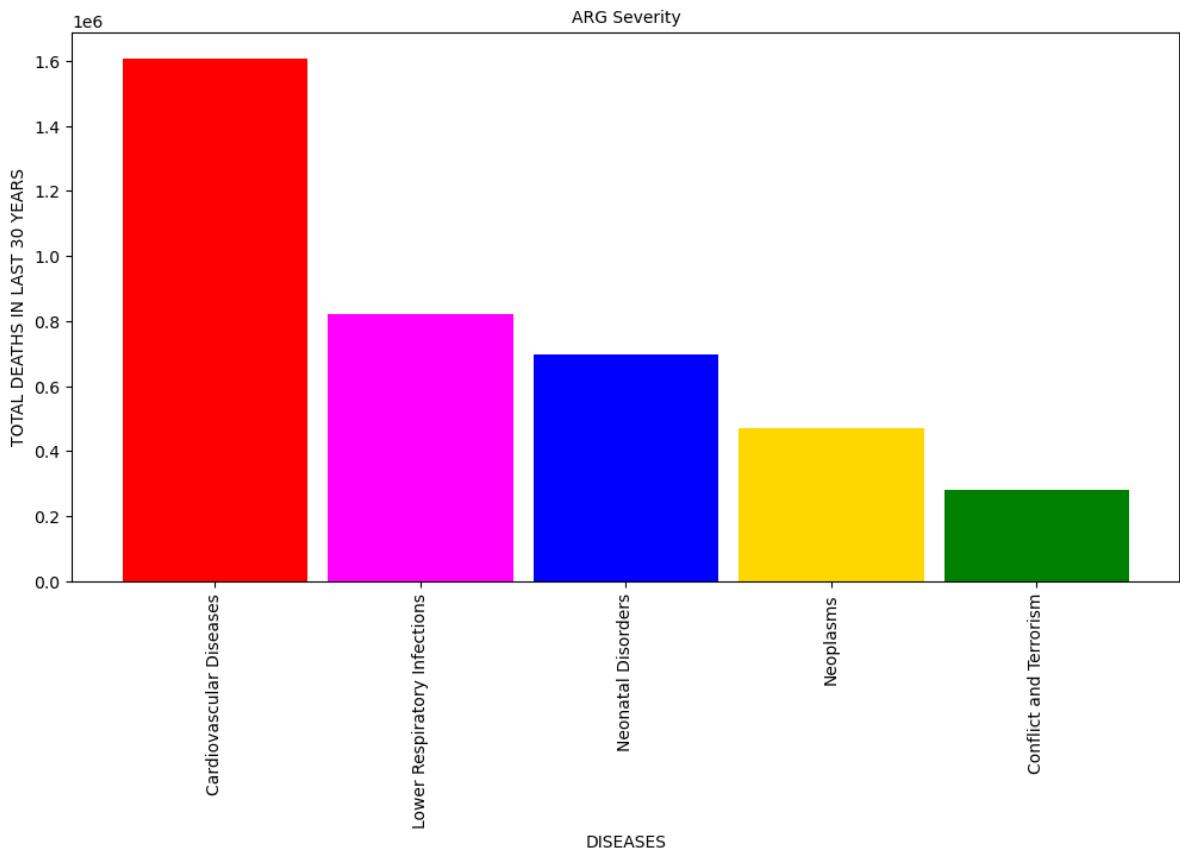
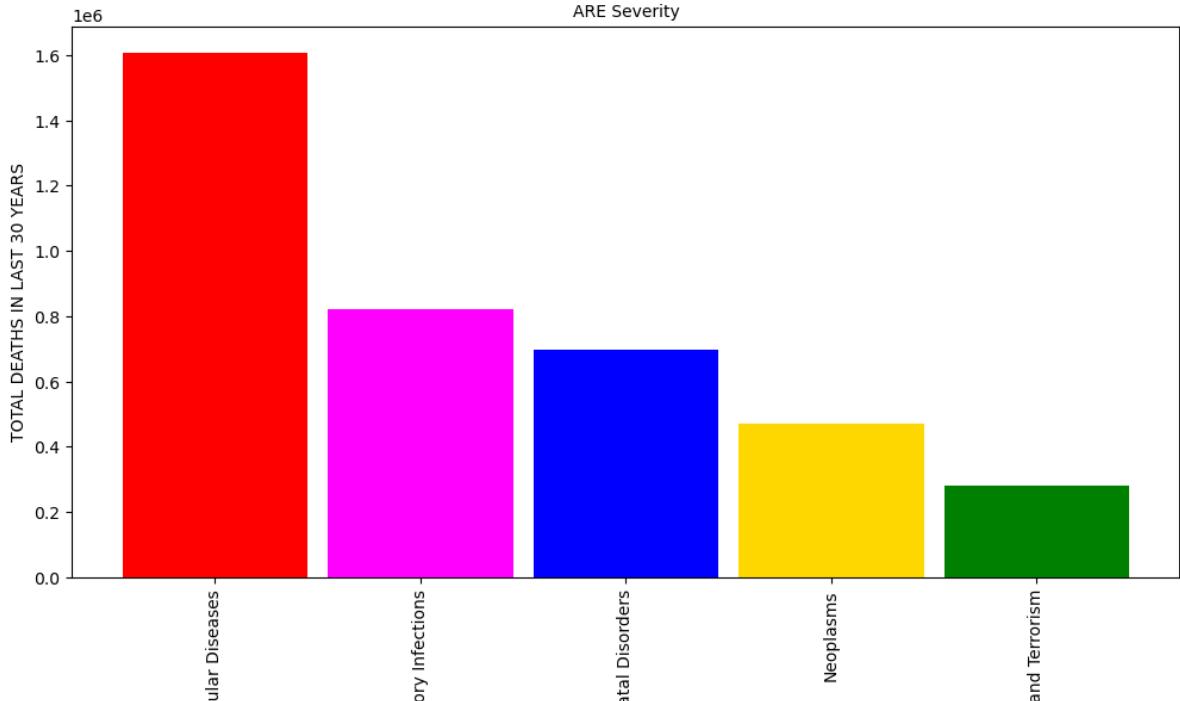
```
plt.figure(figsize=(12,6))
plt.bar(data=temp ,x = temp.index , height = temp.values, width=0.9, color = [
    plt.xticks(rotation='vertical')
    plt.xlabel("DISEASES" , size = 10)
    plt.ylabel('TOTAL DEATHS IN LAST 30 YEARS',size = 10)
    plt.title(y.upper() +' Severity',size =10)
```



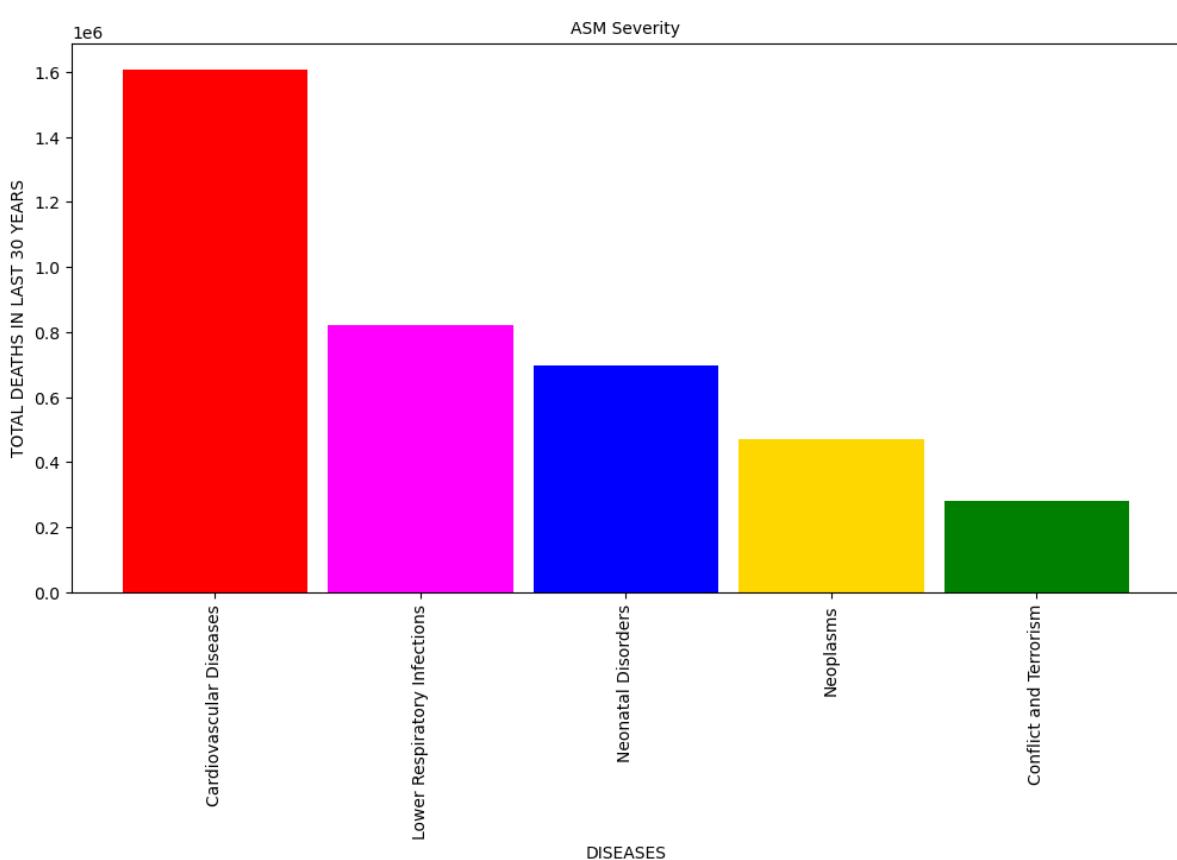
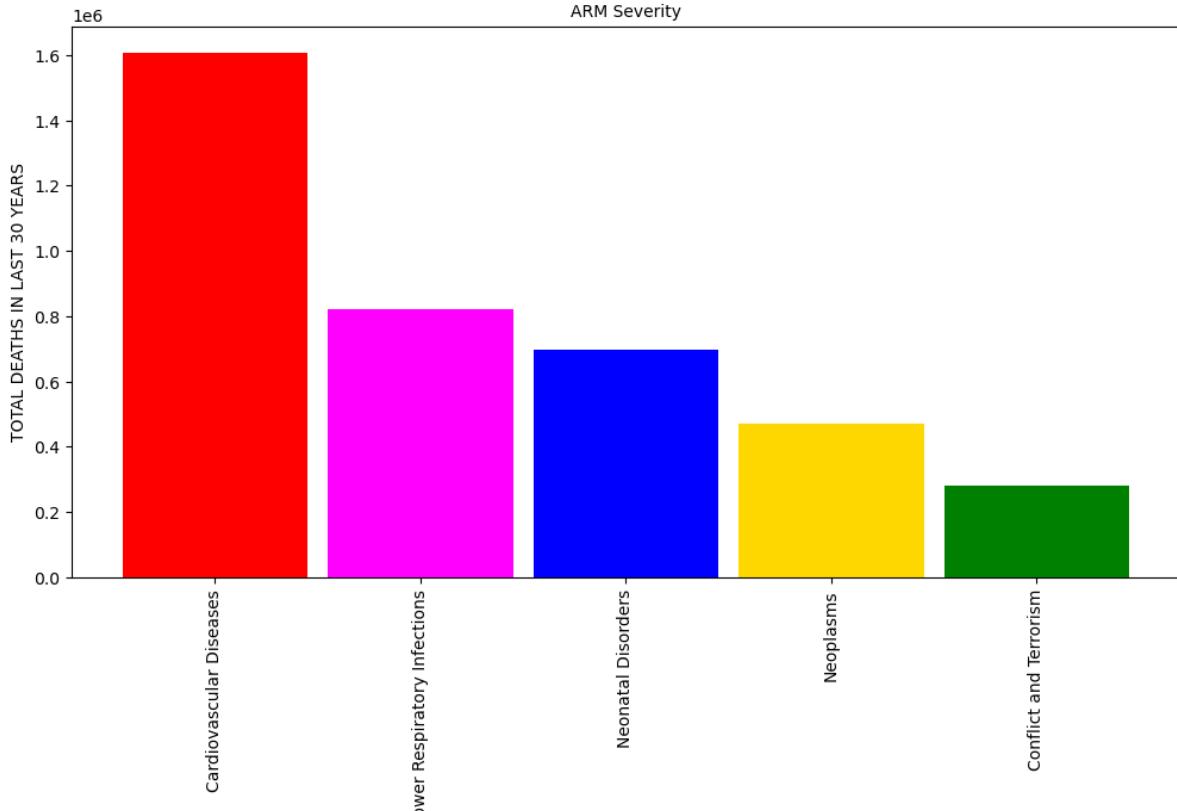
## Cause of Deaths around the World



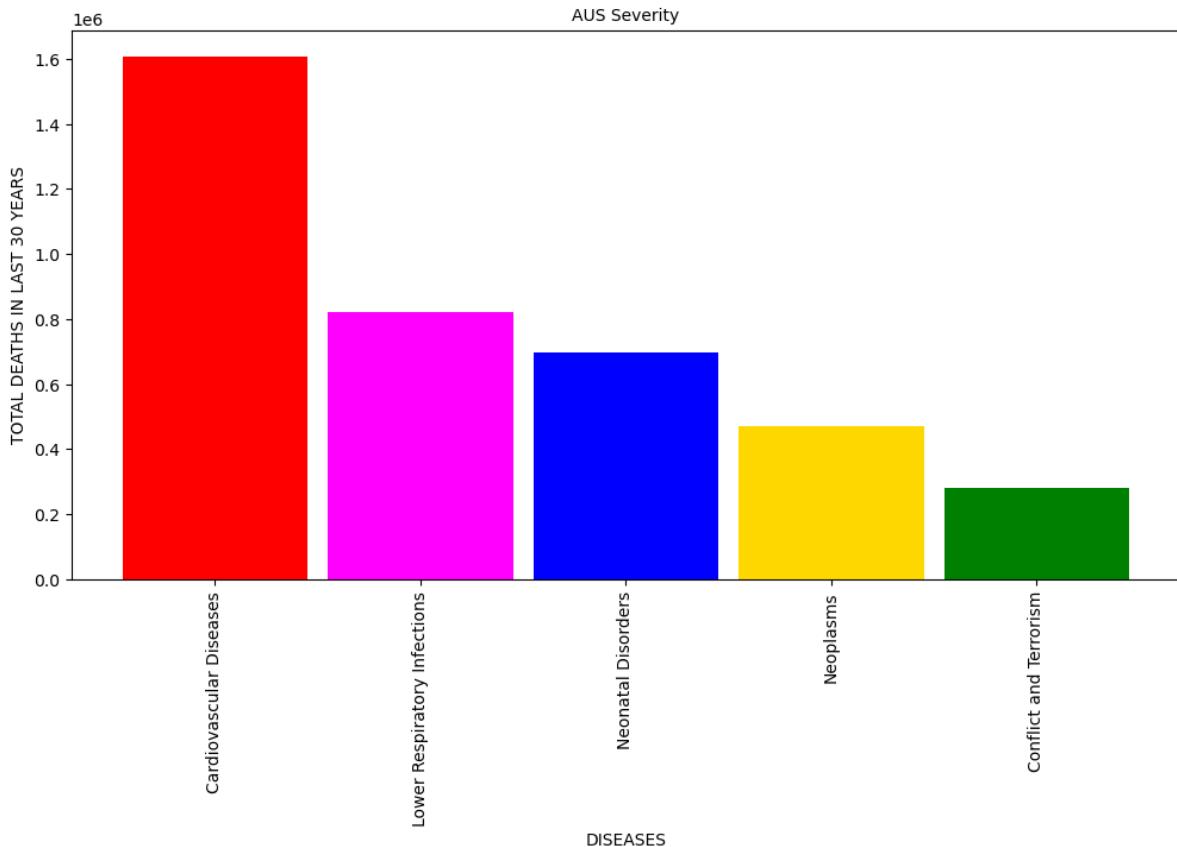
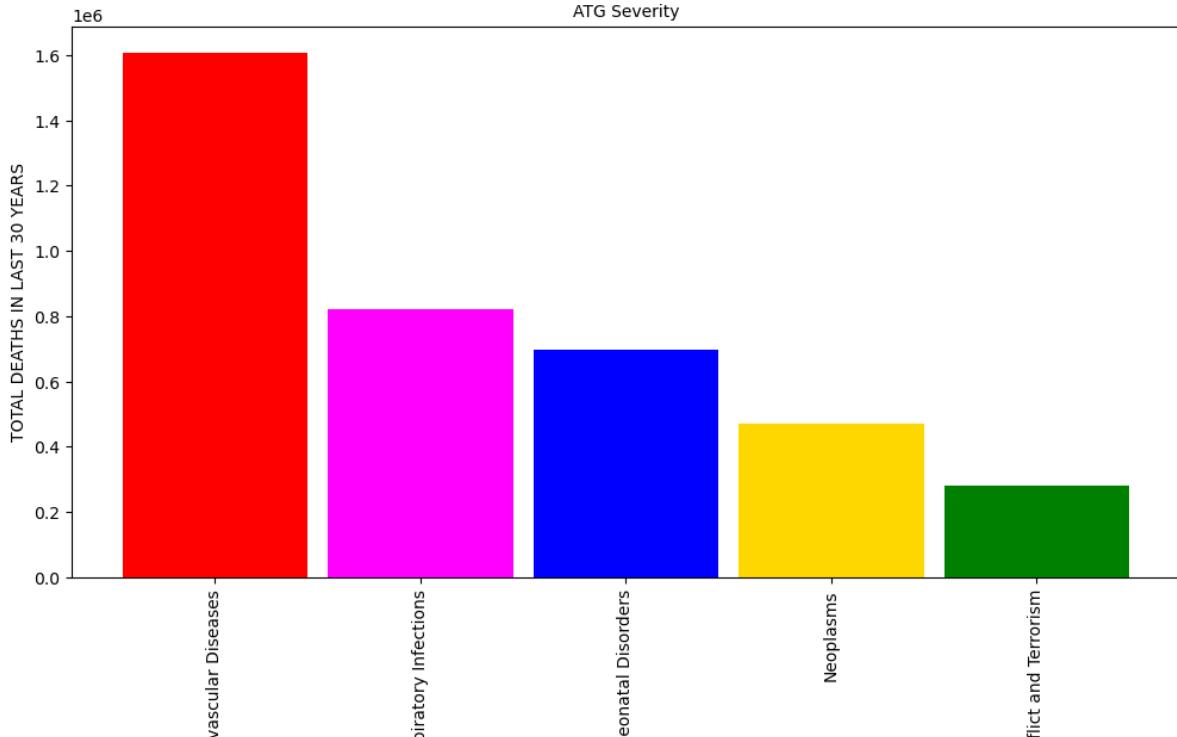
## Cause of Deaths around the World



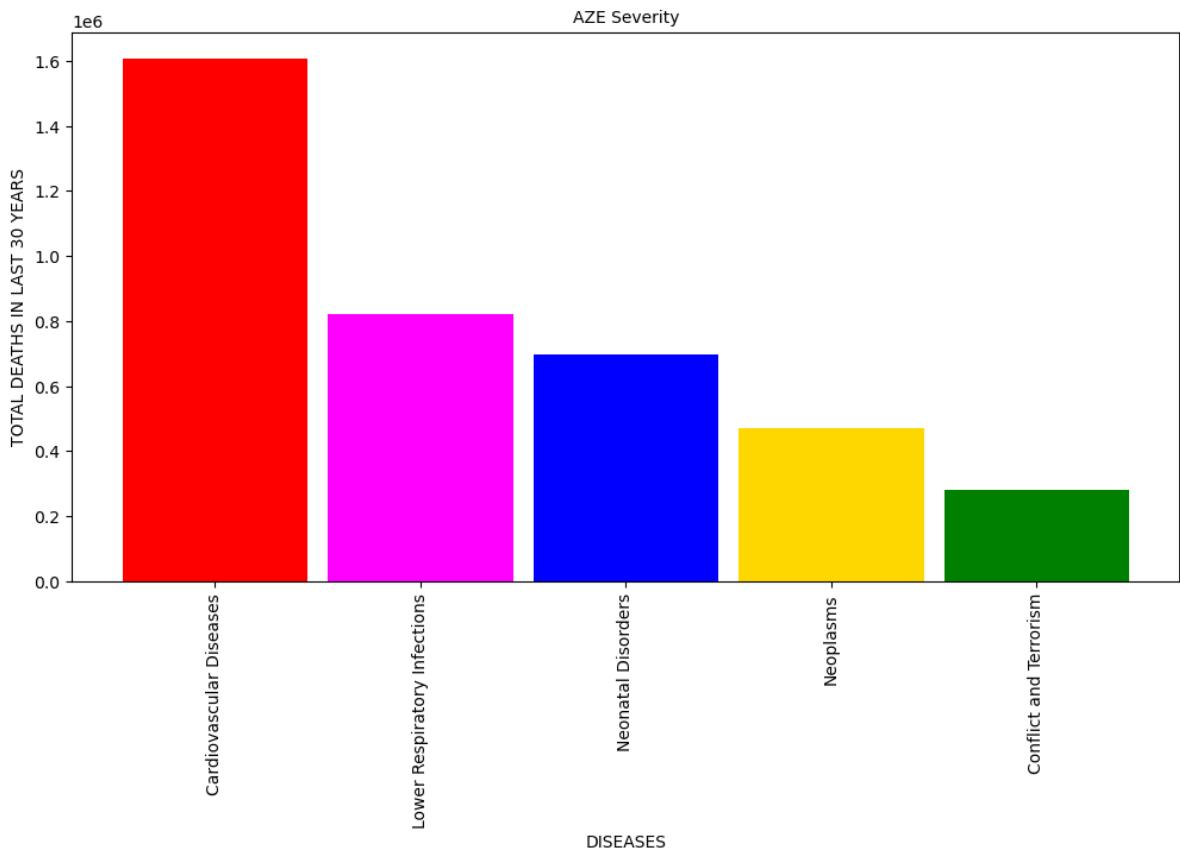
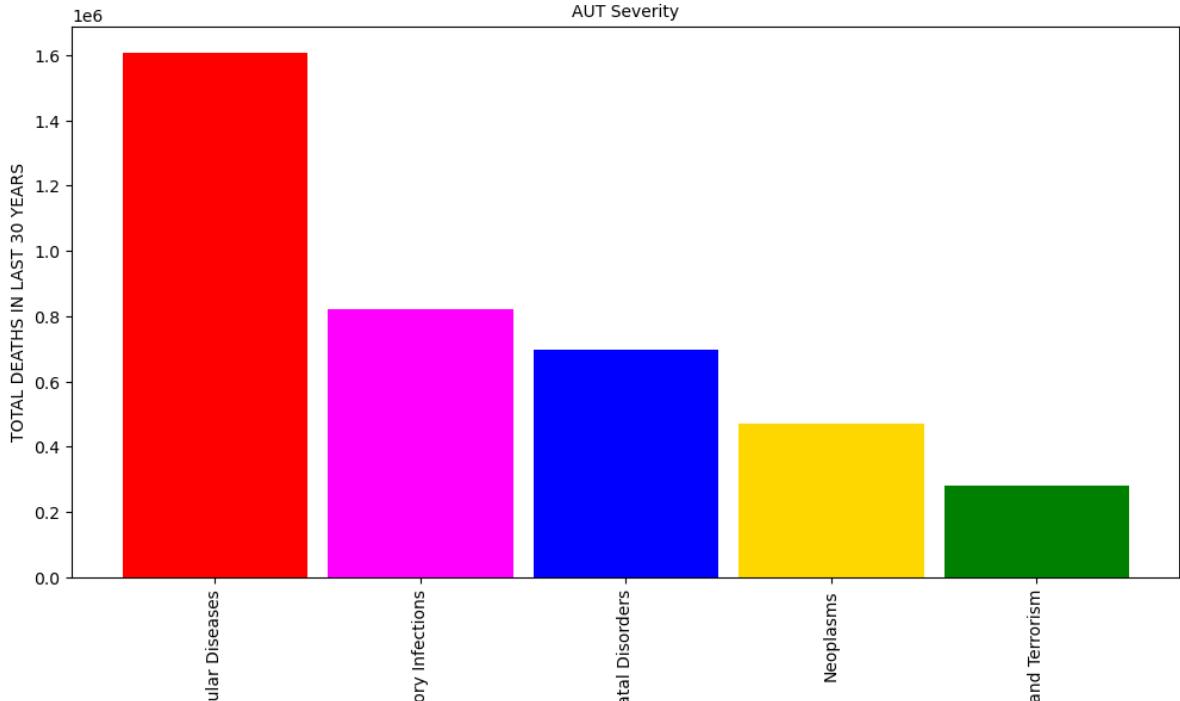
## Cause of Deaths around the World



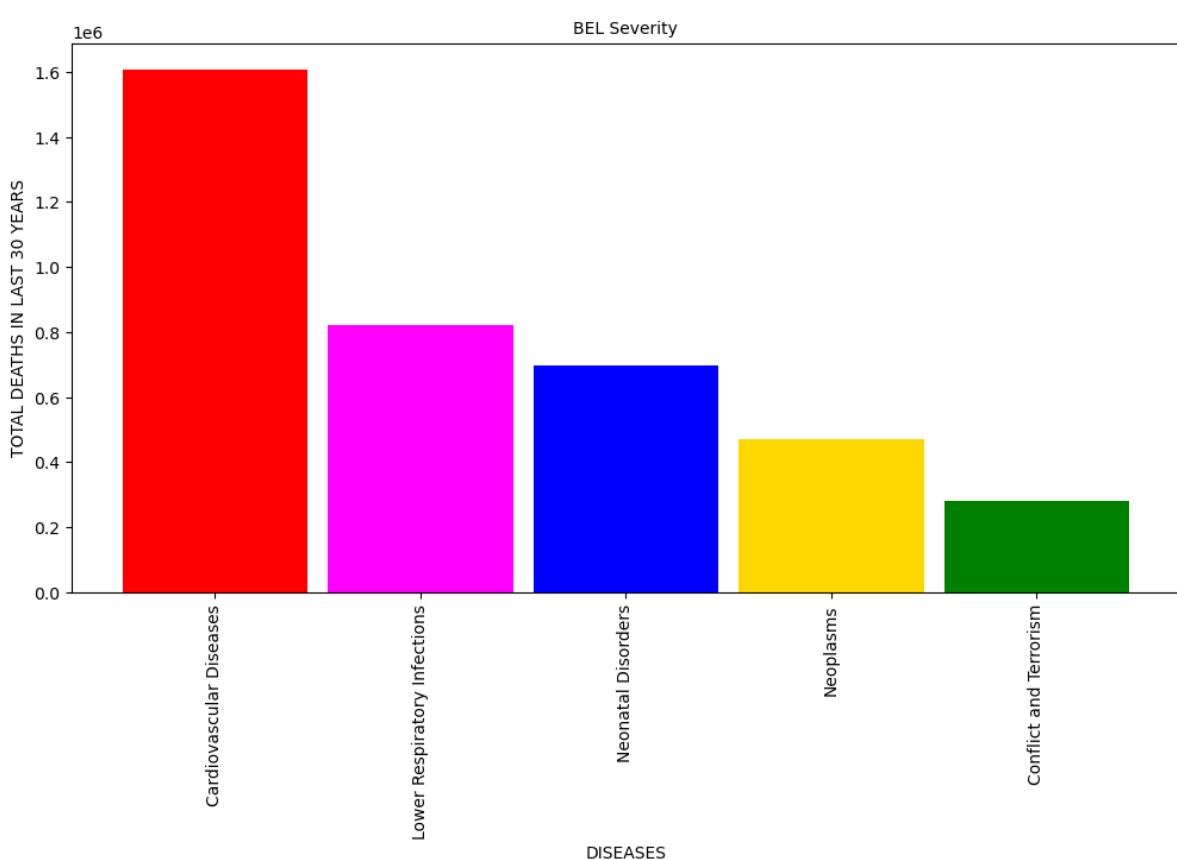
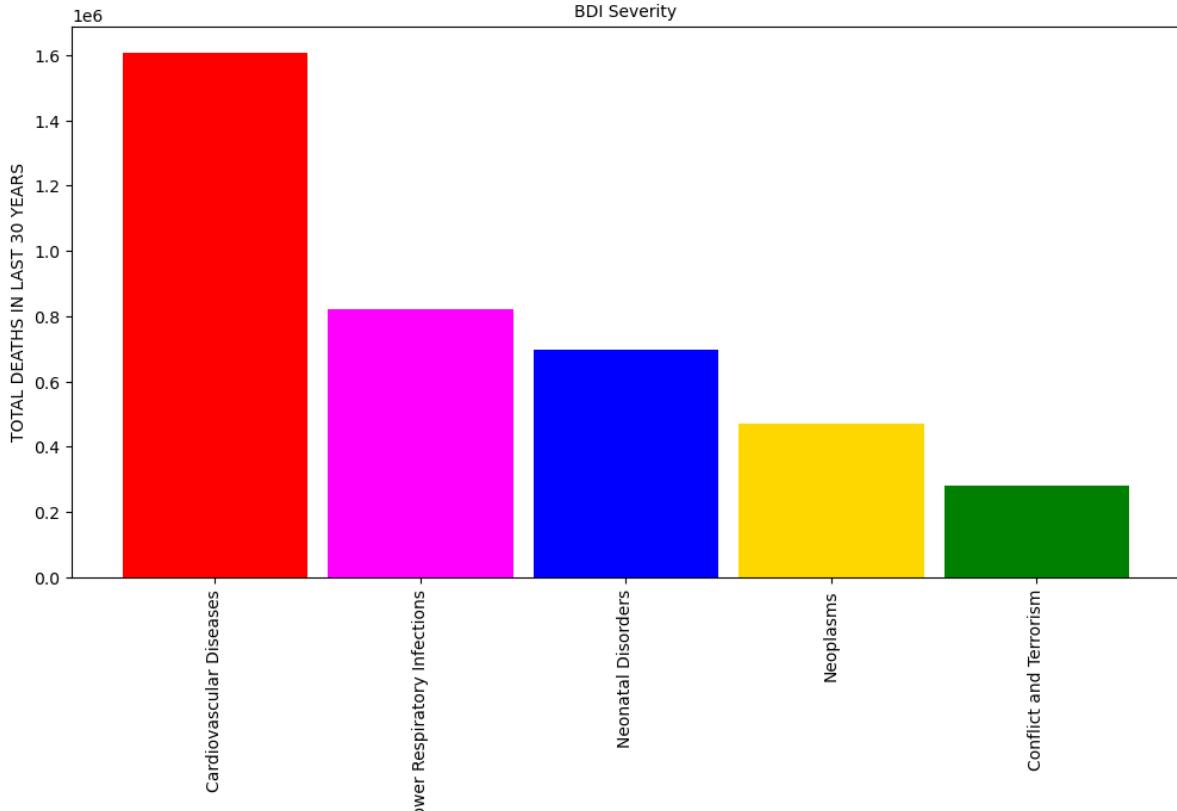
## Cause of Deaths around the World



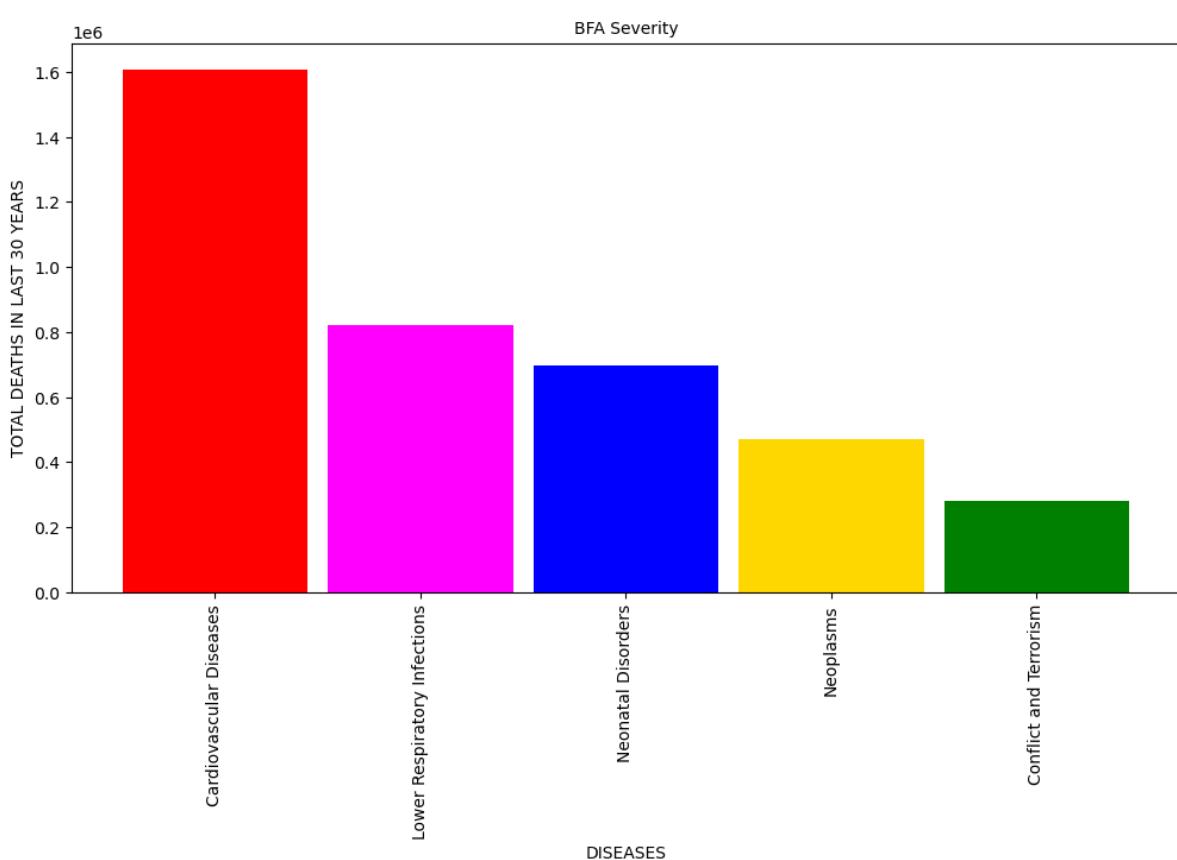
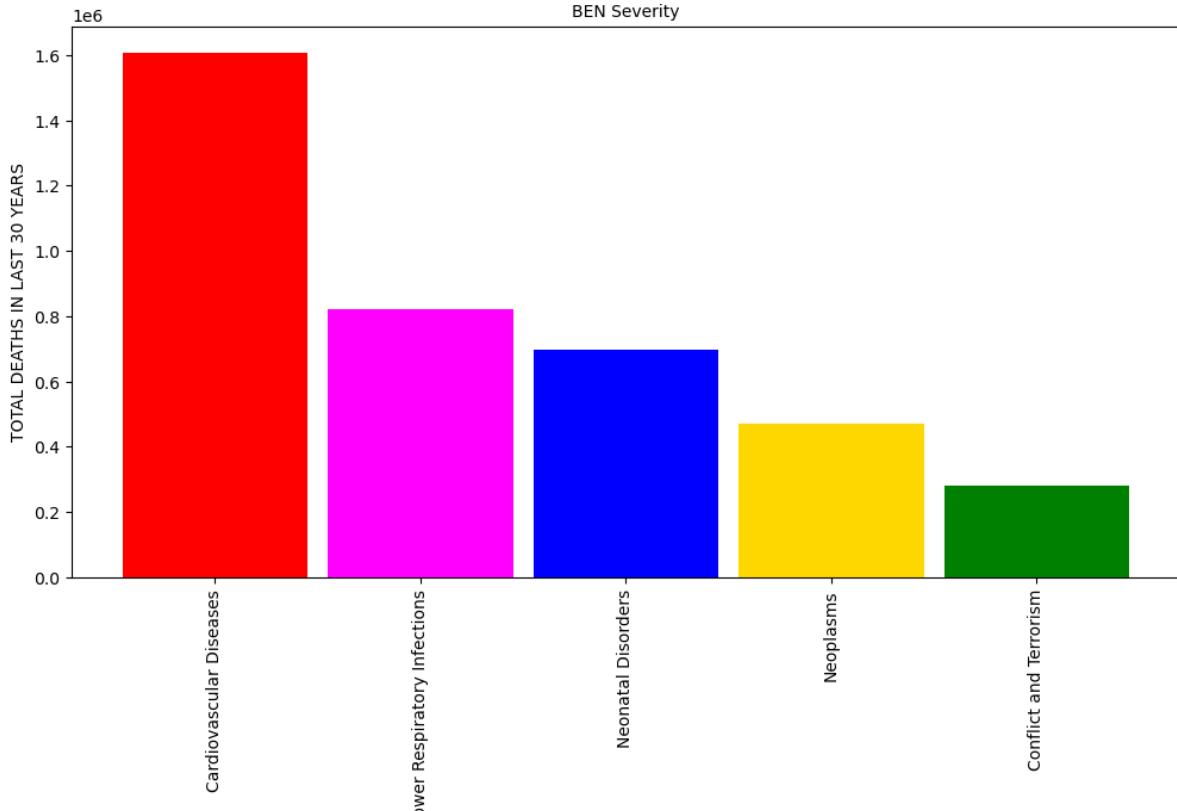
## Cause of Deaths around the World



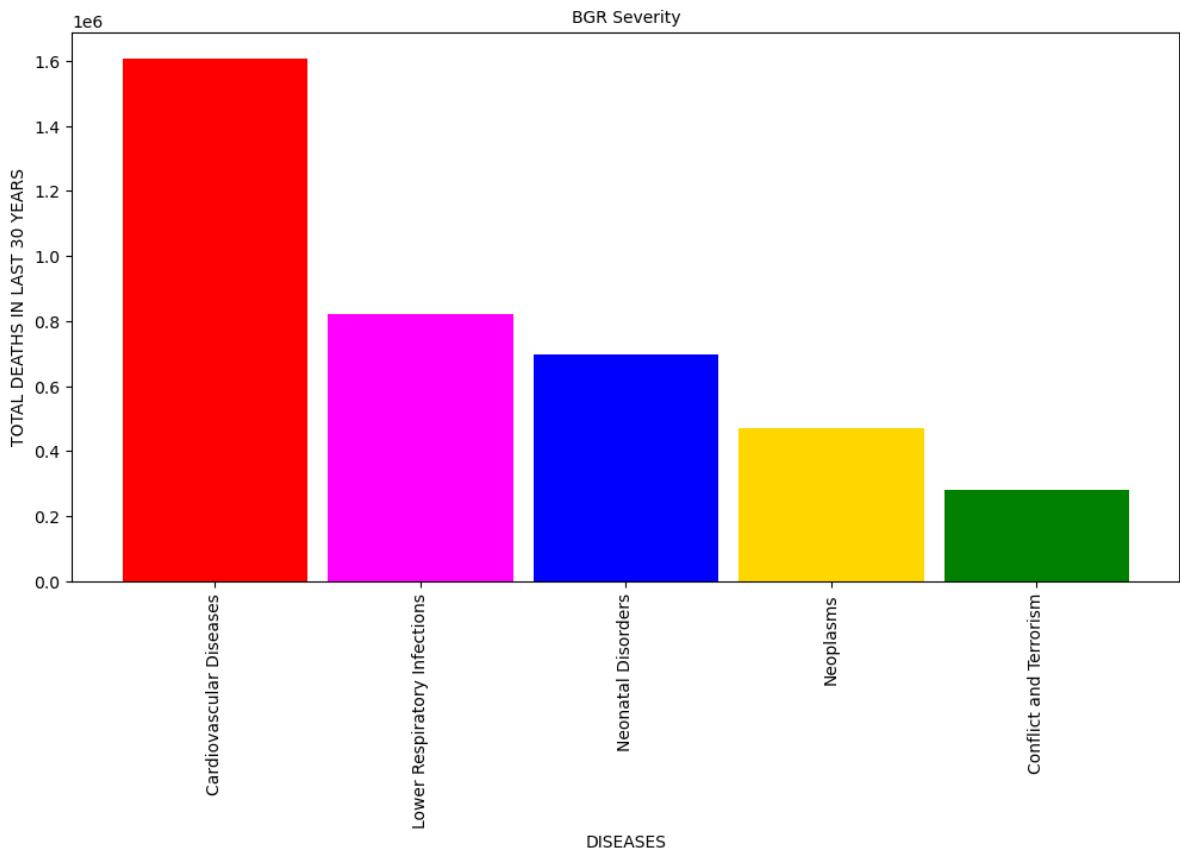
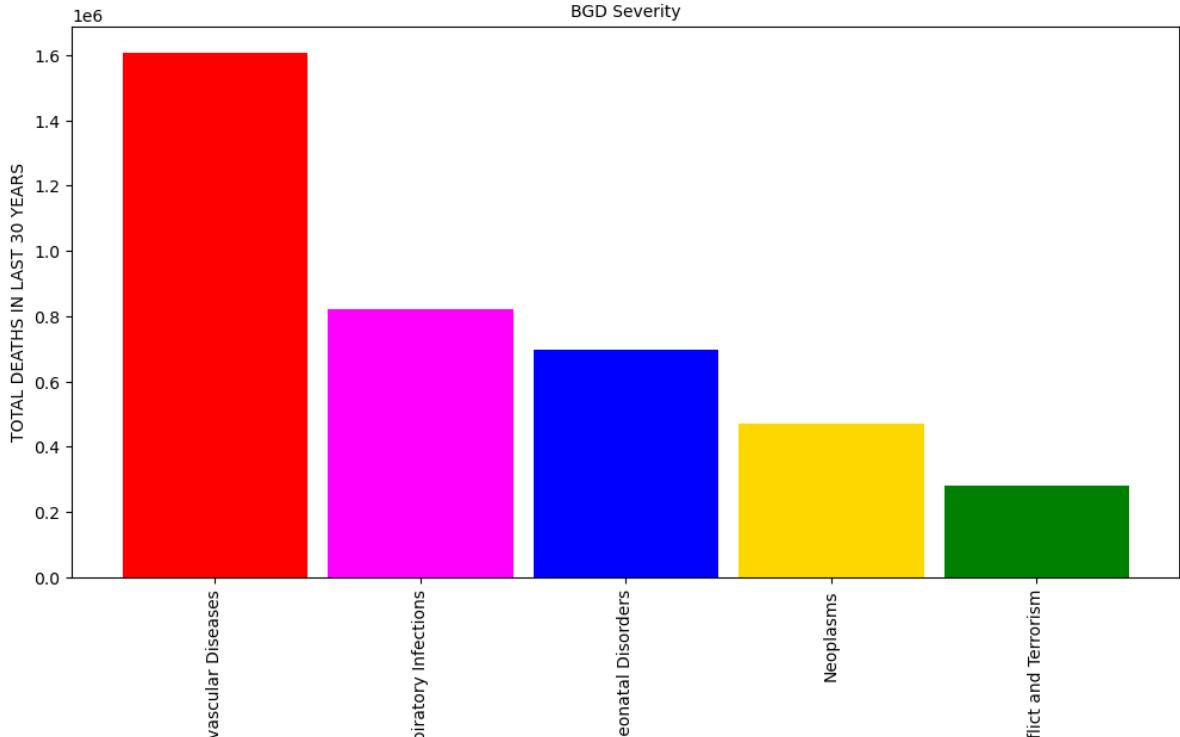
## Cause of Deaths around the World



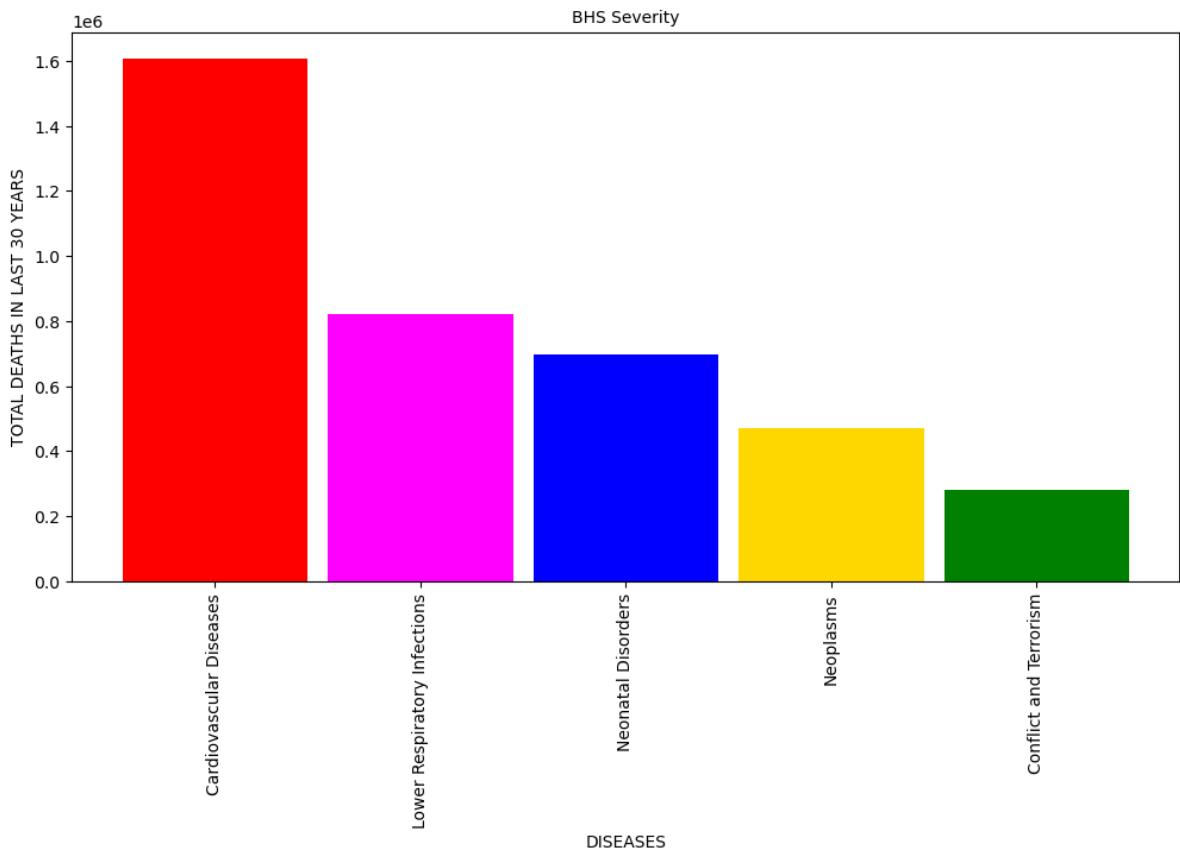
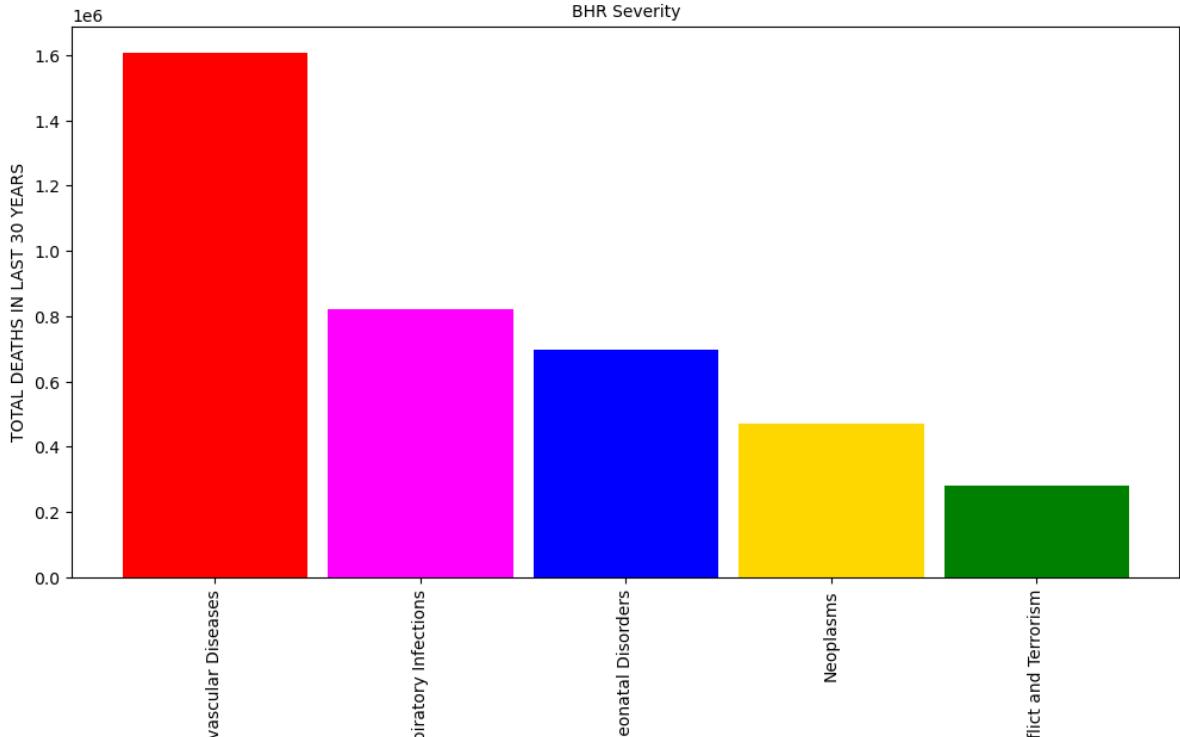
## Cause of Deaths around the World



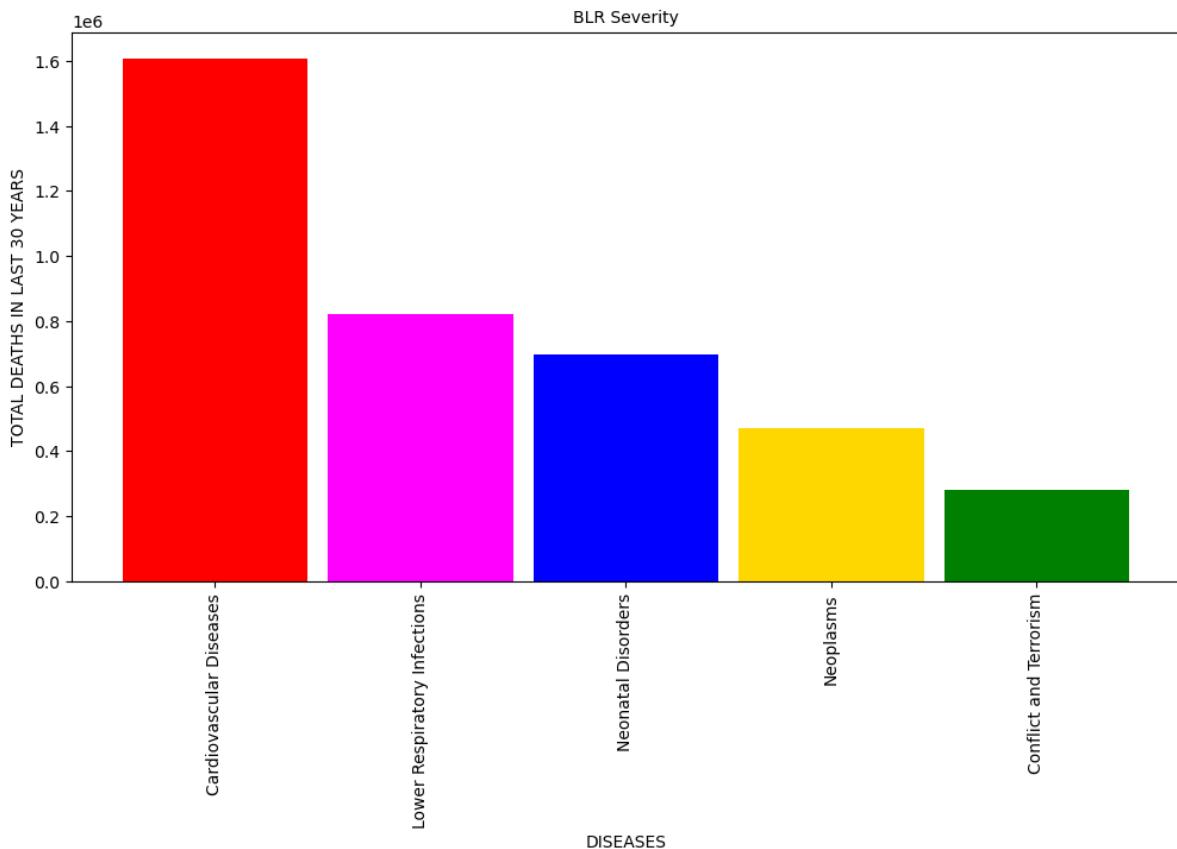
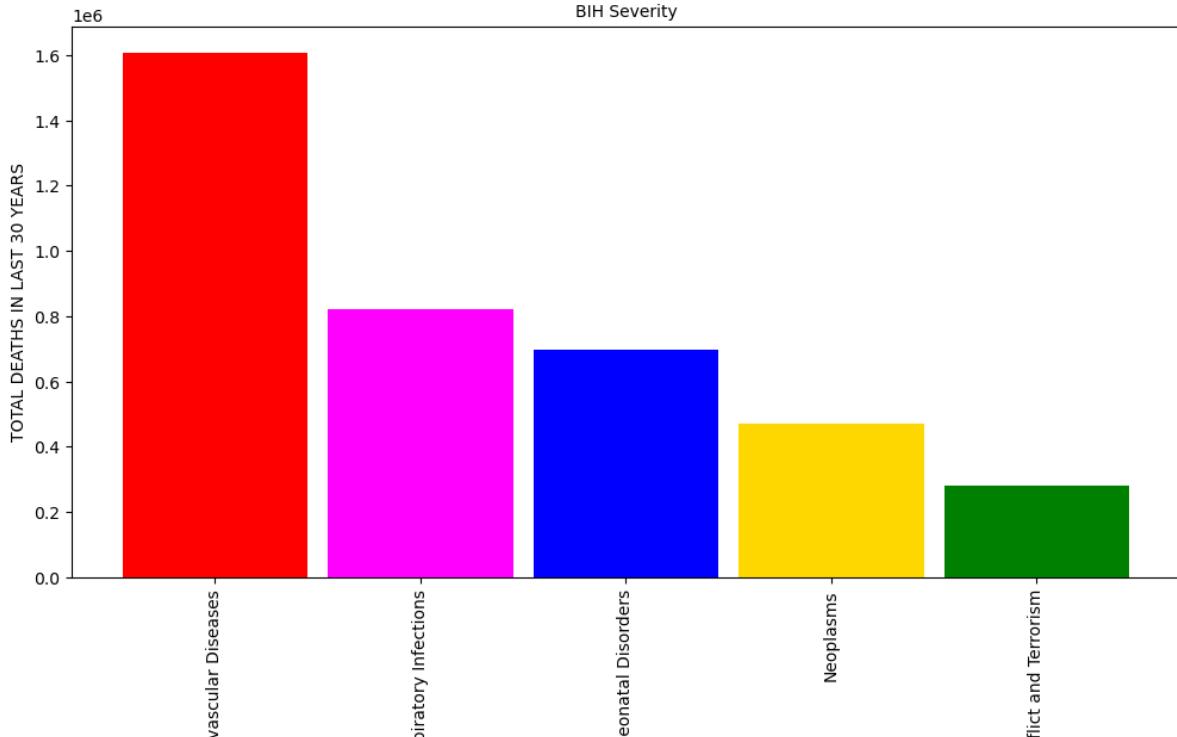
## Cause of Deaths around the World



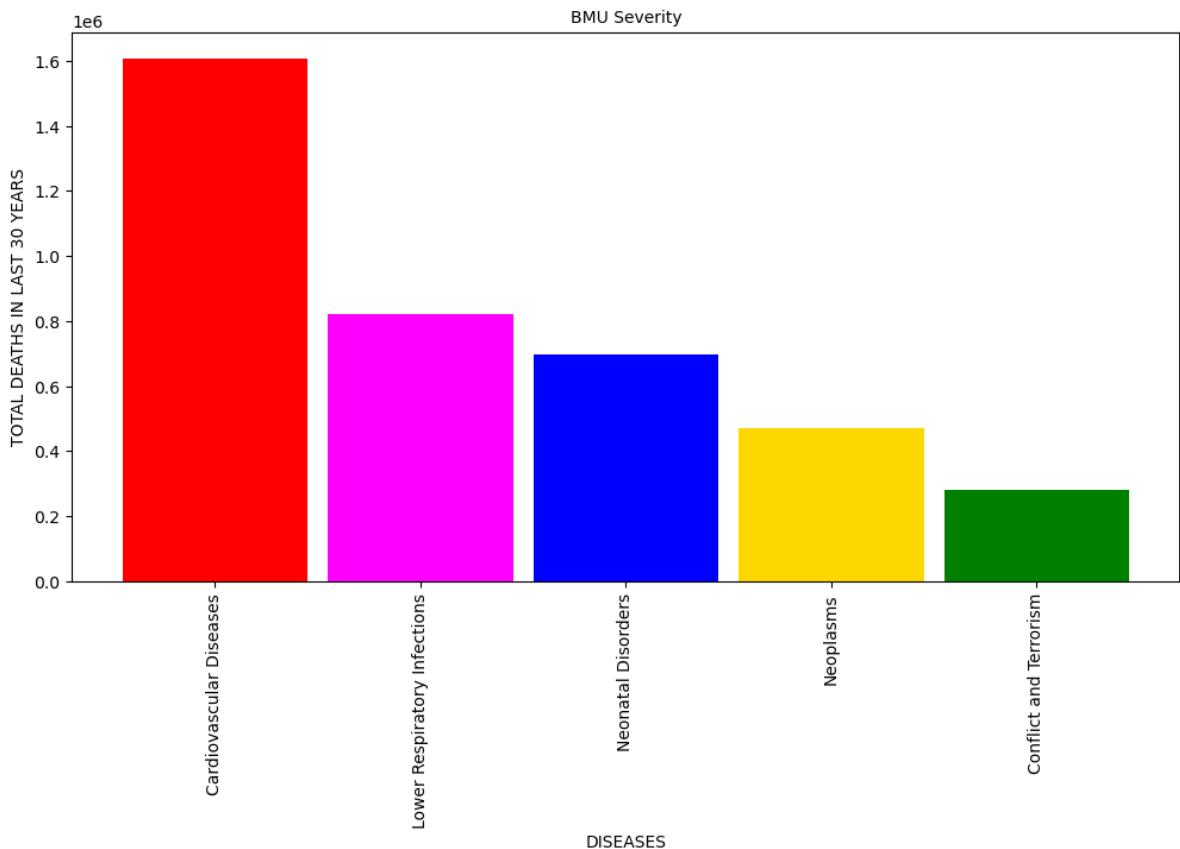
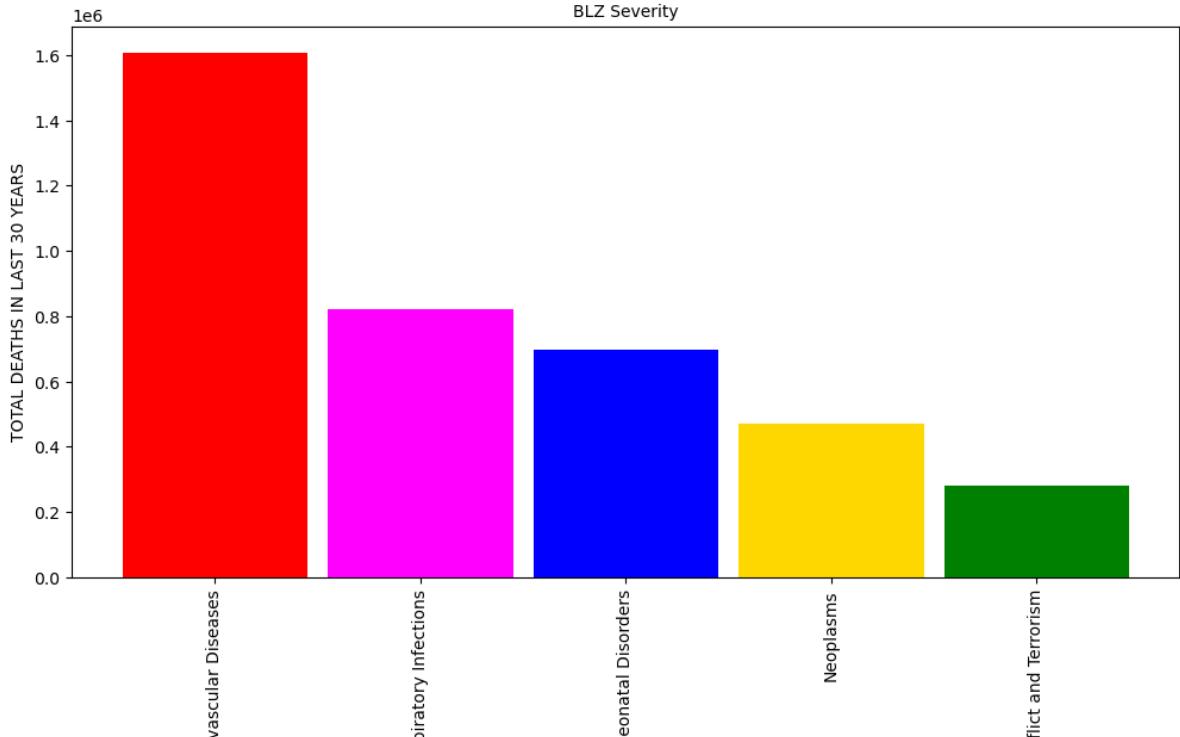
## Cause of Deaths around the World



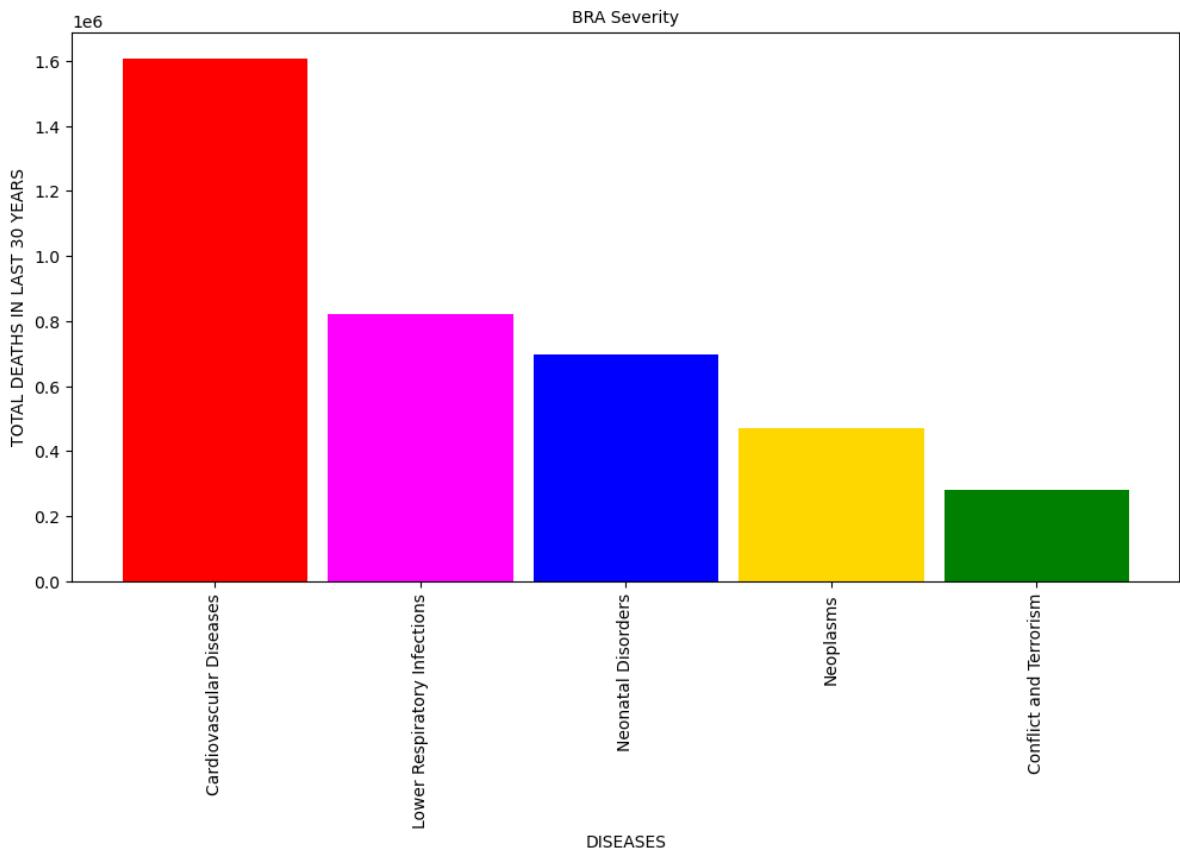
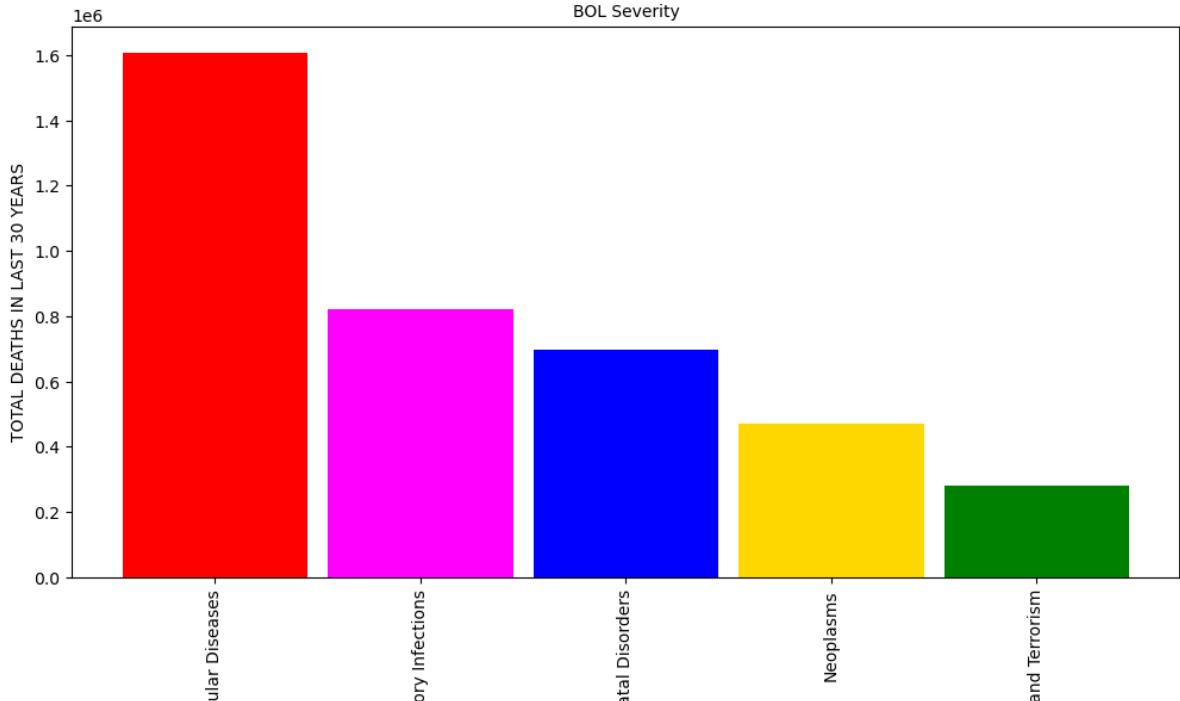
## Cause of Deaths around the World



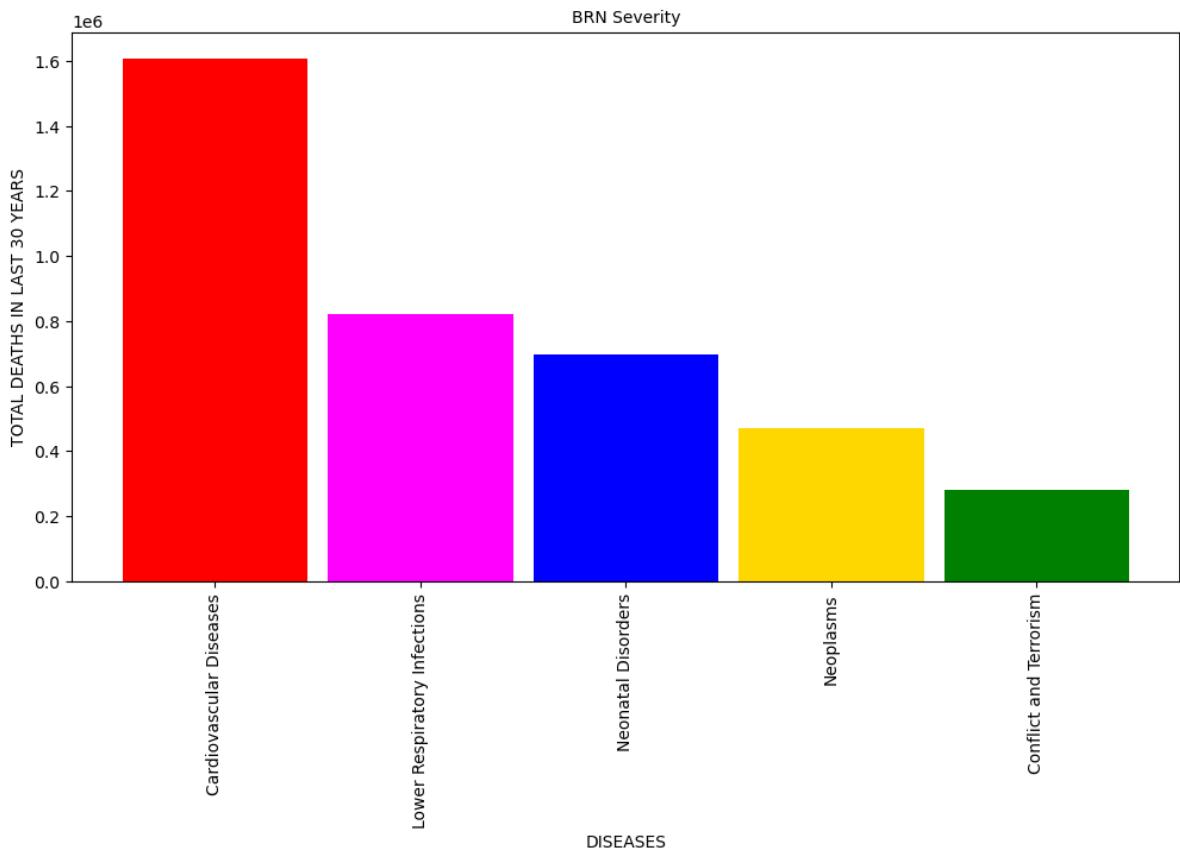
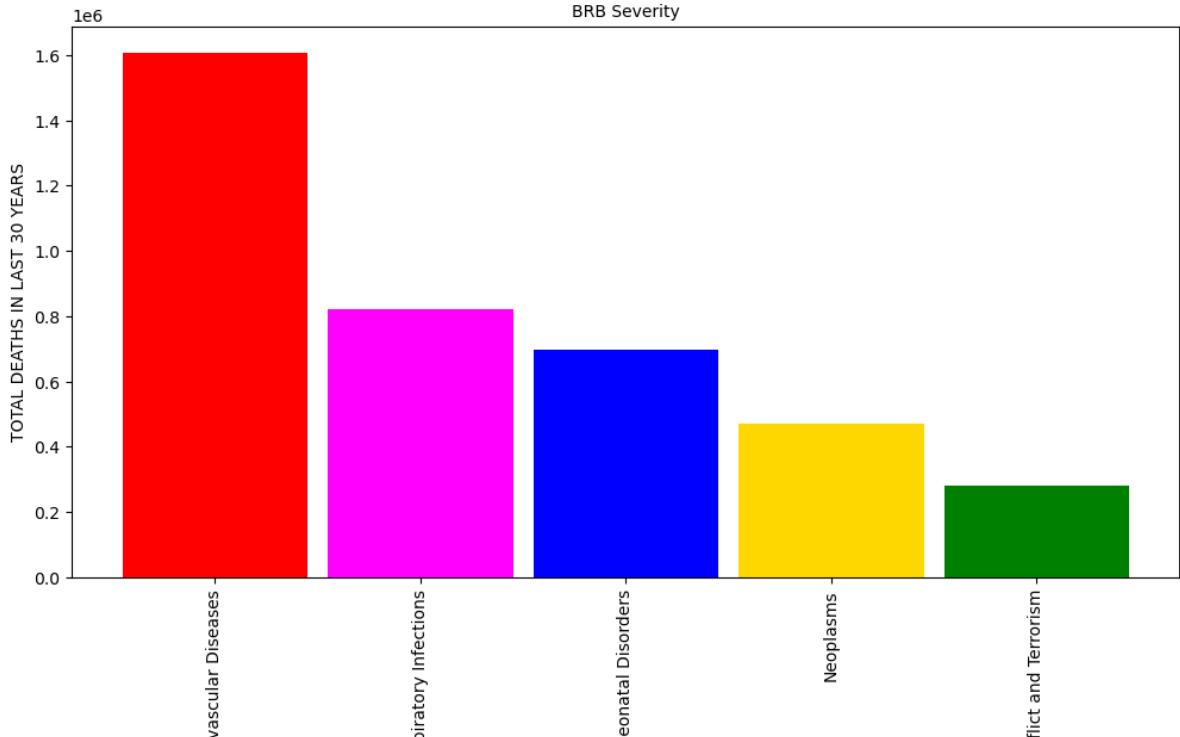
## Cause of Deaths around the World



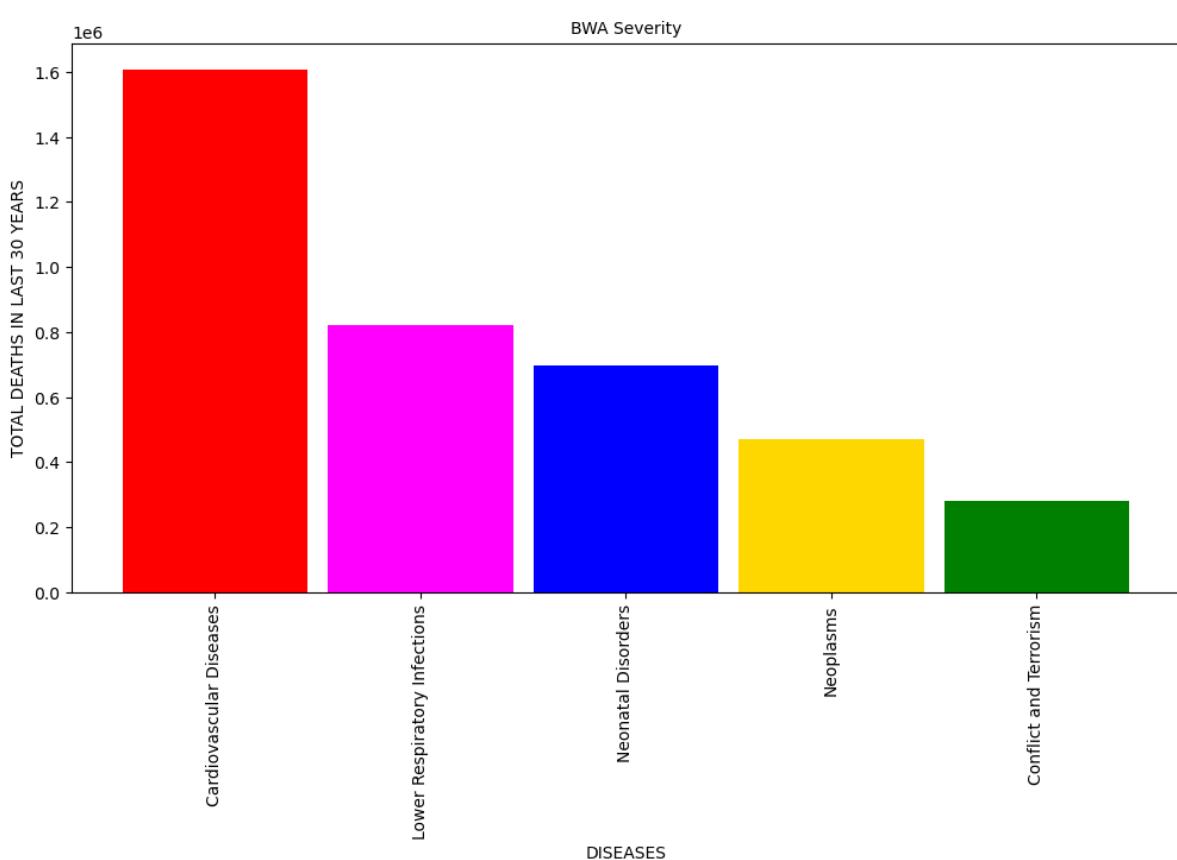
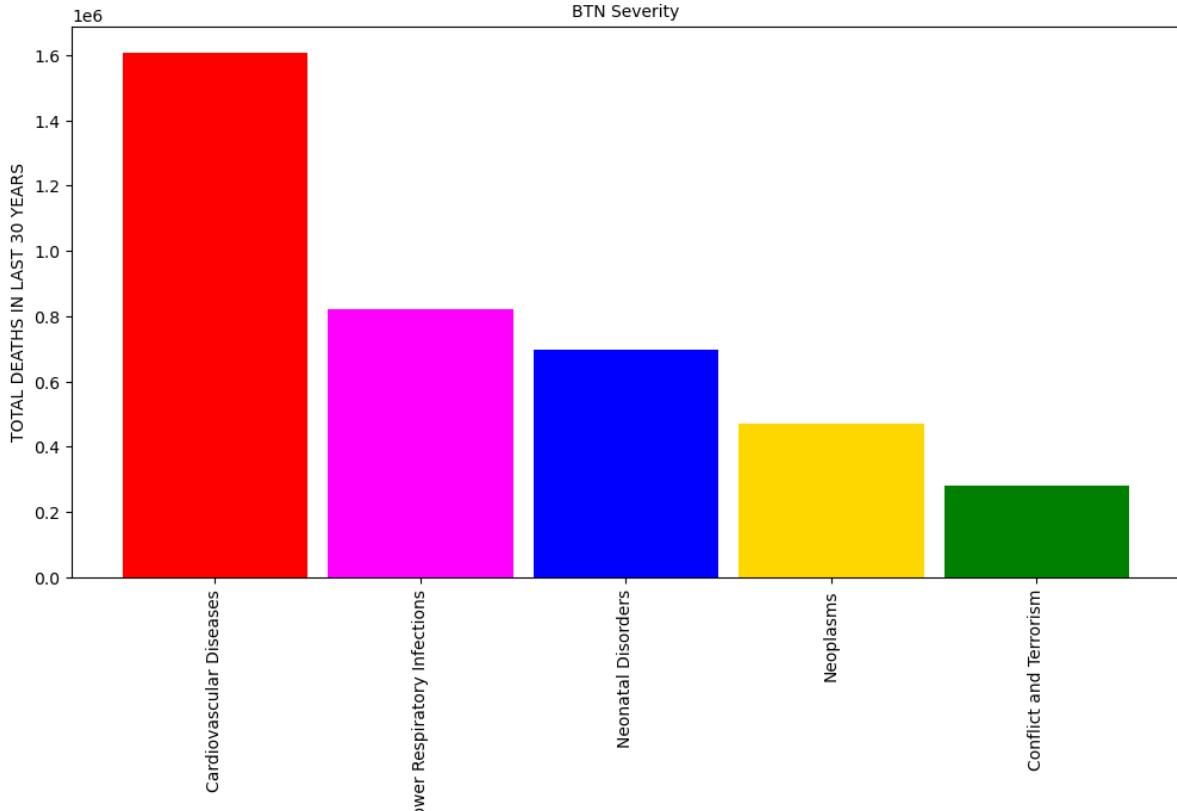
## Cause of Deaths around the World



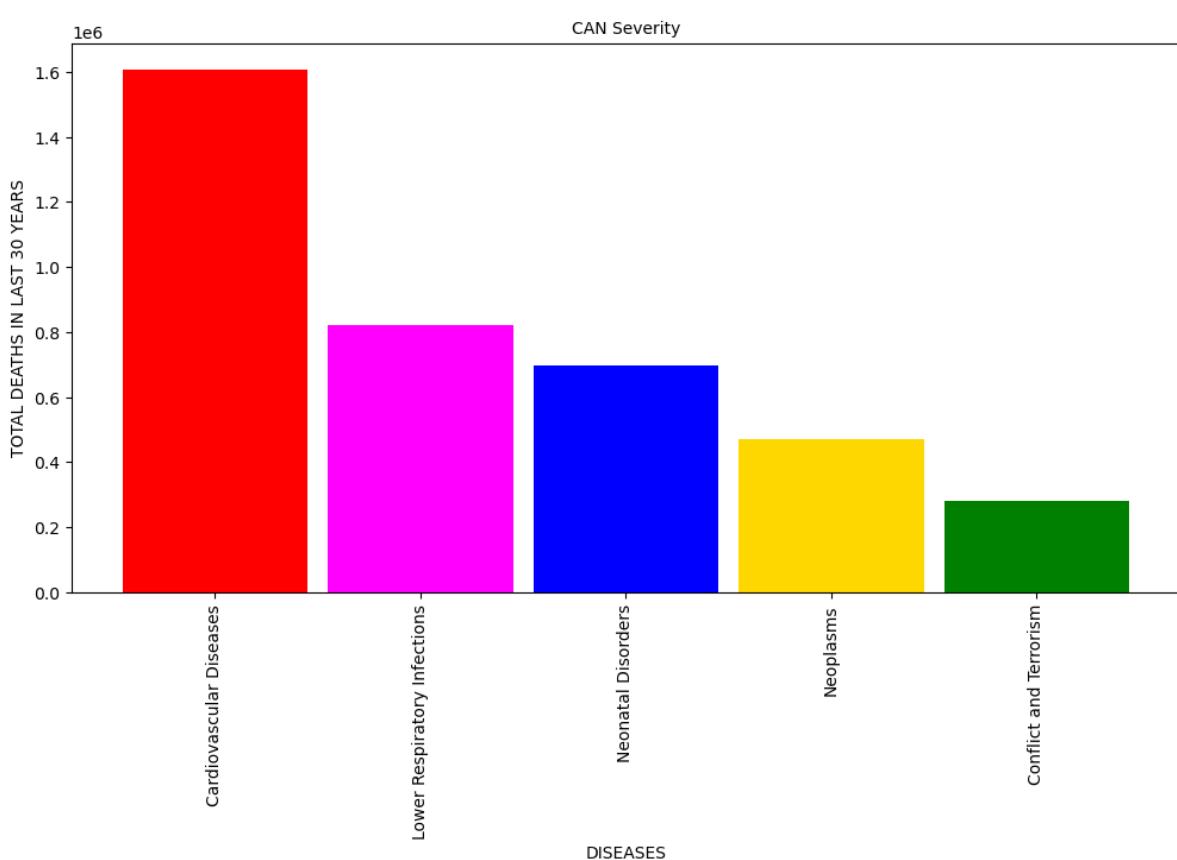
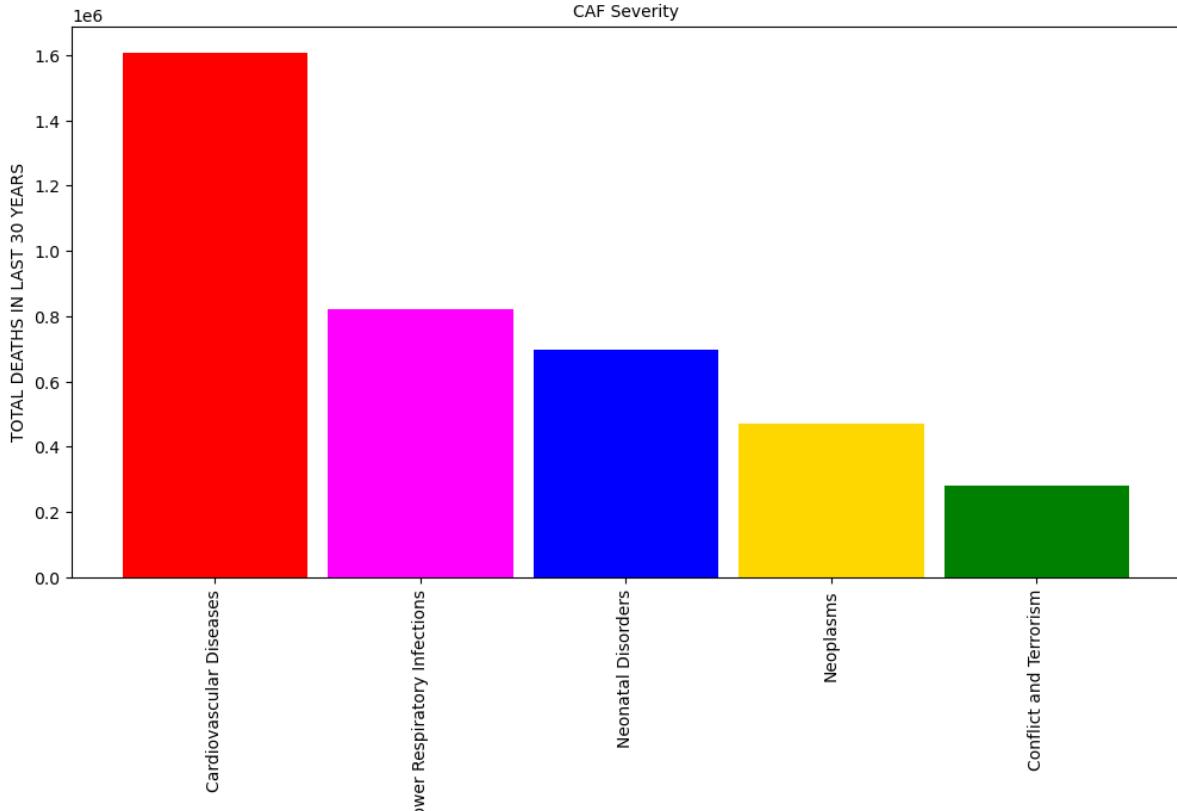
## Cause of Deaths around the World



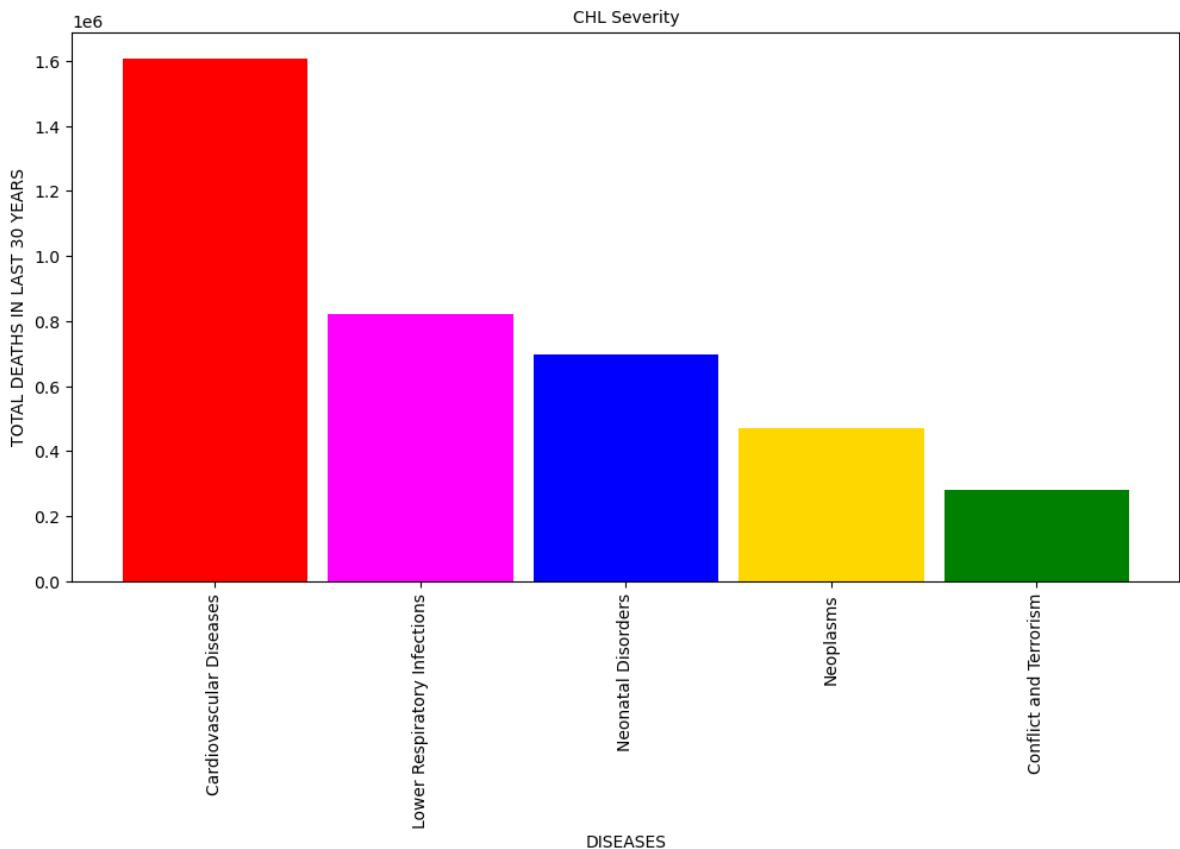
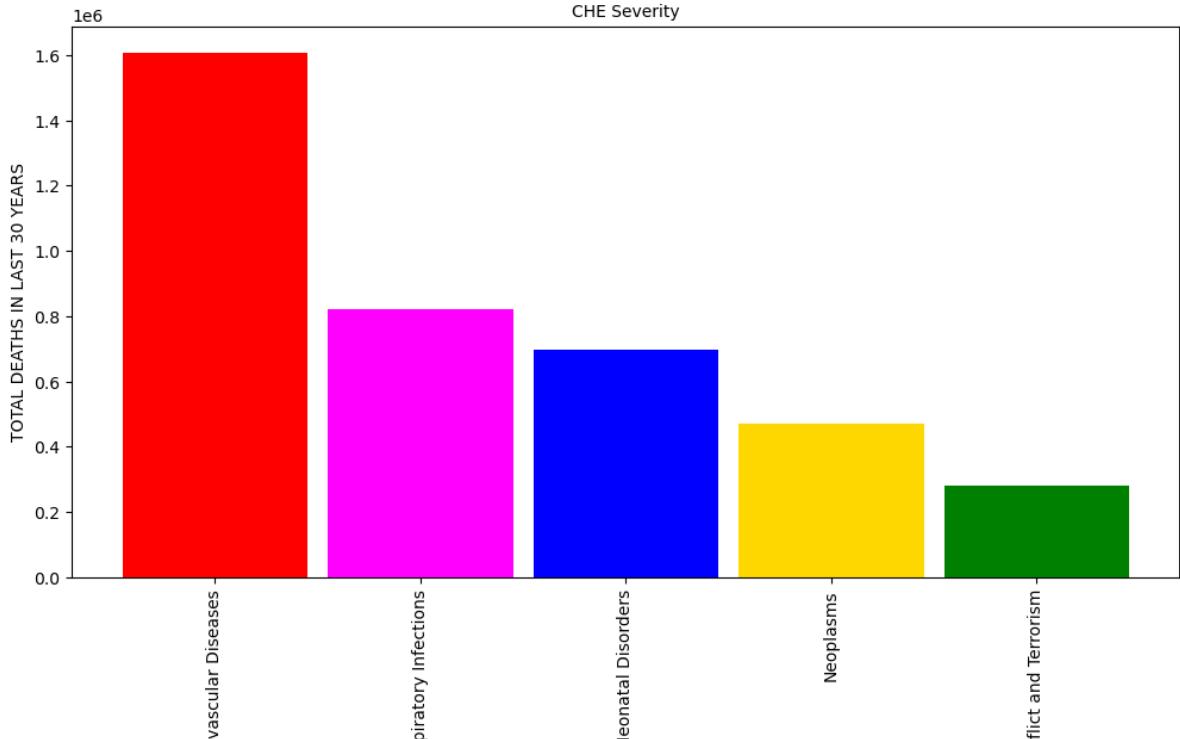
## Cause of Deaths around the World



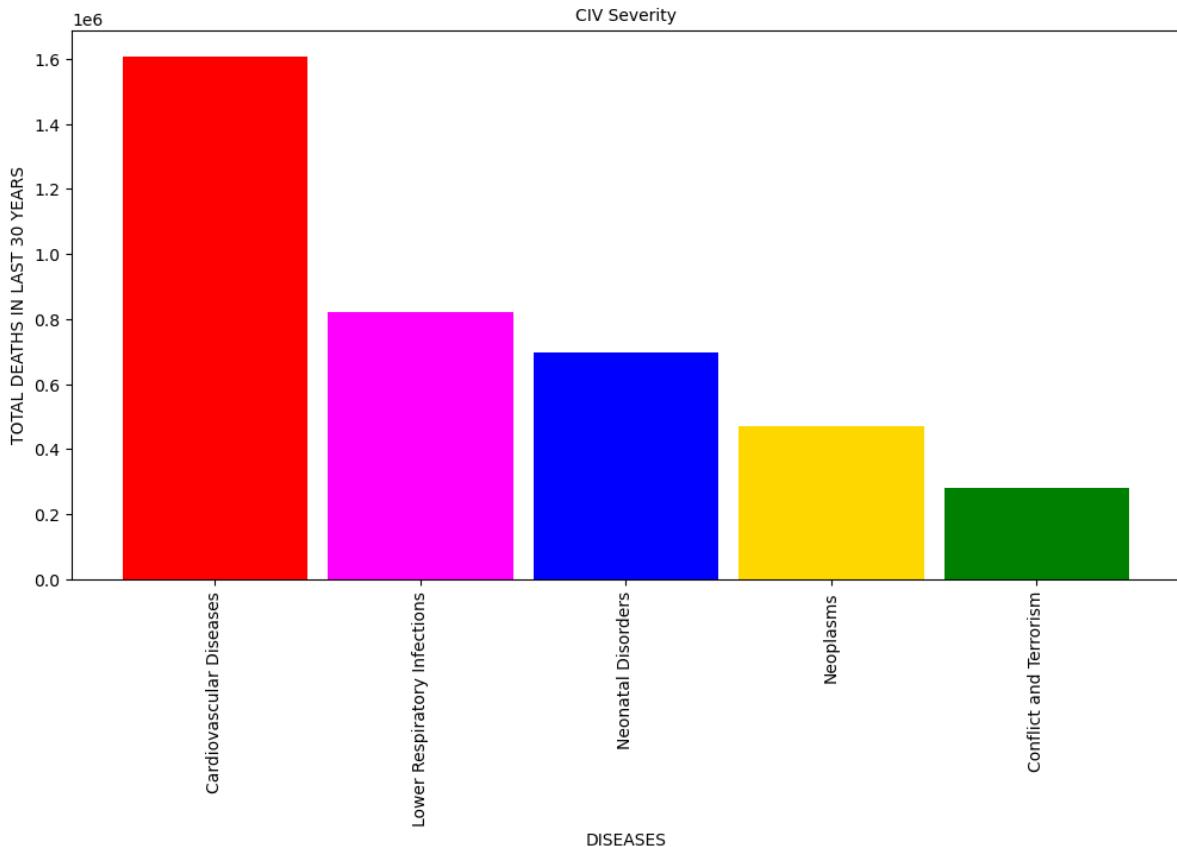
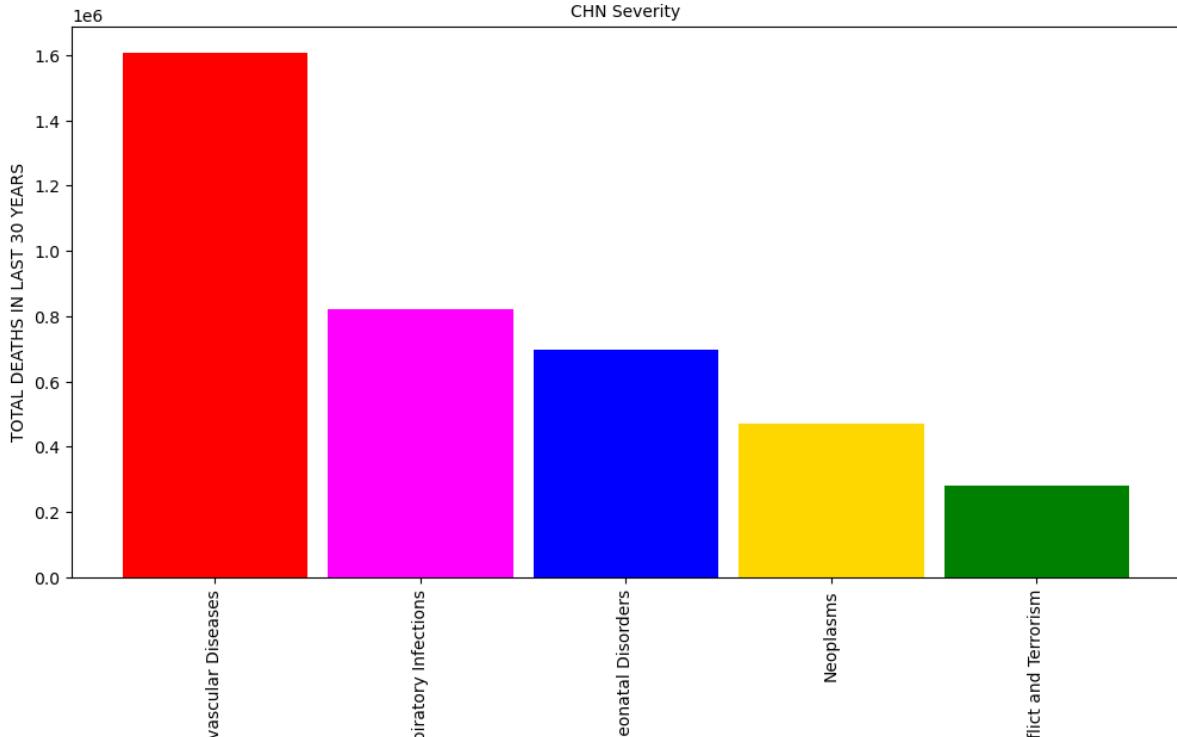
## Cause of Deaths around the World



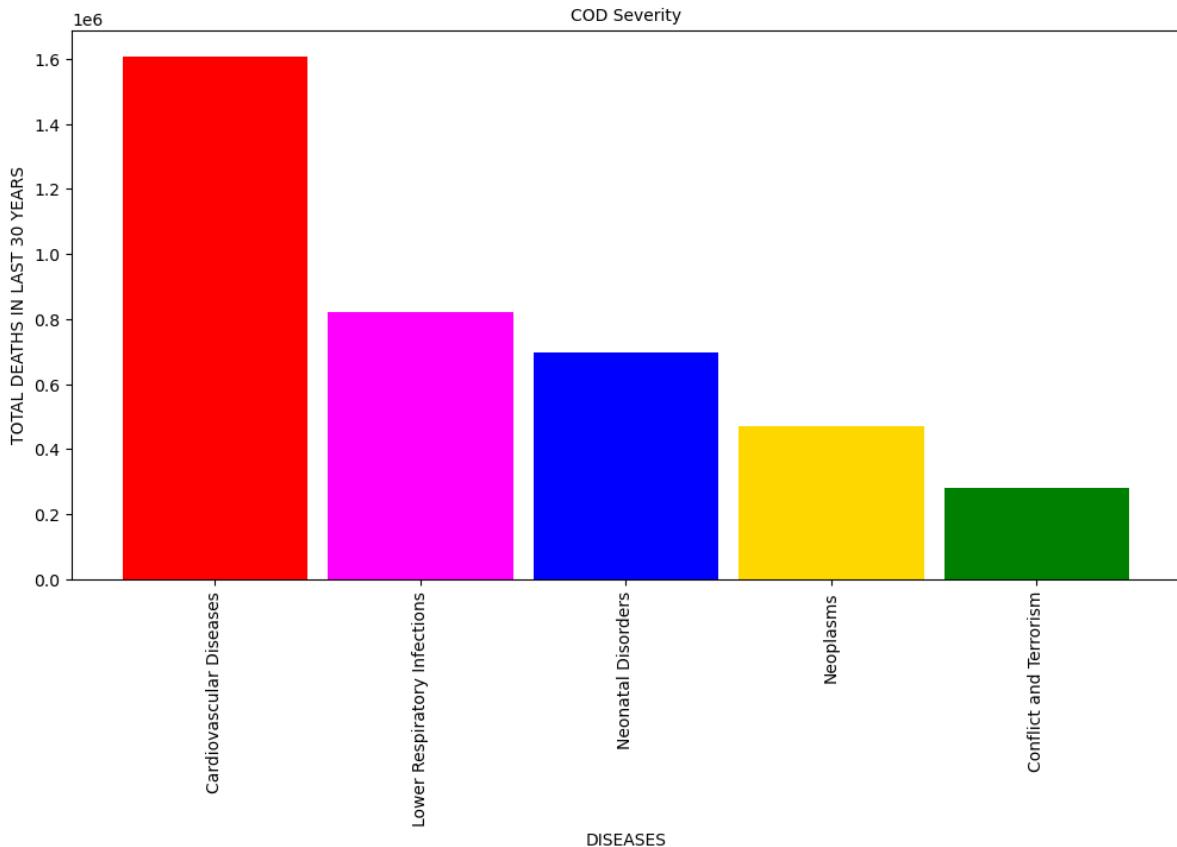
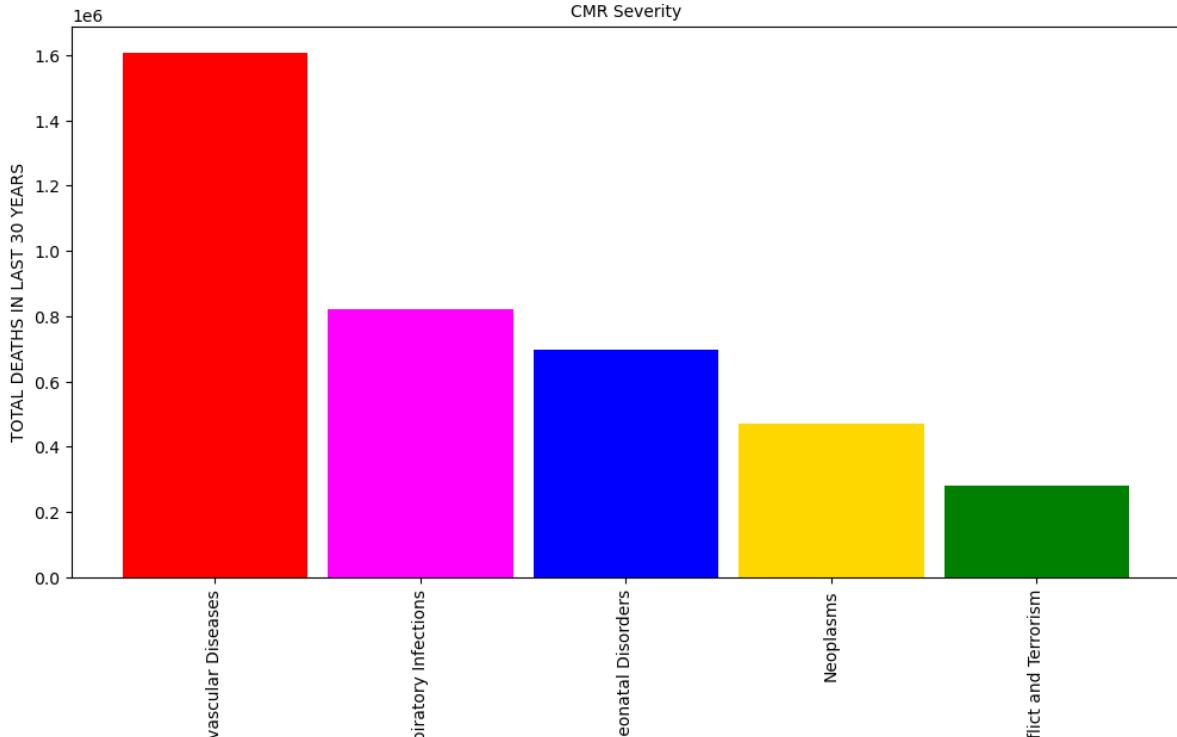
## Cause of Deaths around the World



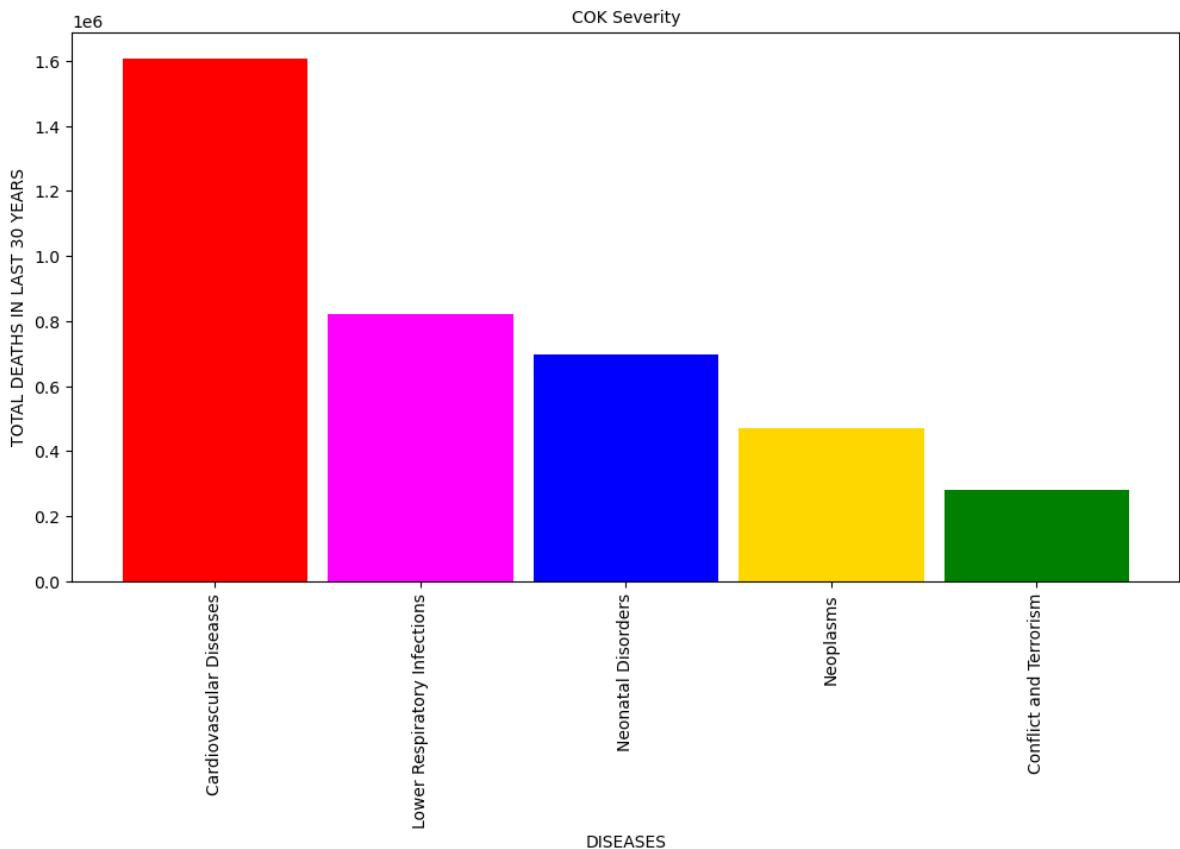
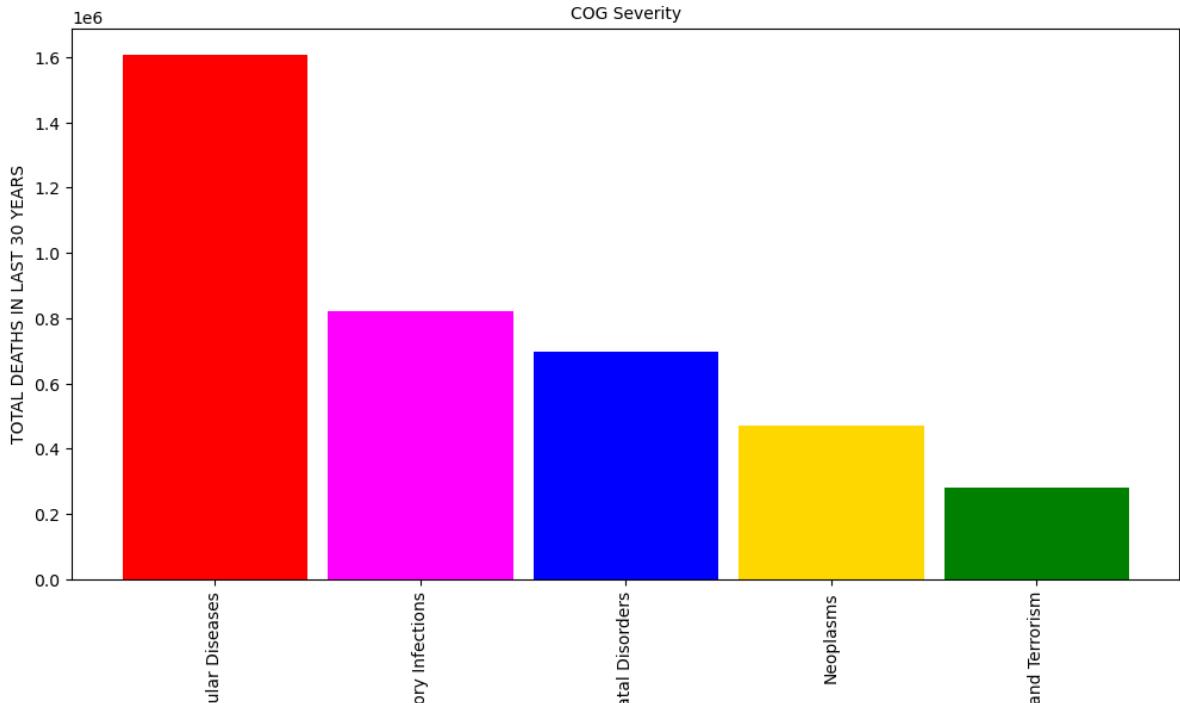
## Cause of Deaths around the World



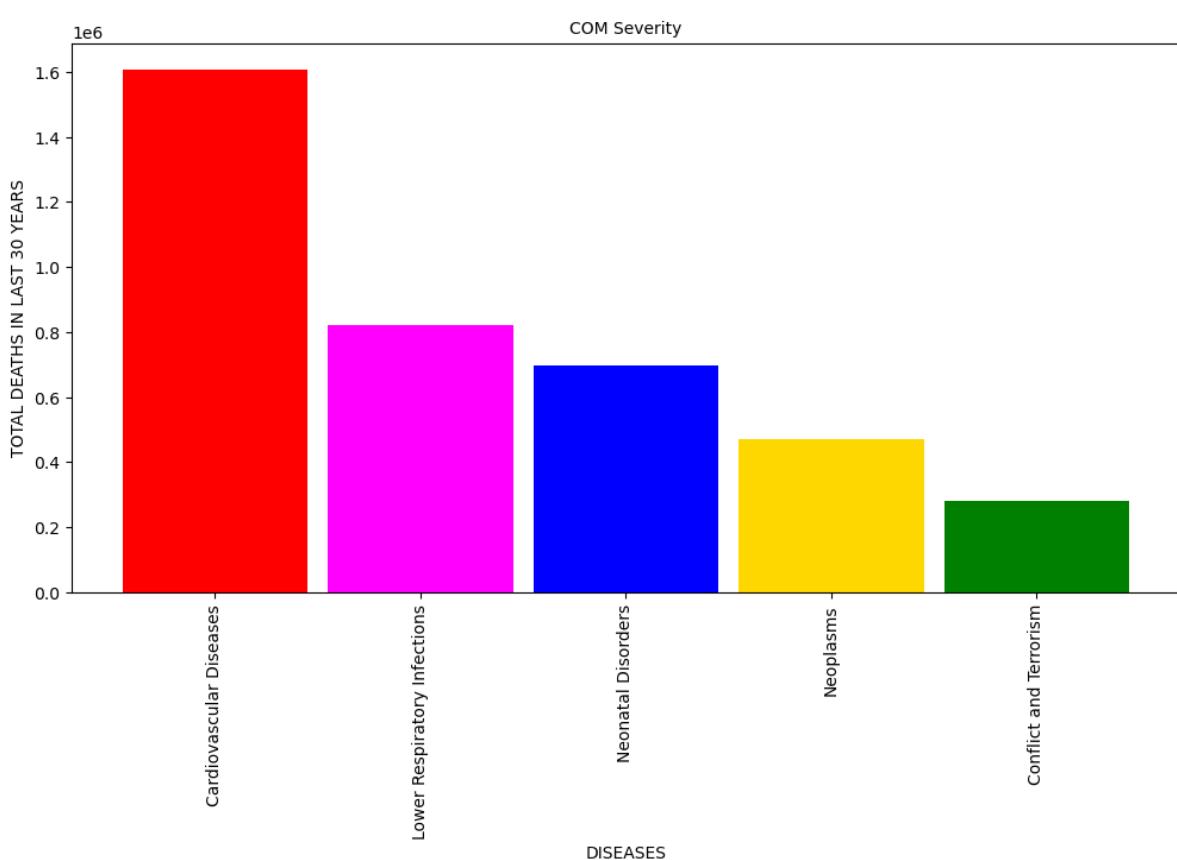
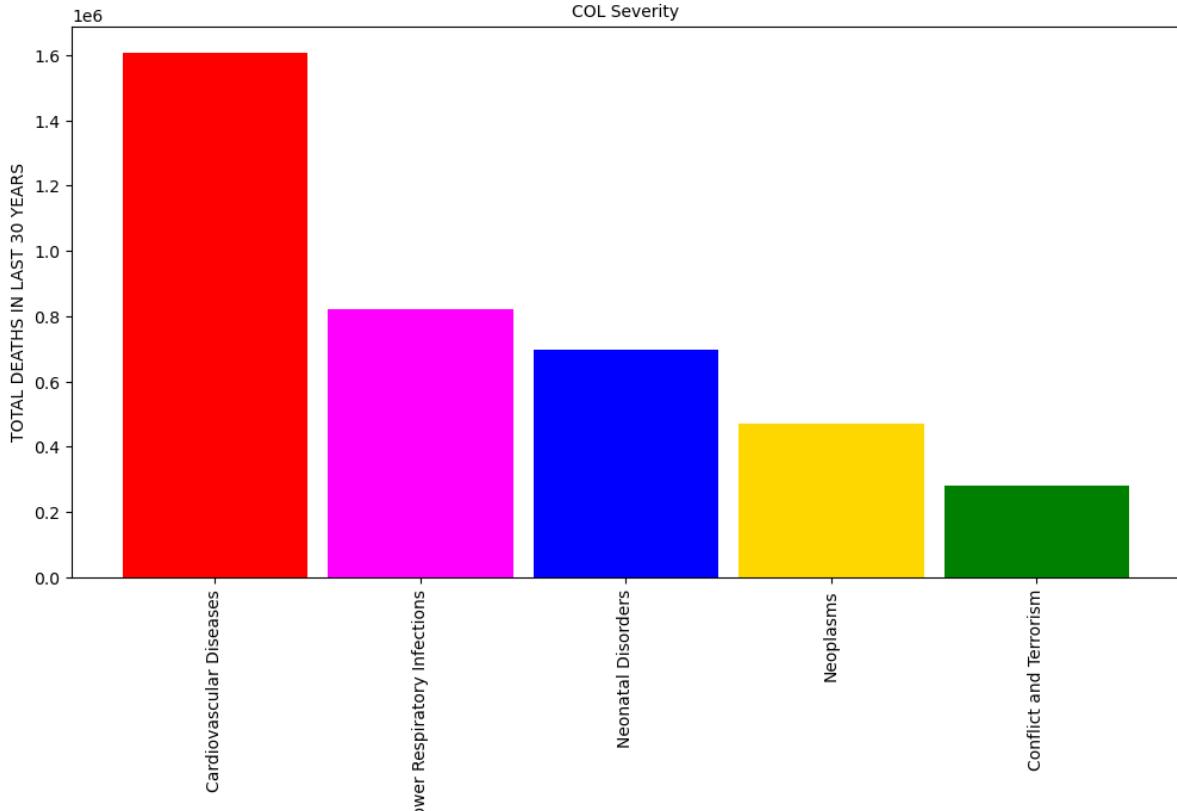
## Cause of Deaths around the World



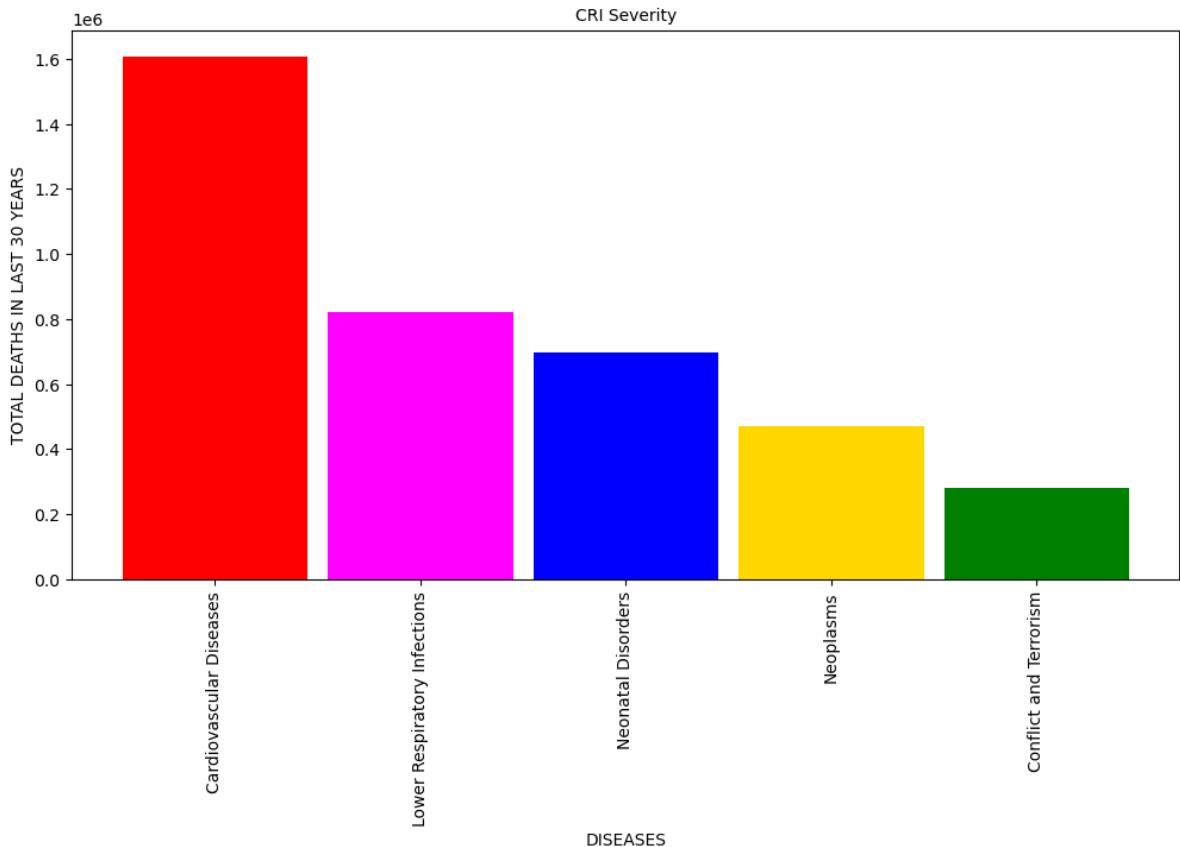
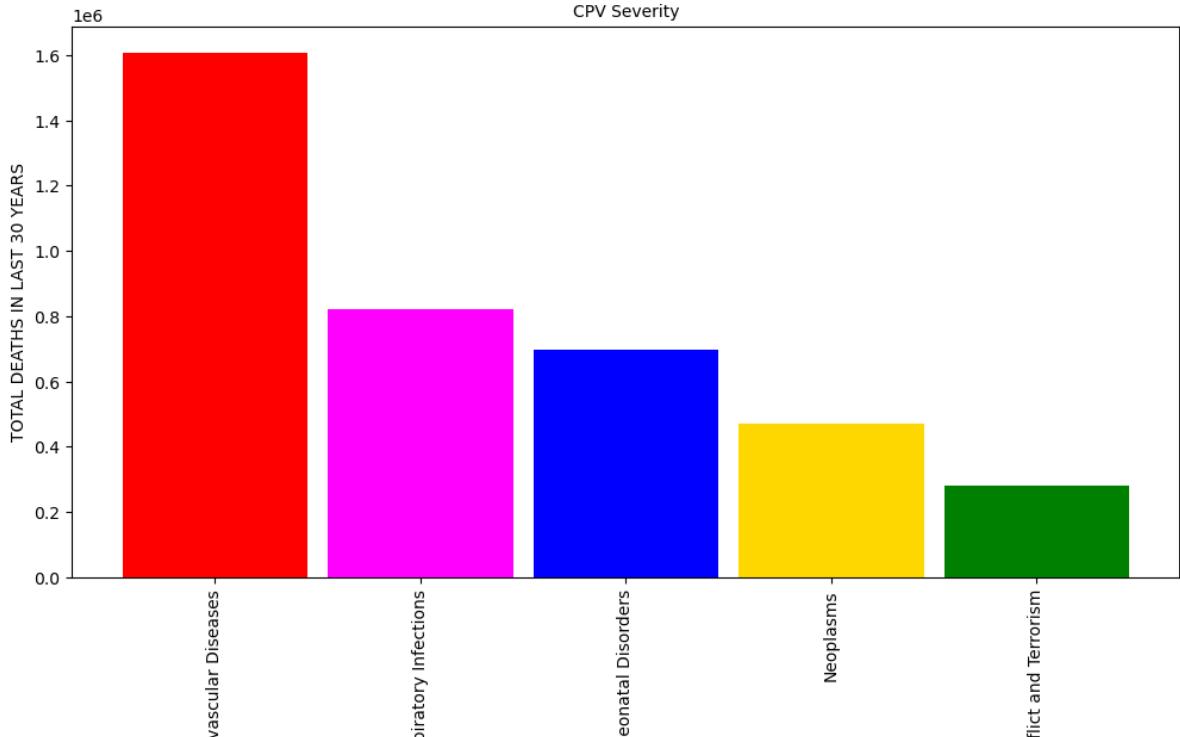
## Cause of Deaths around the World



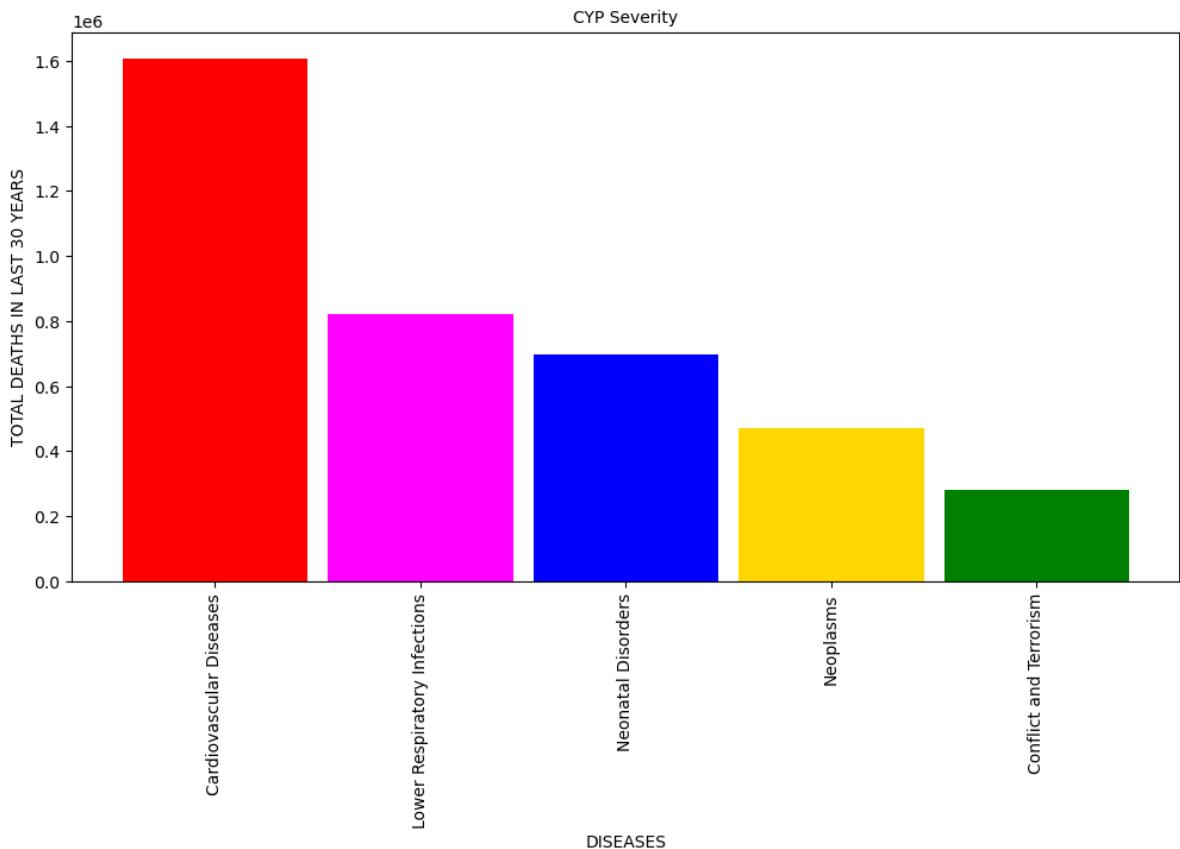
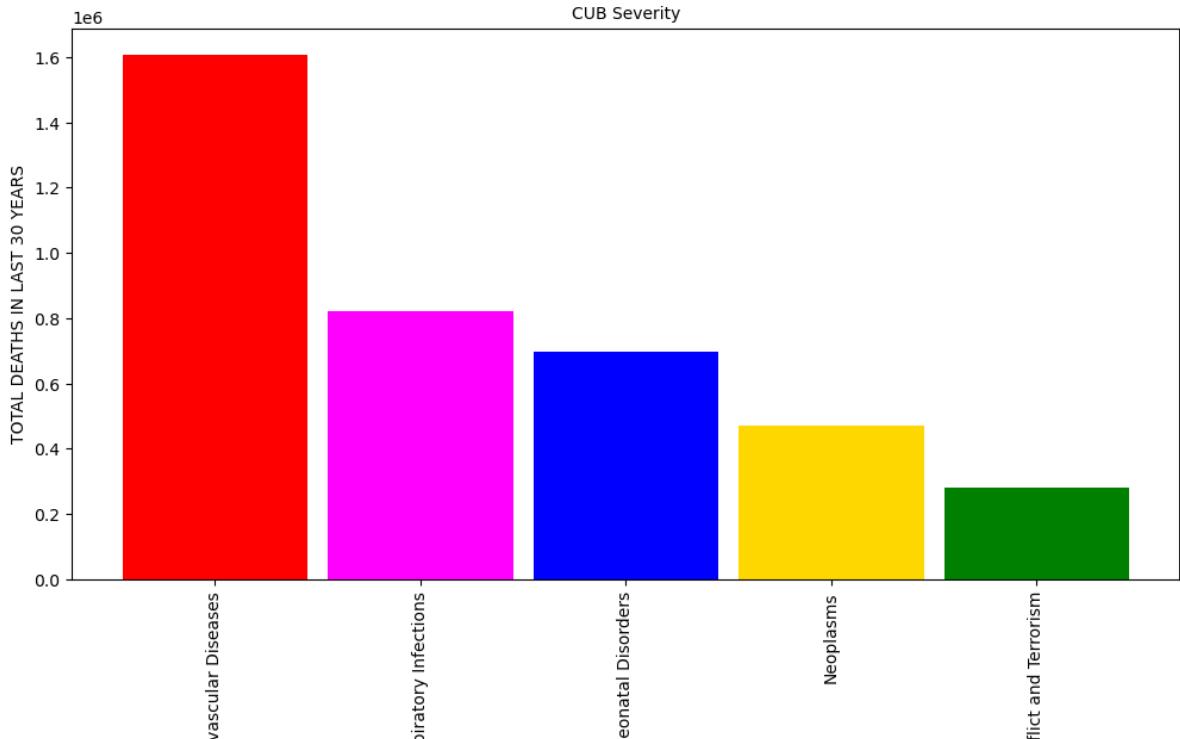
## Cause of Deaths around the World



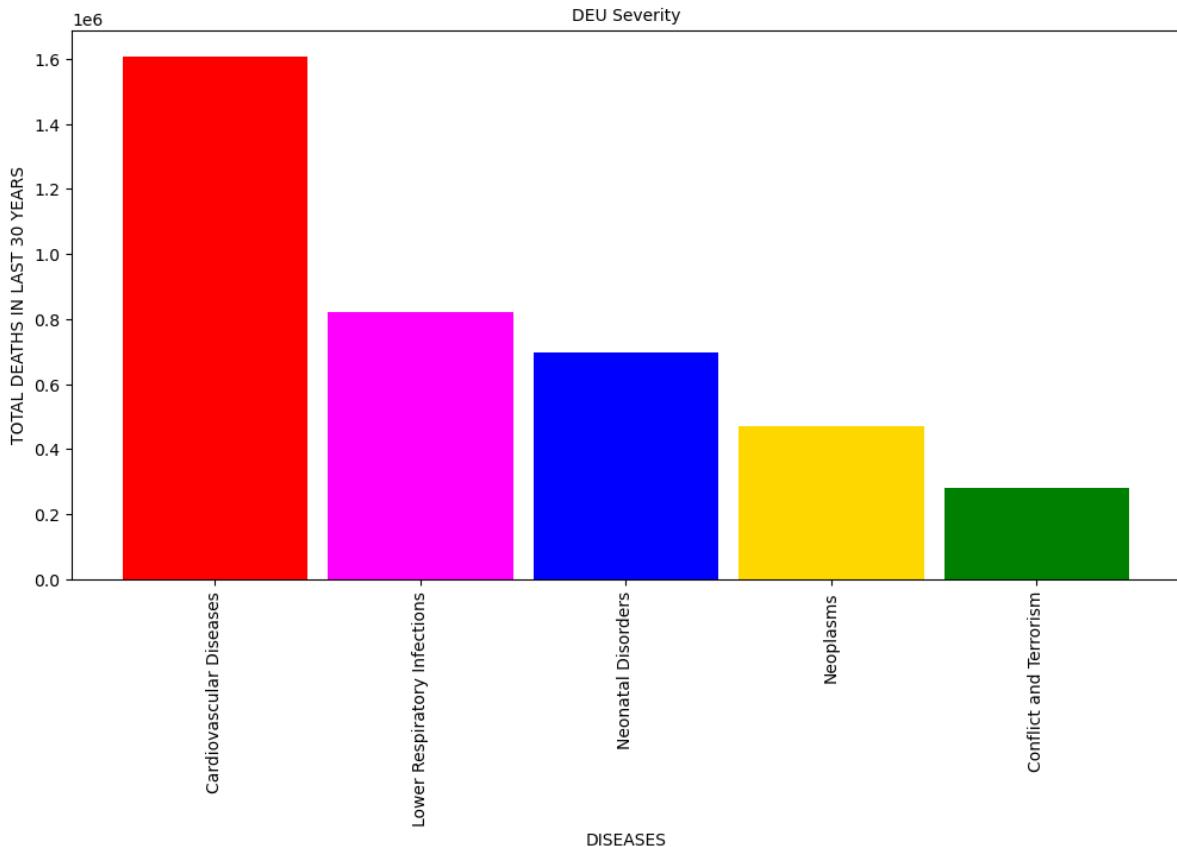
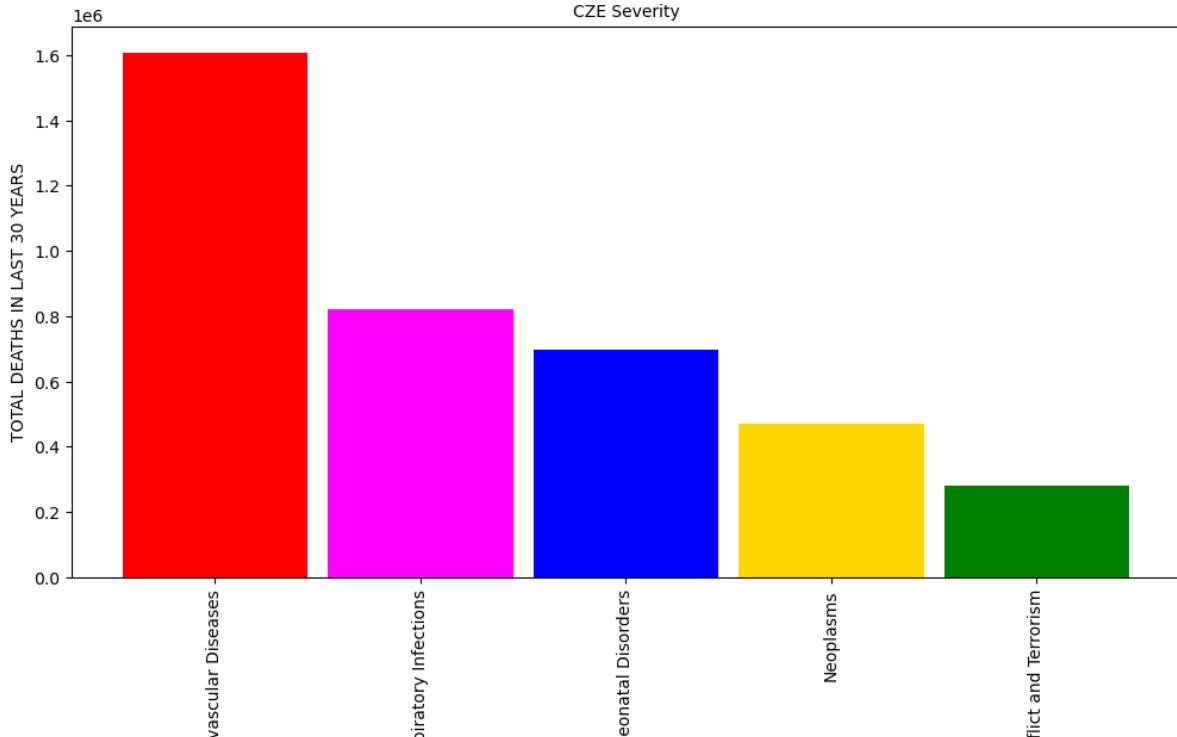
## Cause of Deaths around the World



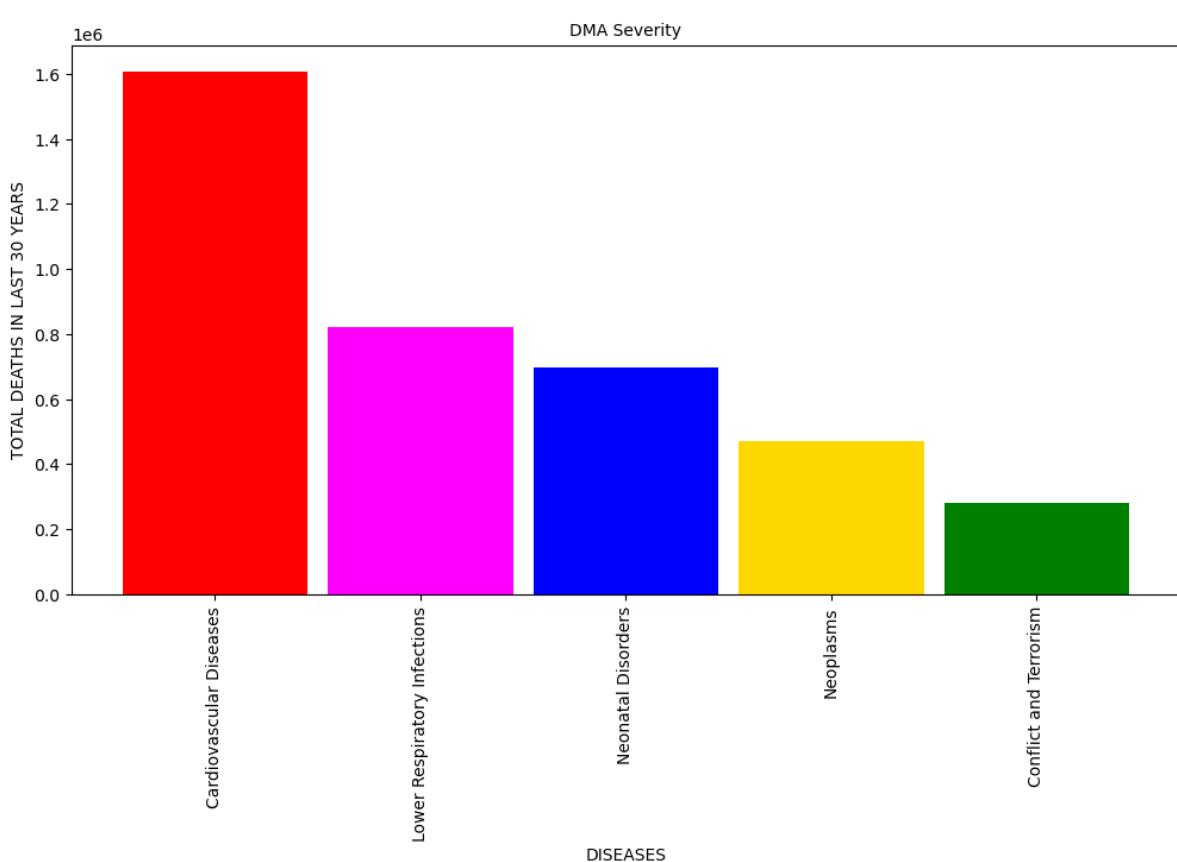
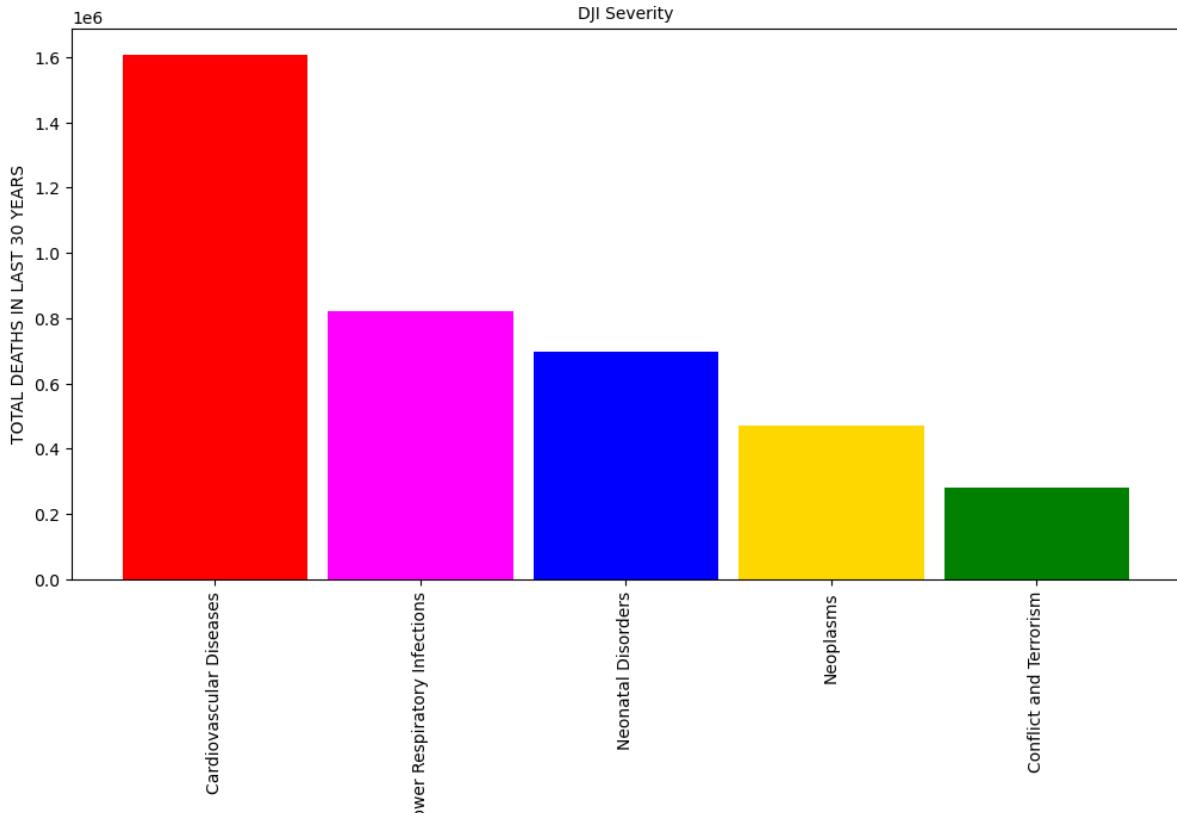
## Cause of Deaths around the World



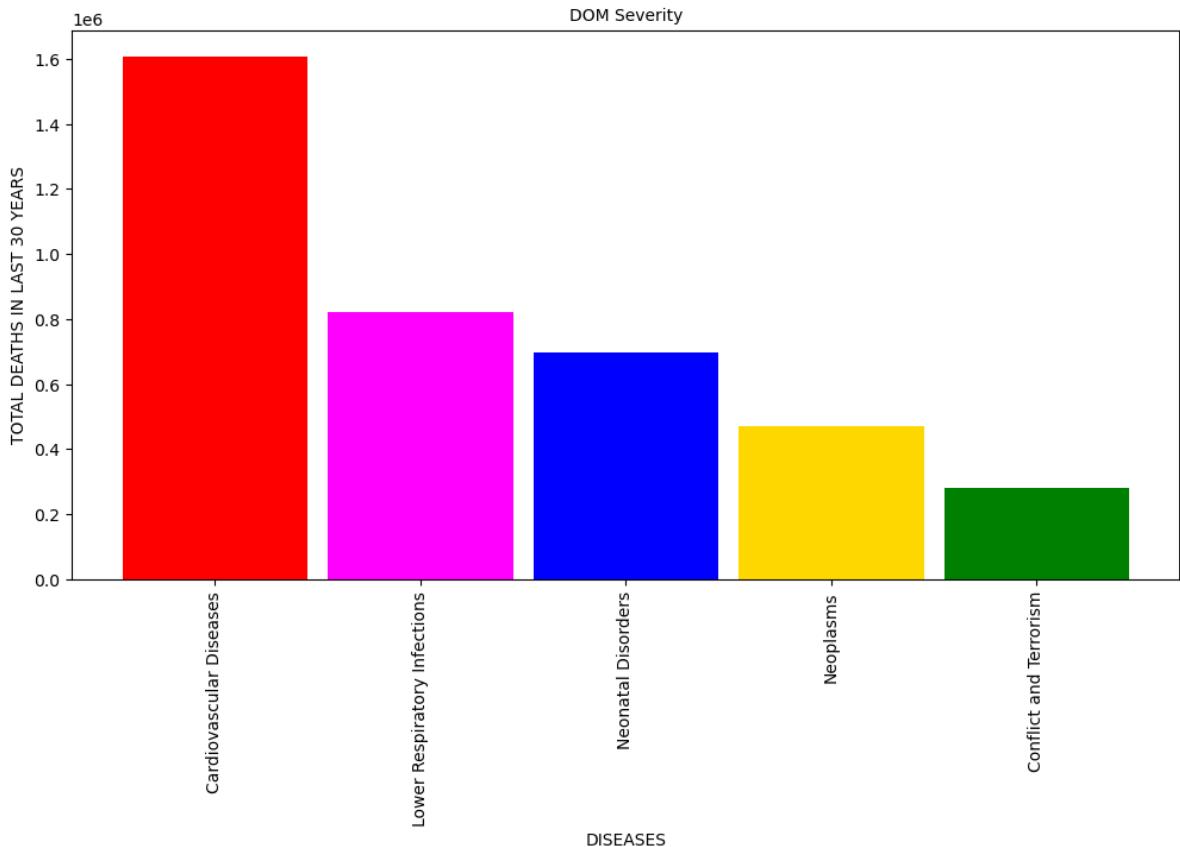
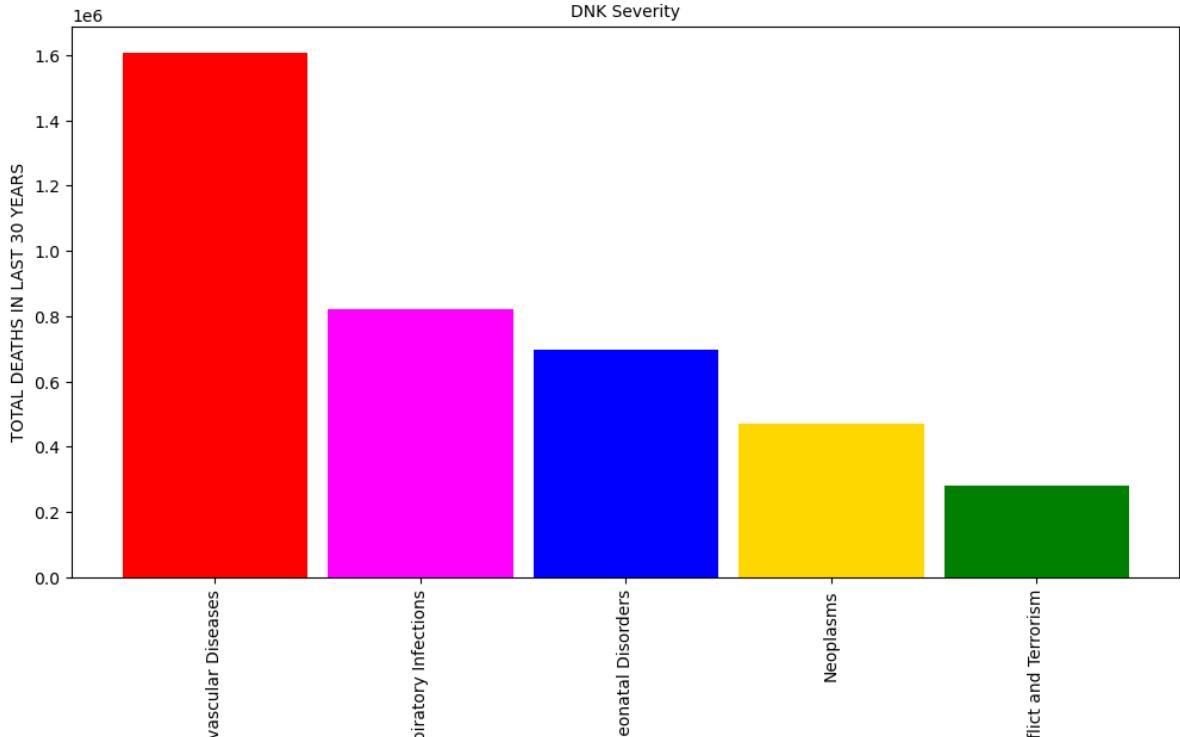
## Cause of Deaths around the World



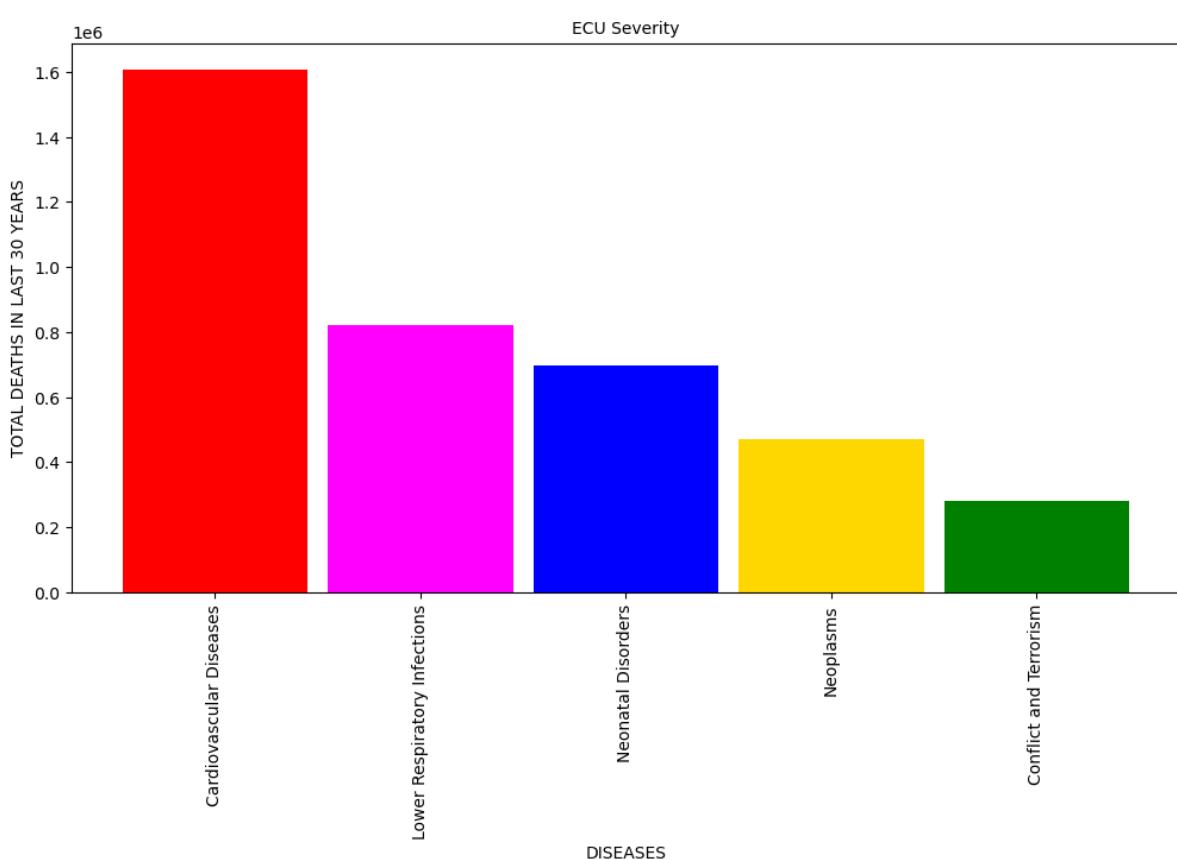
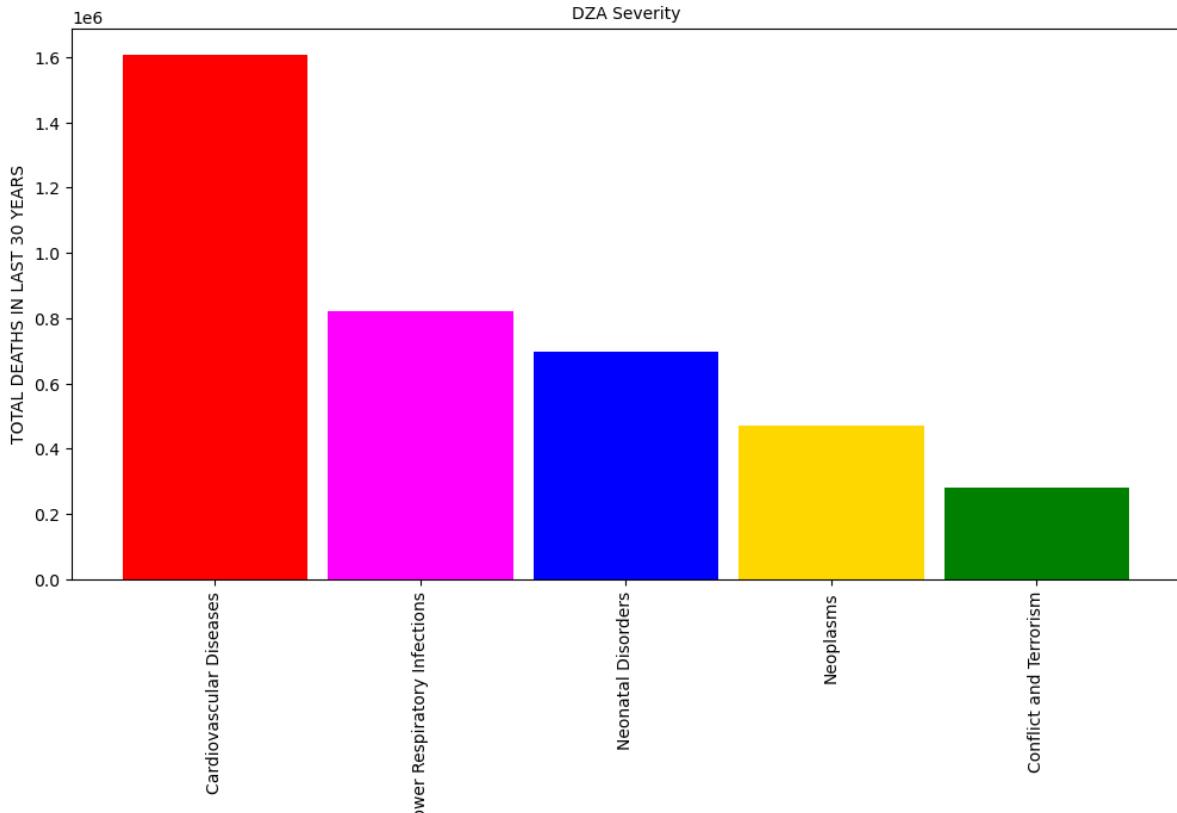
## Cause of Deaths around the World



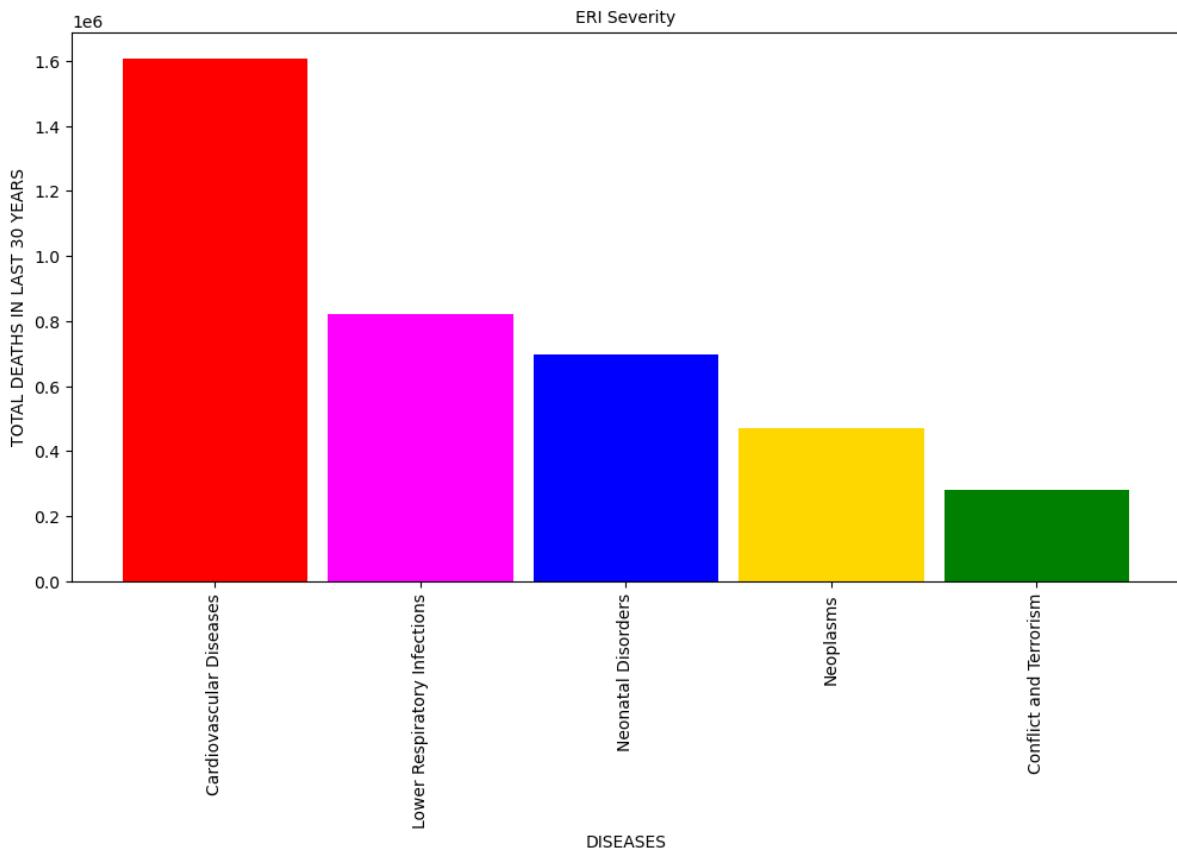
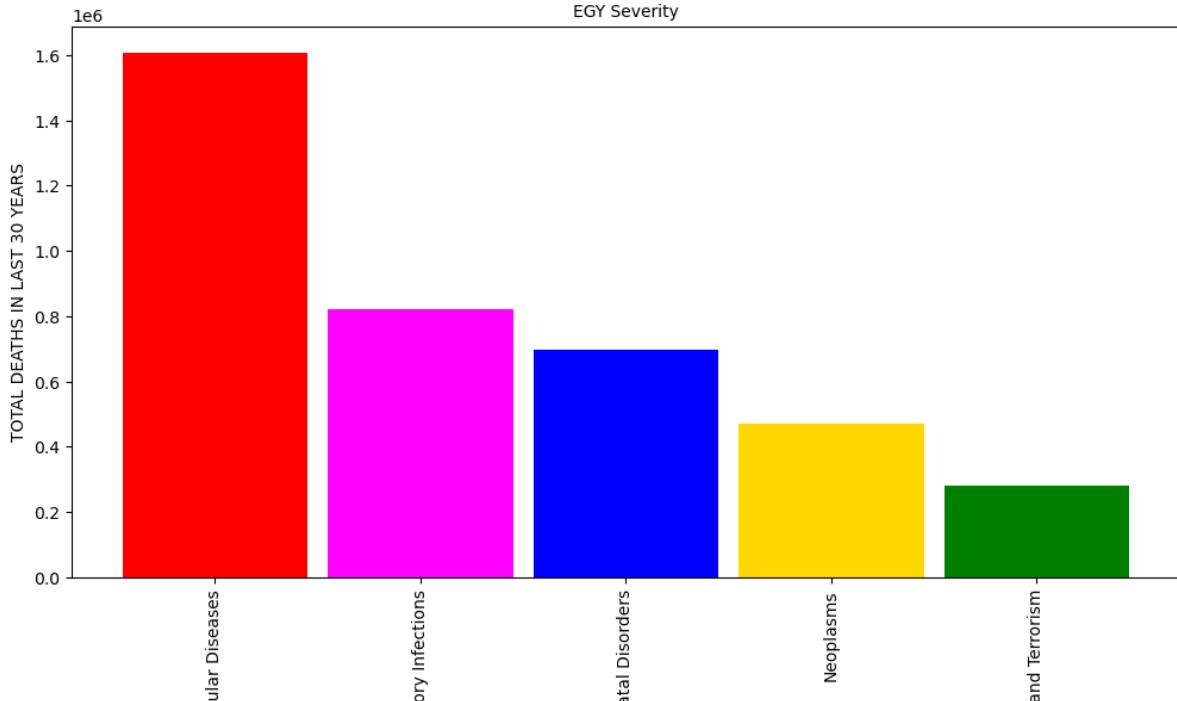
## Cause of Deaths around the World



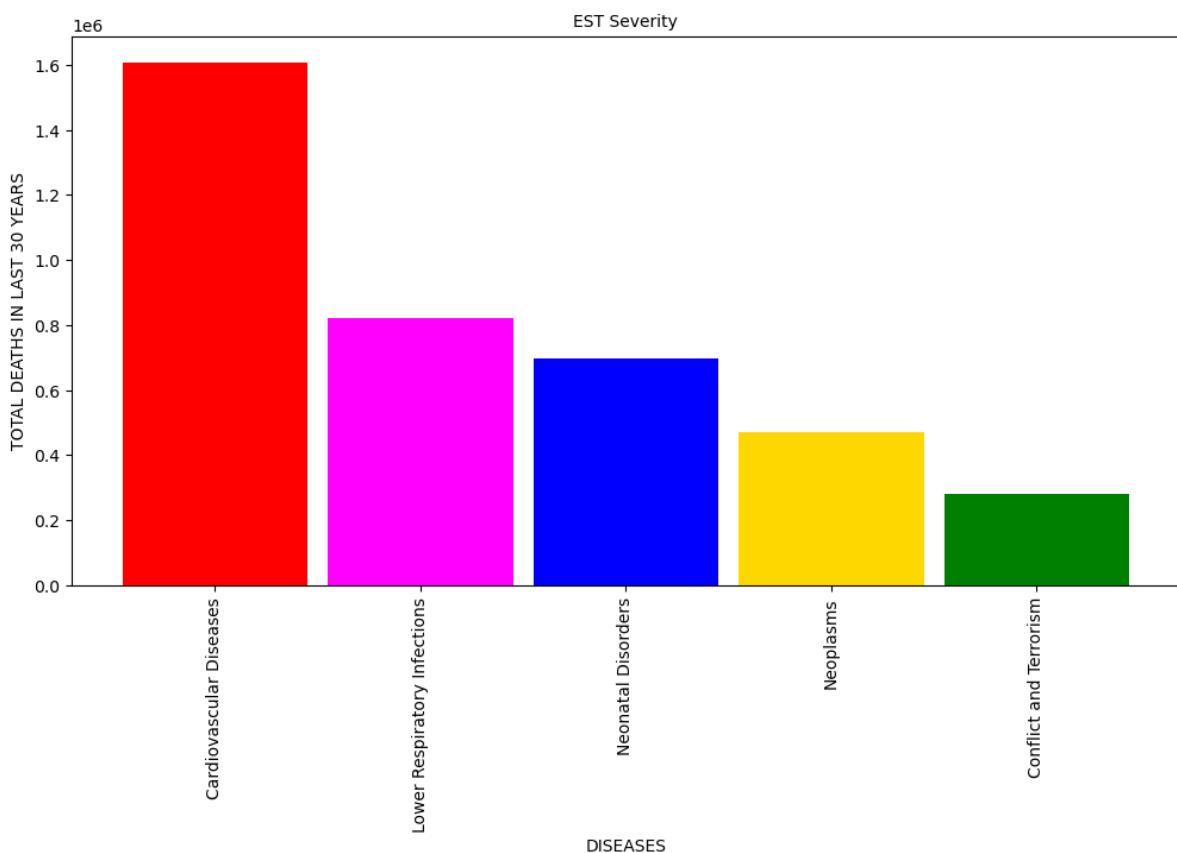
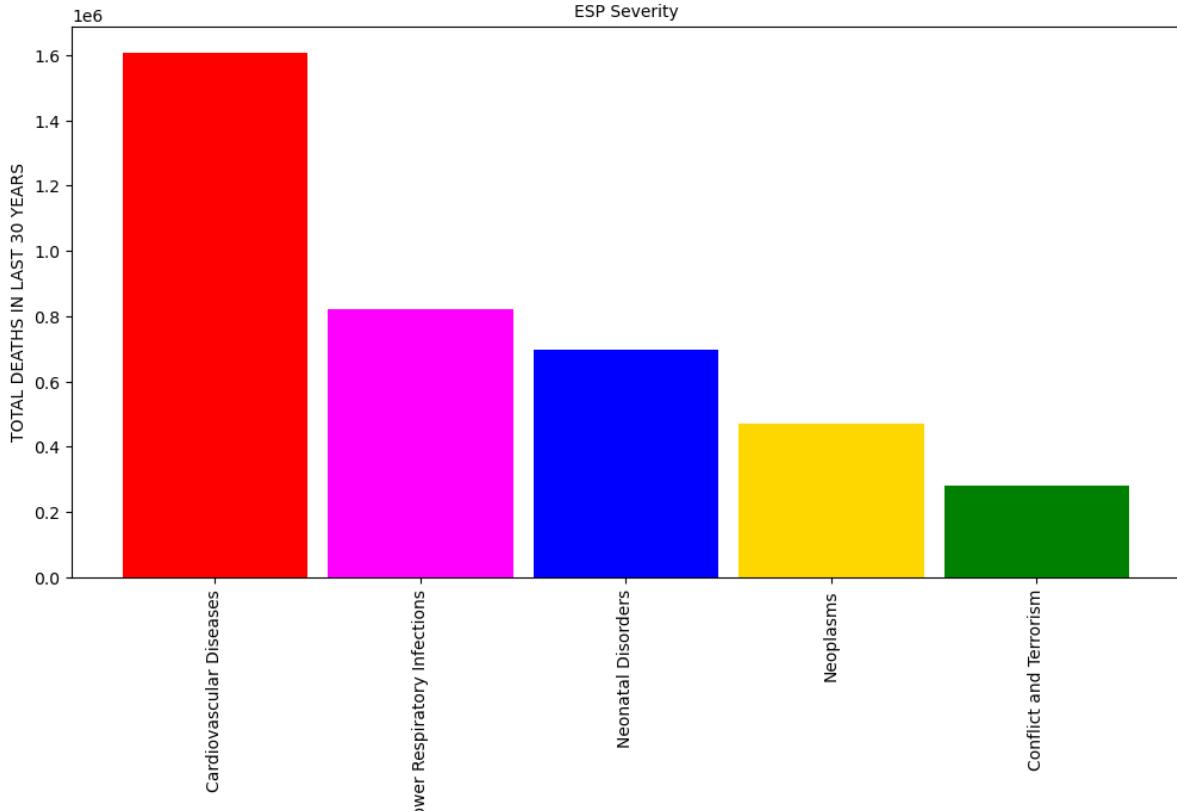
## Cause of Deaths around the World



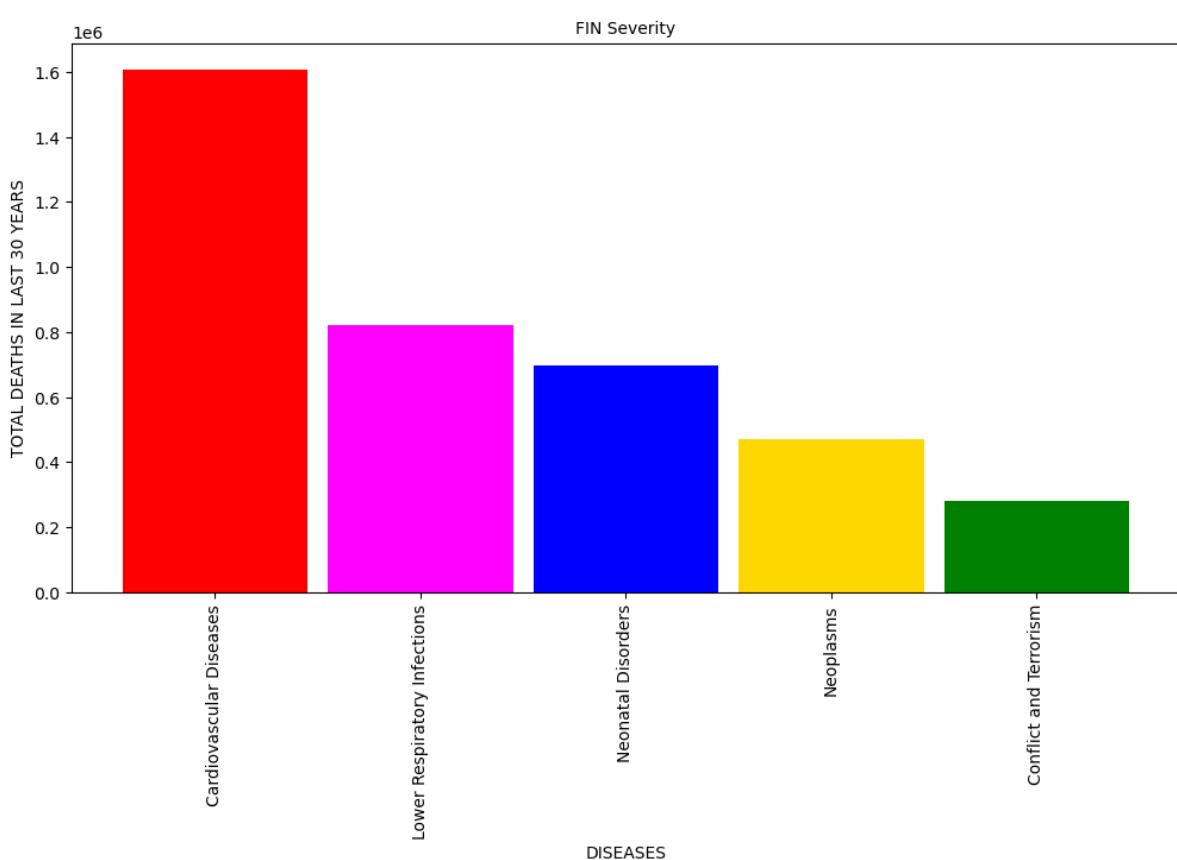
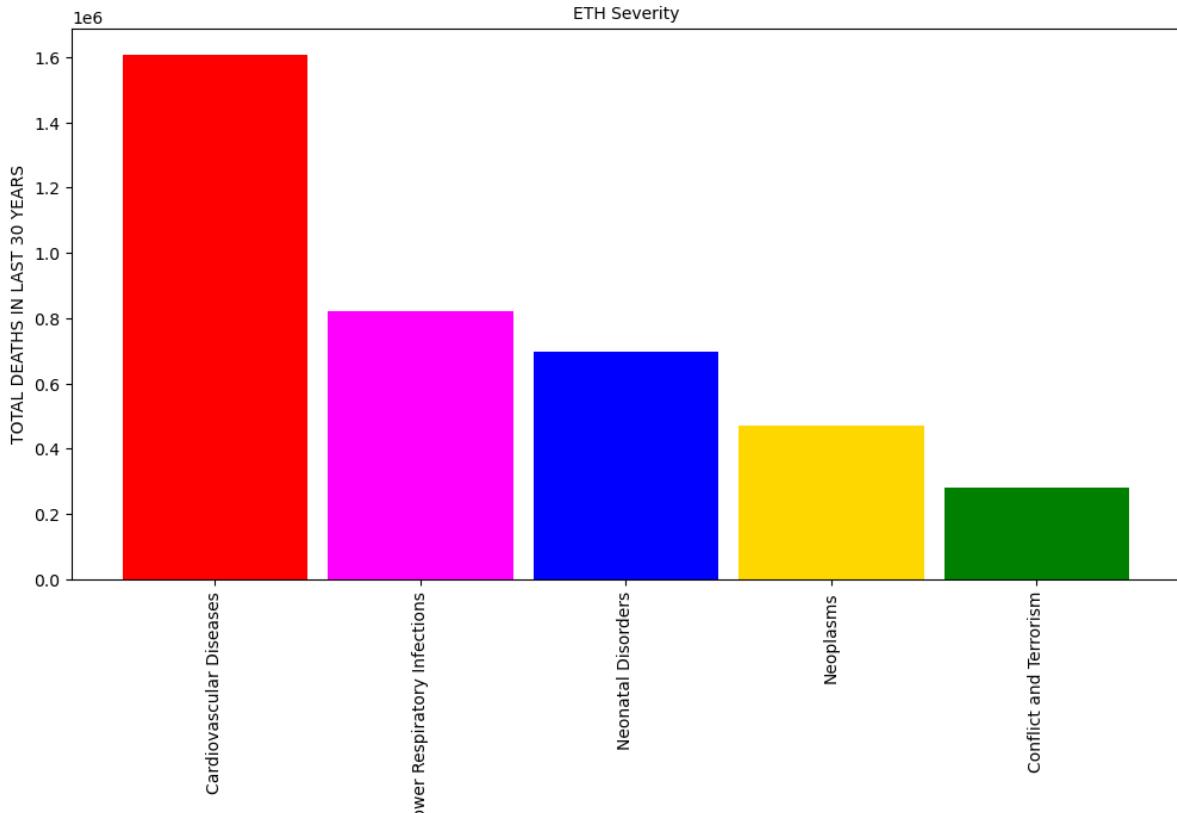
## Cause of Deaths around the World



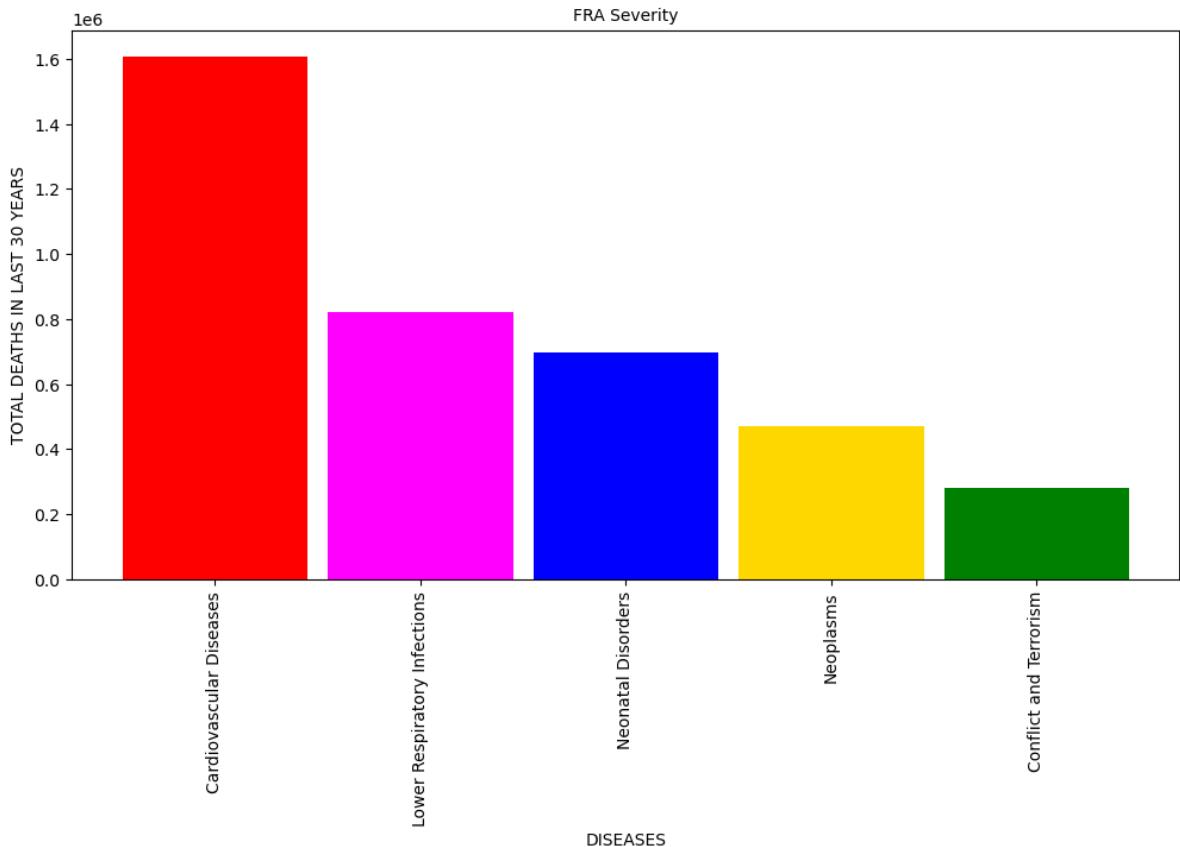
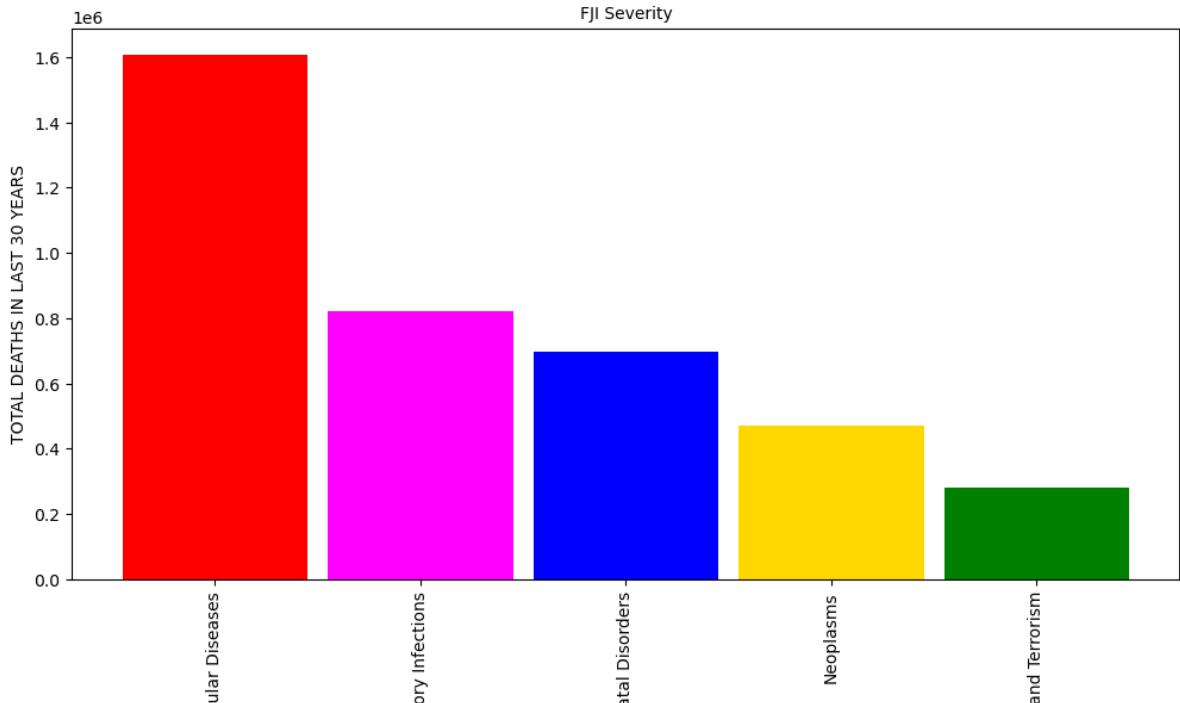
## Cause of Deaths around the World



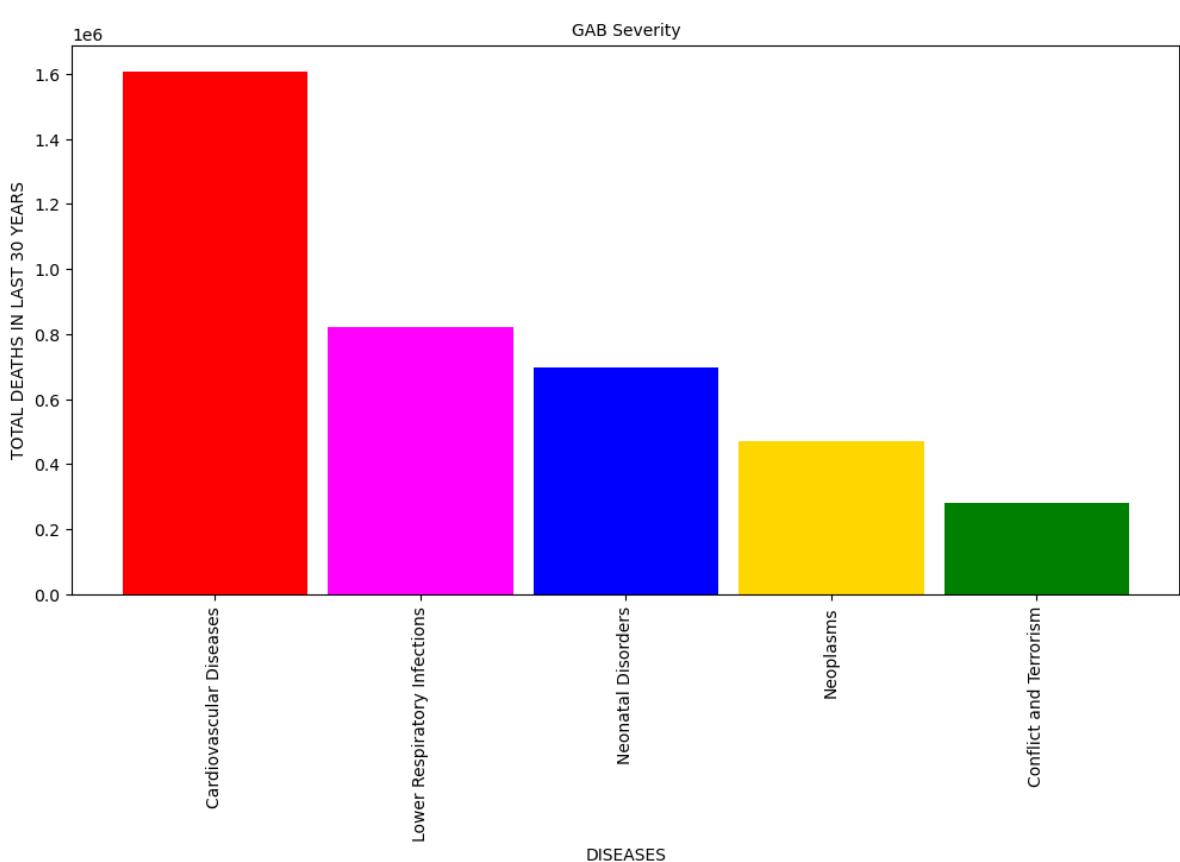
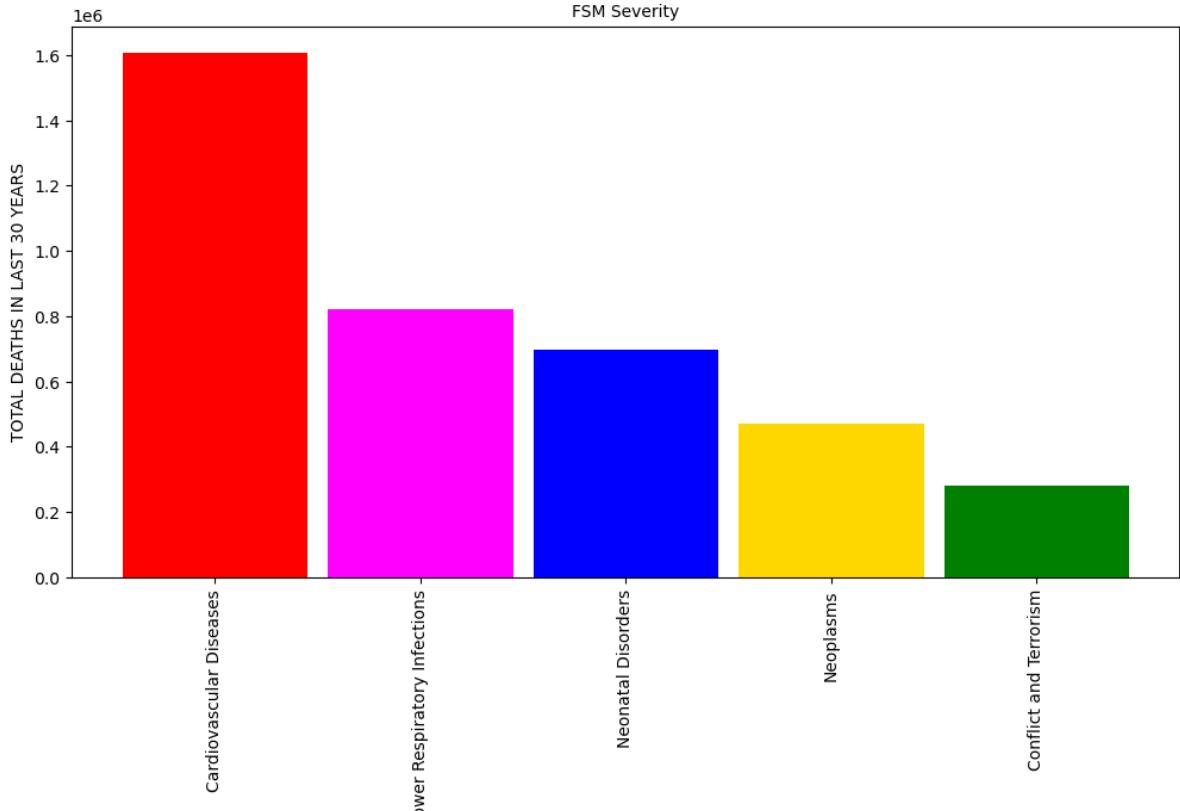
## Cause of Deaths around the World



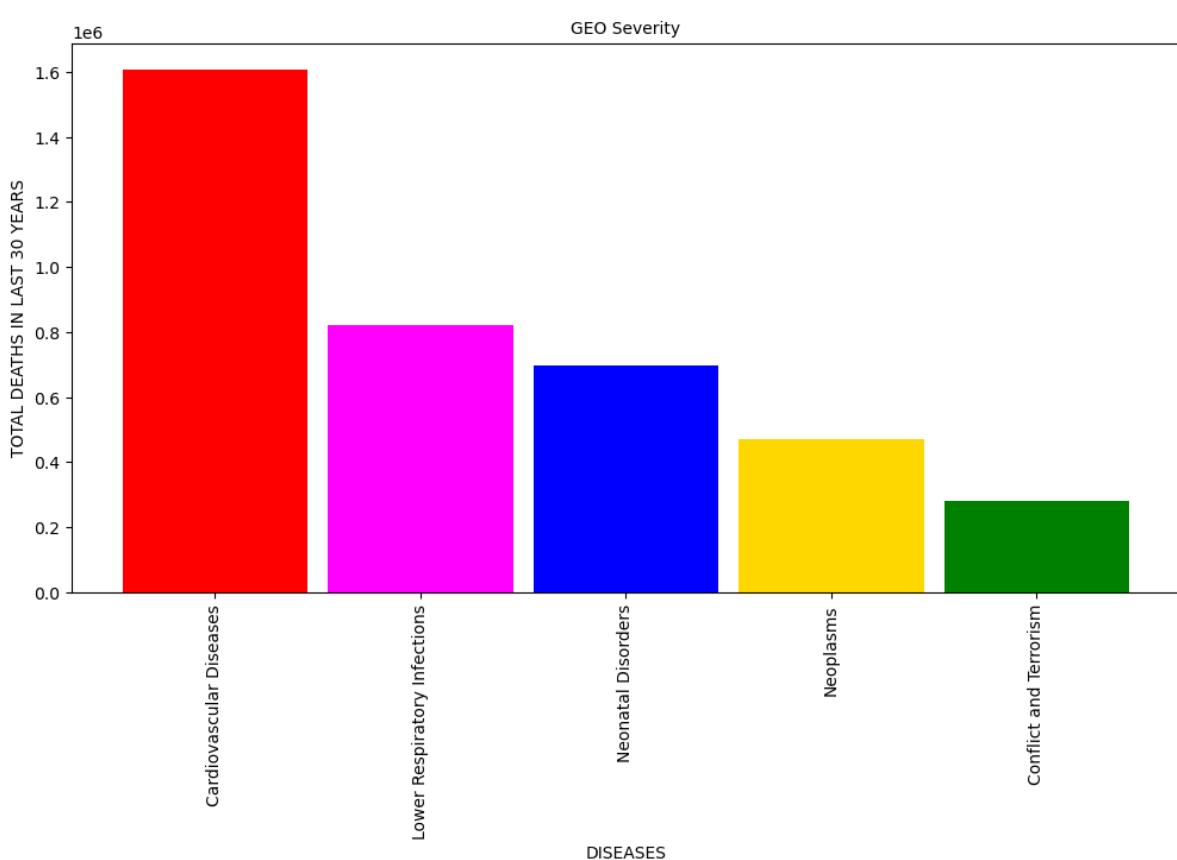
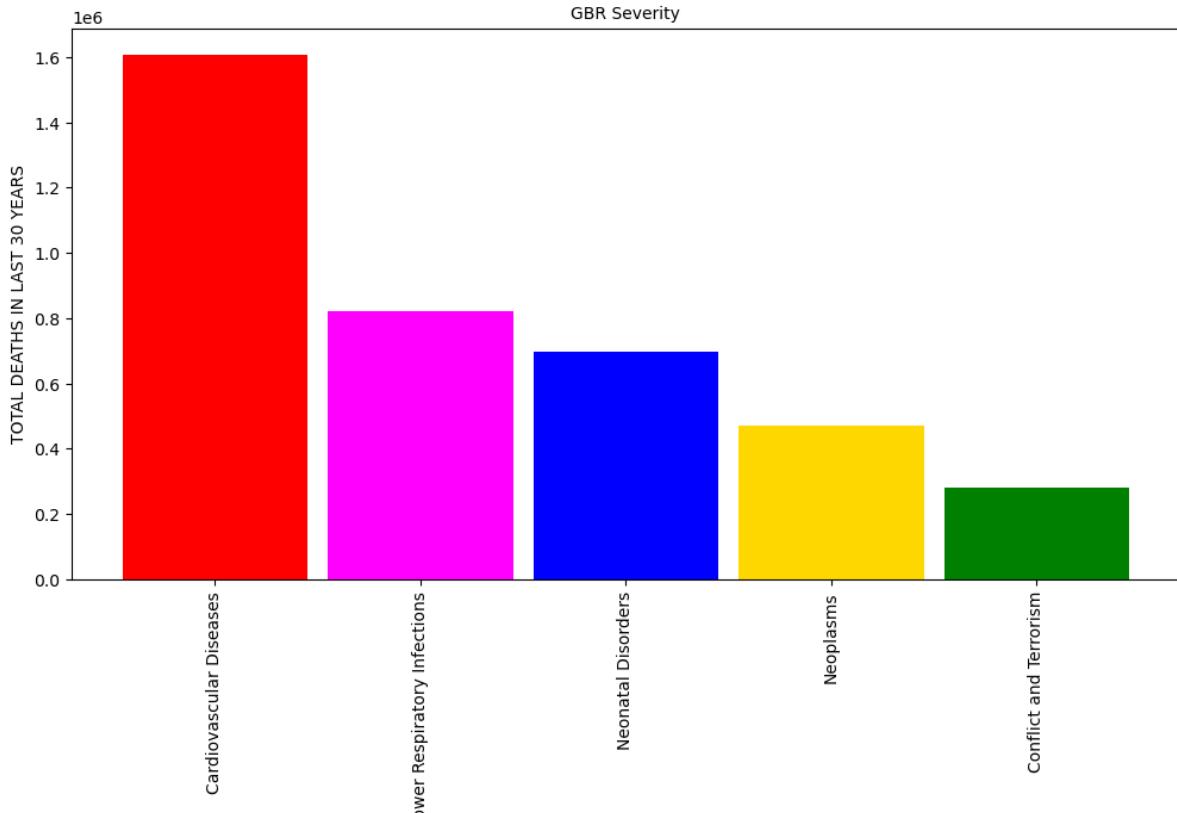
## Cause of Deaths around the World



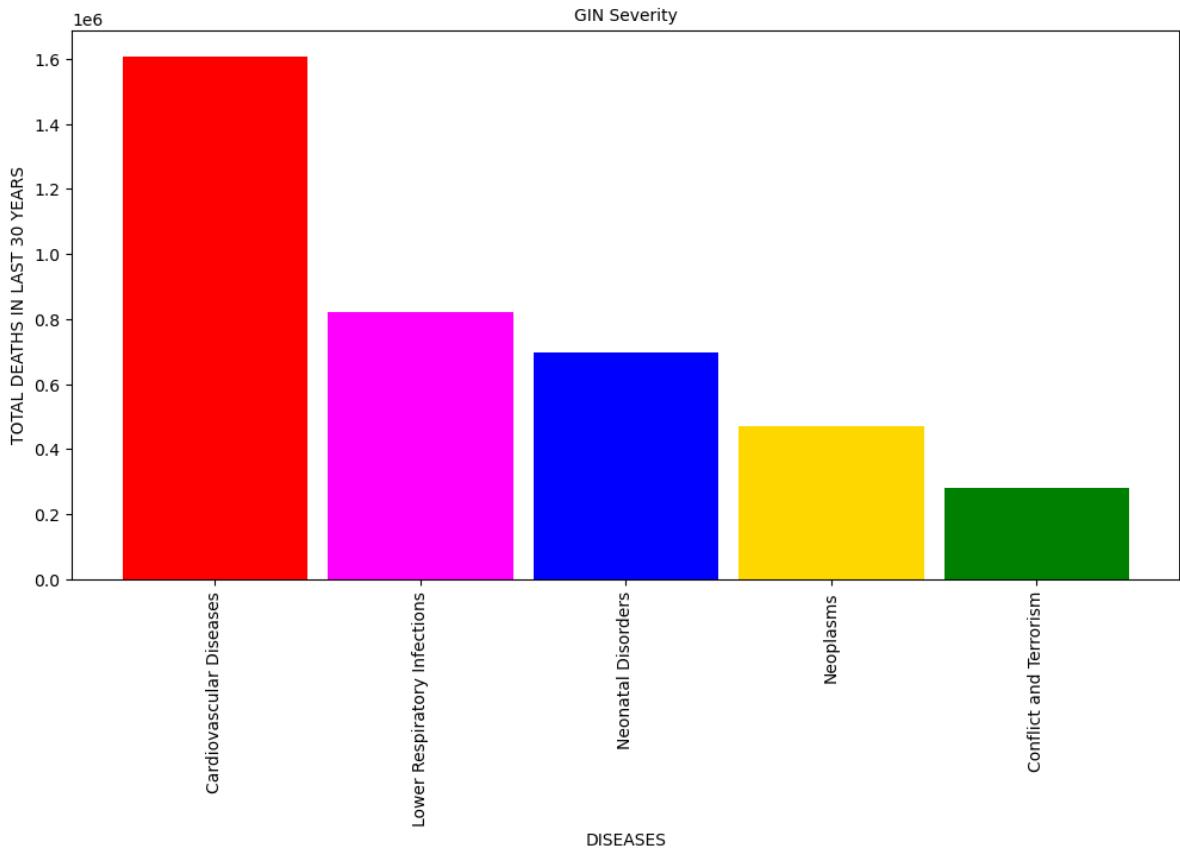
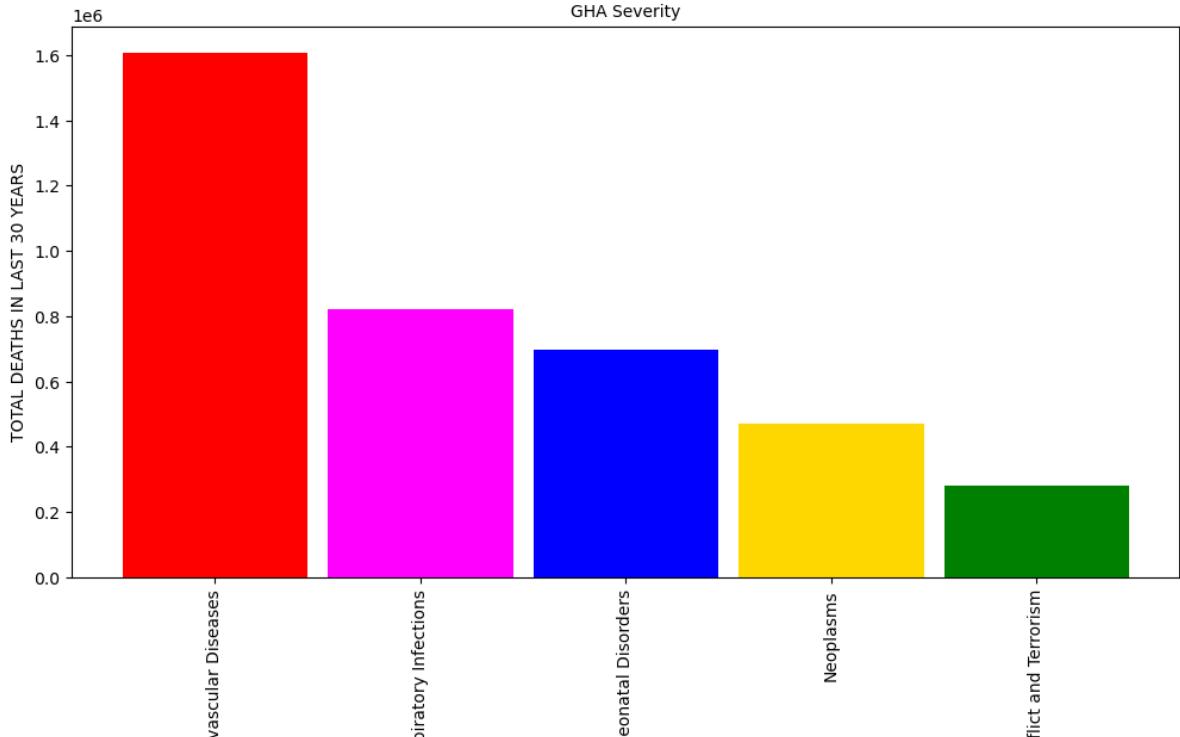
## Cause of Deaths around the World



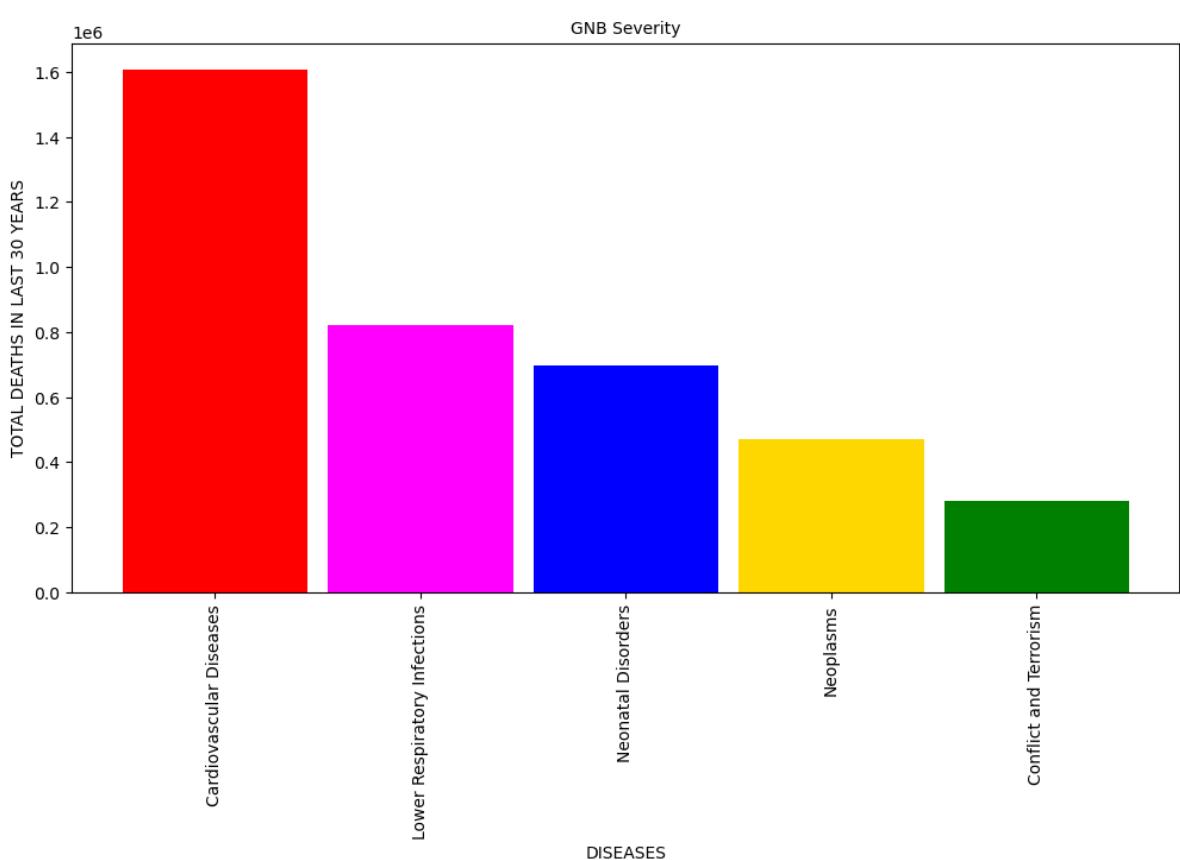
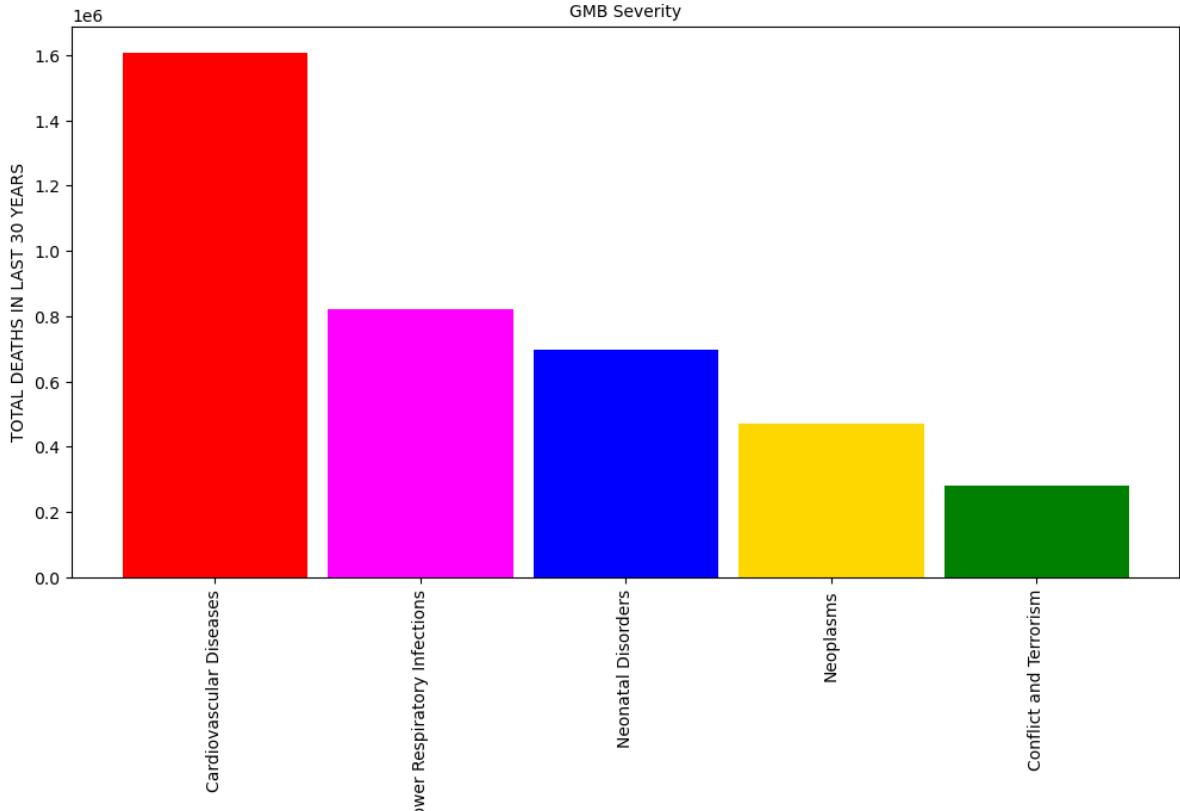
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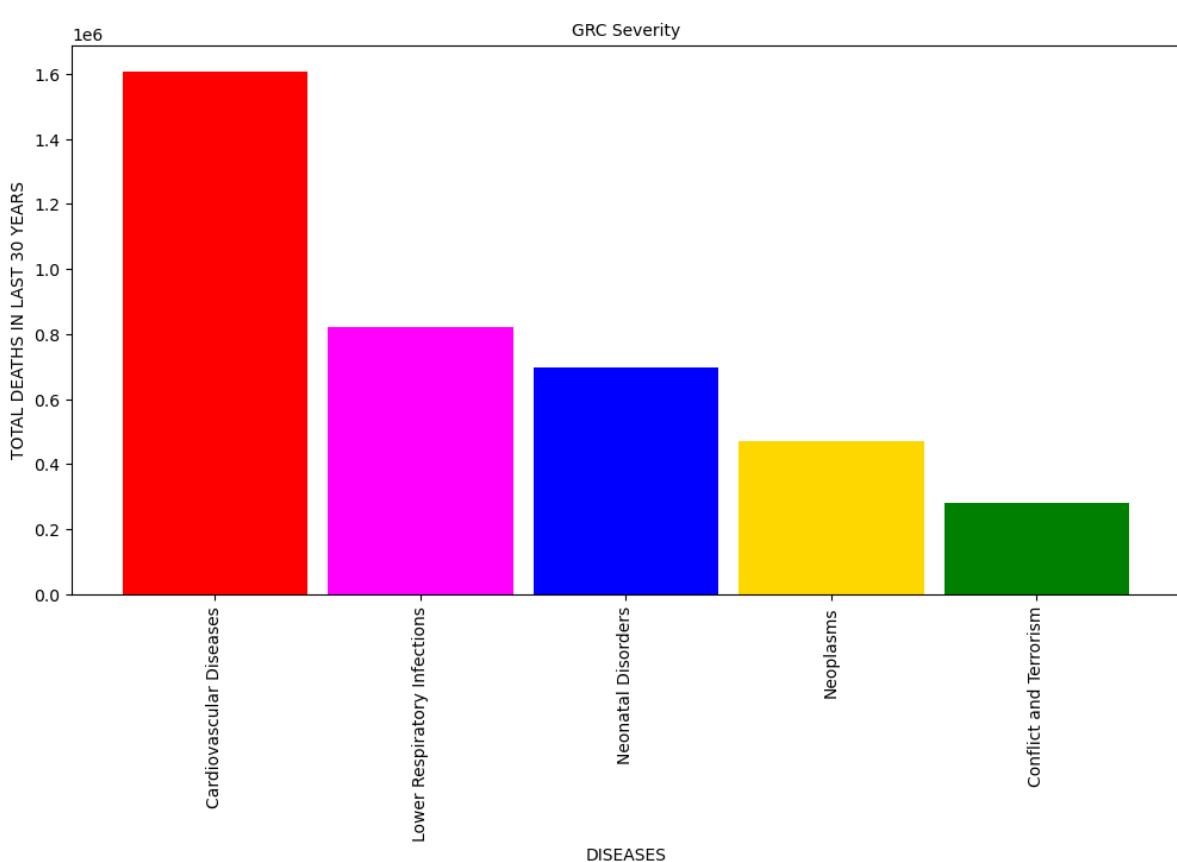
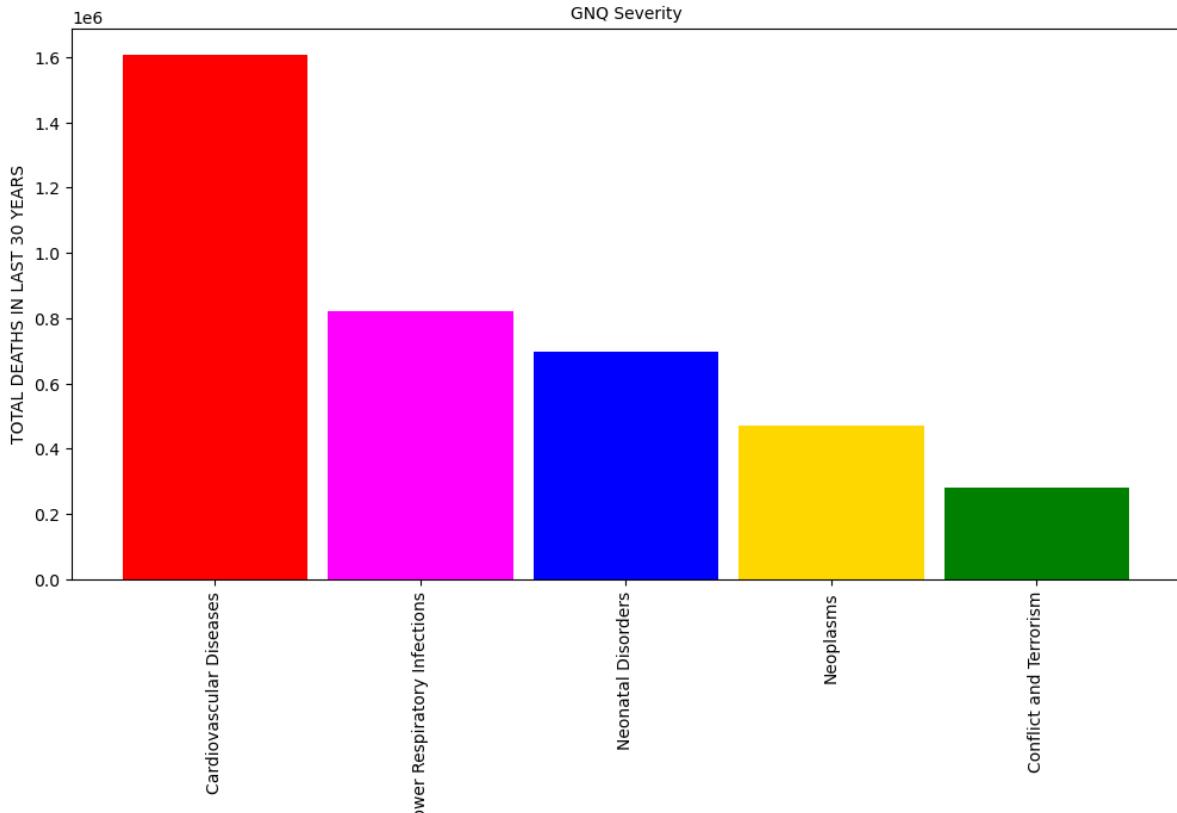
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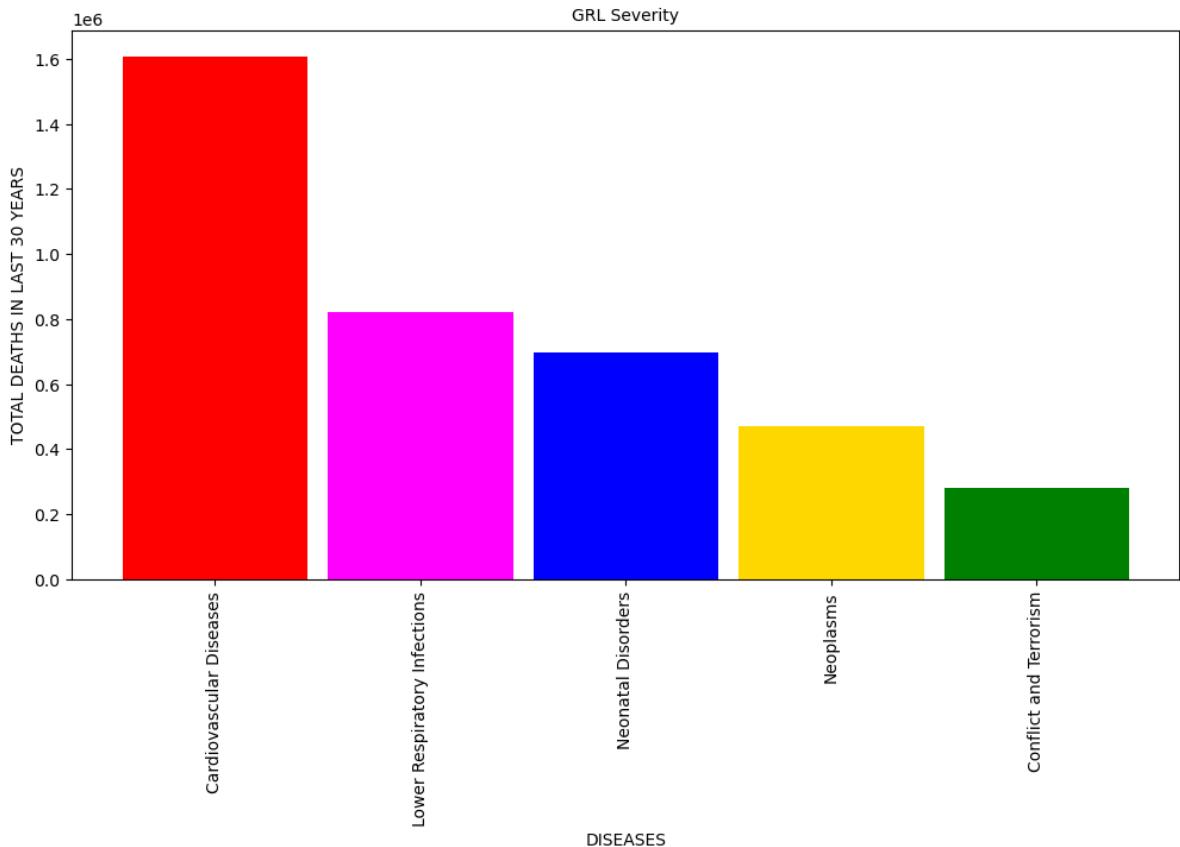
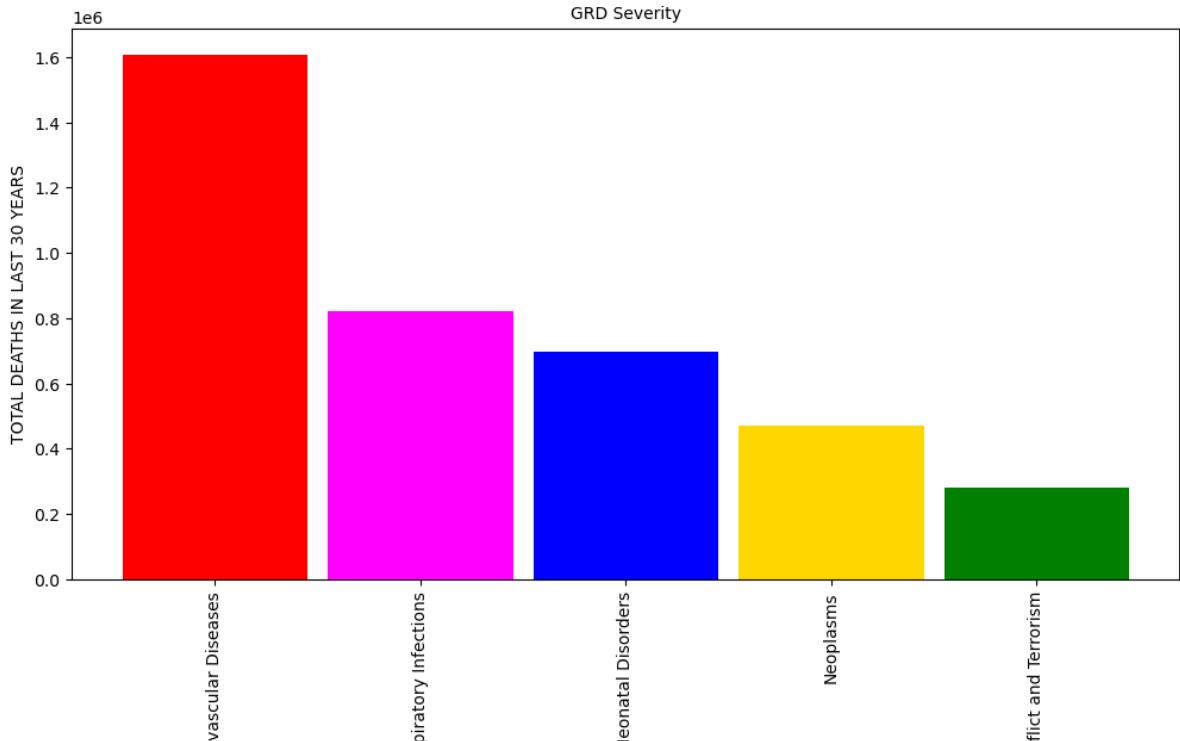
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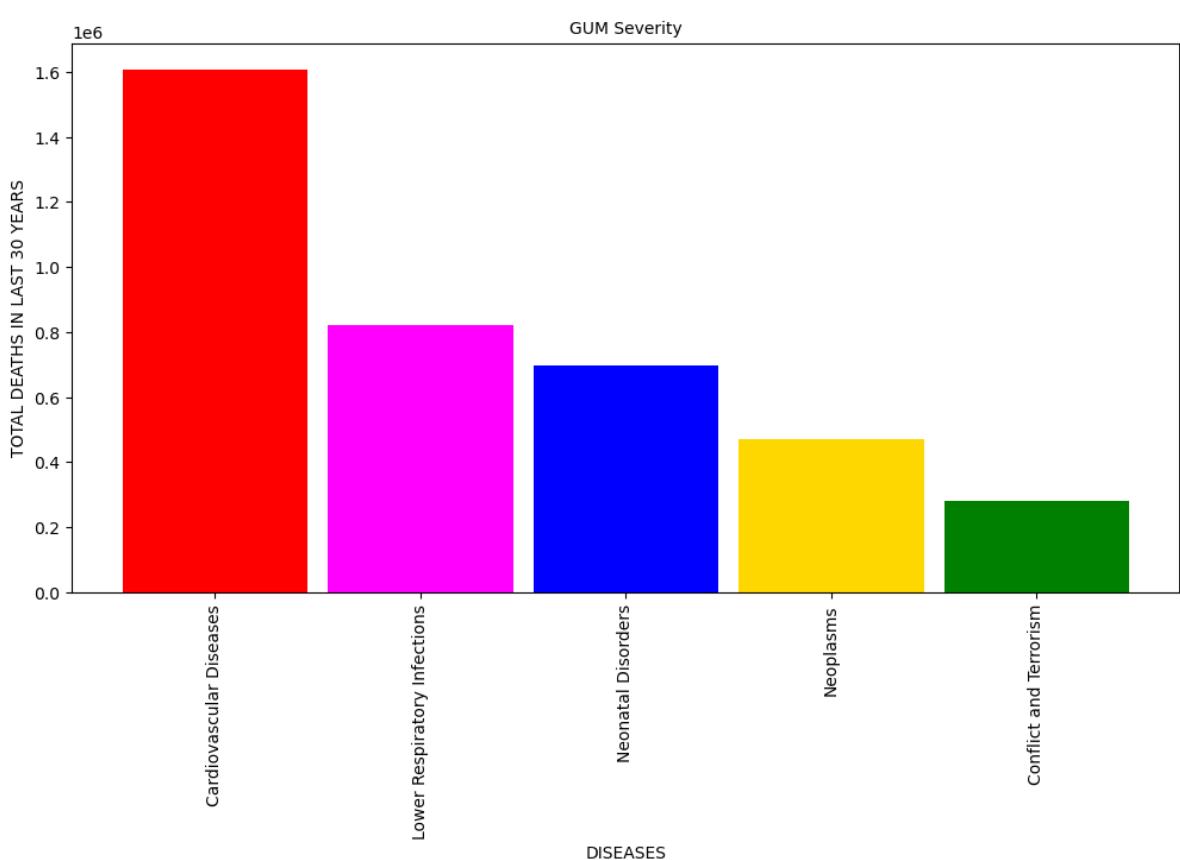
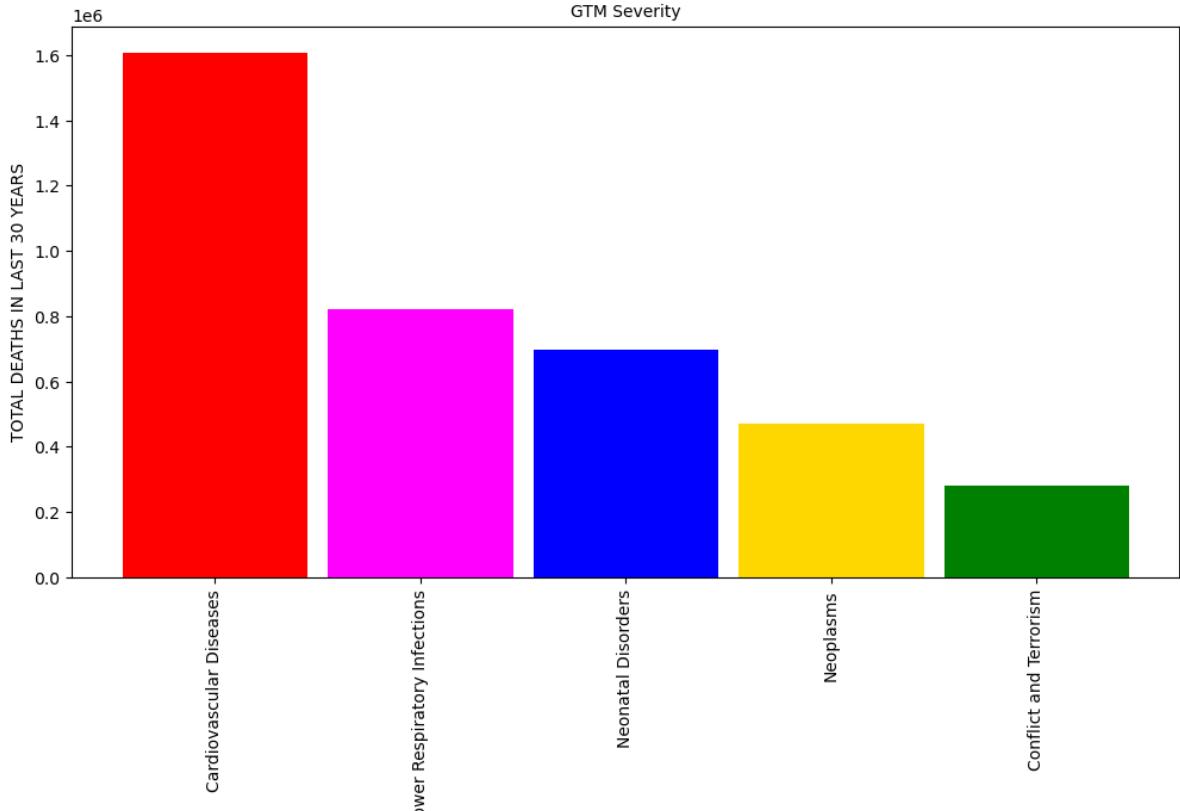
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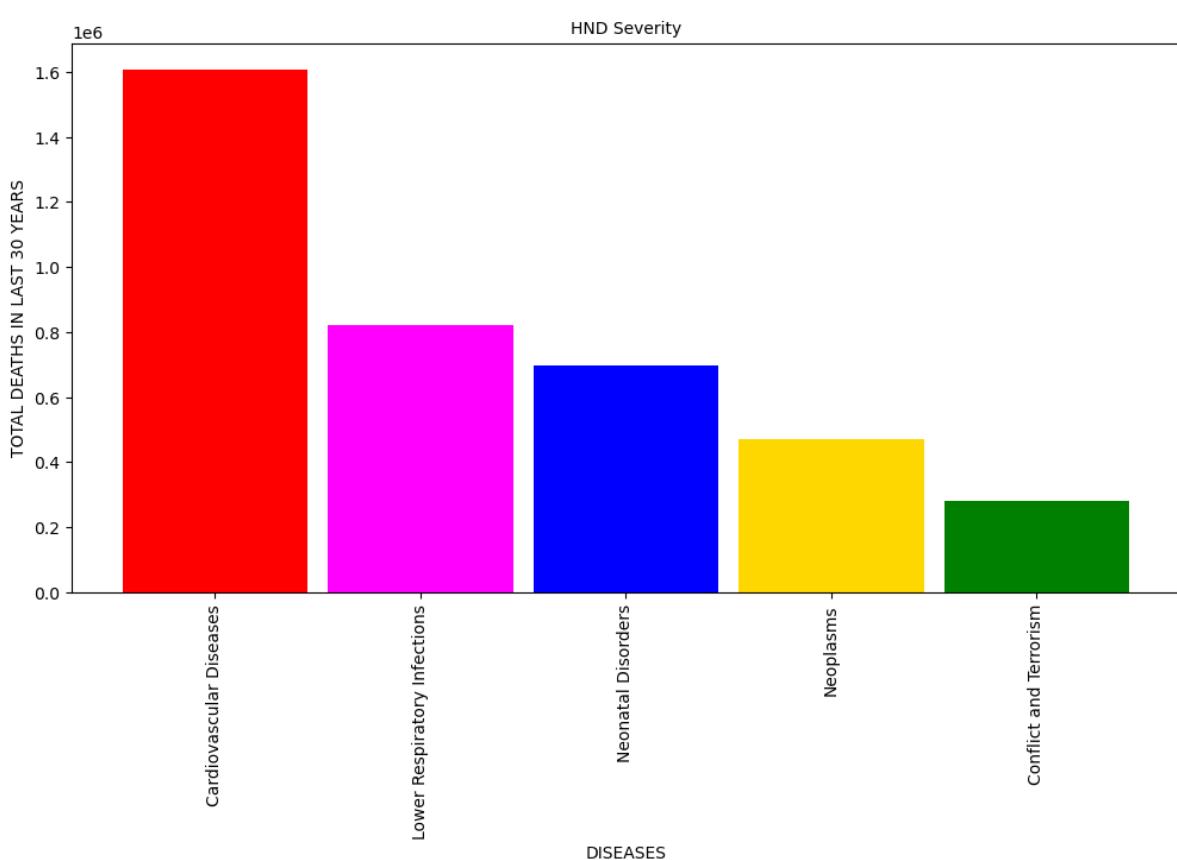
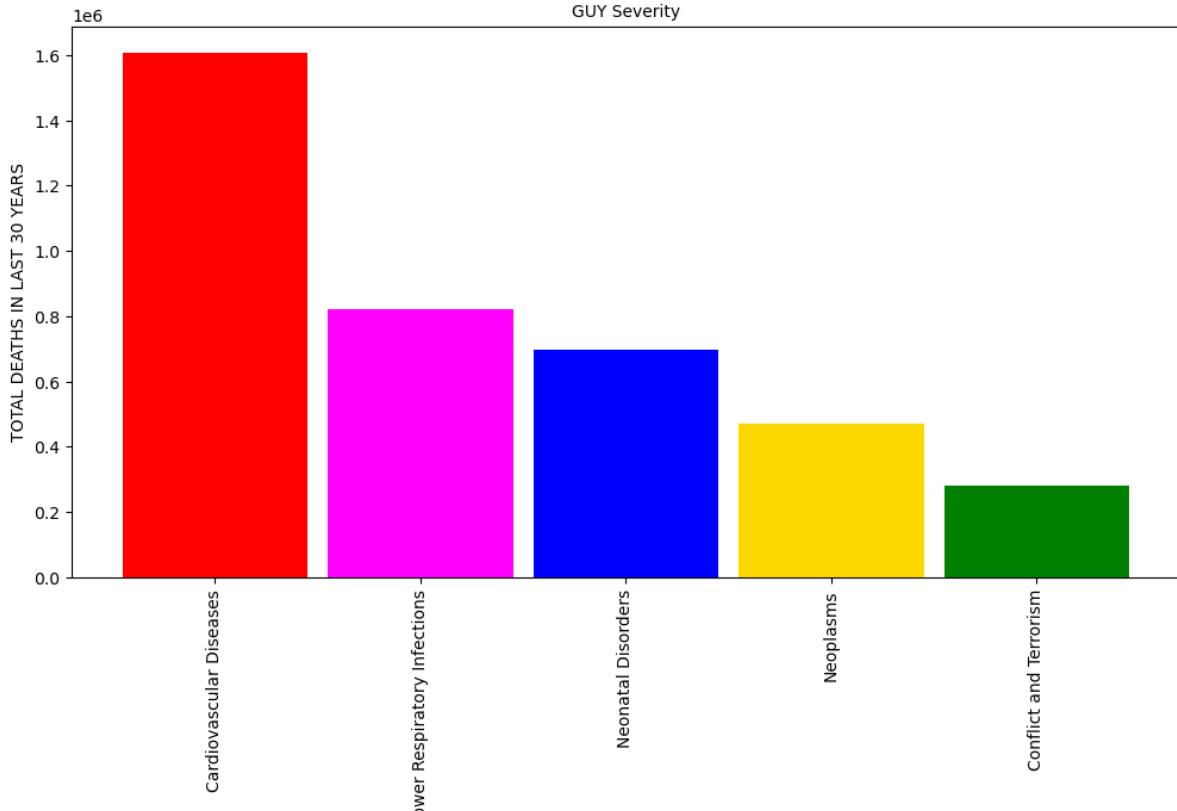
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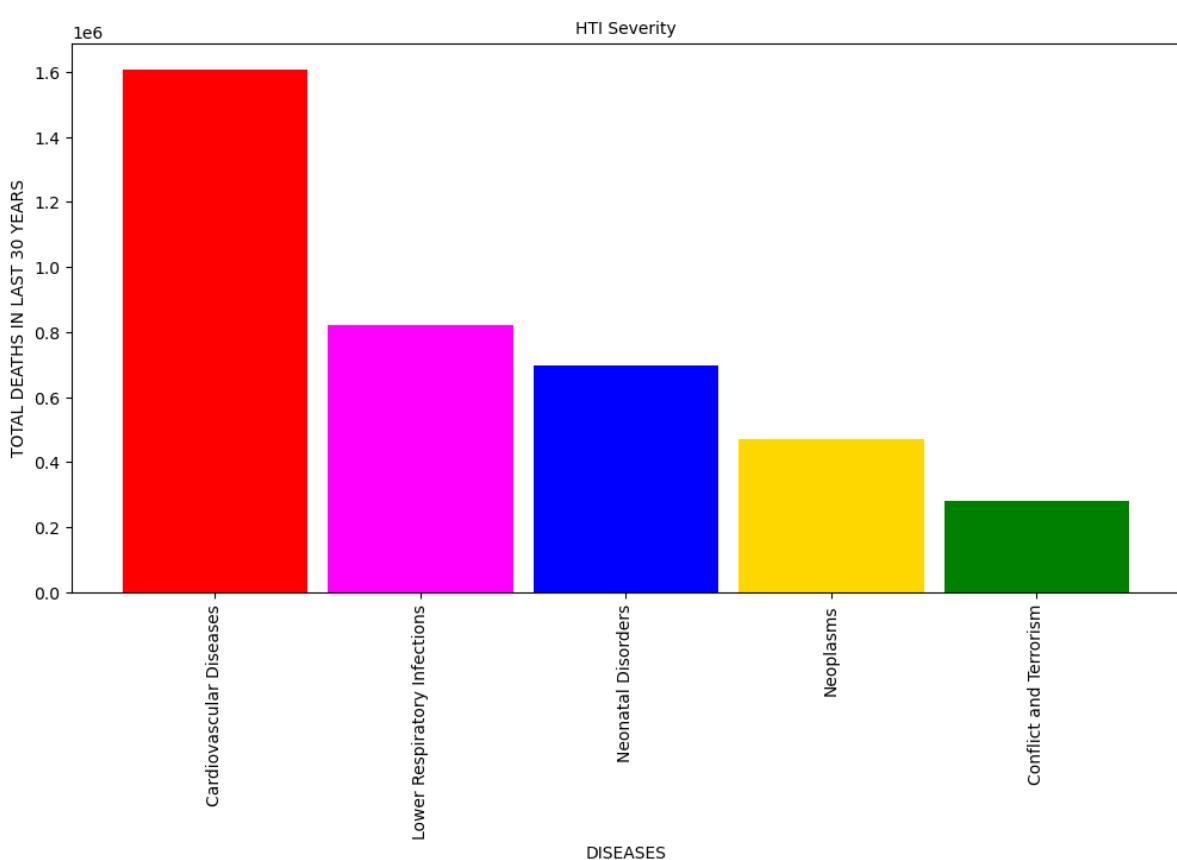
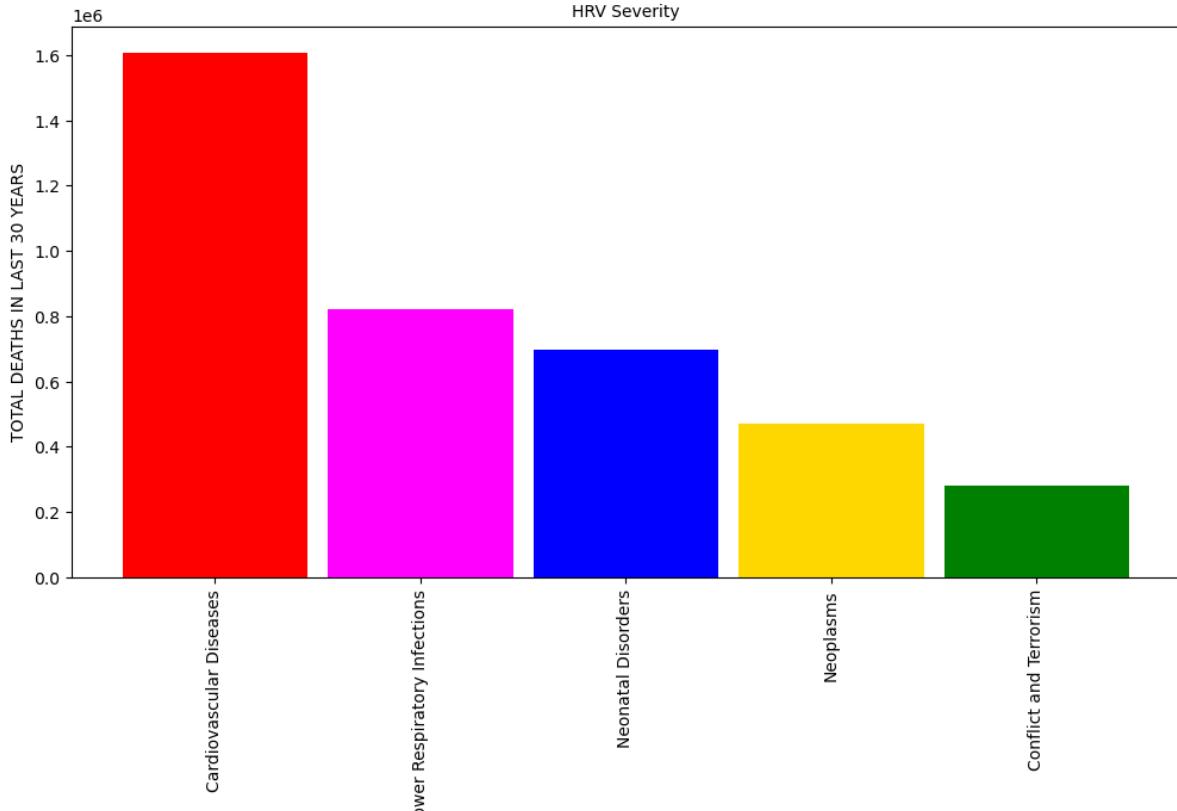
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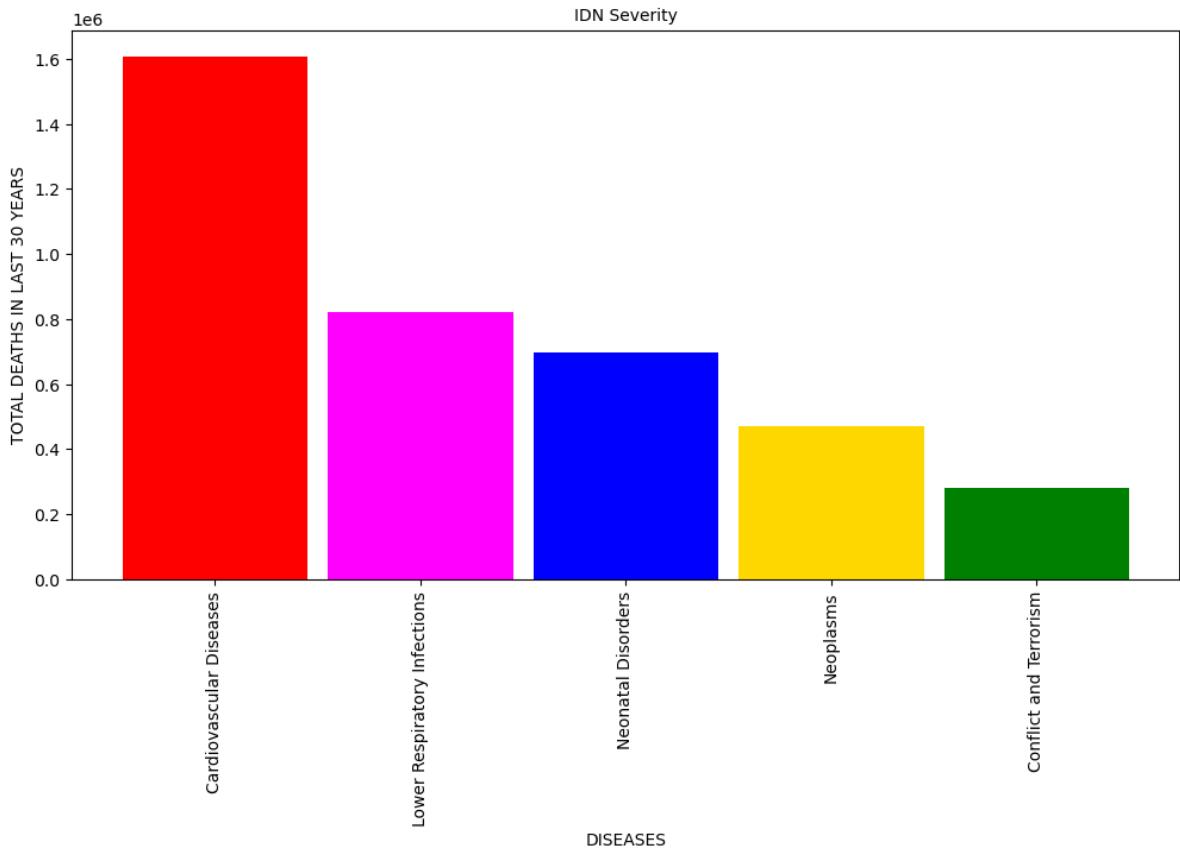
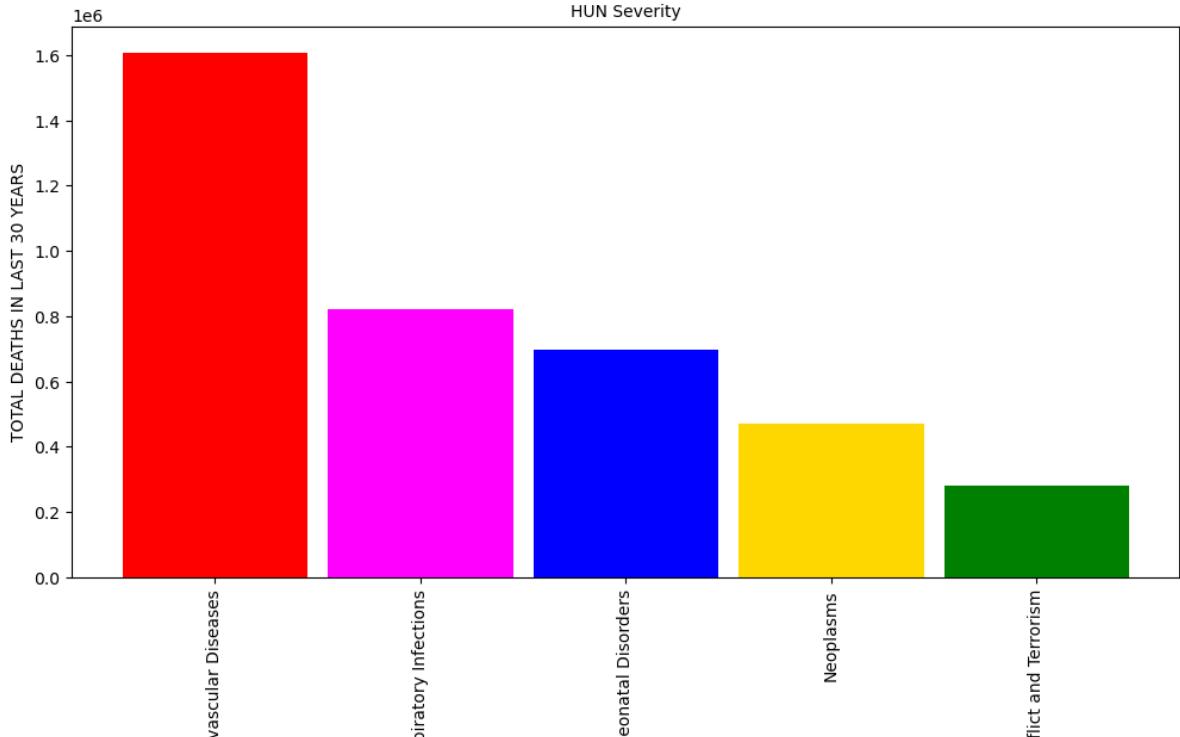
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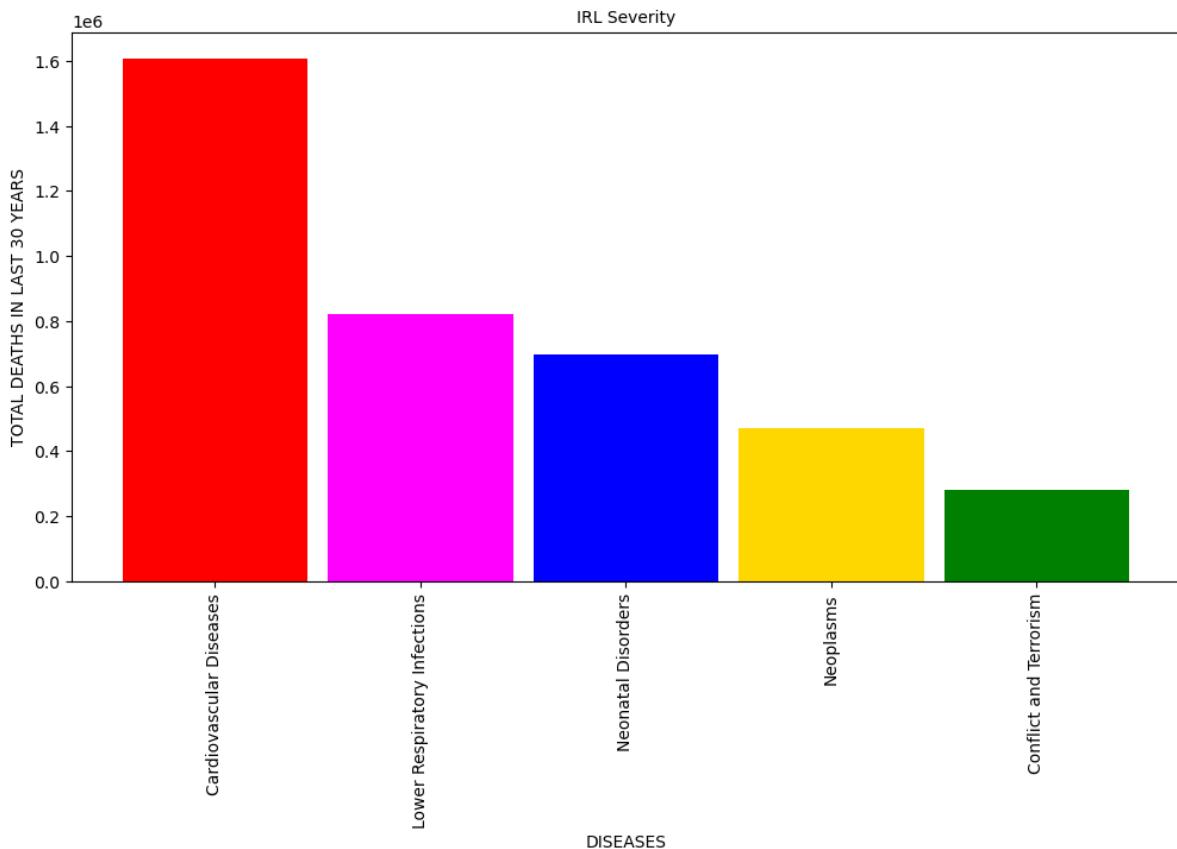
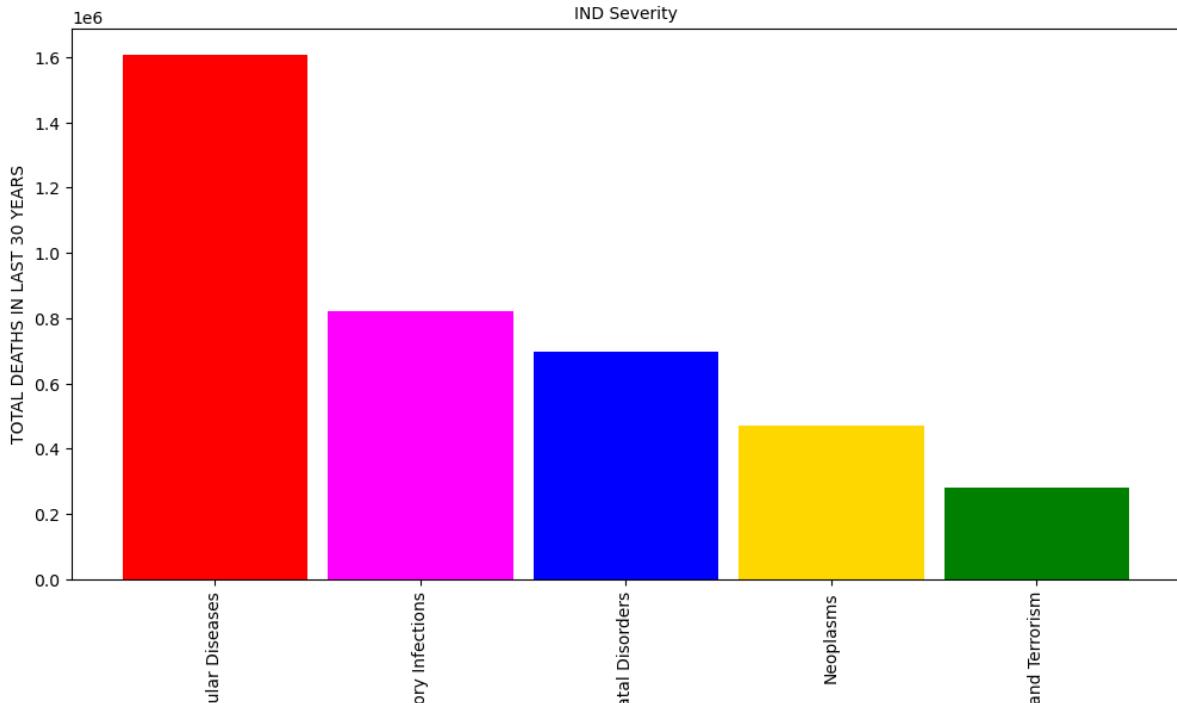
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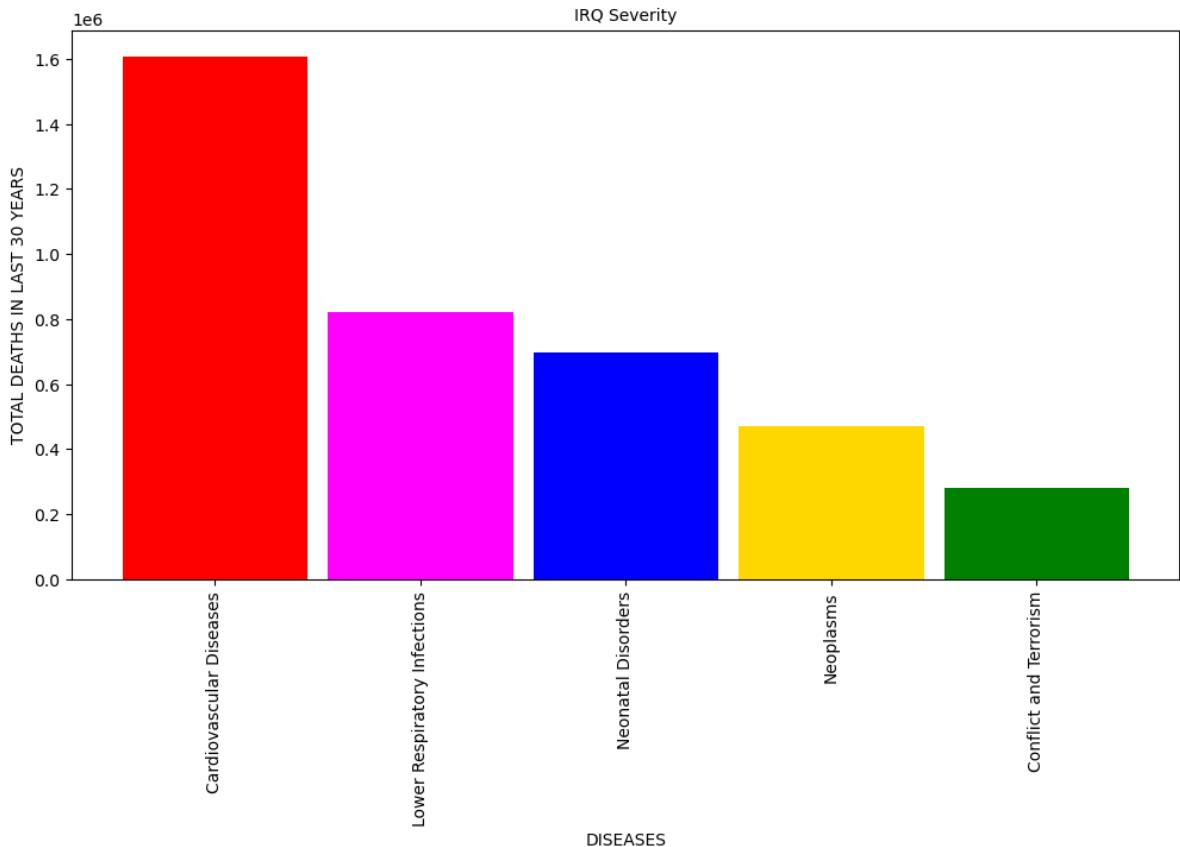
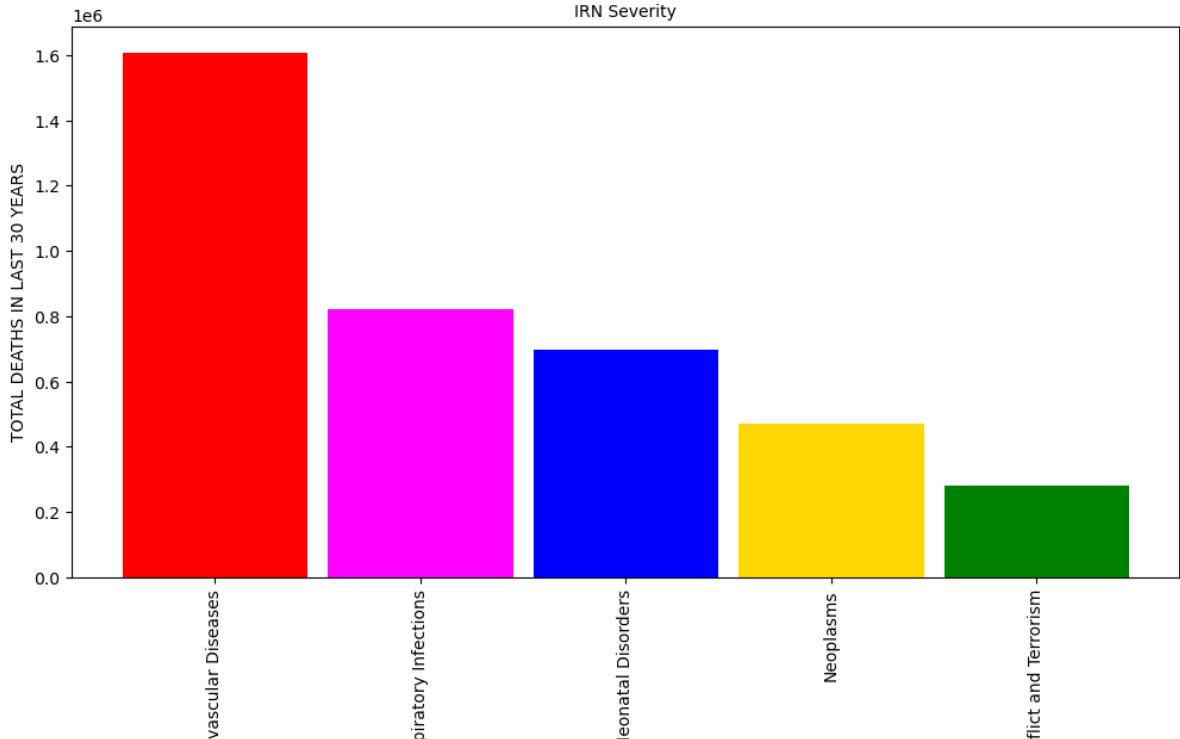
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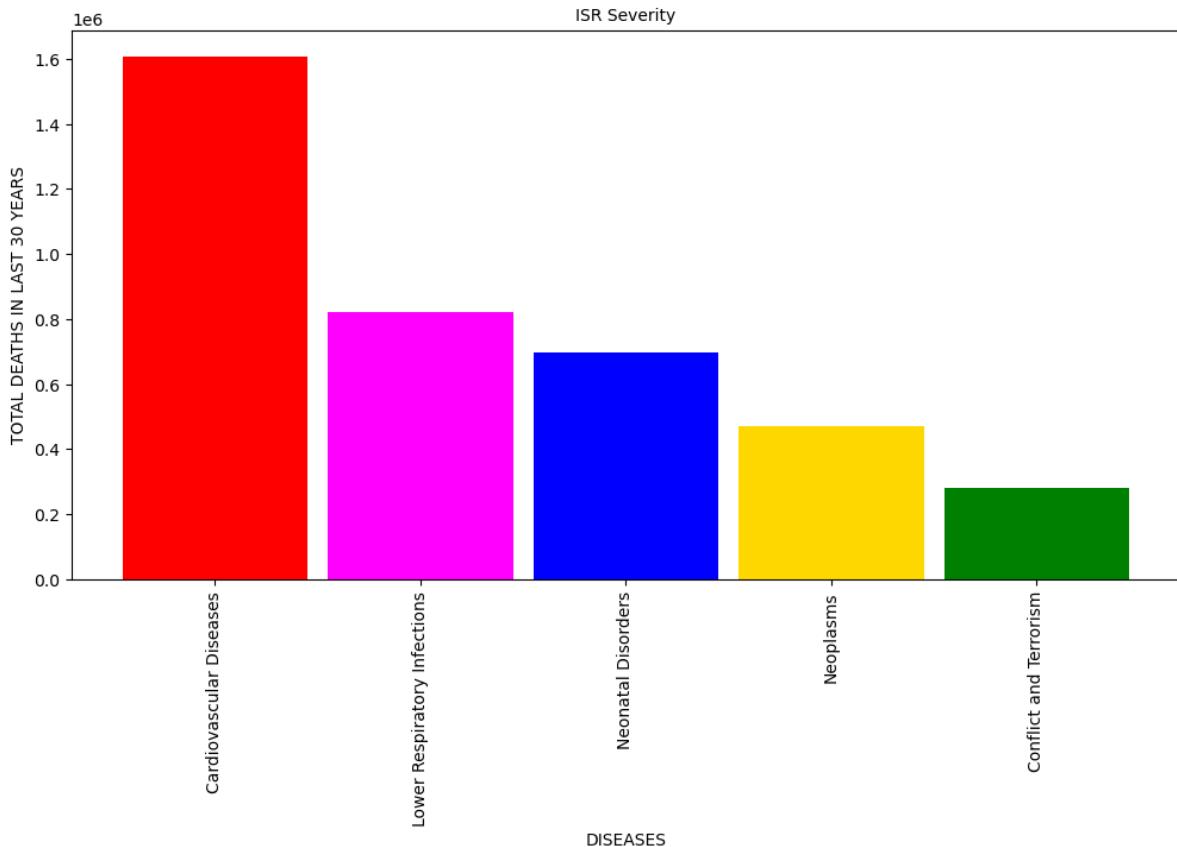
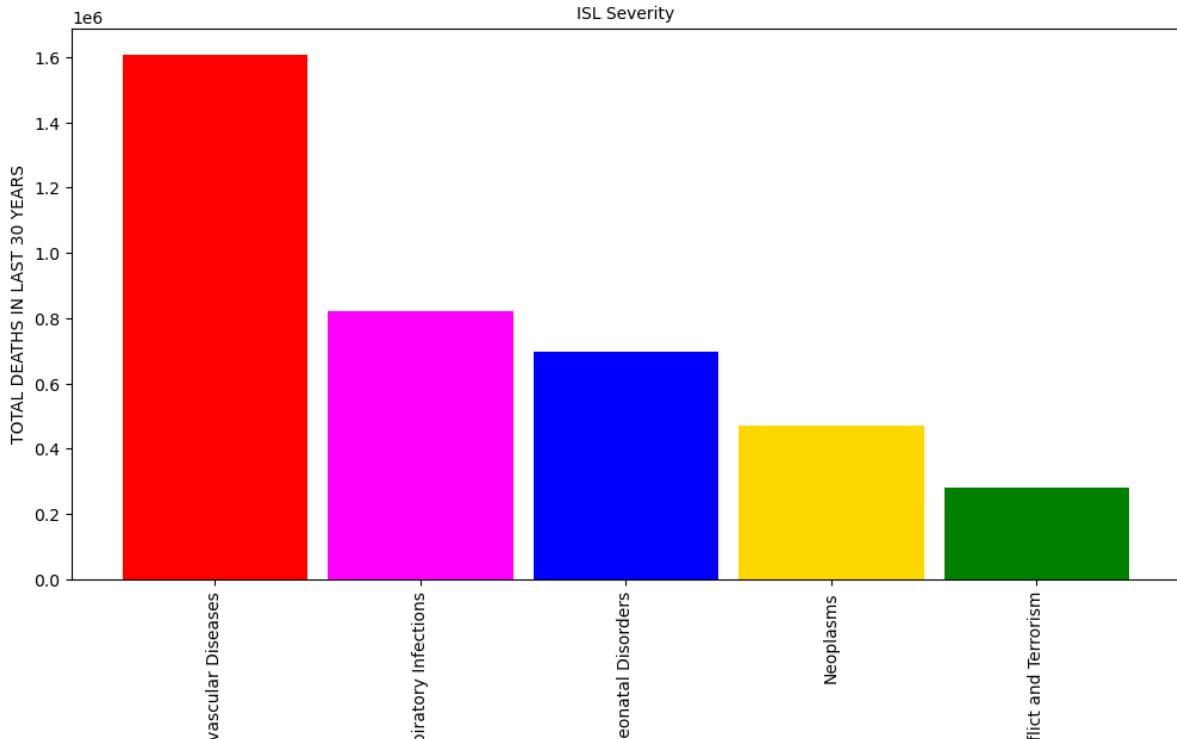
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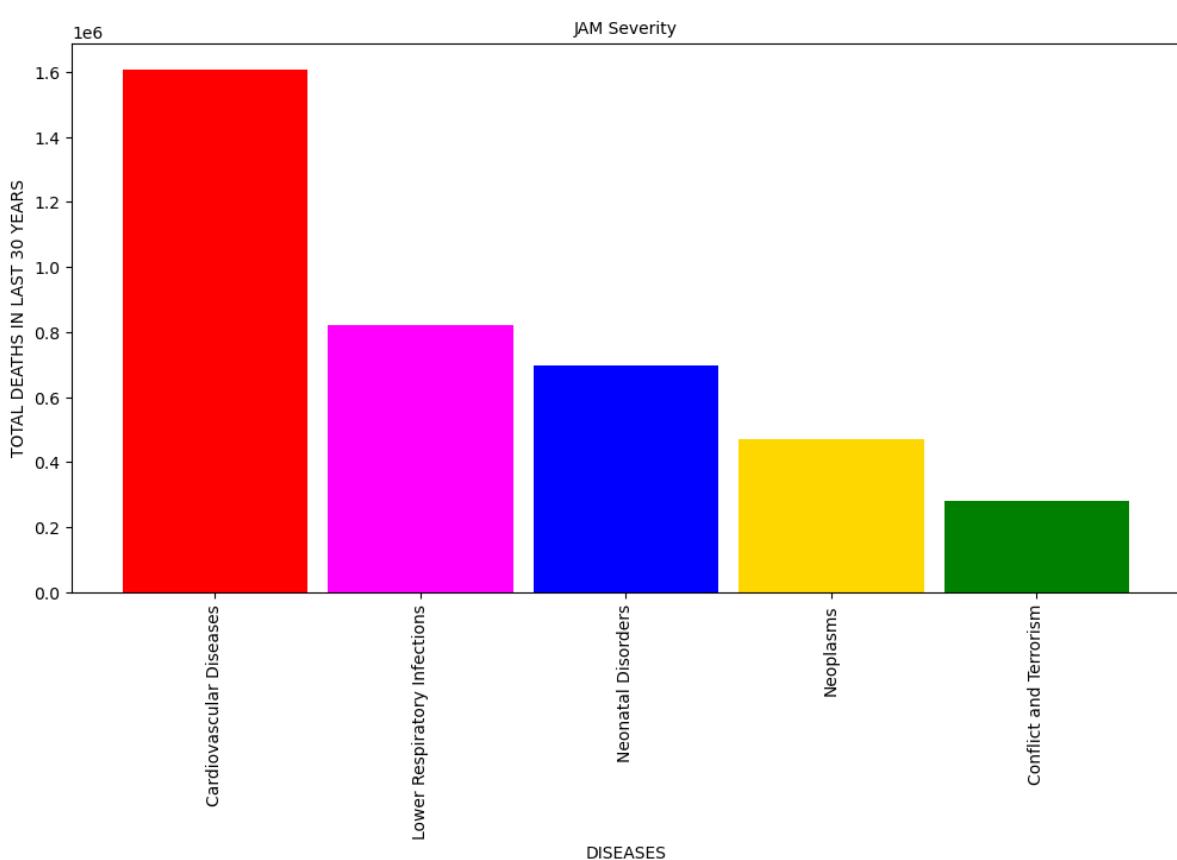
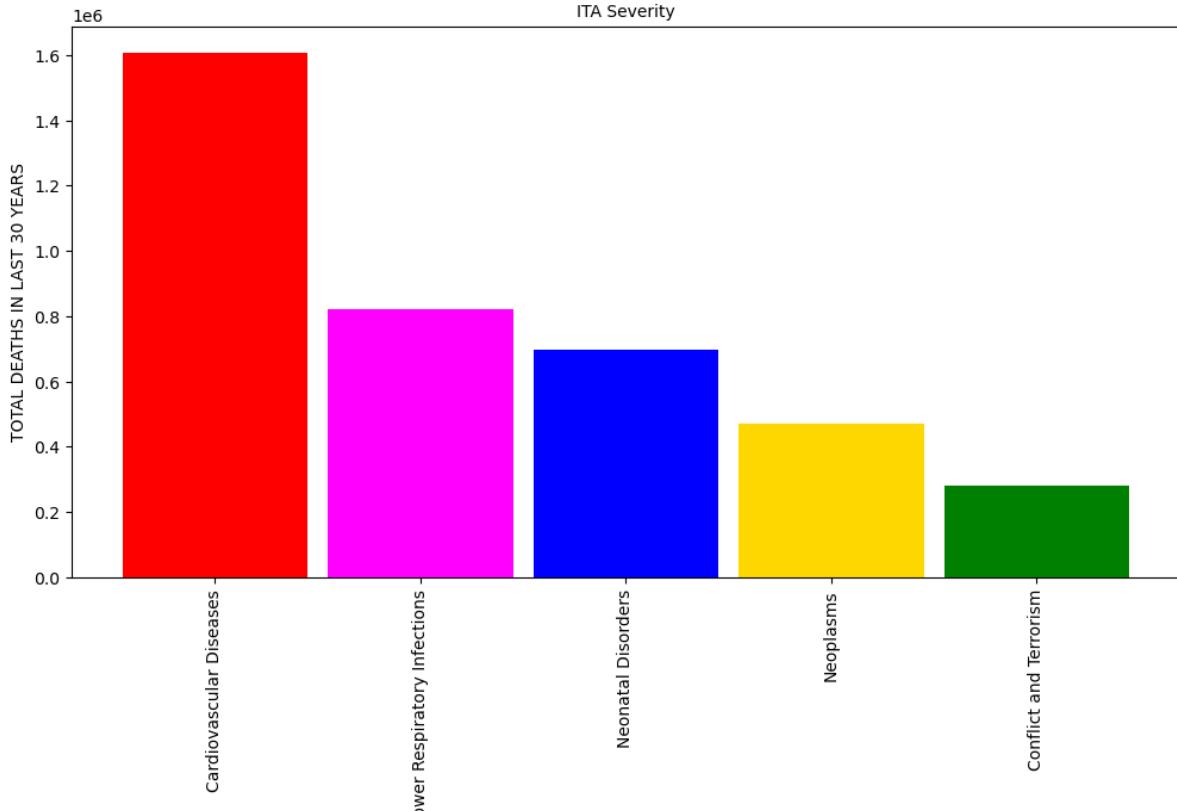
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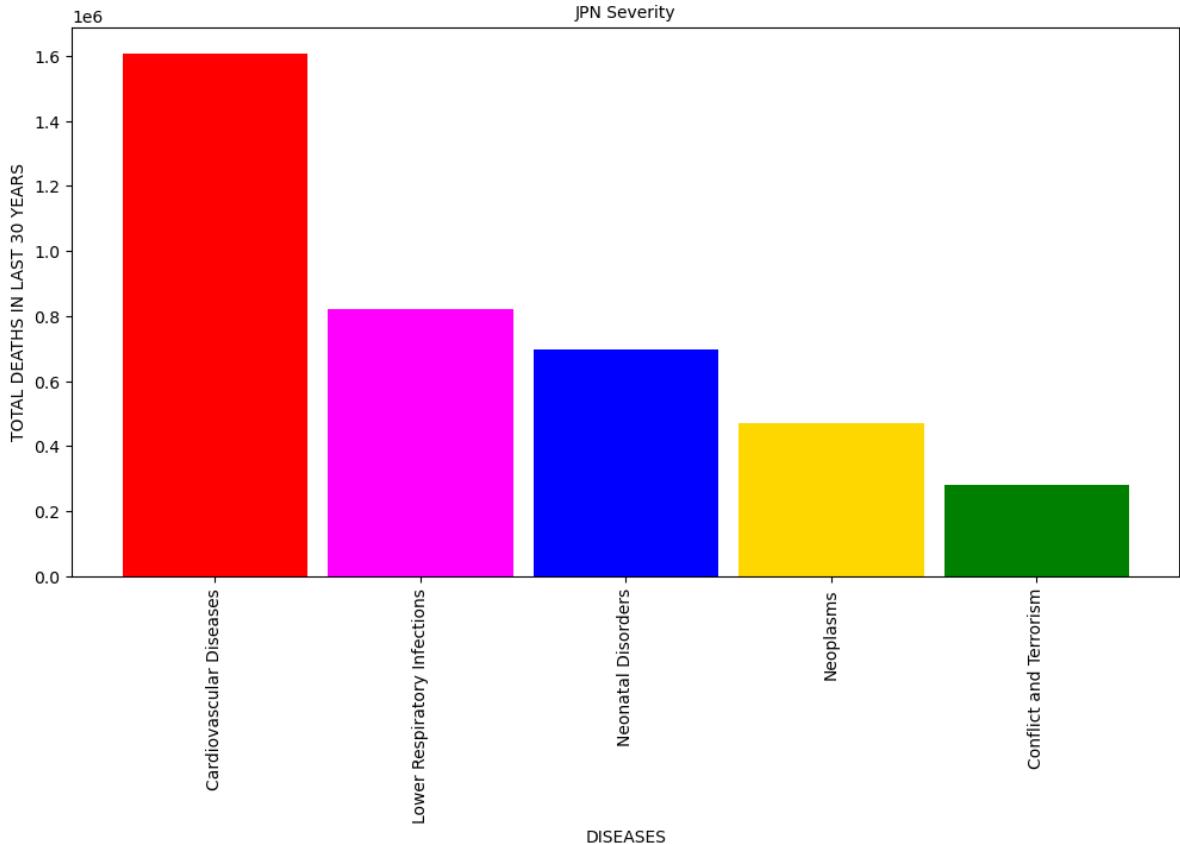
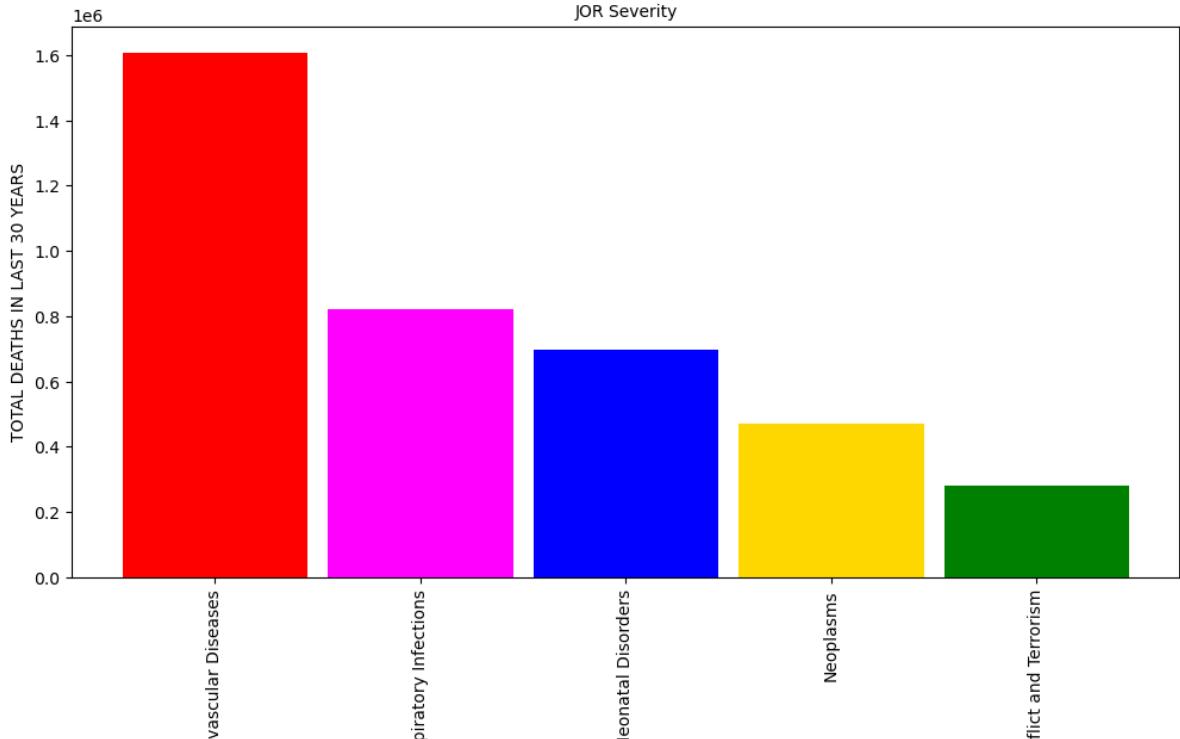
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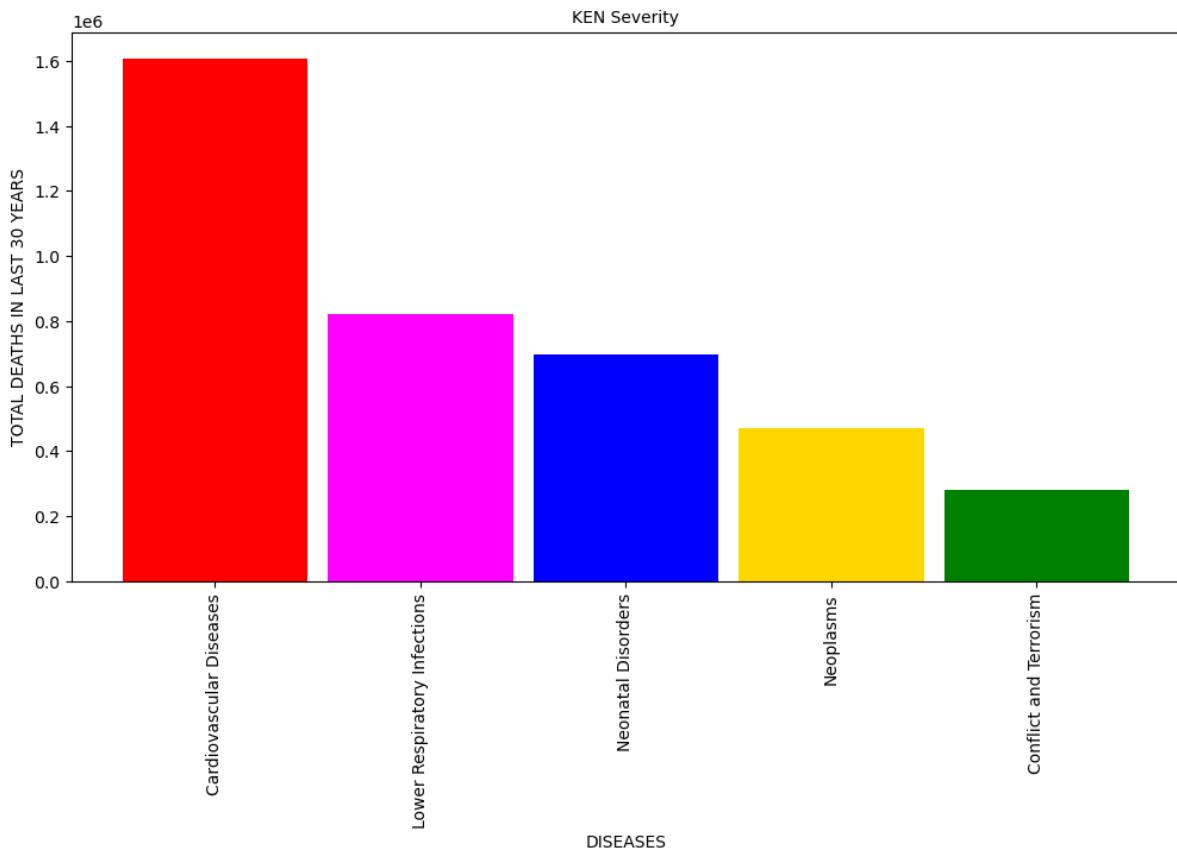
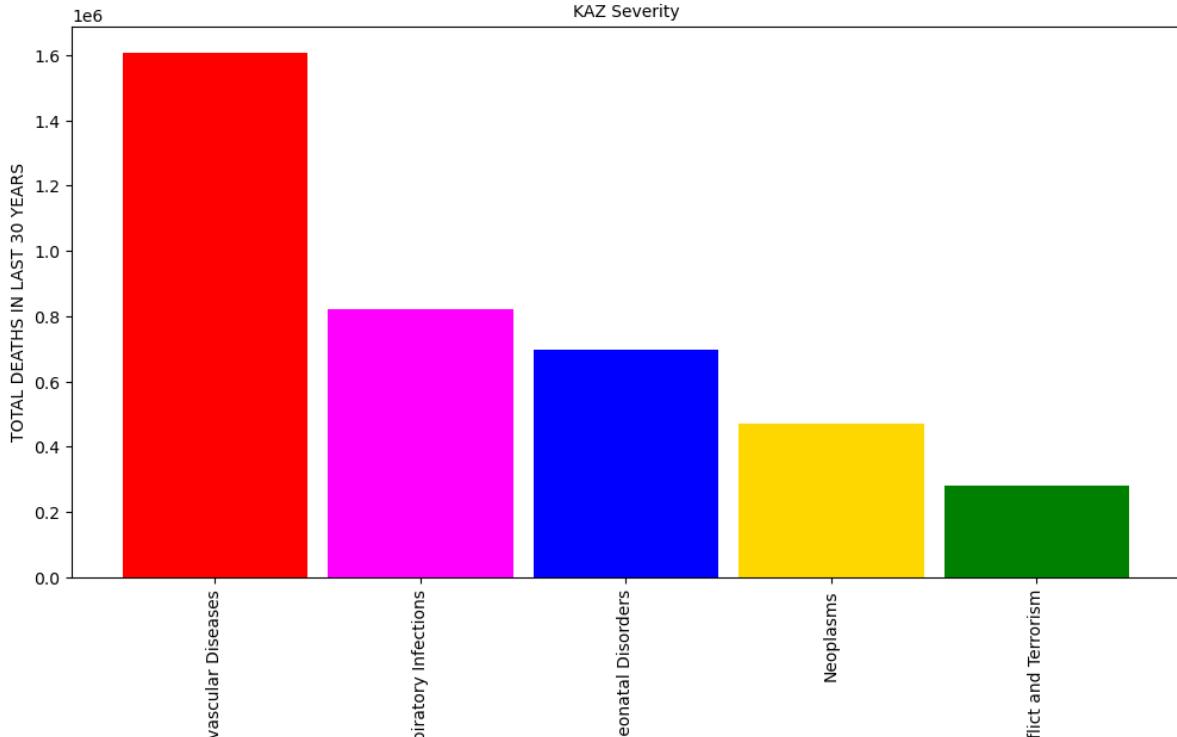
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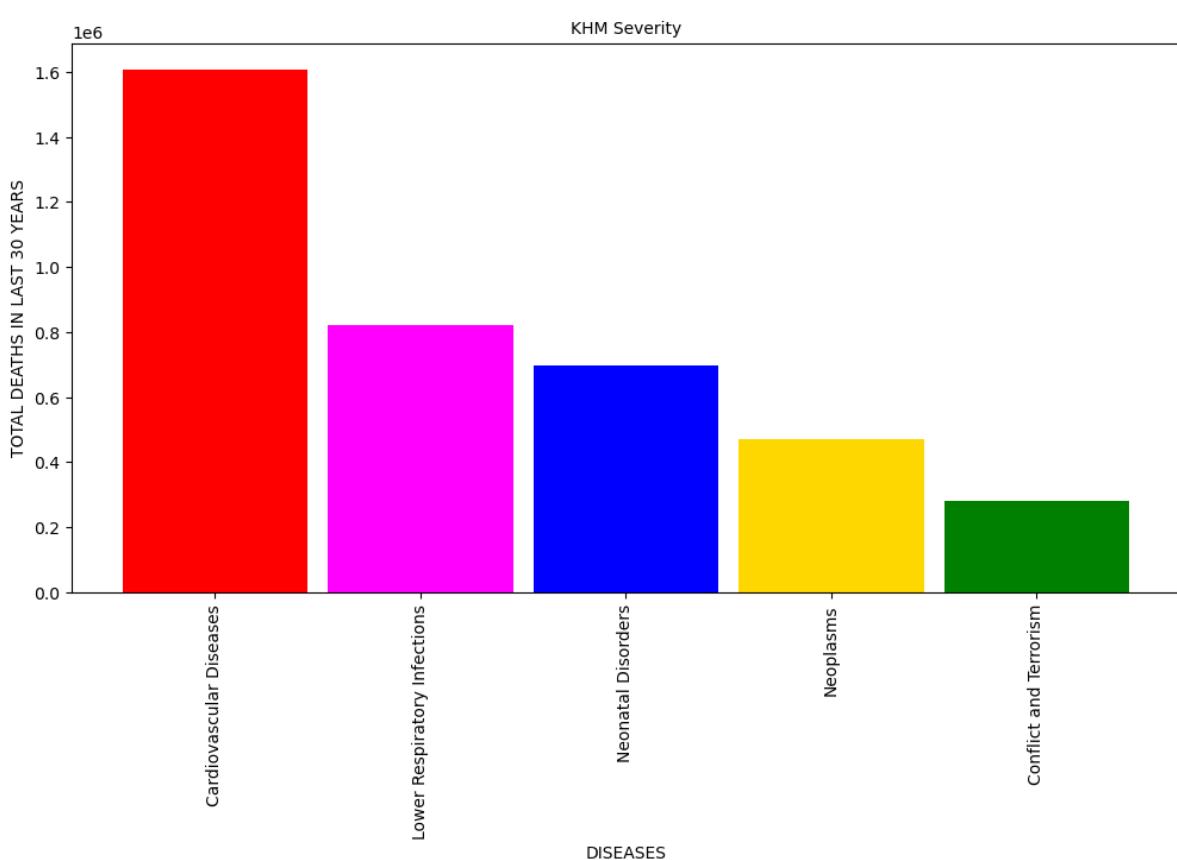
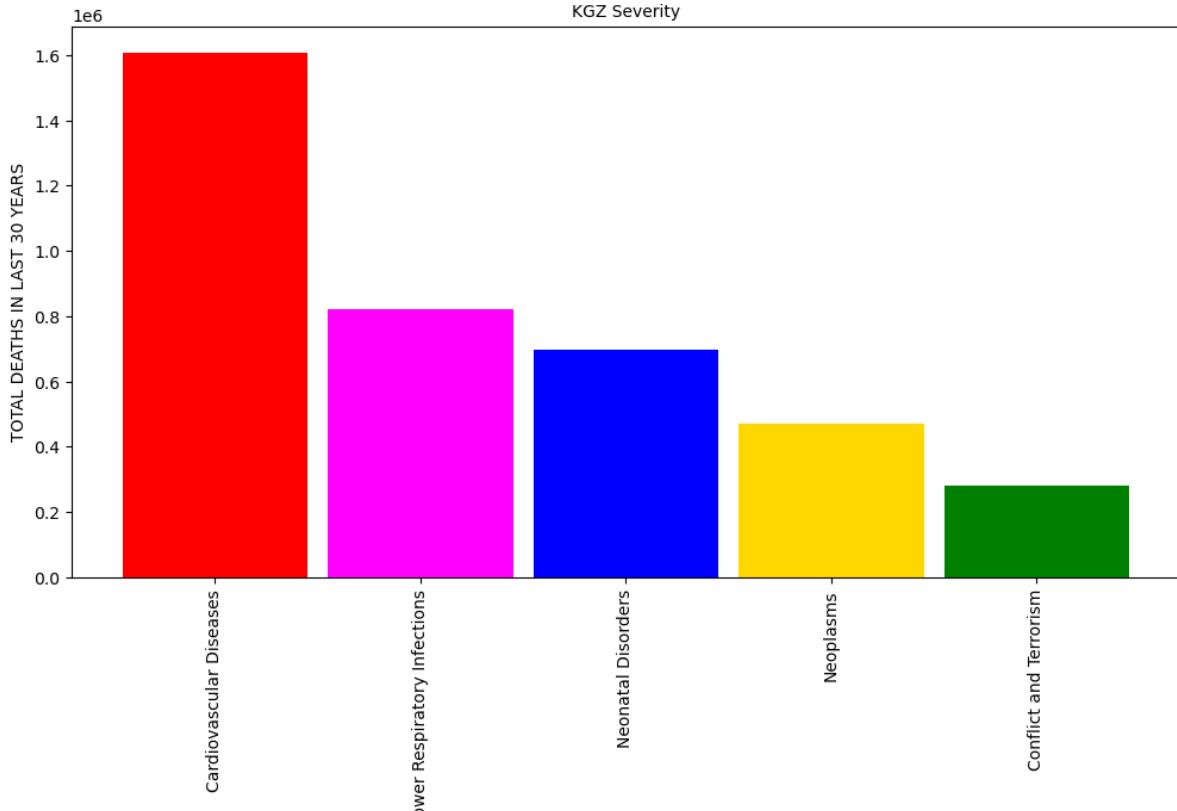


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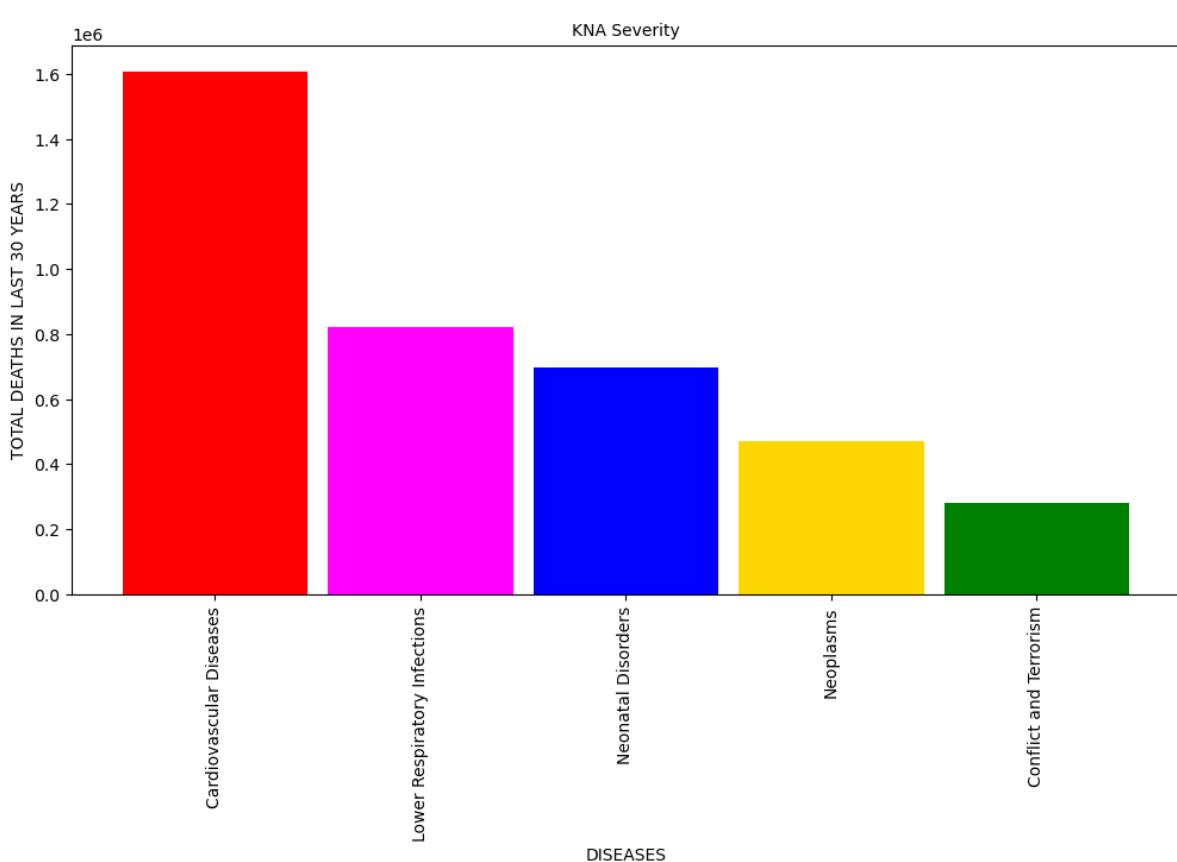
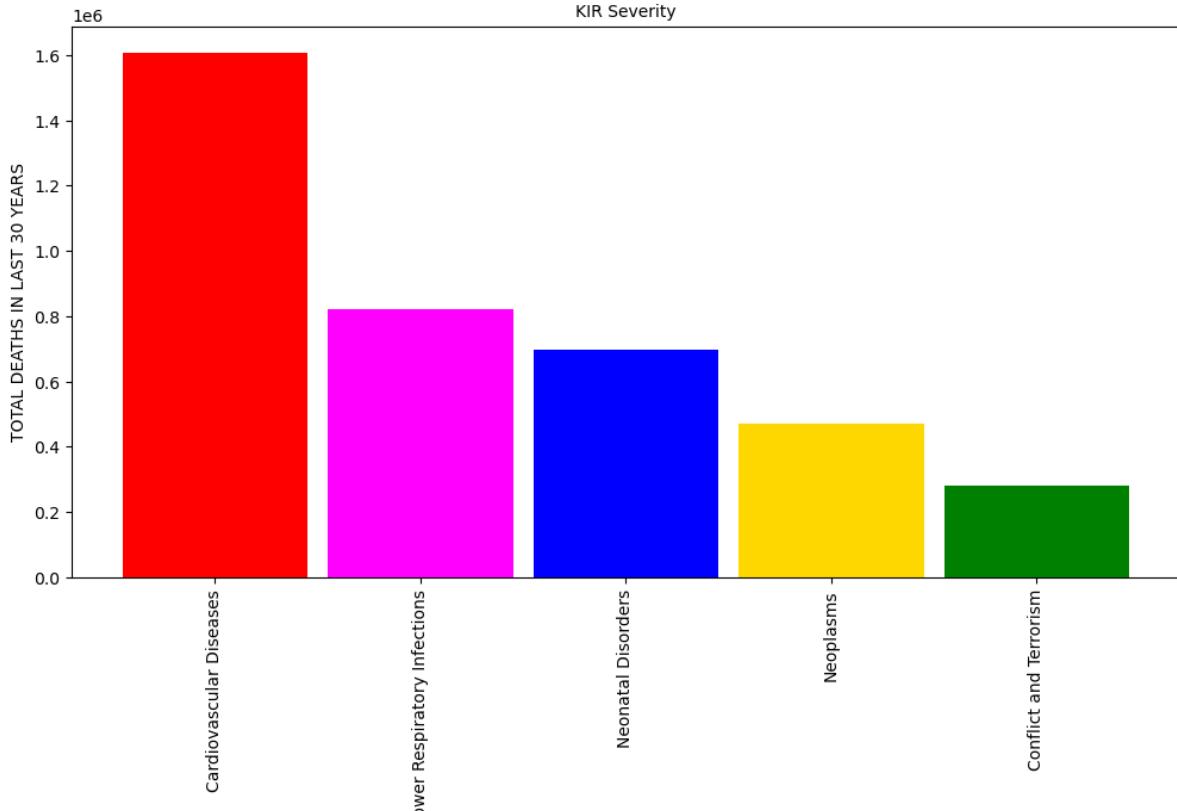


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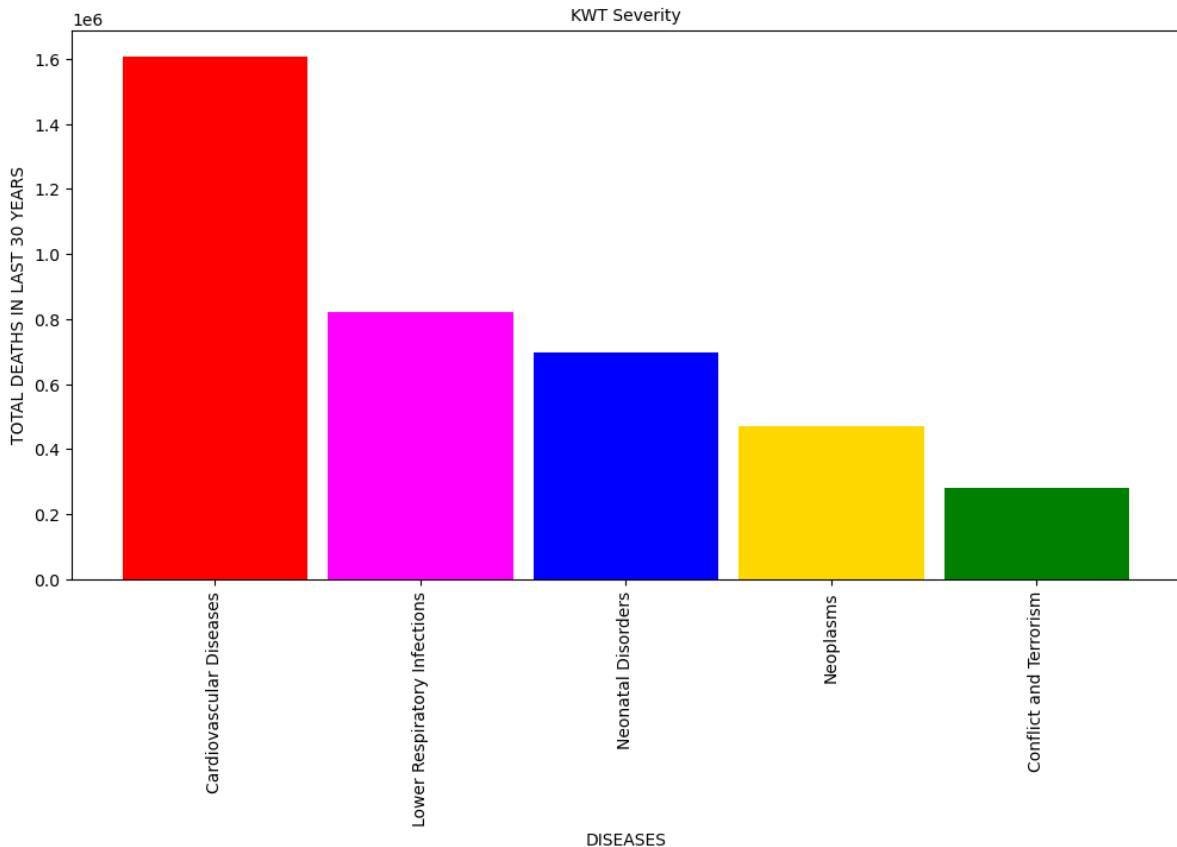
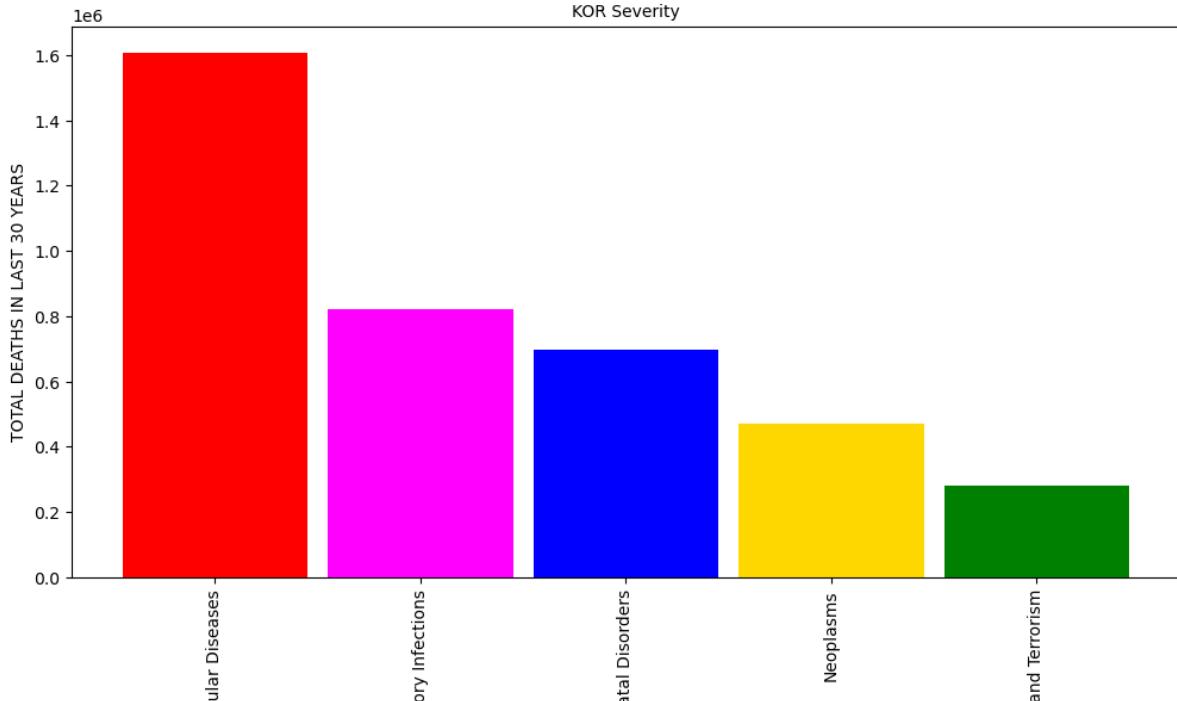




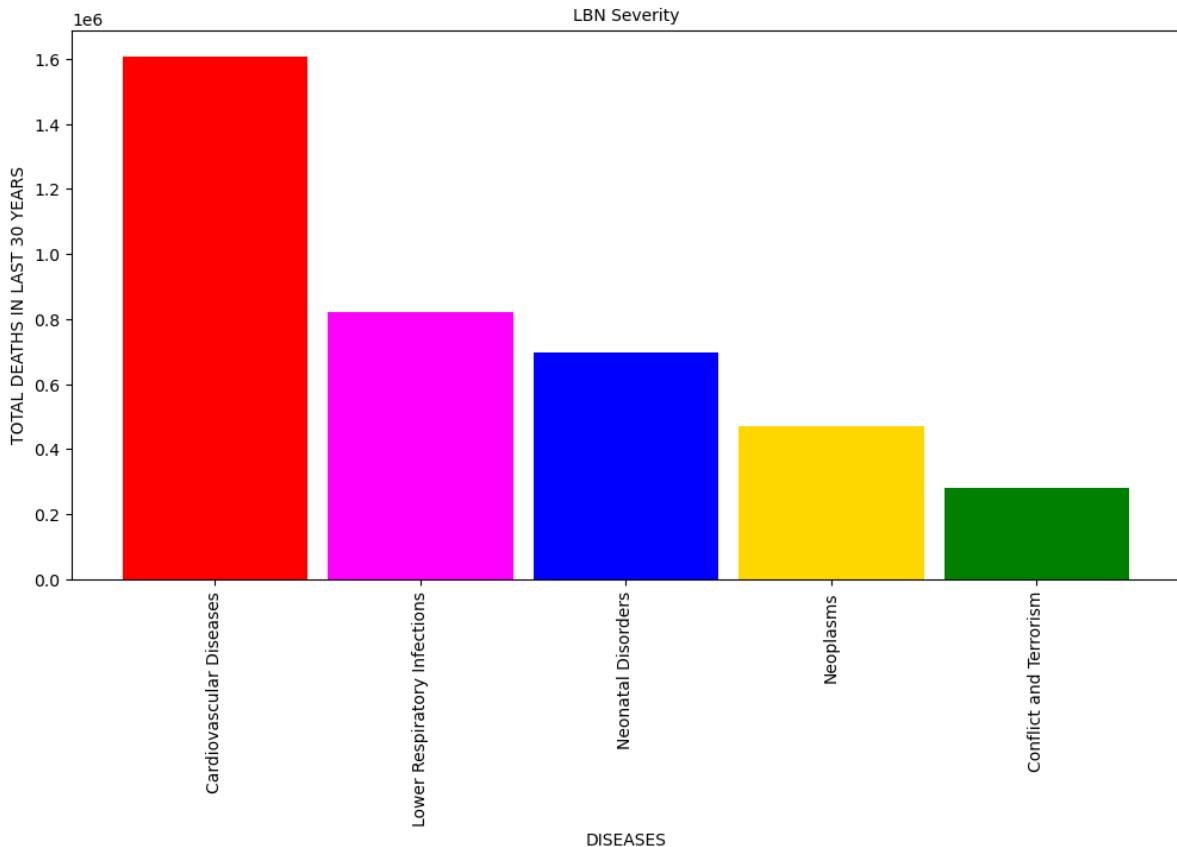
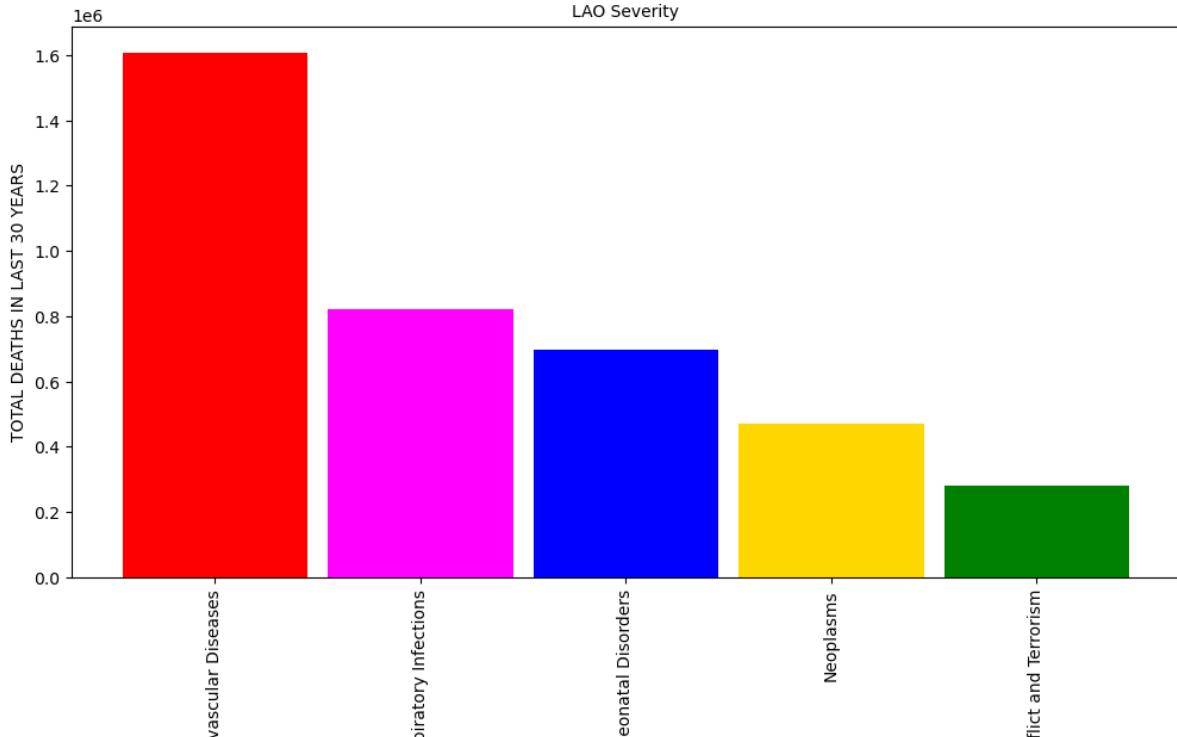
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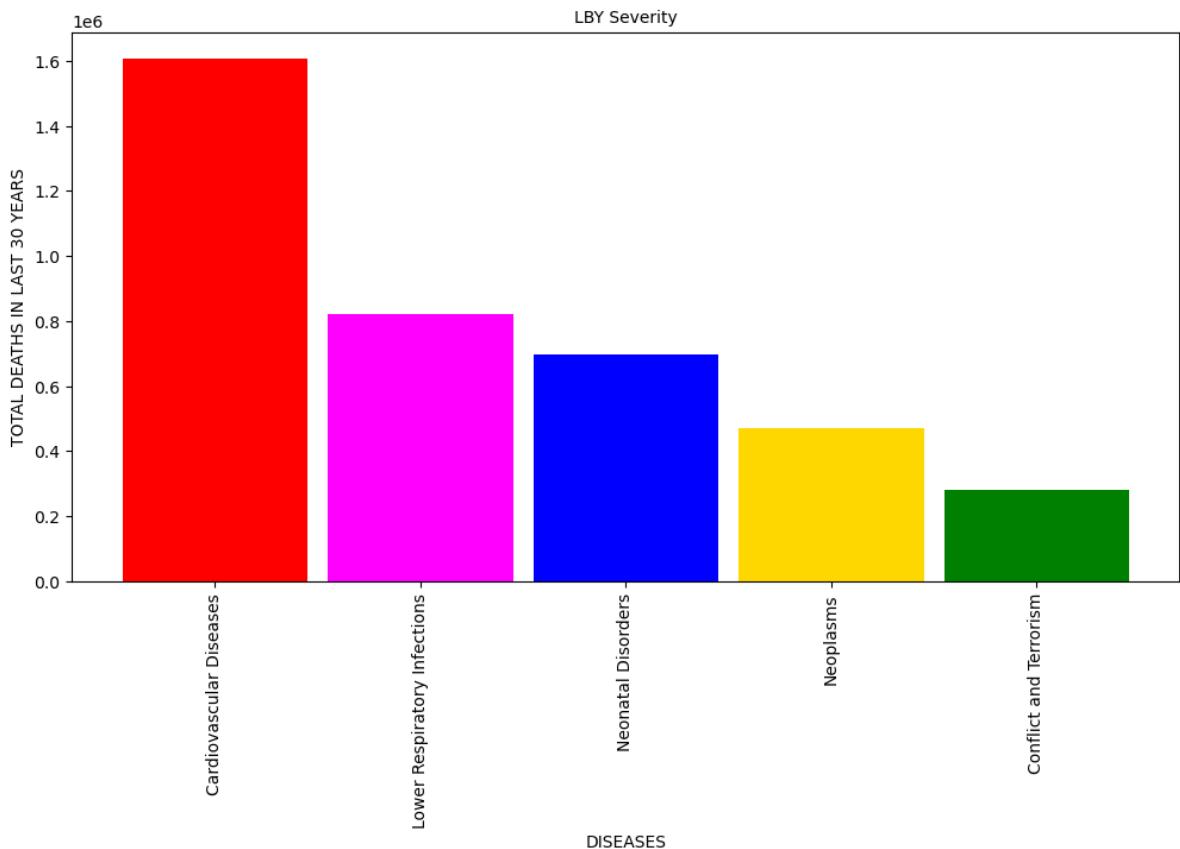
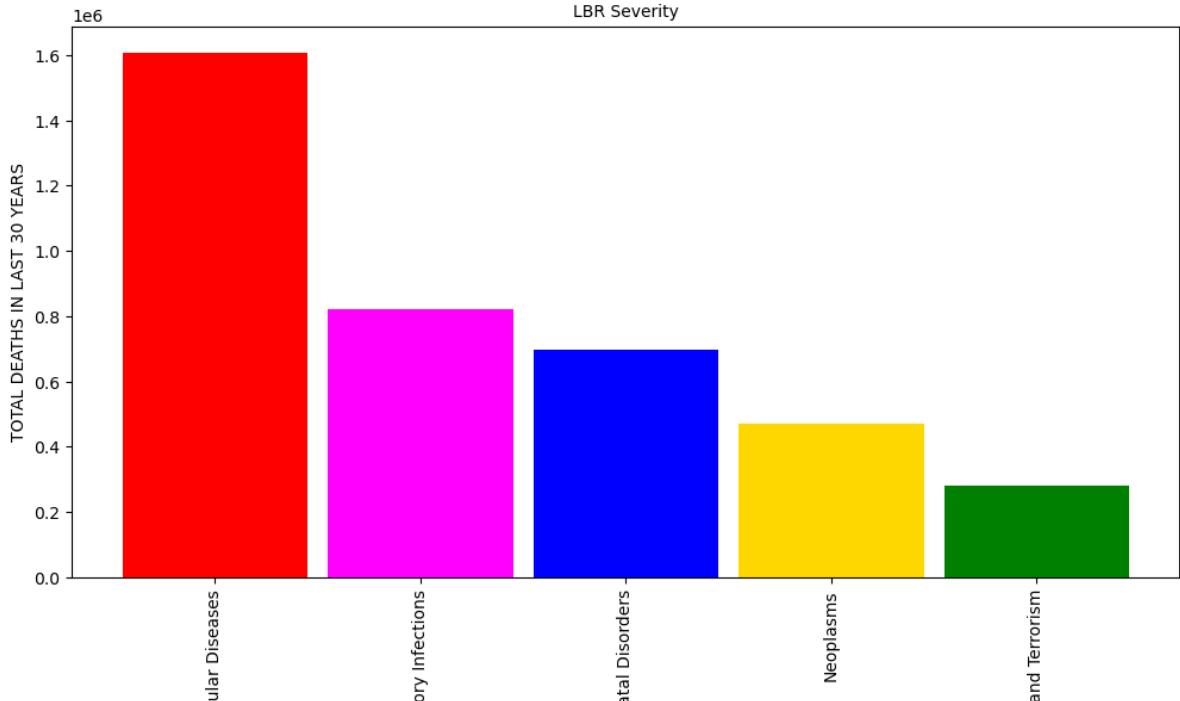


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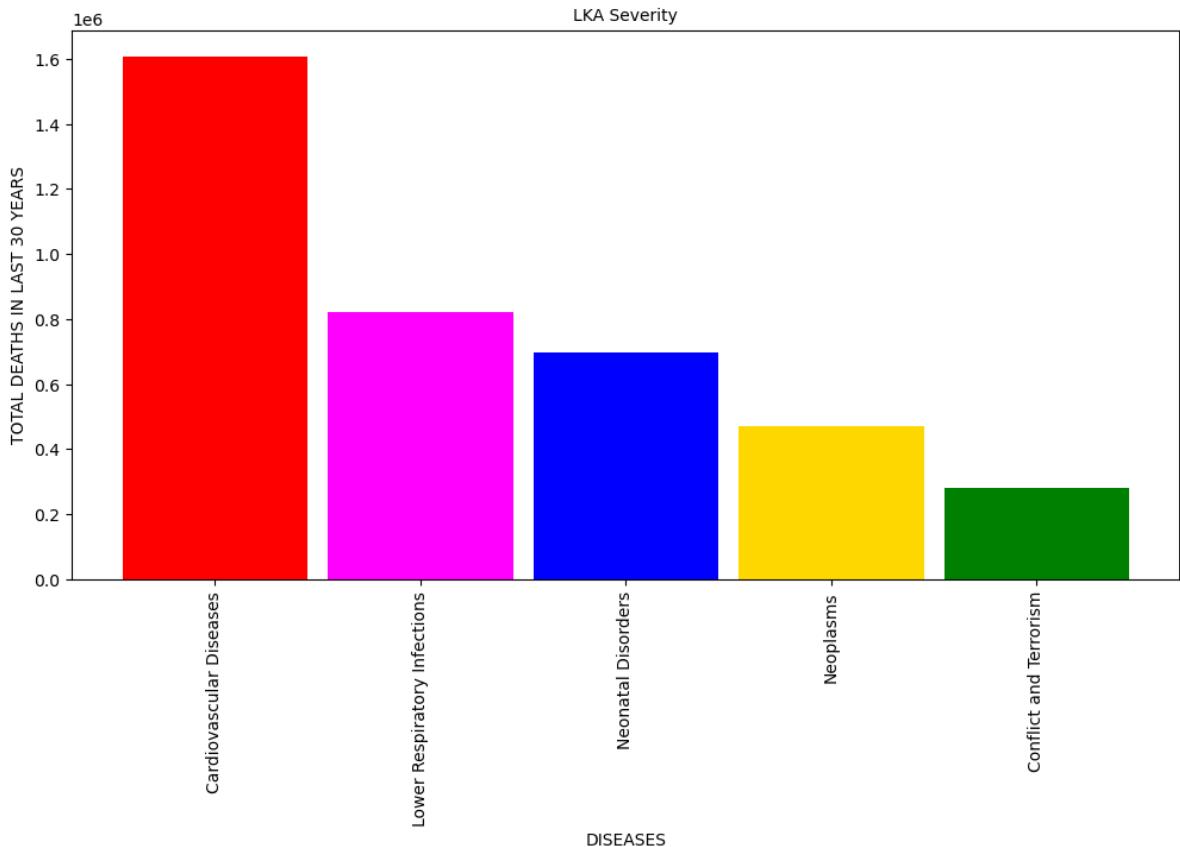
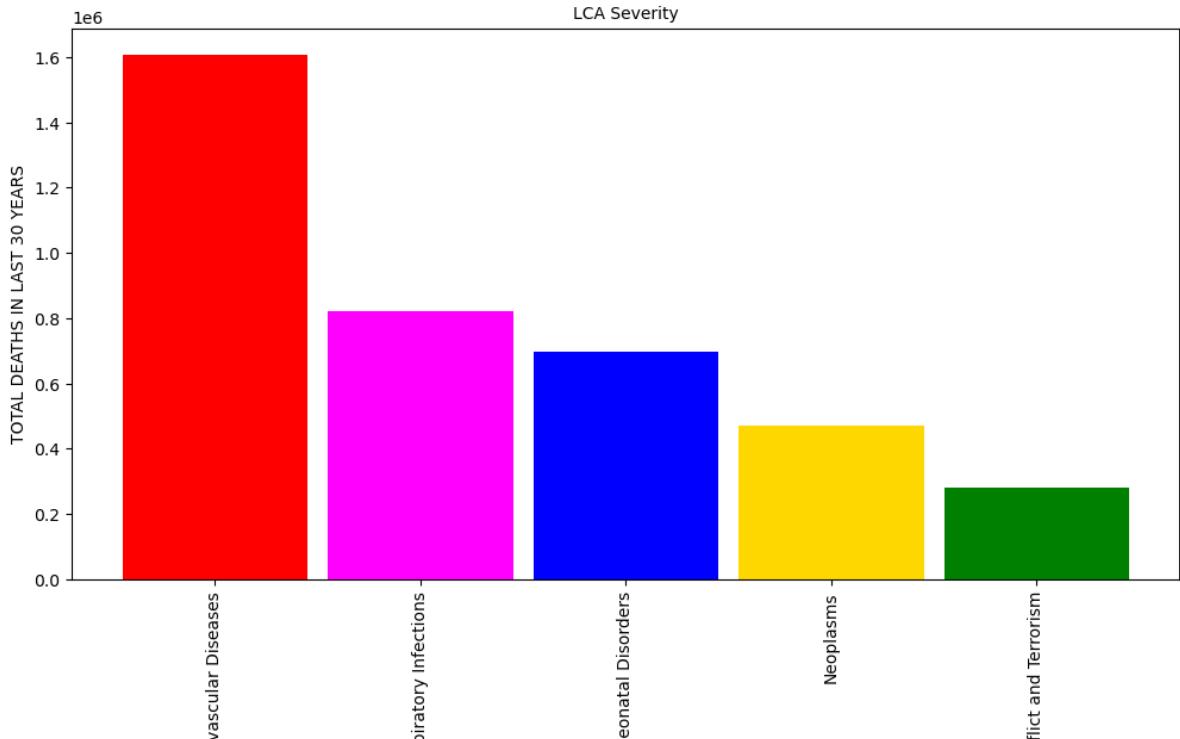


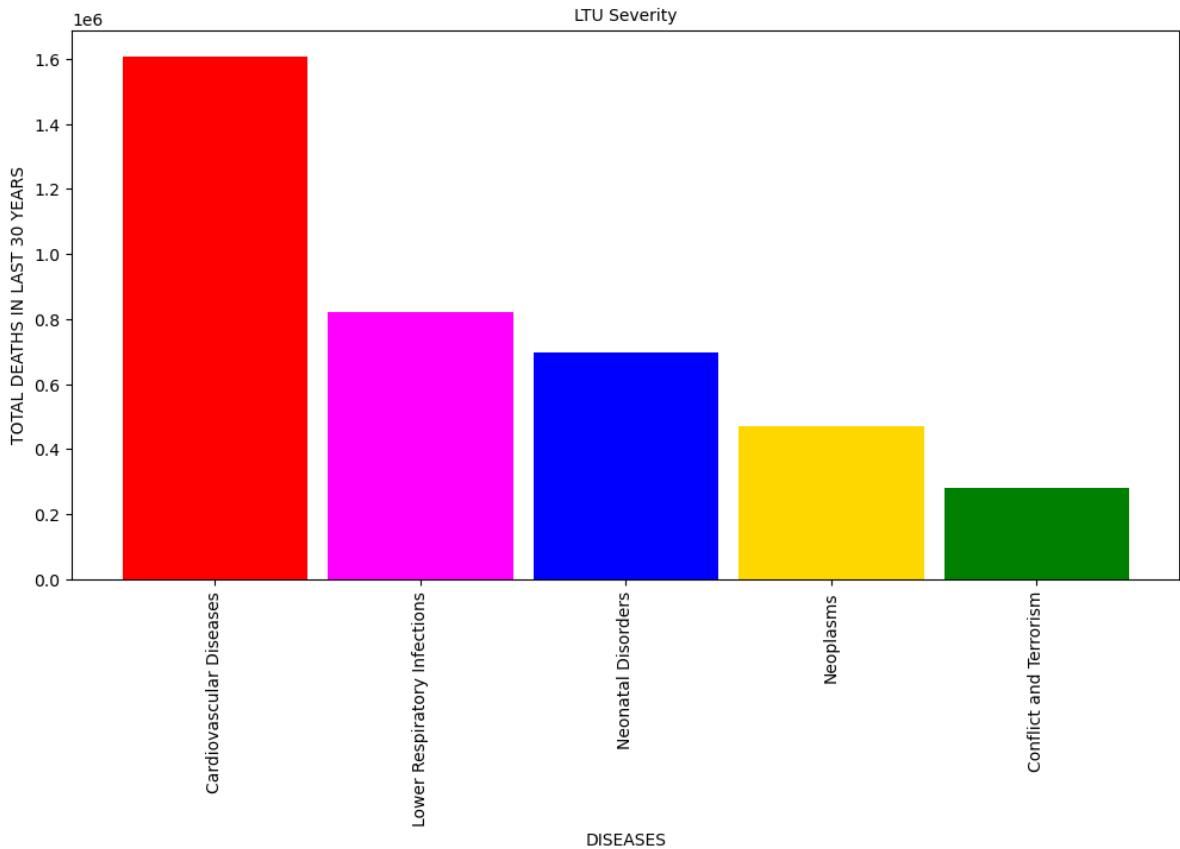
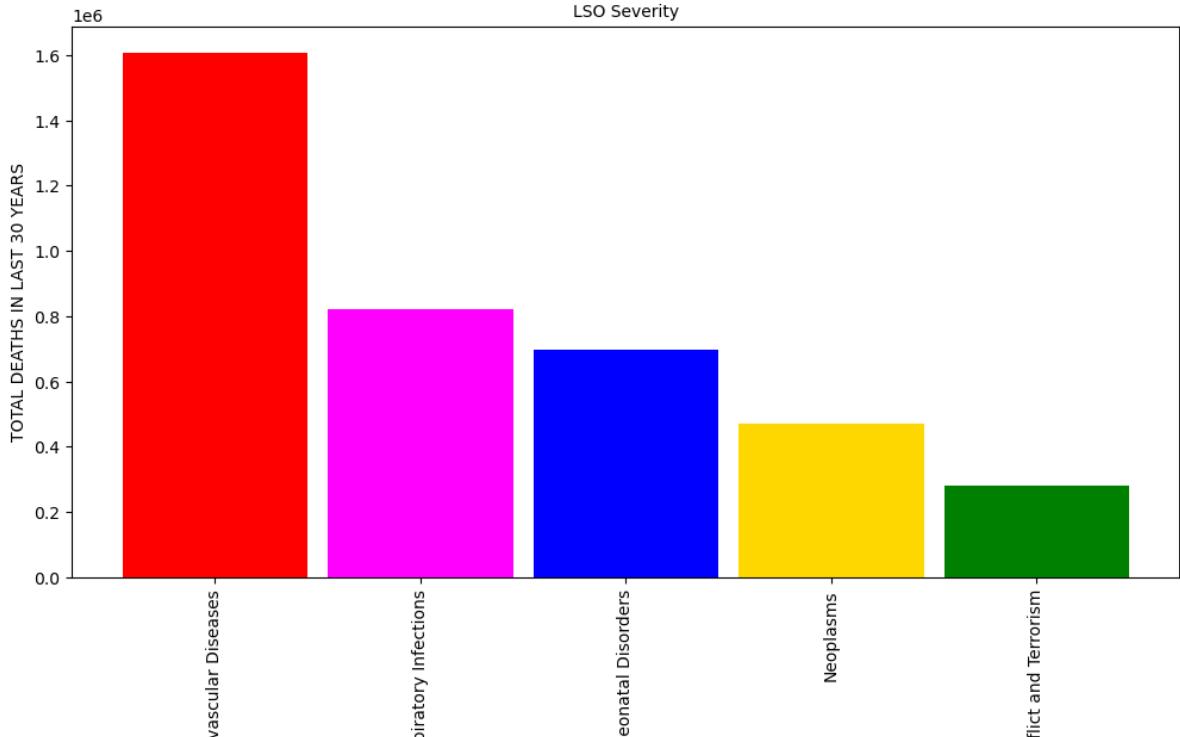
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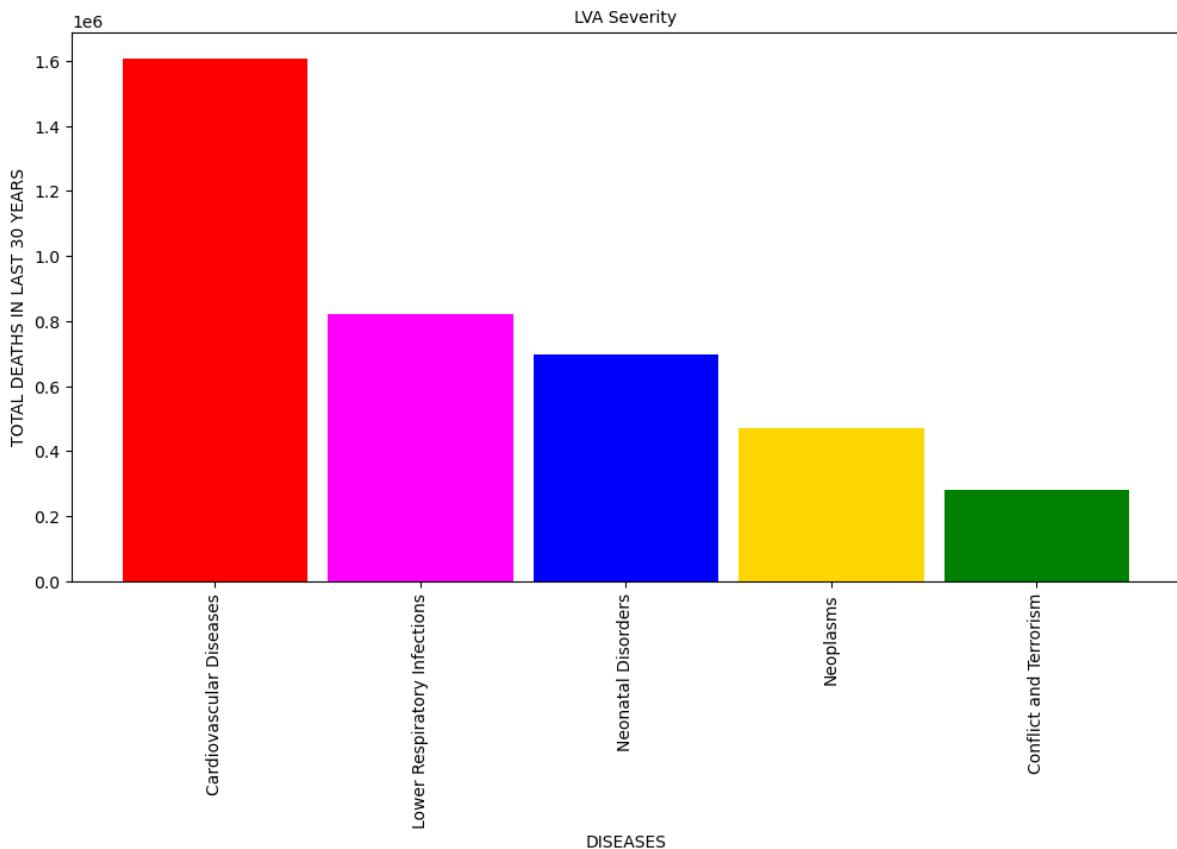
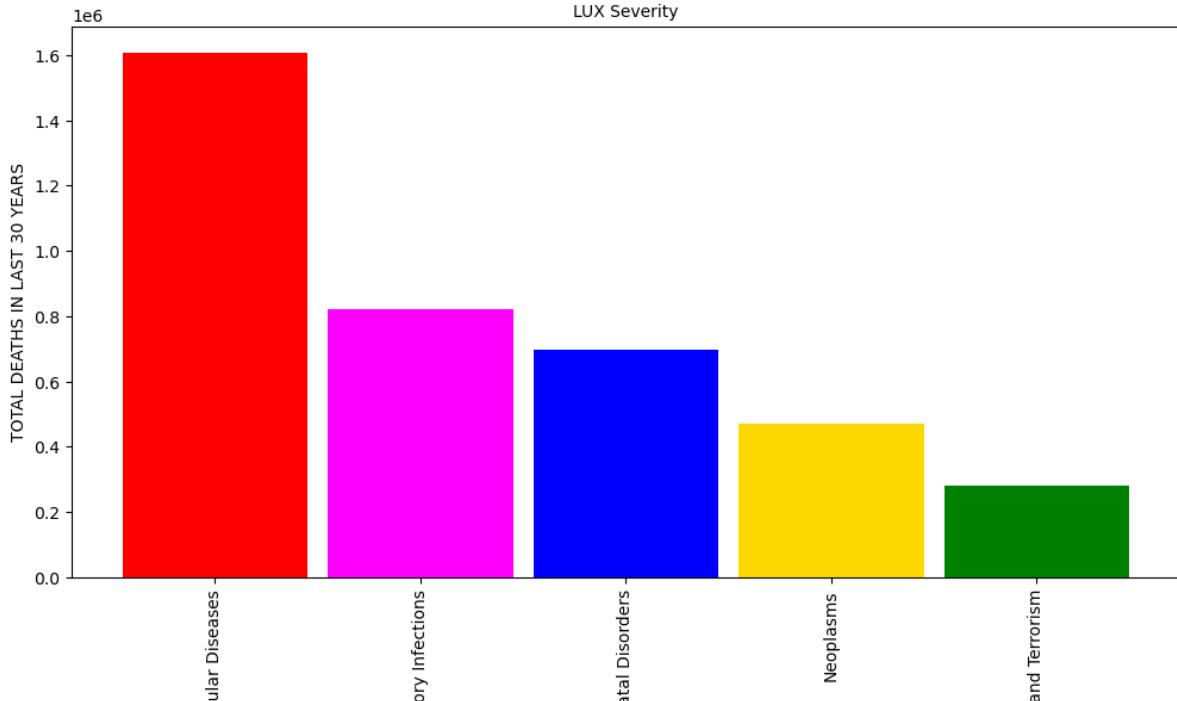


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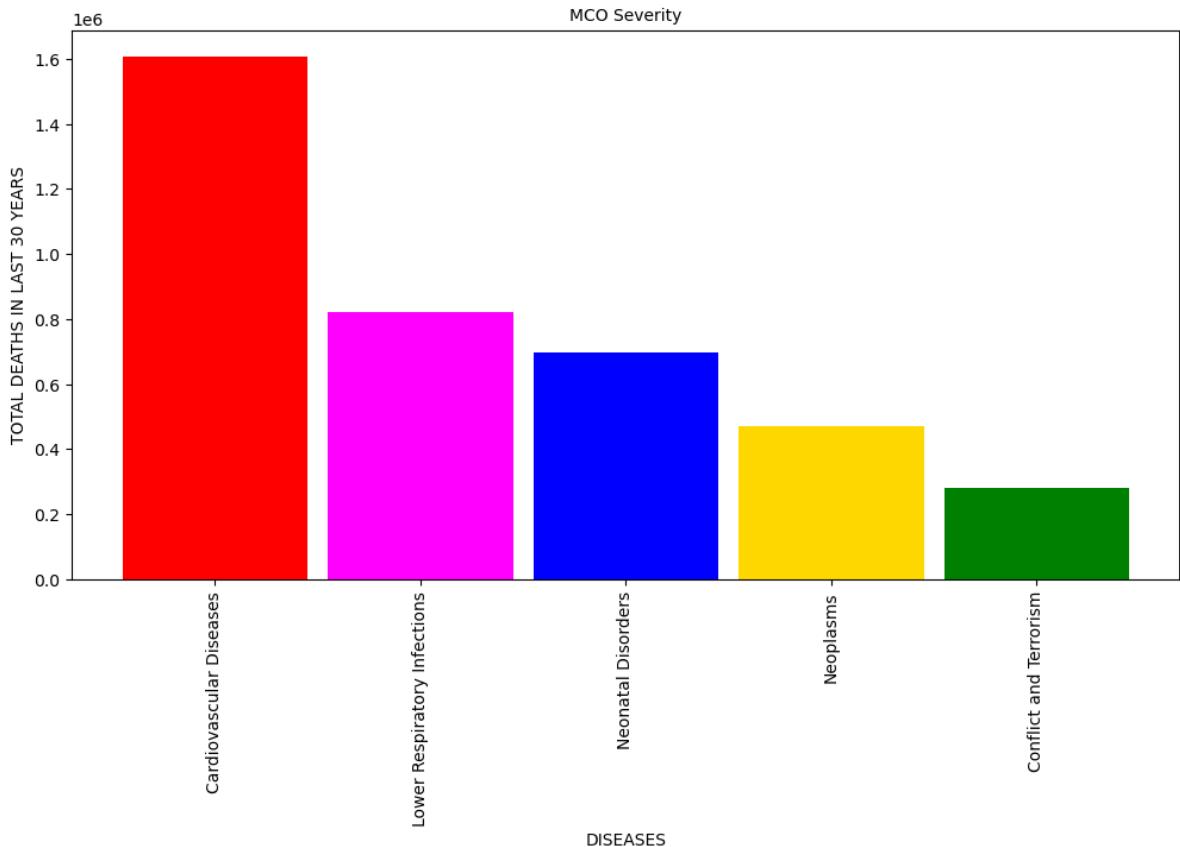
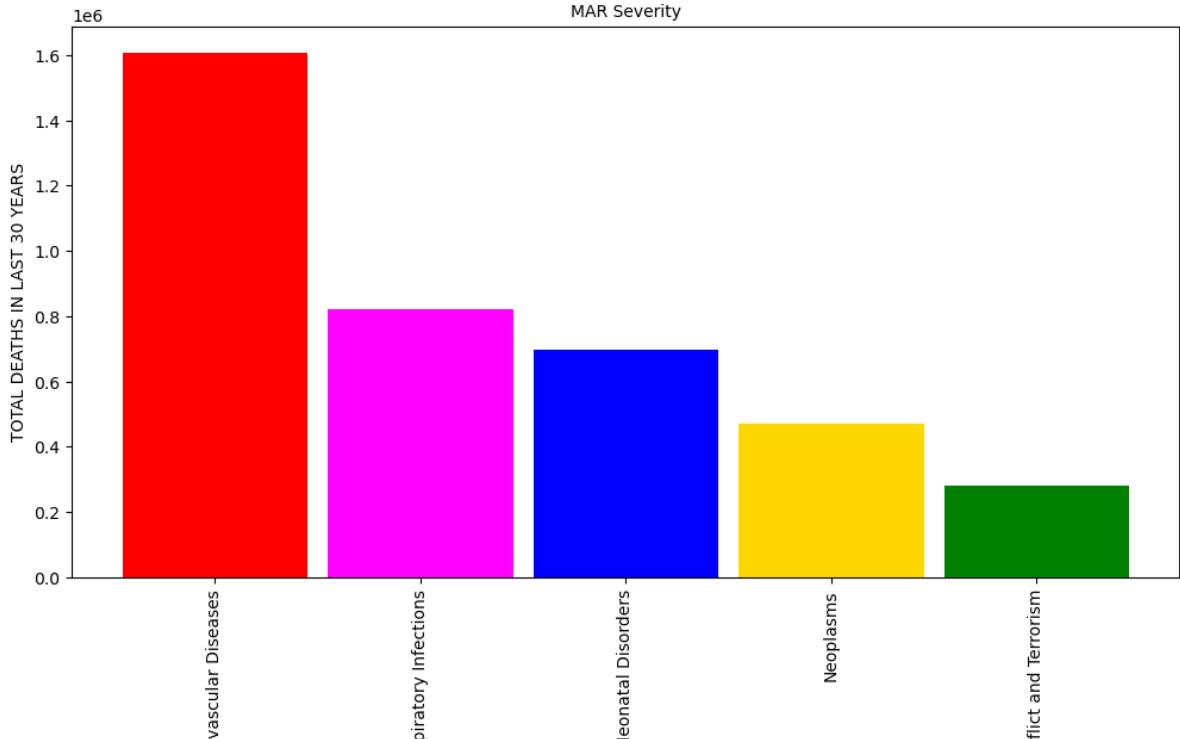




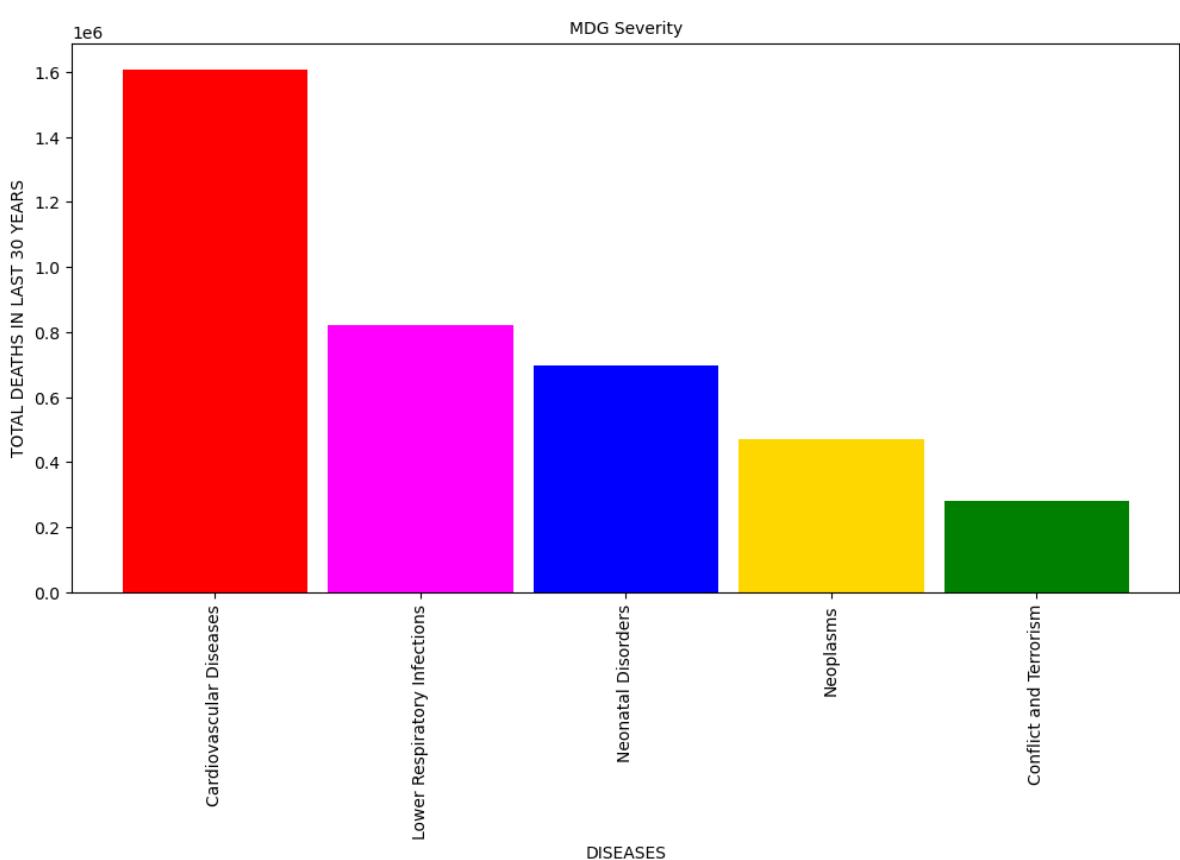
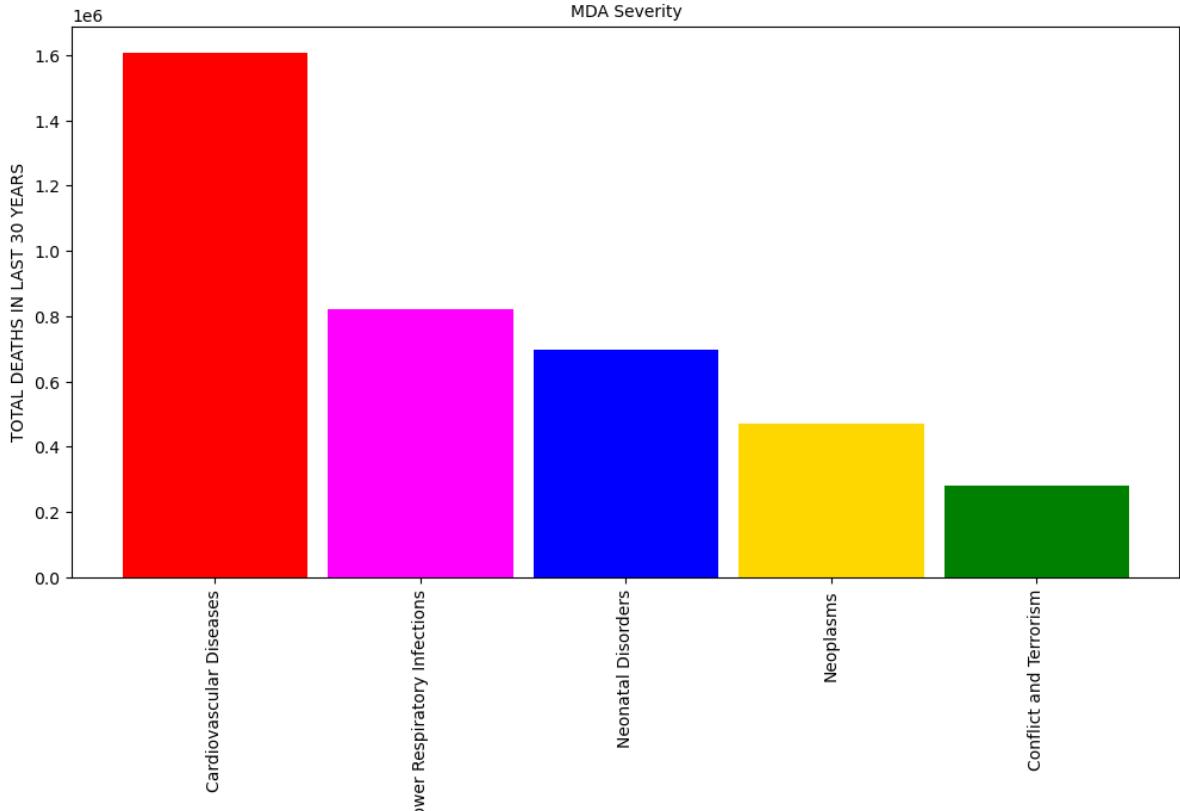
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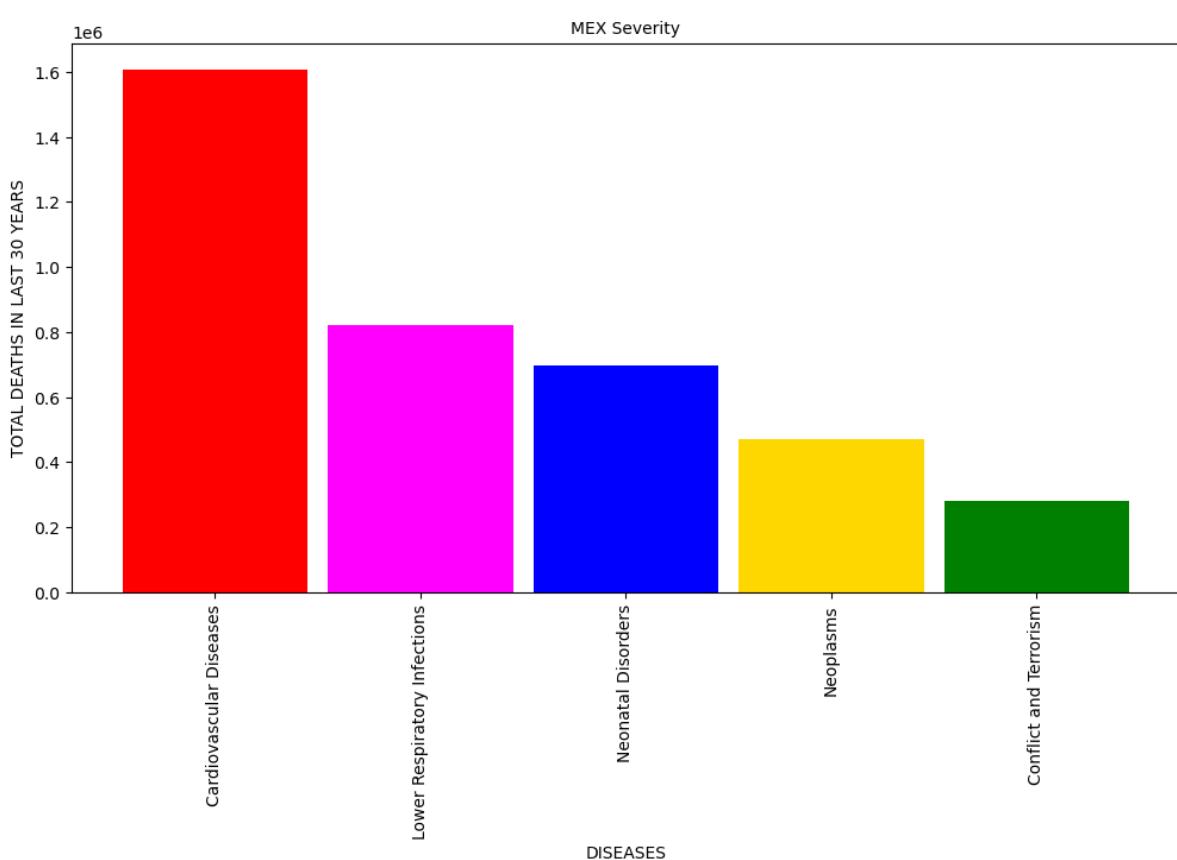
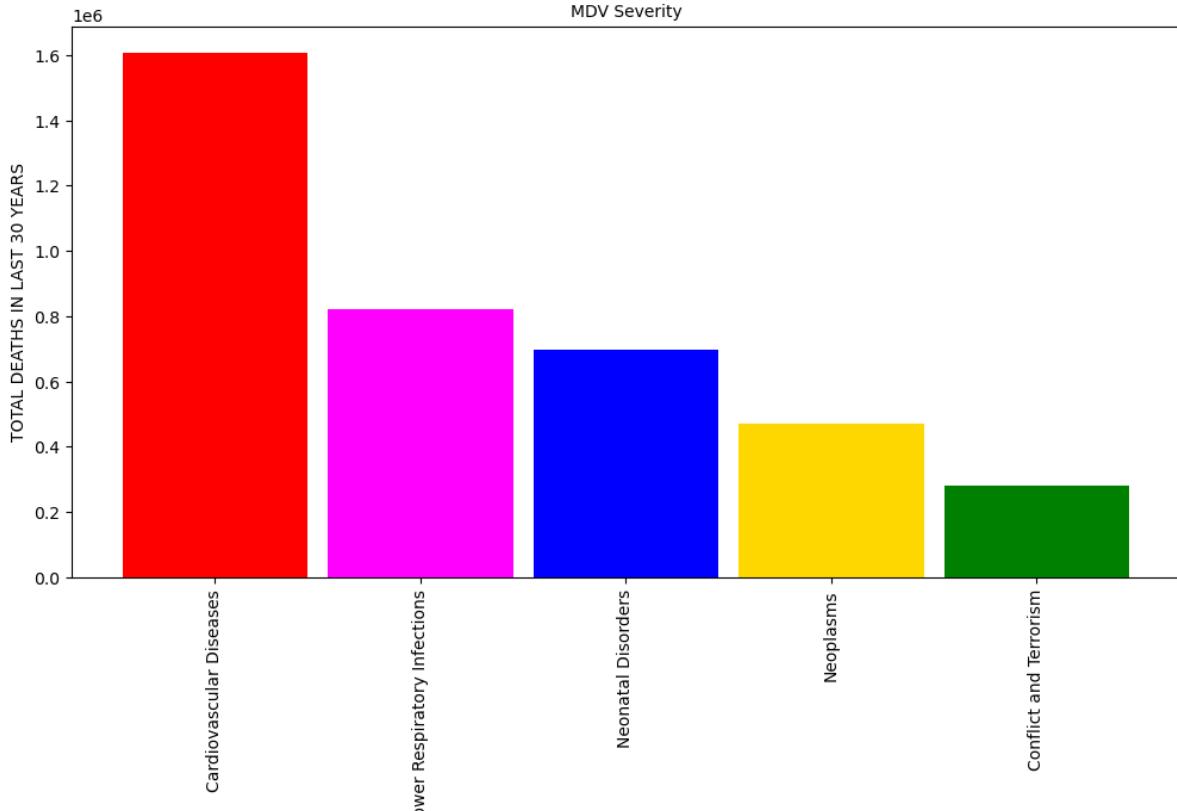
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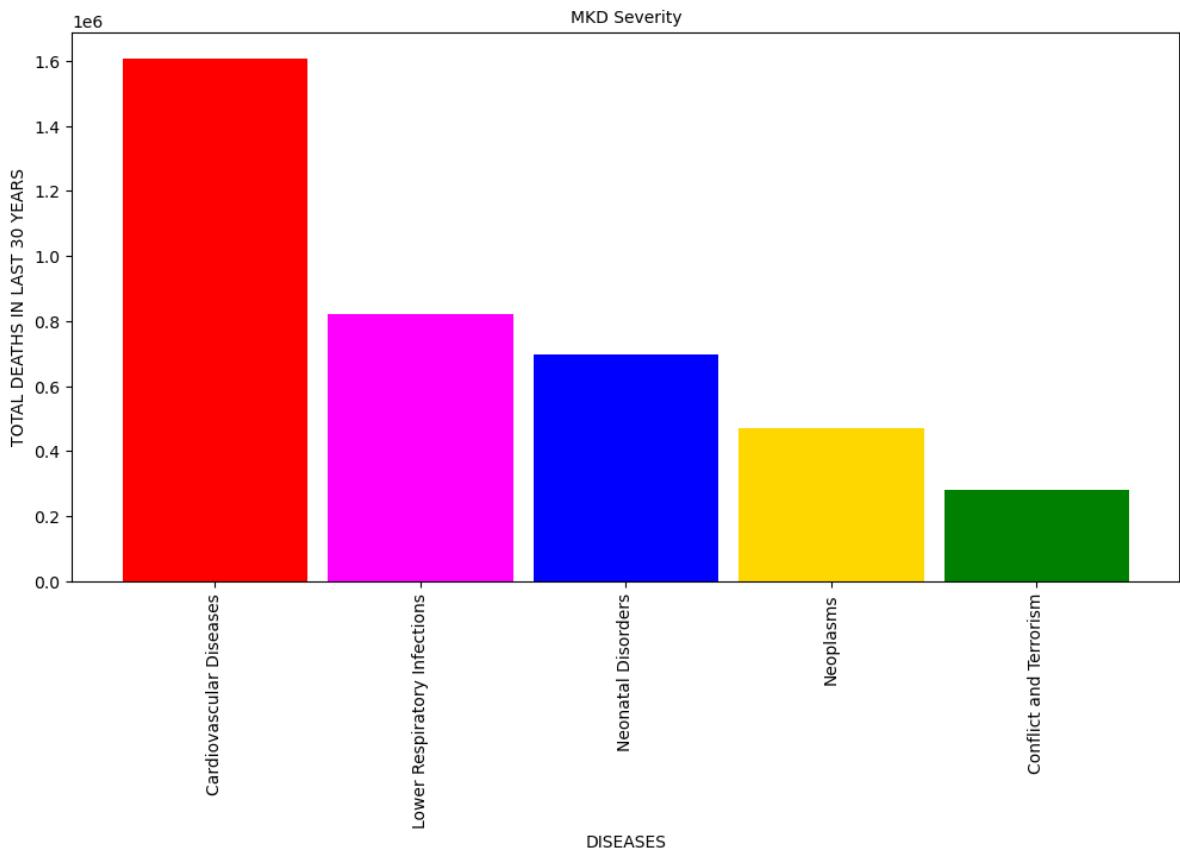
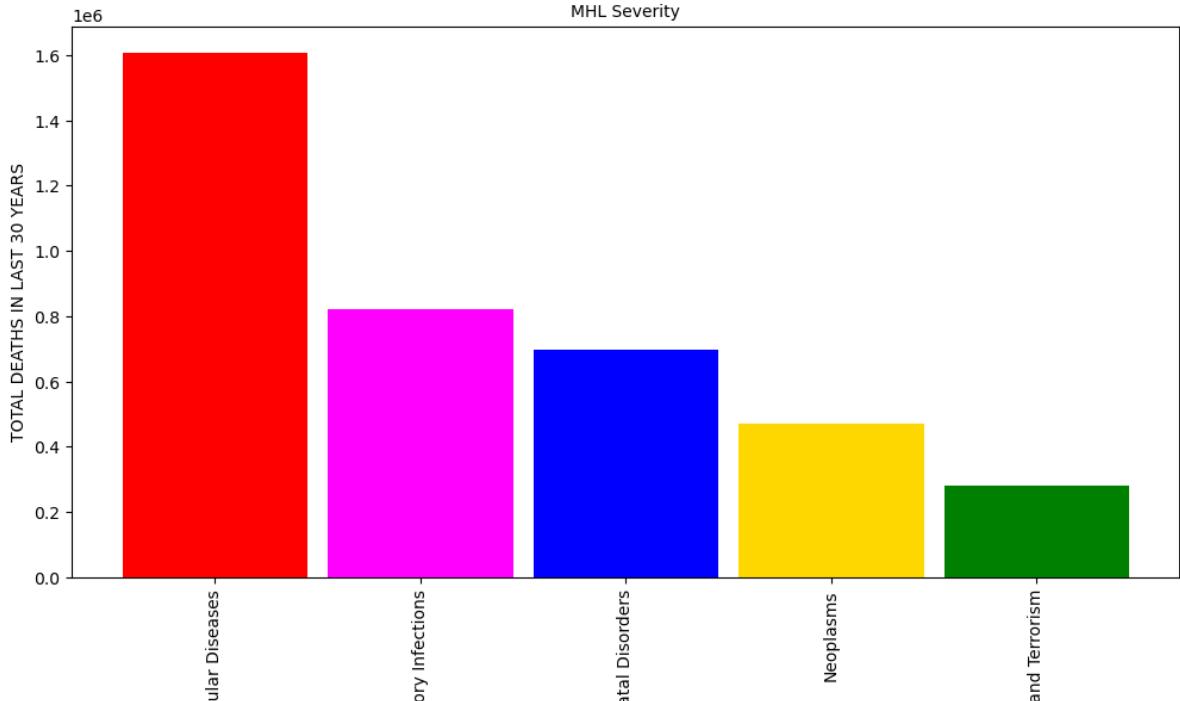
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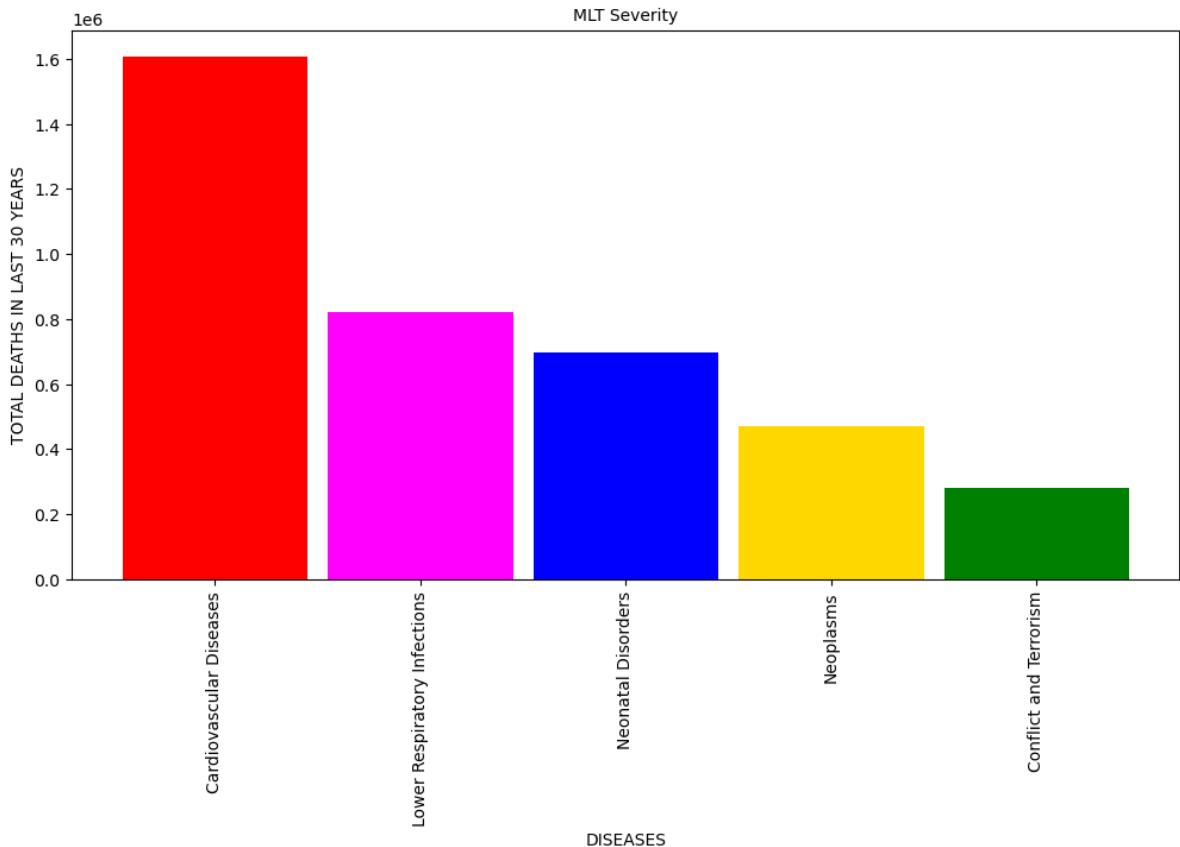
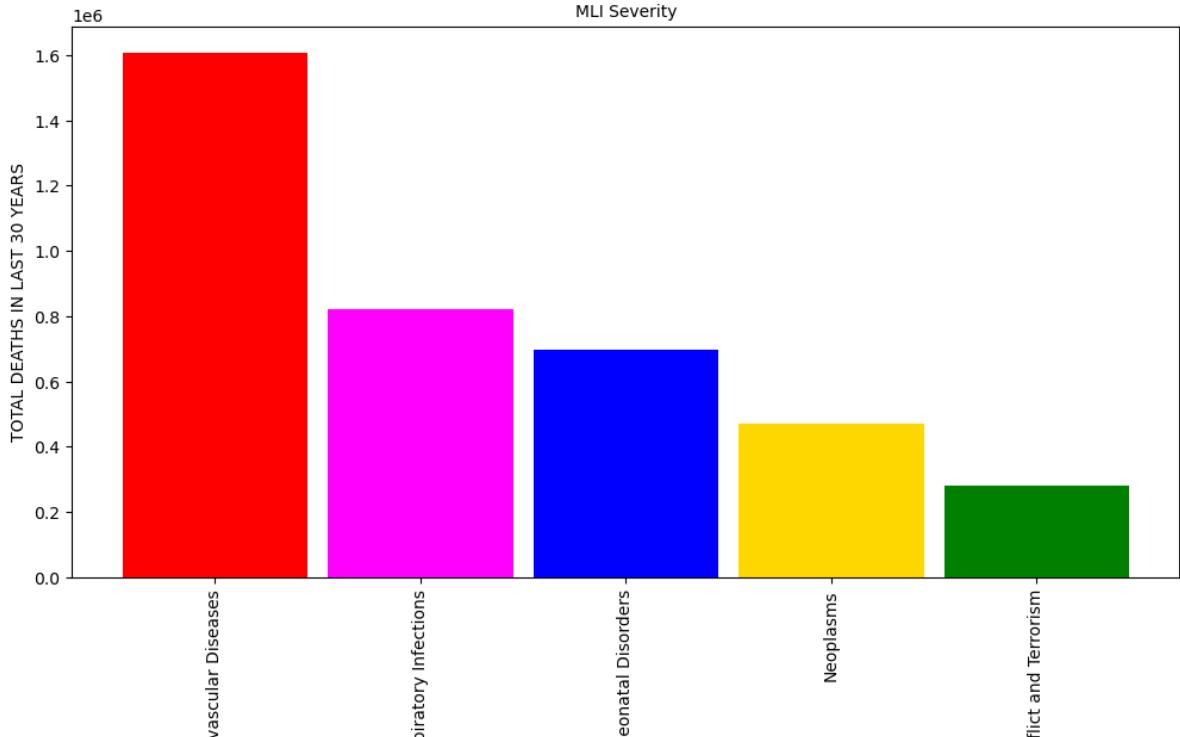
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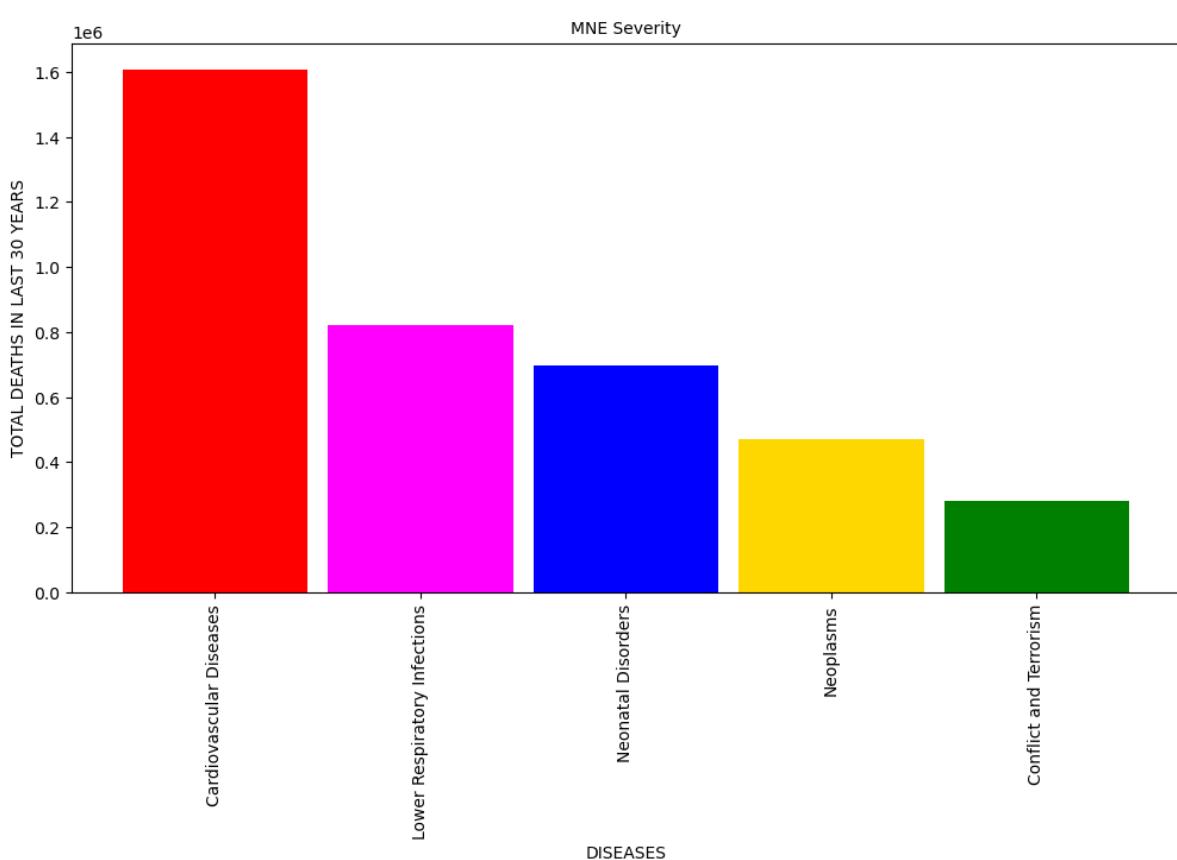
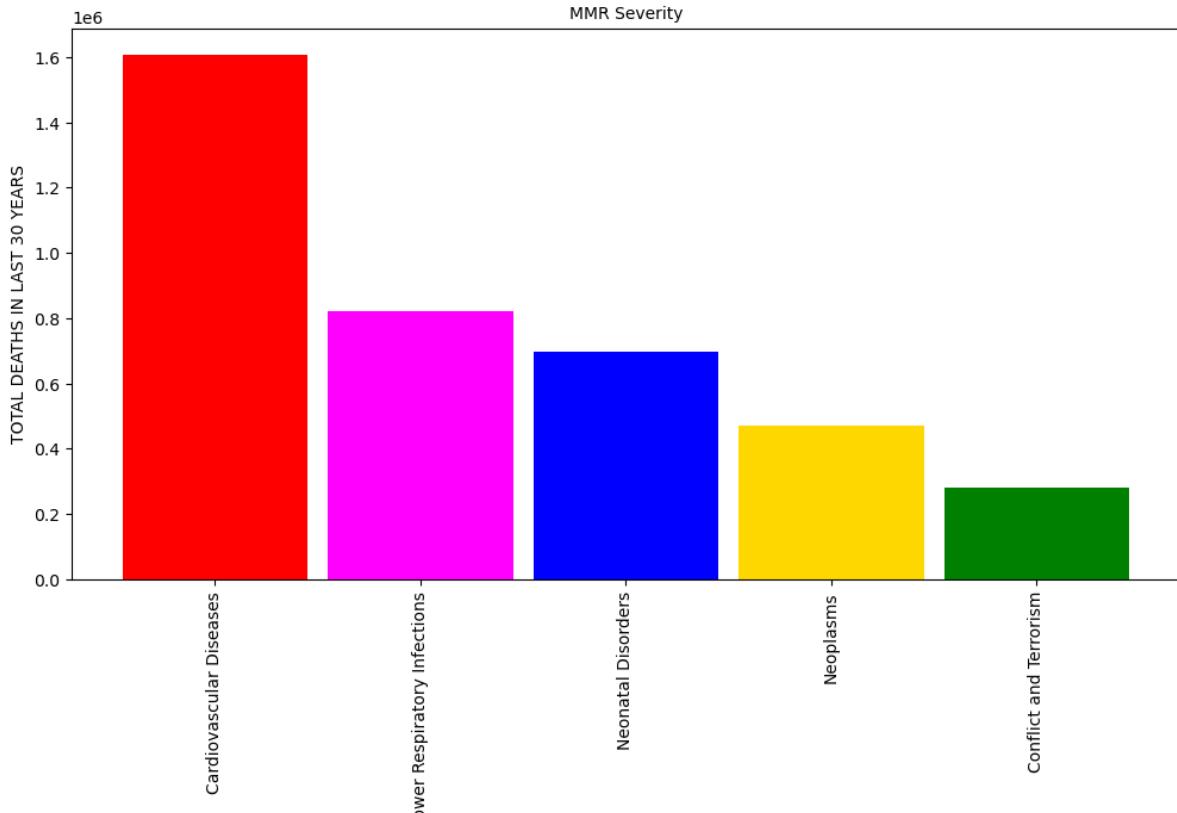
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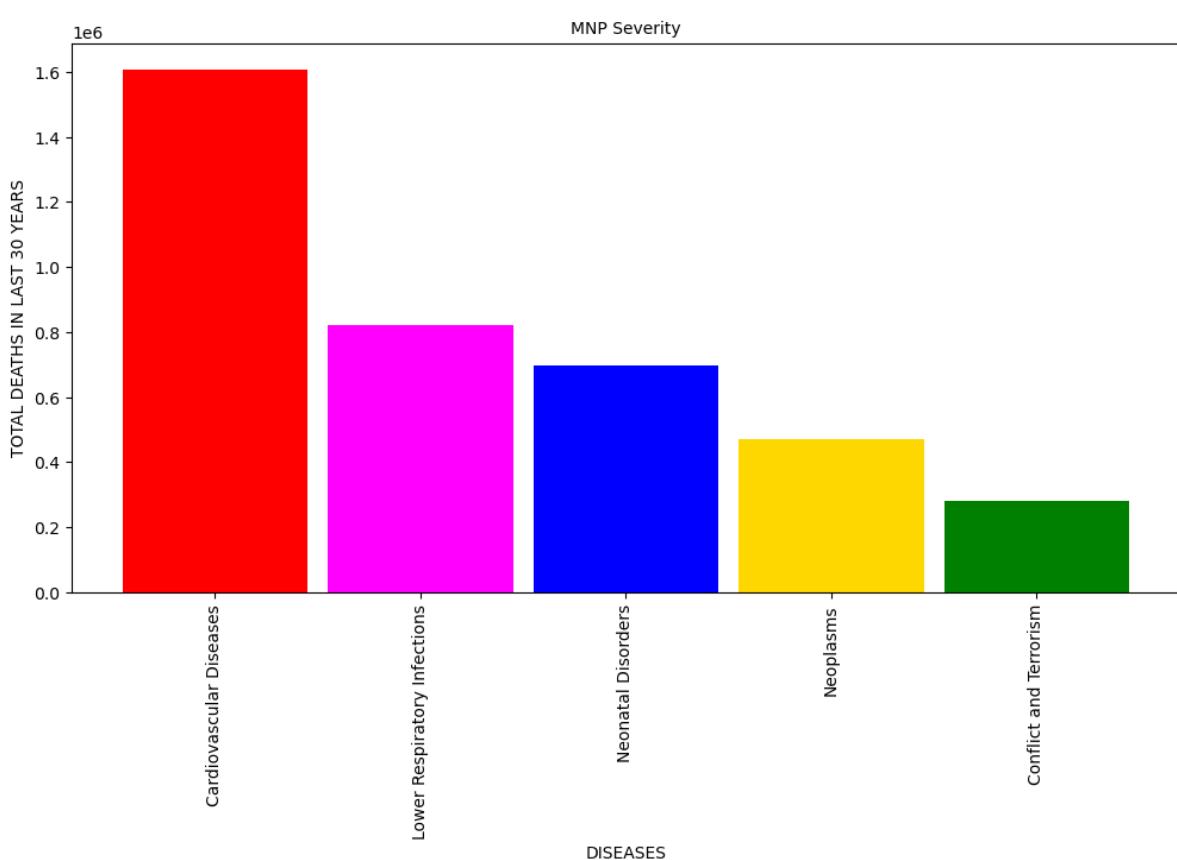
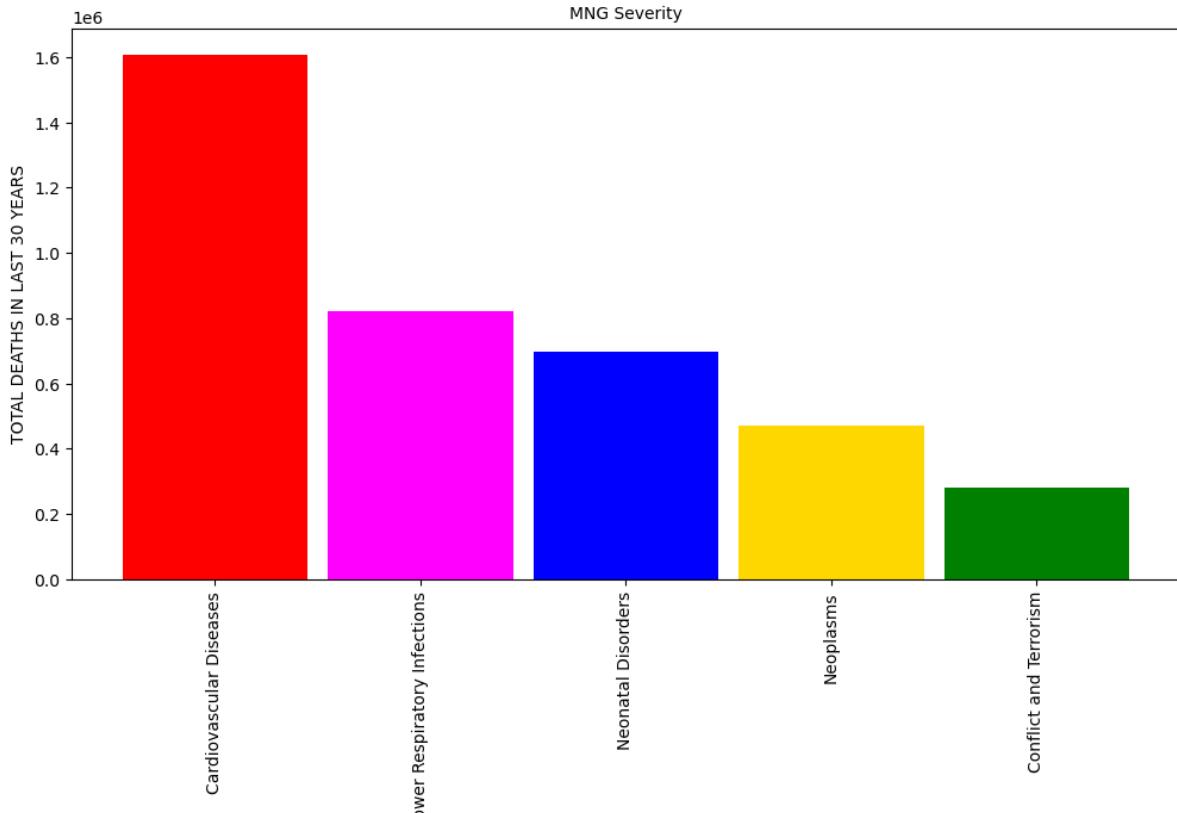
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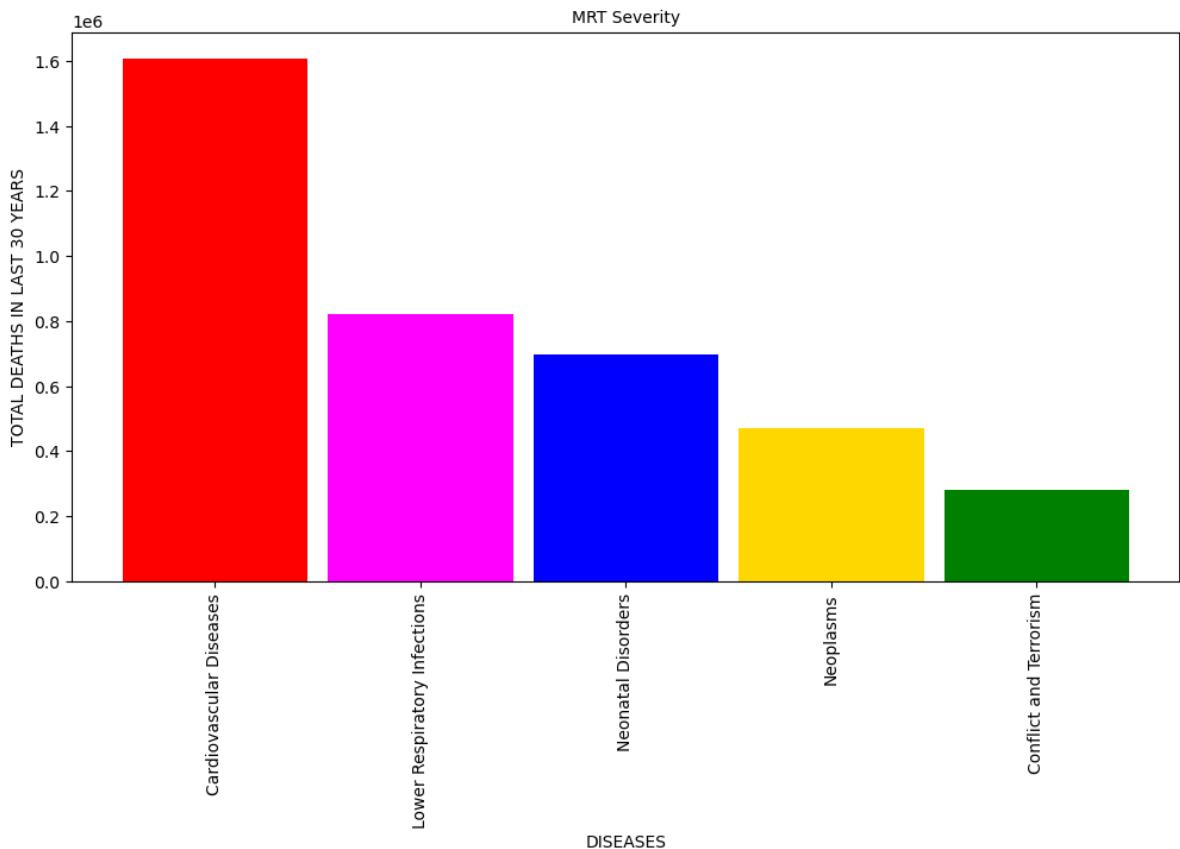
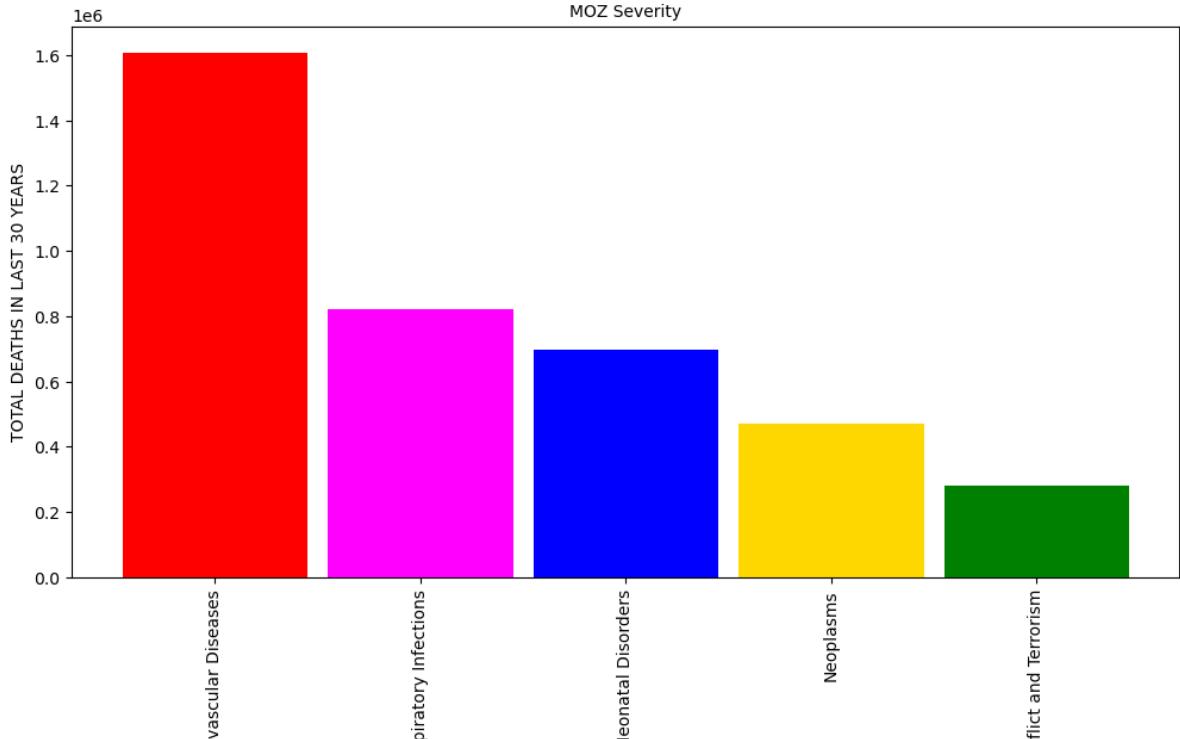
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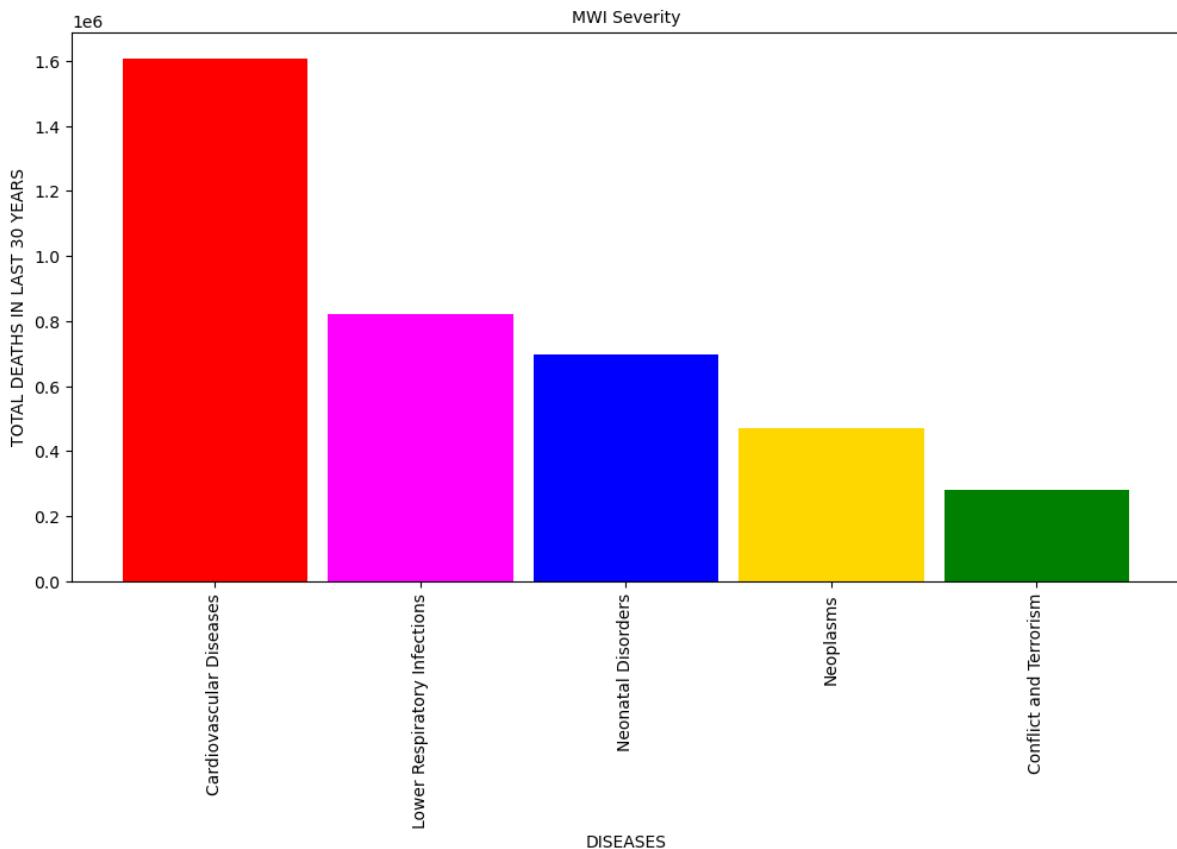
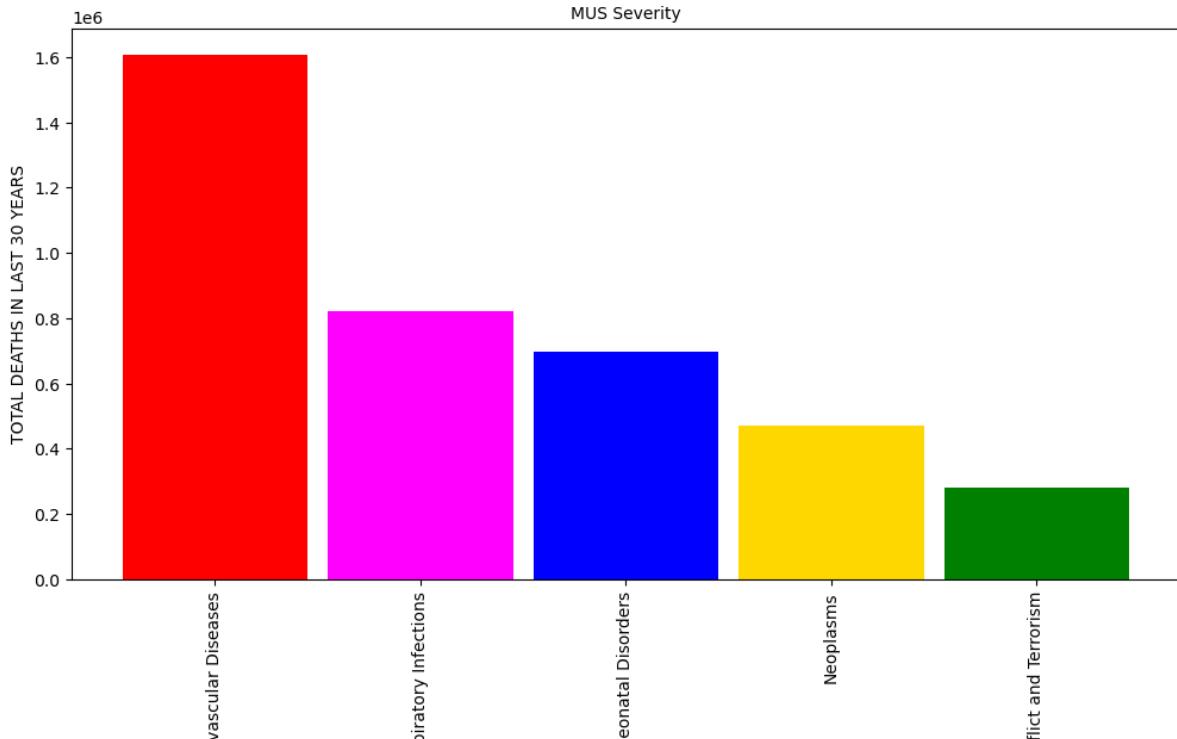
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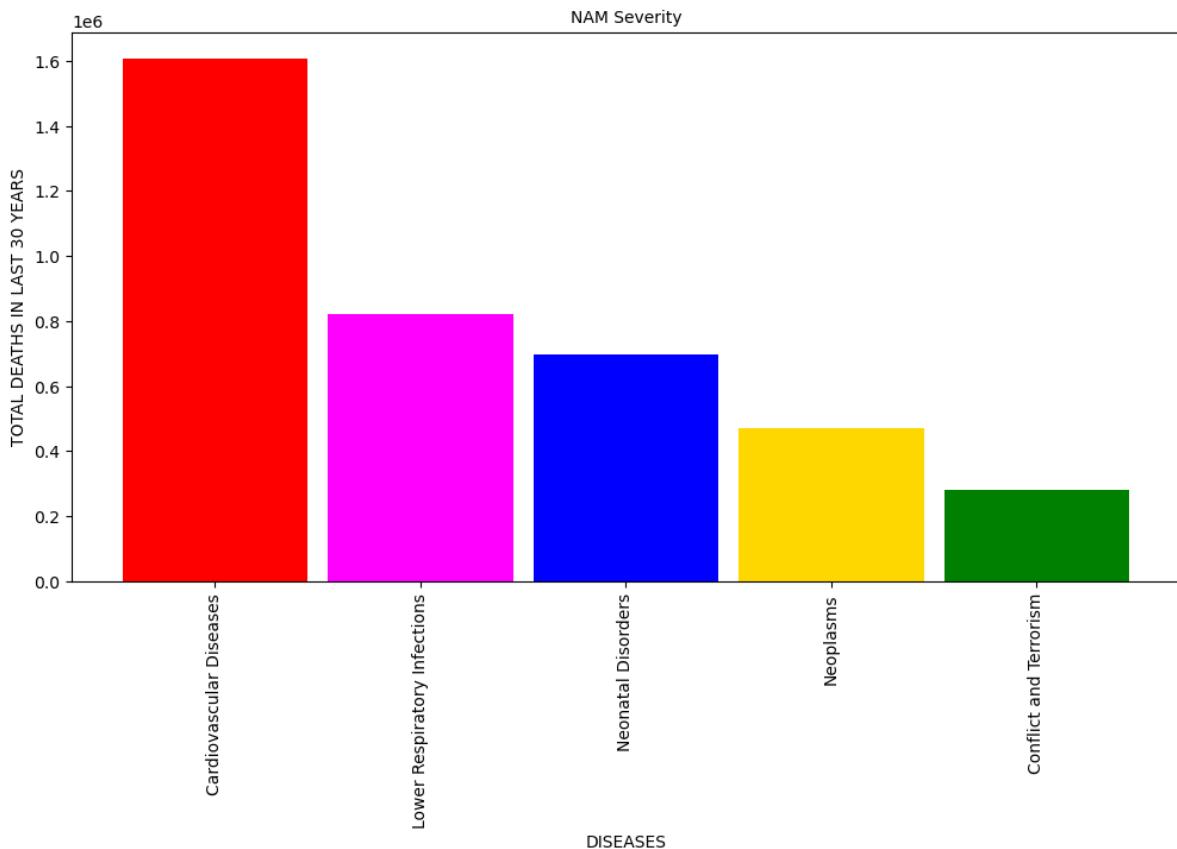
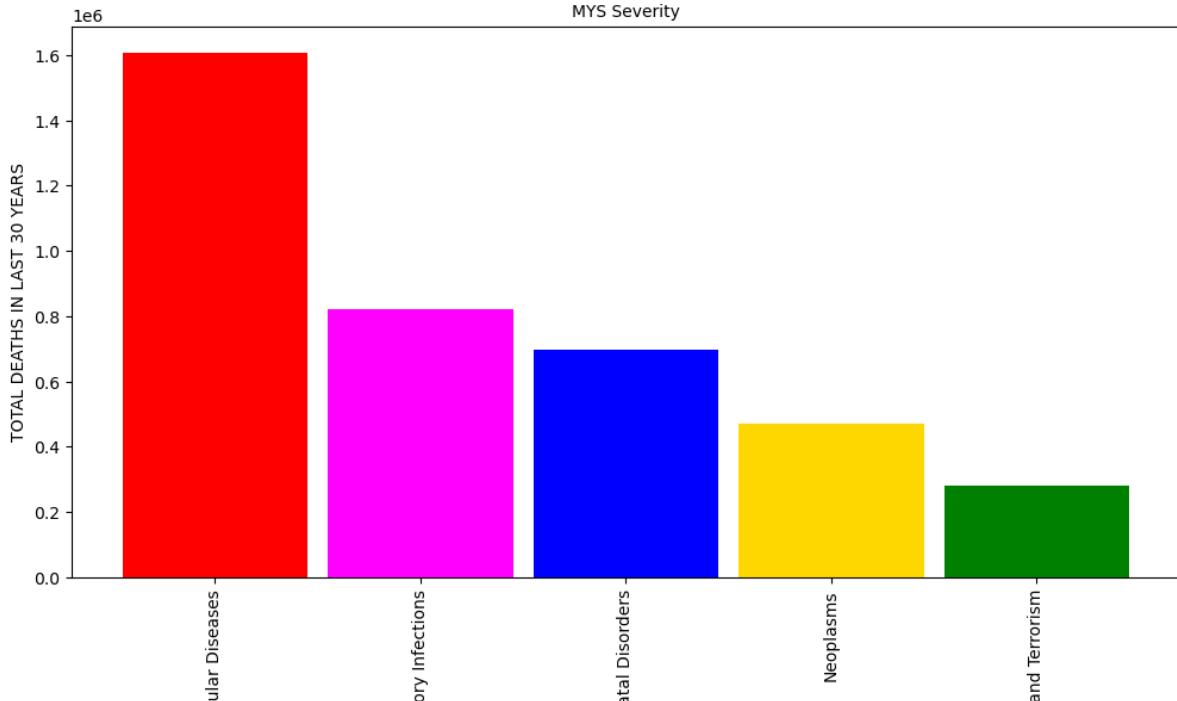
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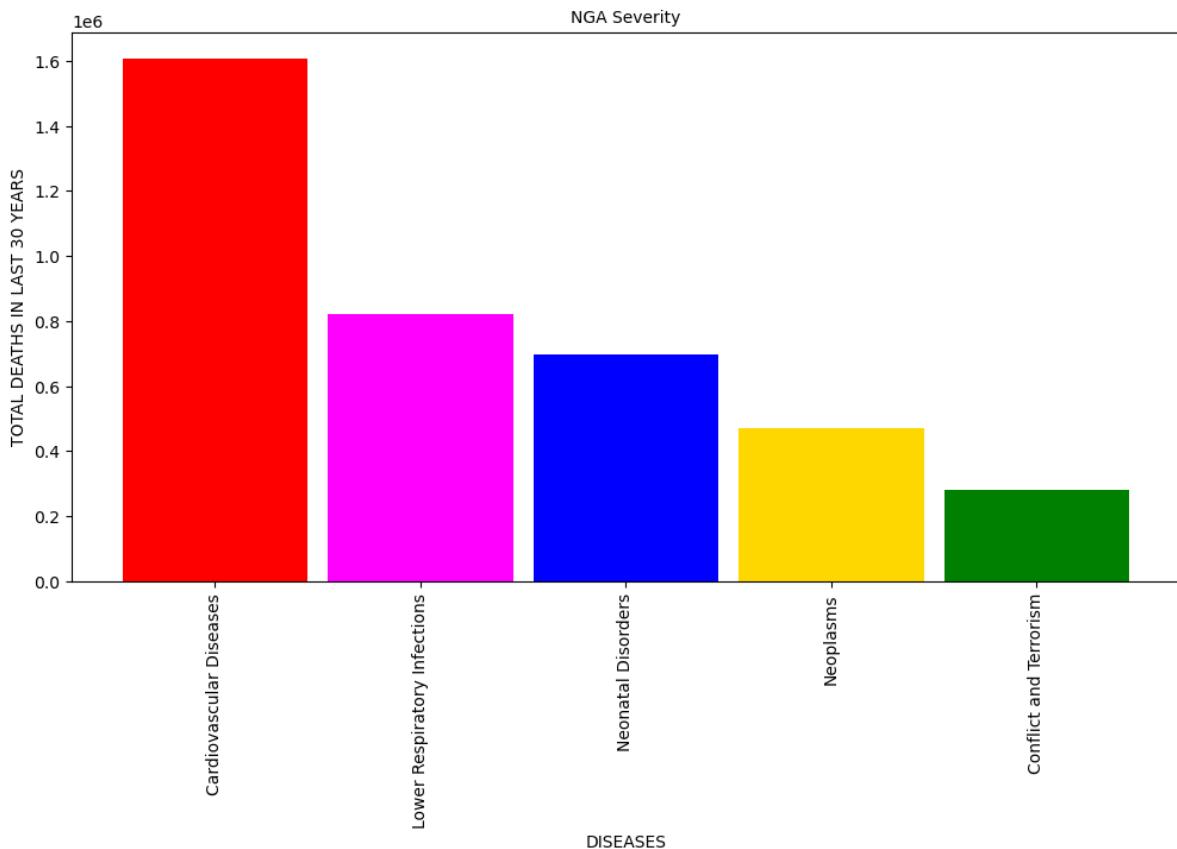
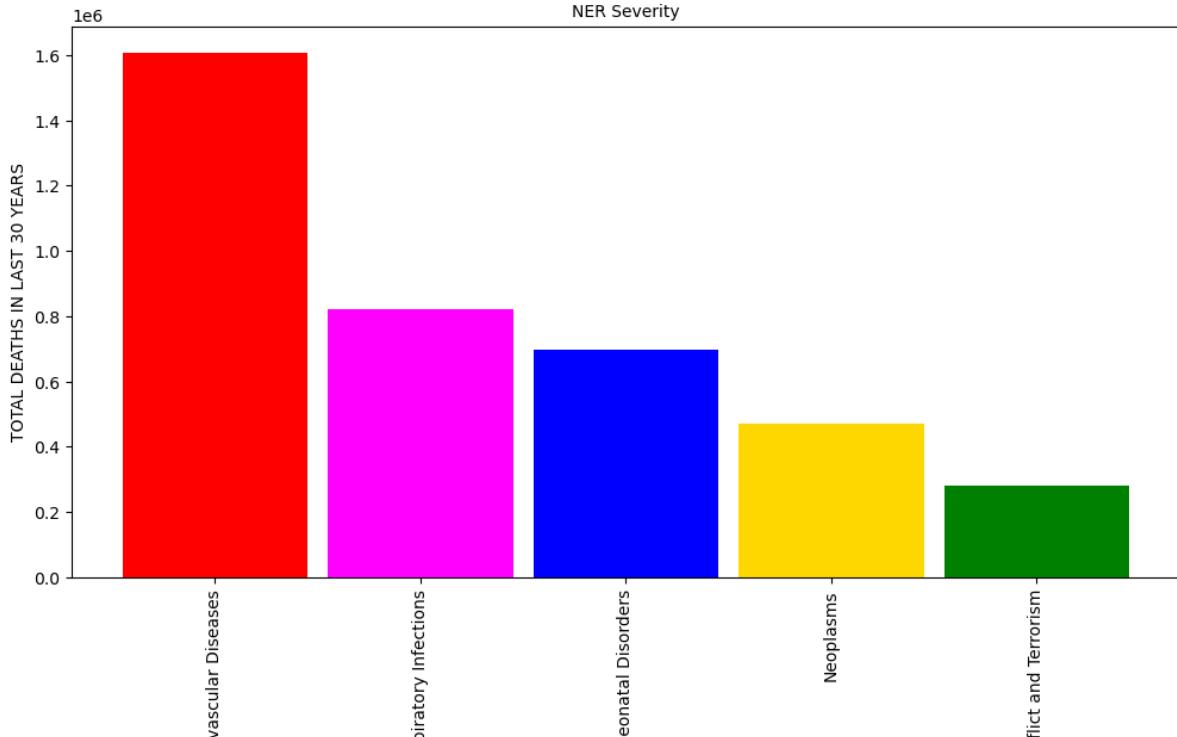
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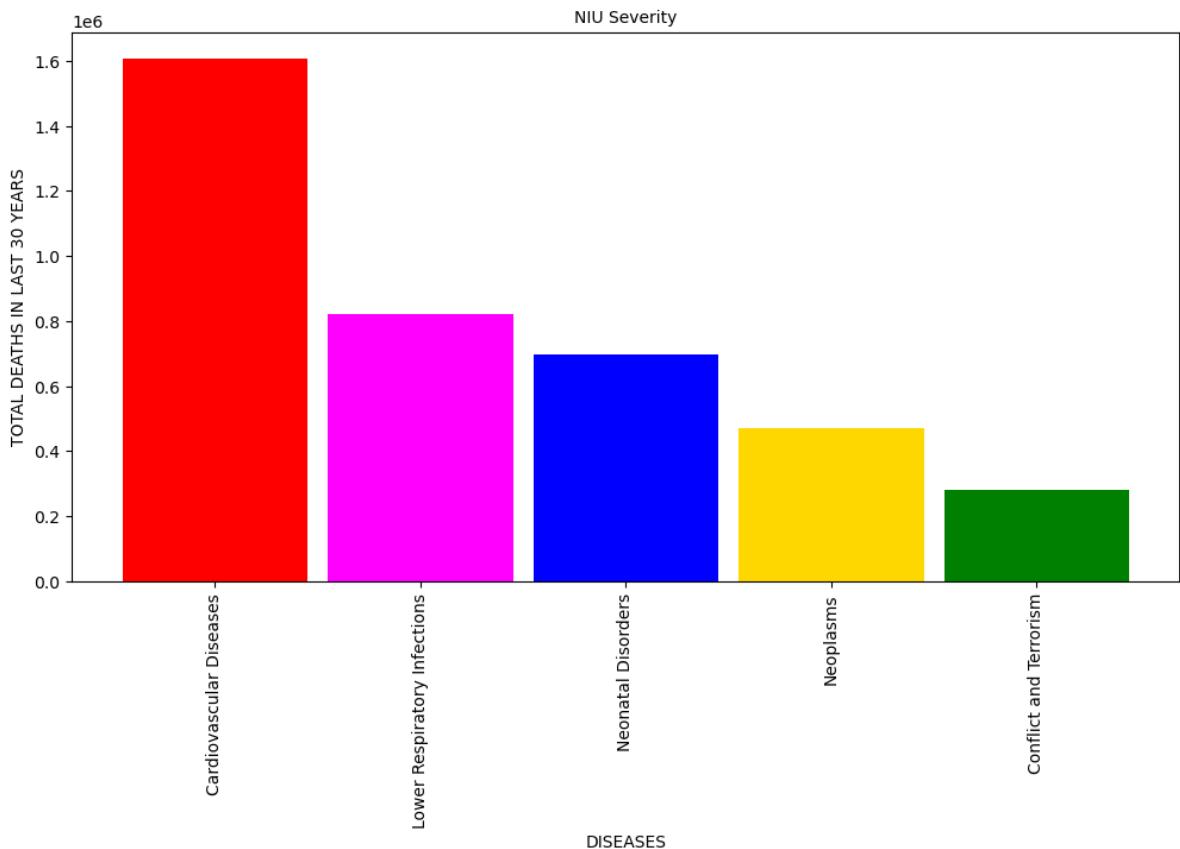
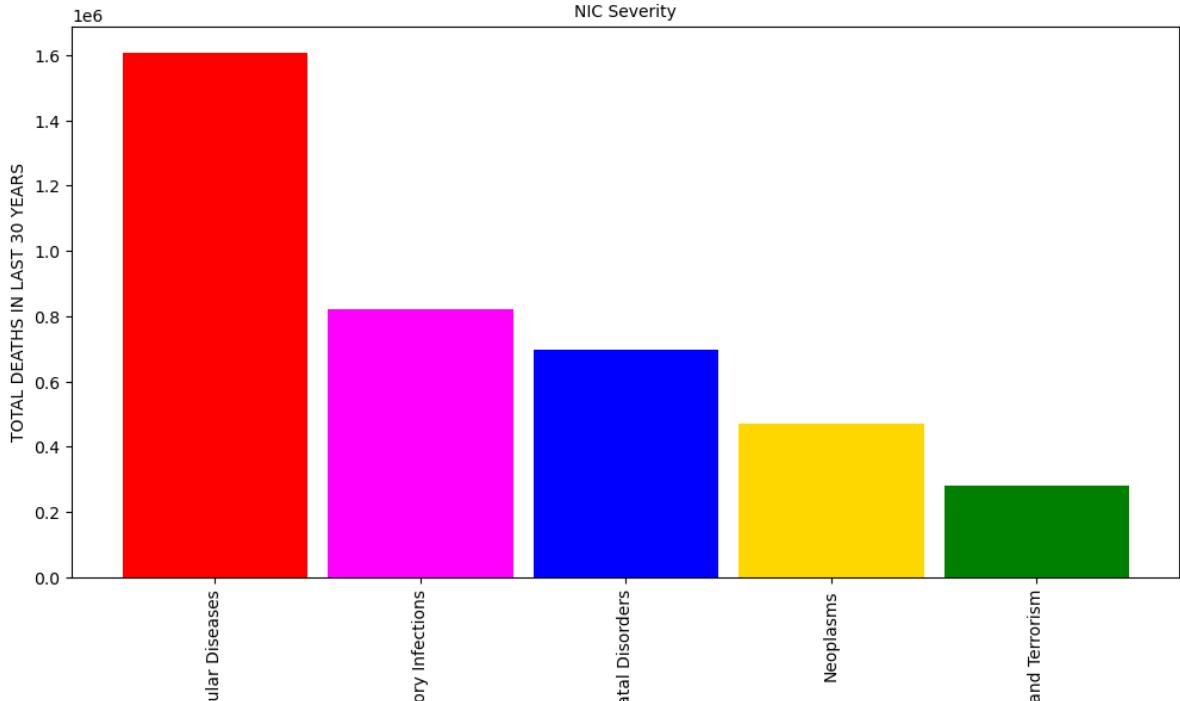
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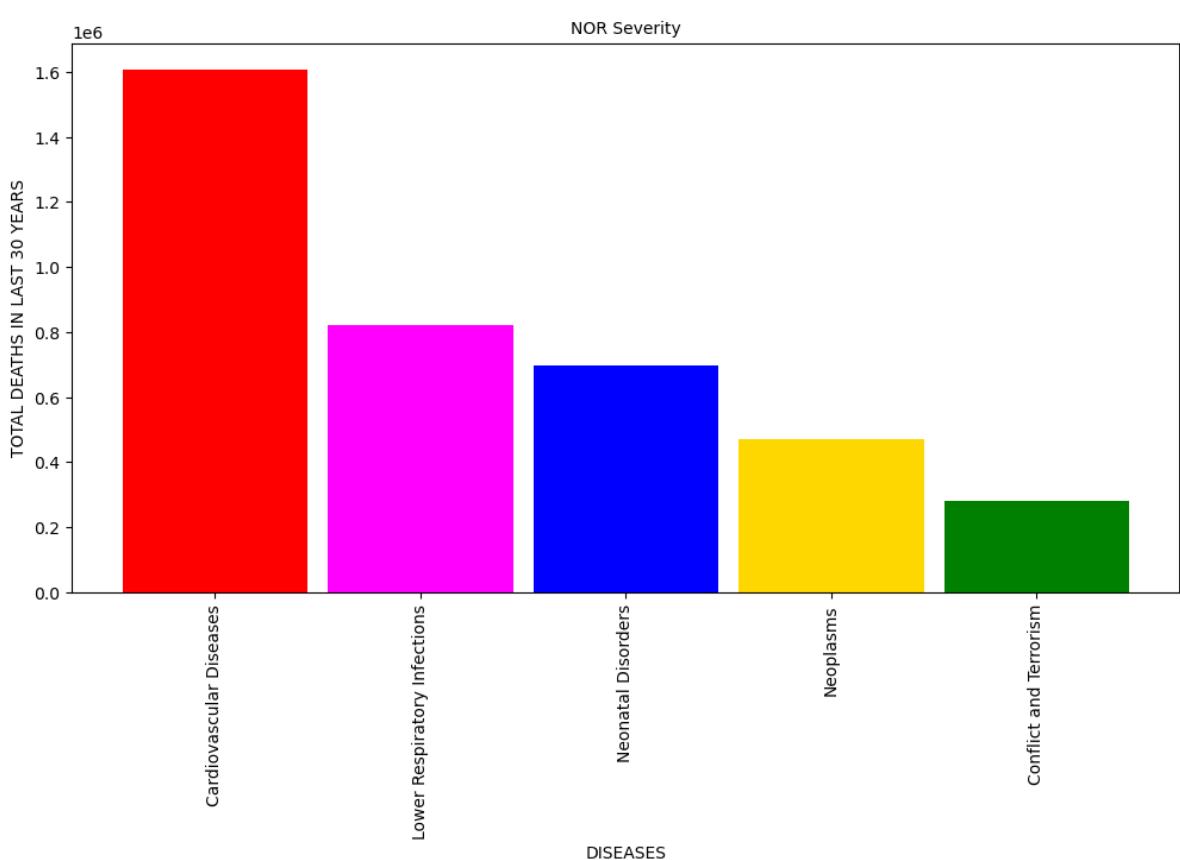
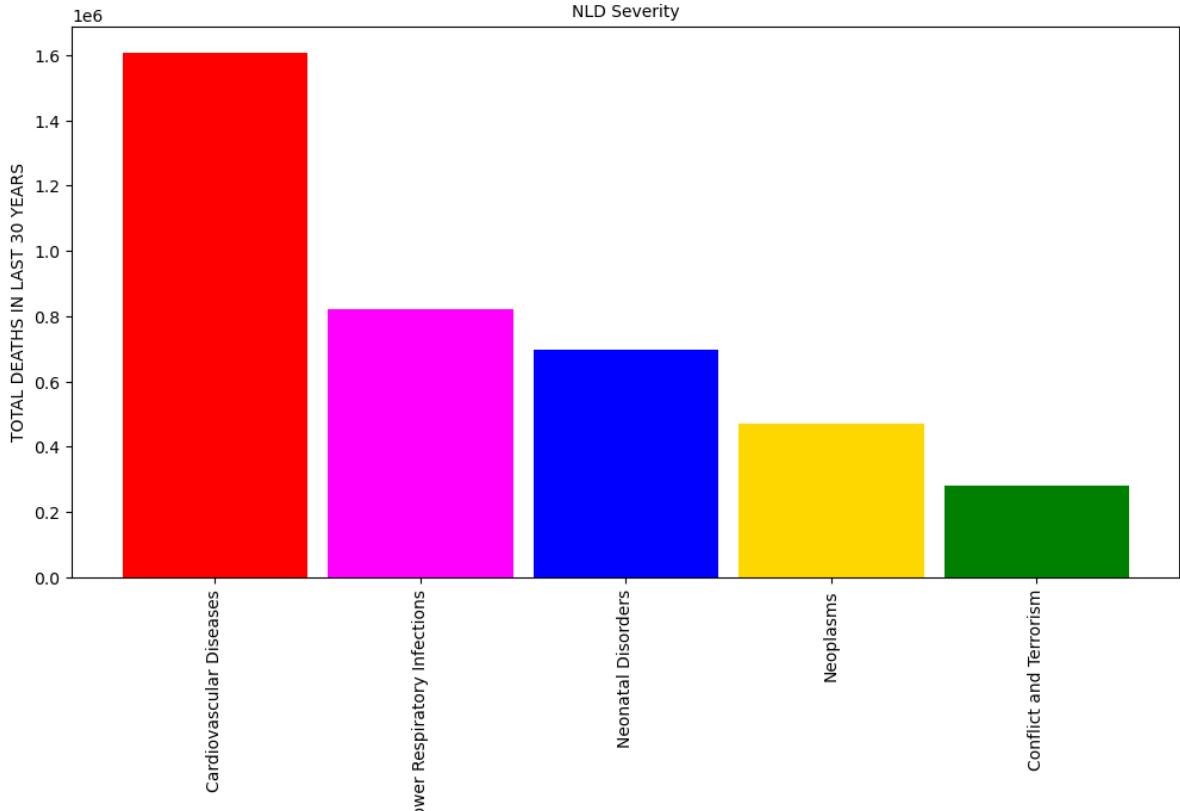


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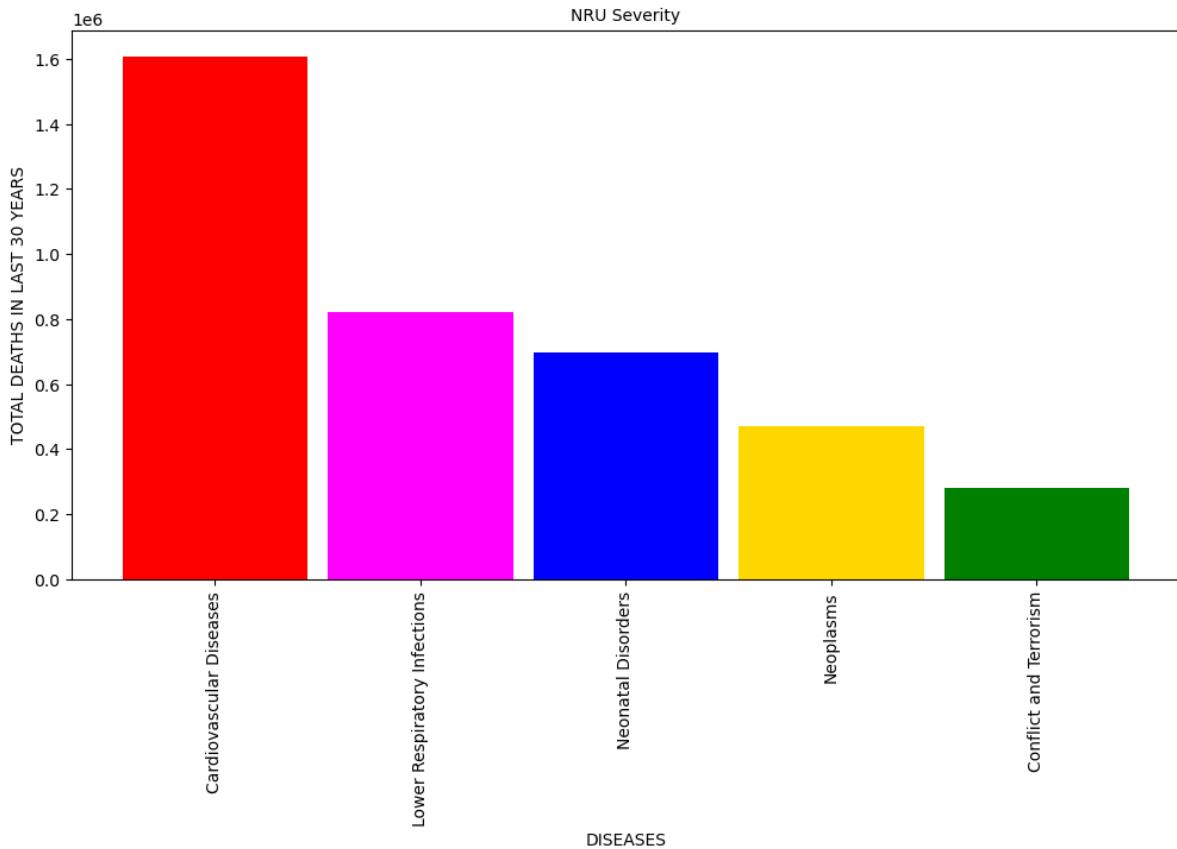
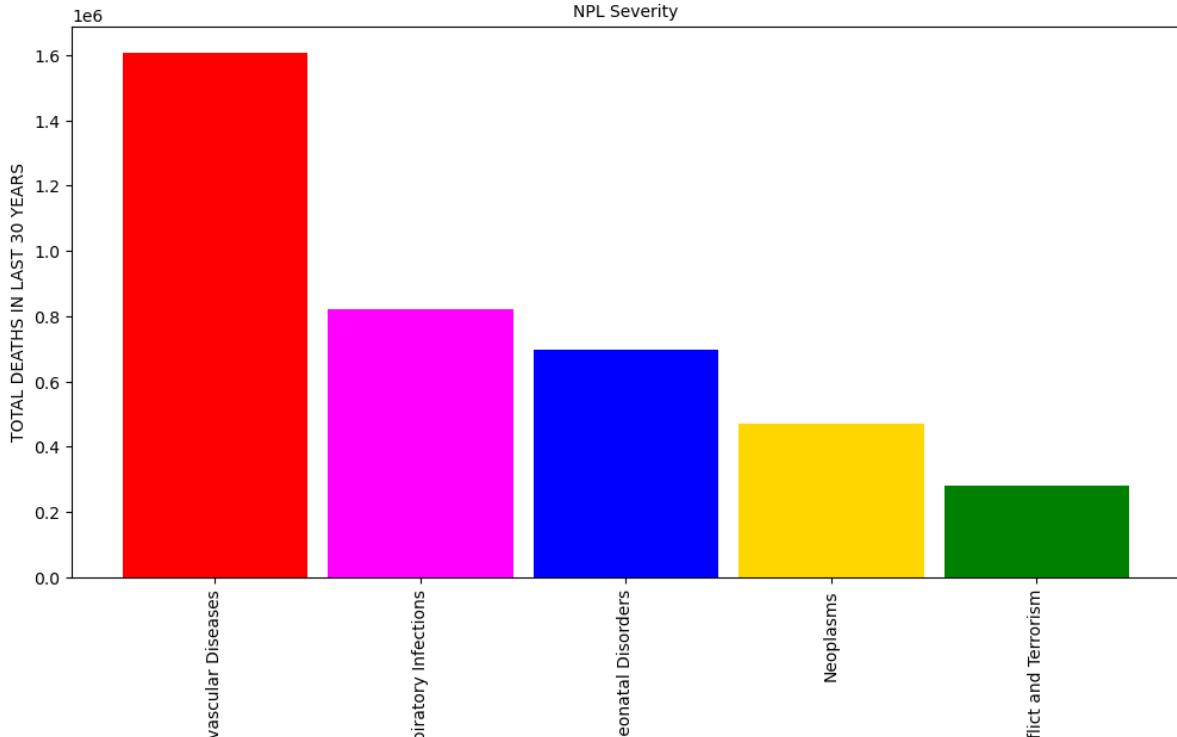


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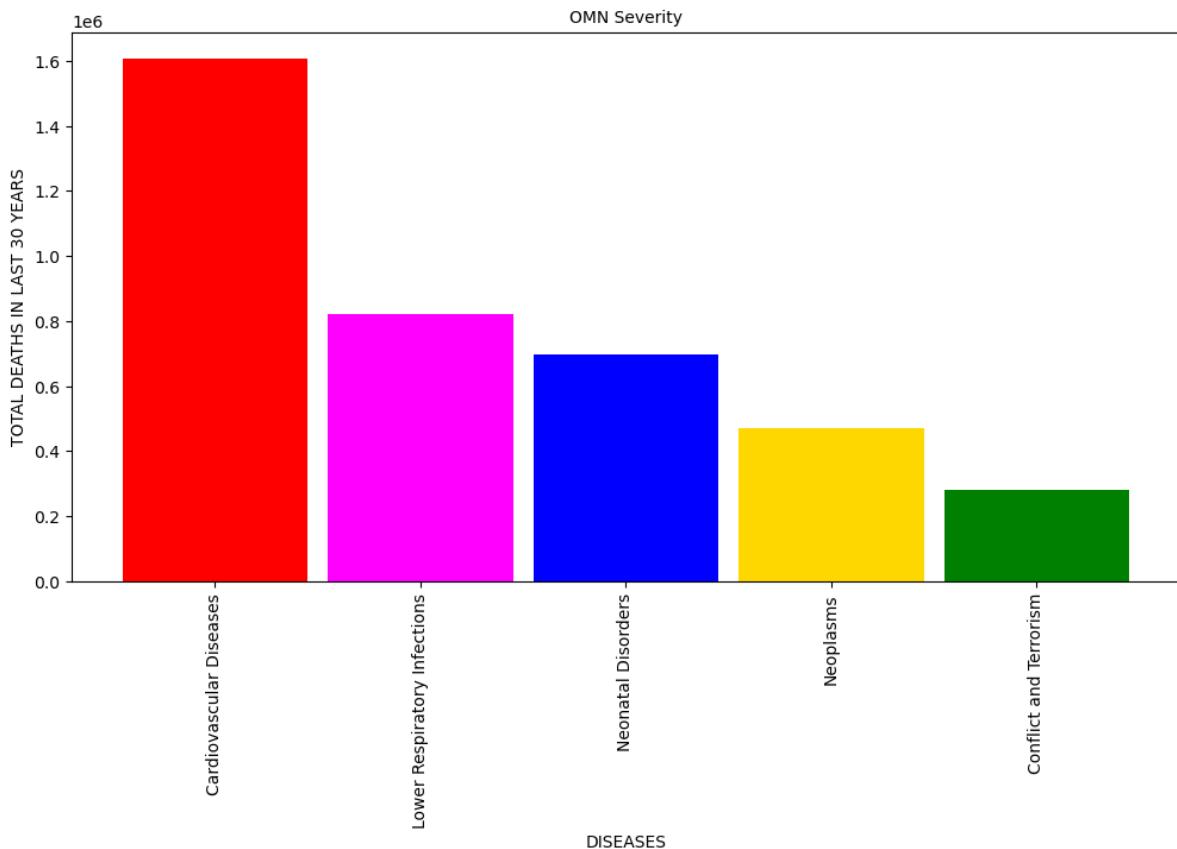
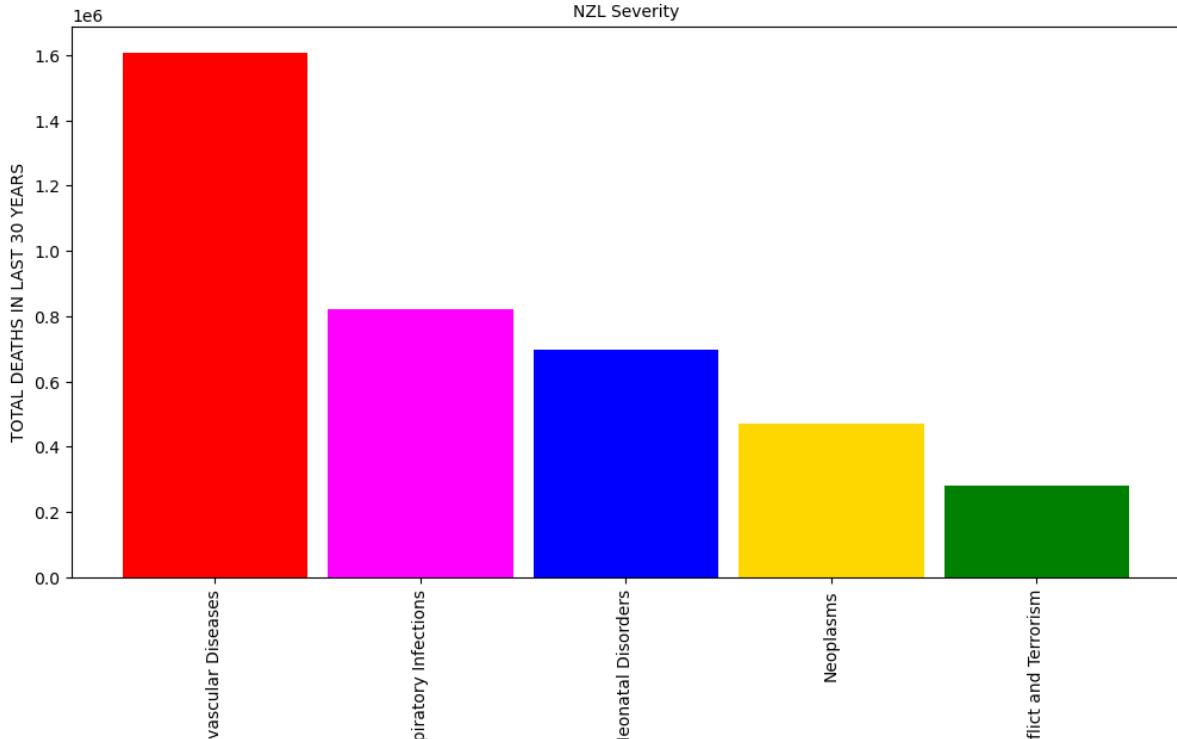




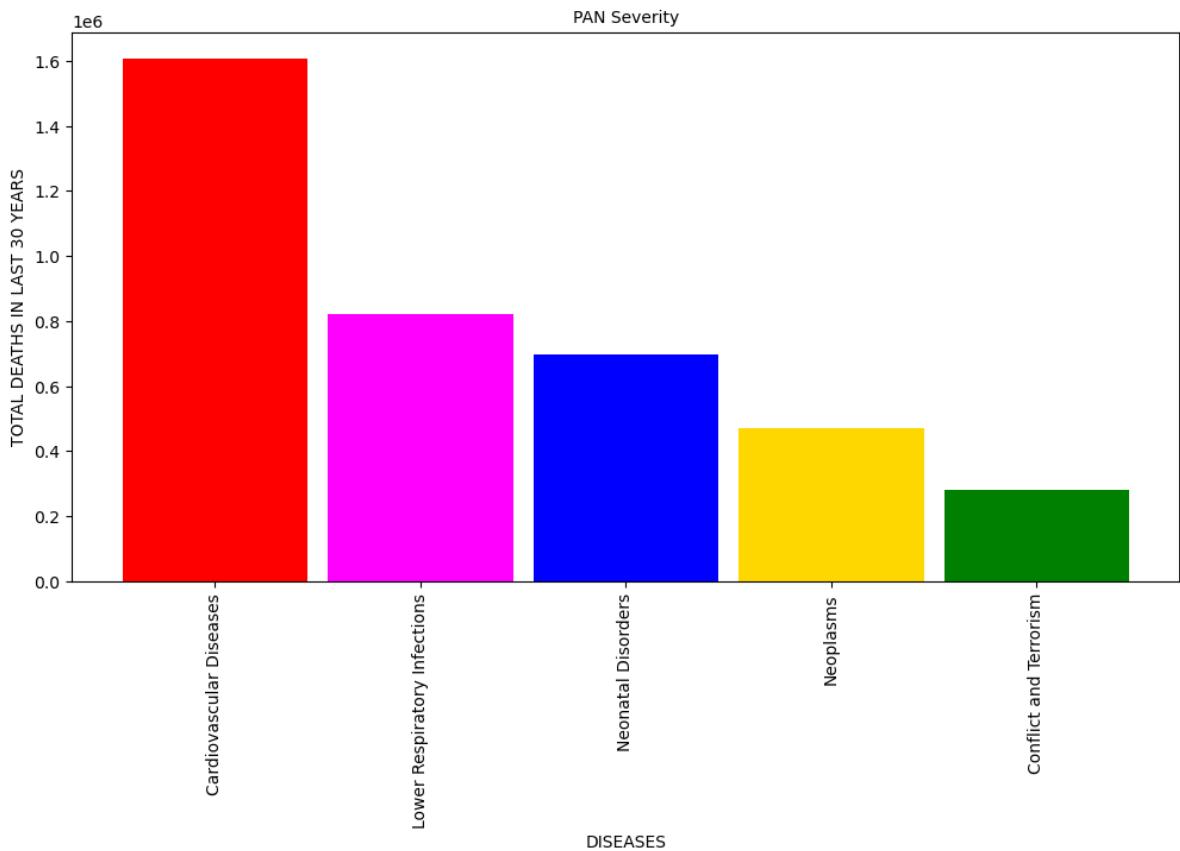
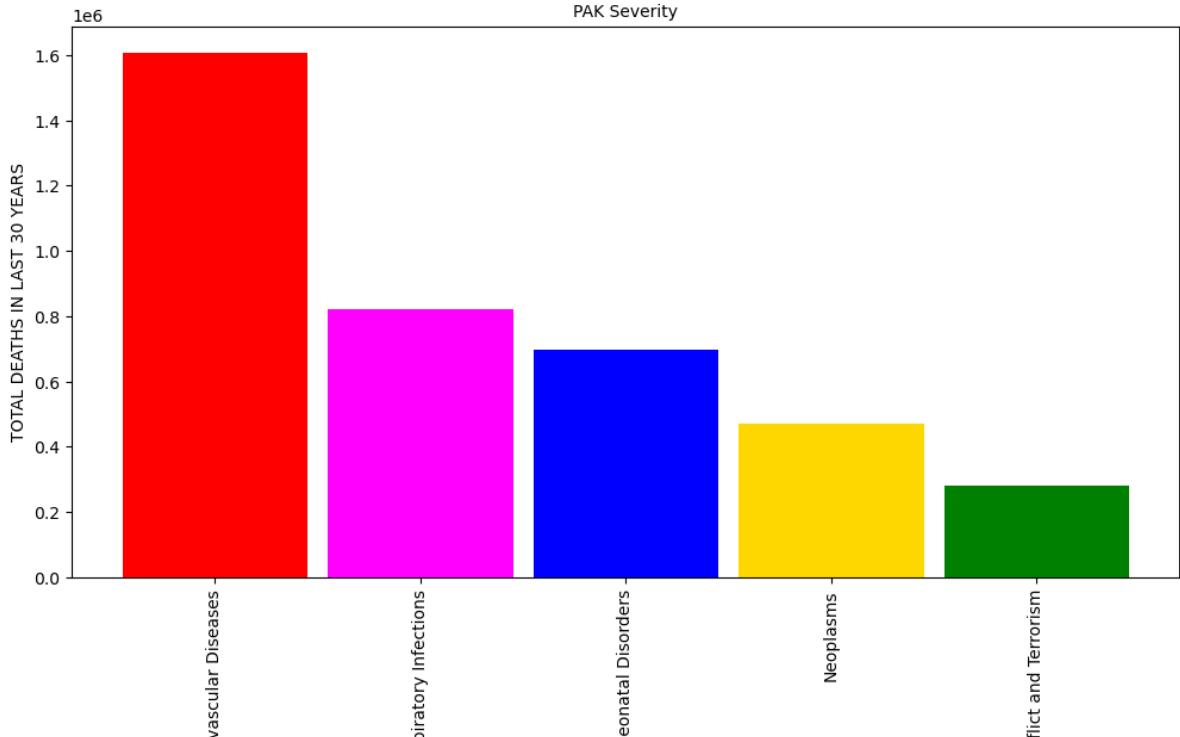
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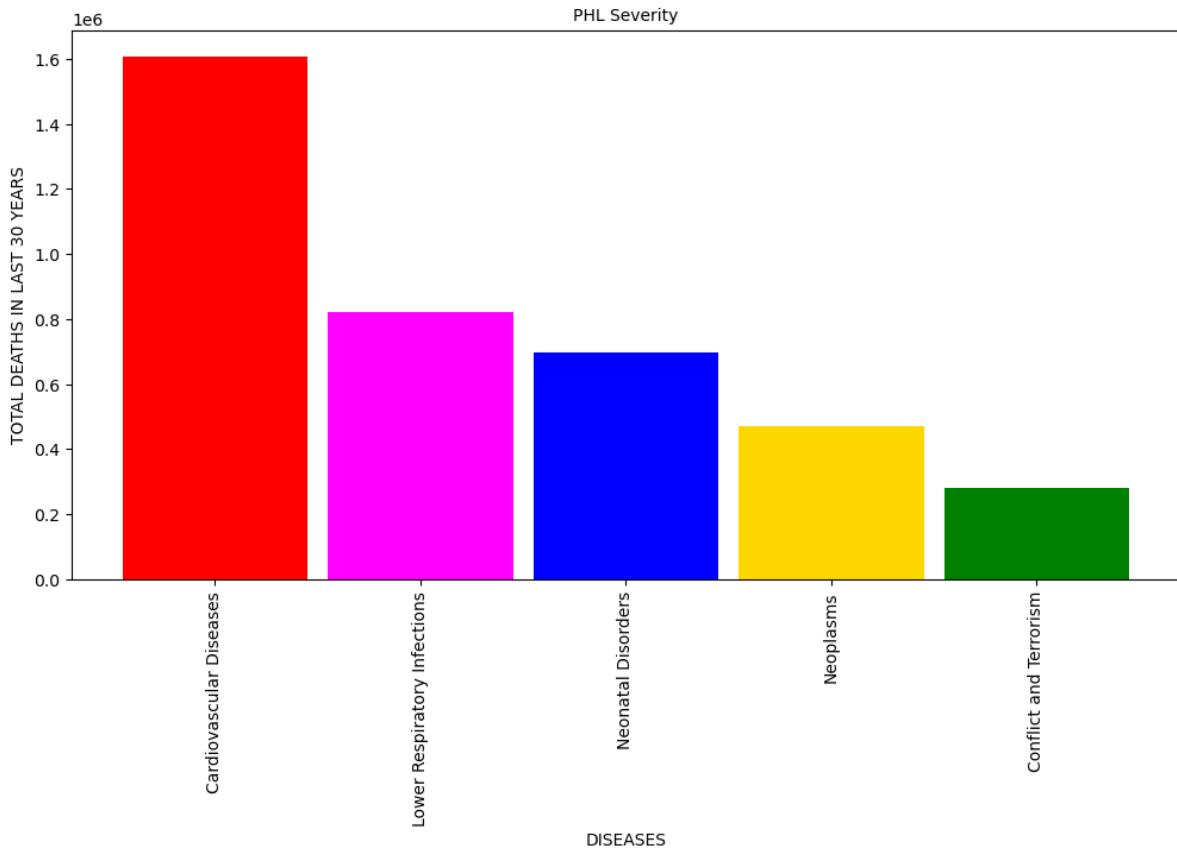
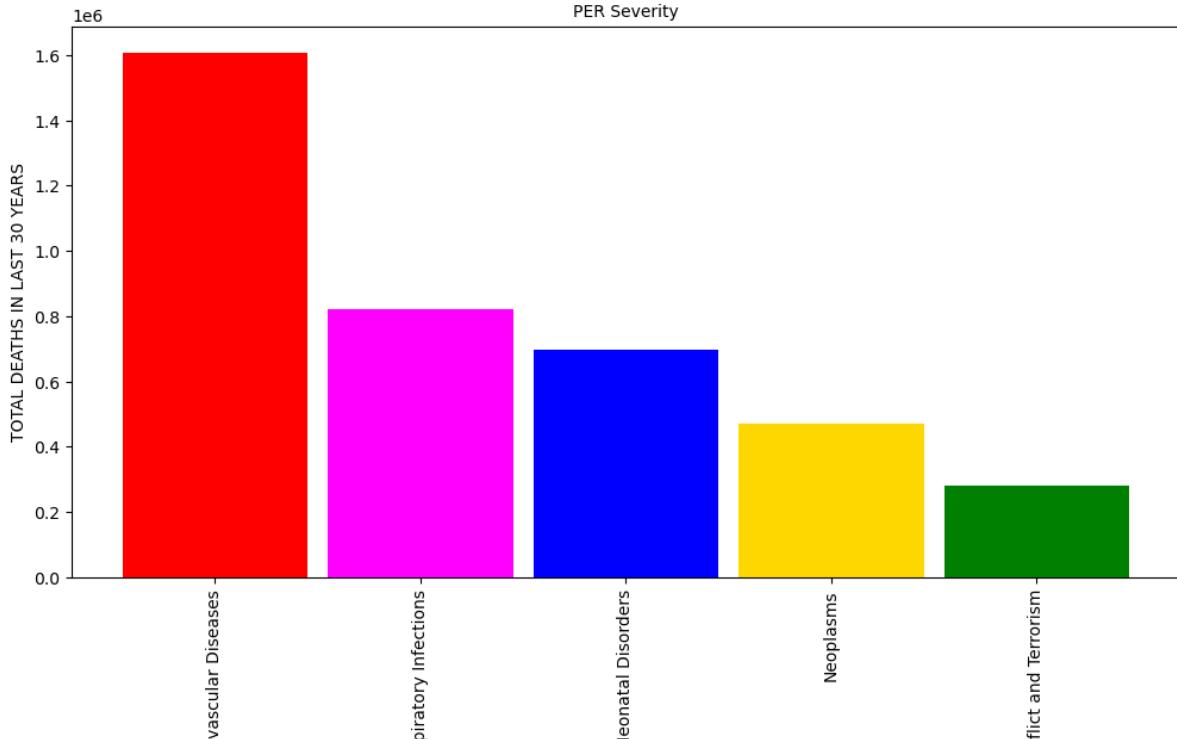
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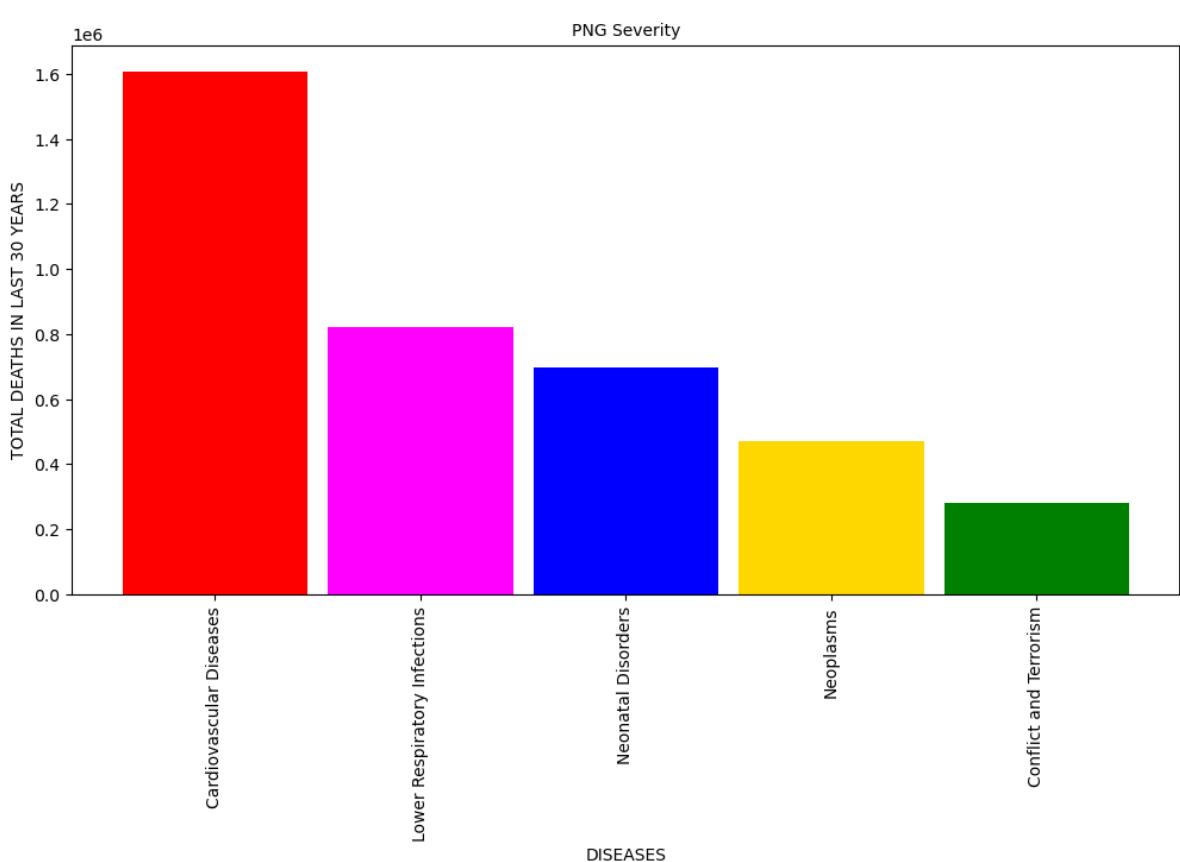
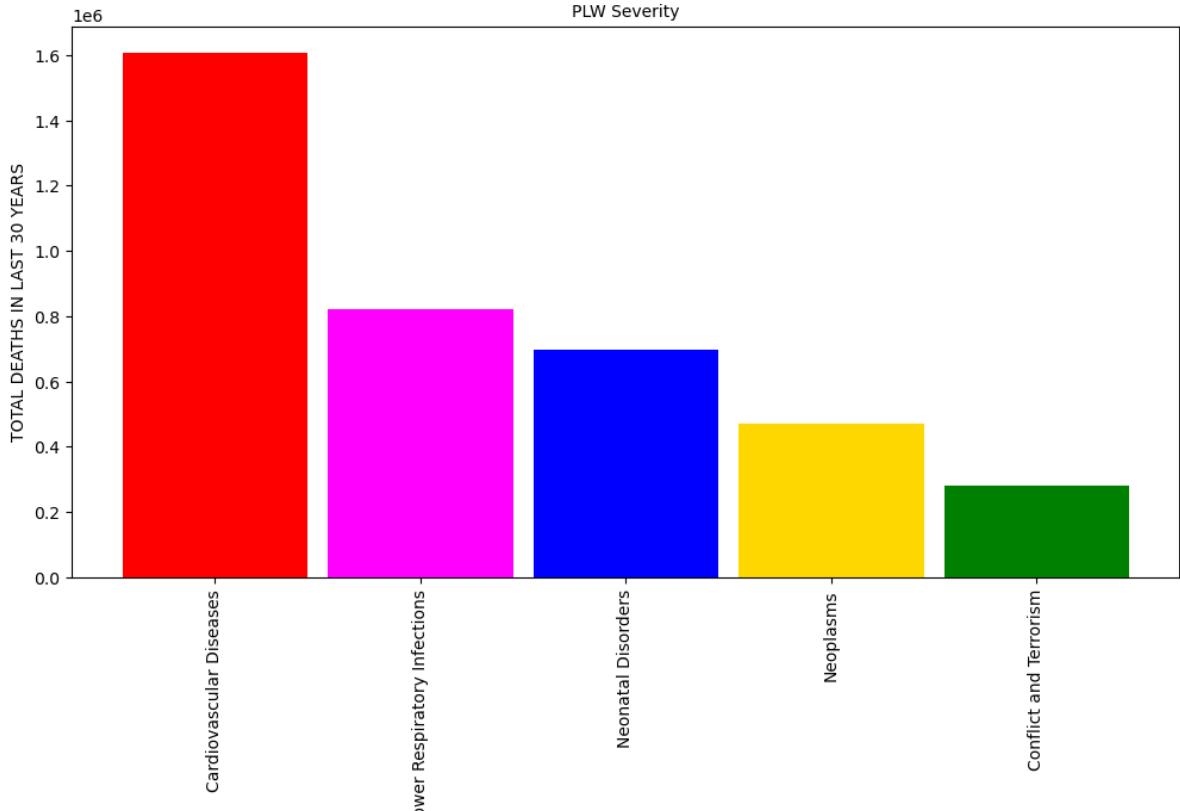
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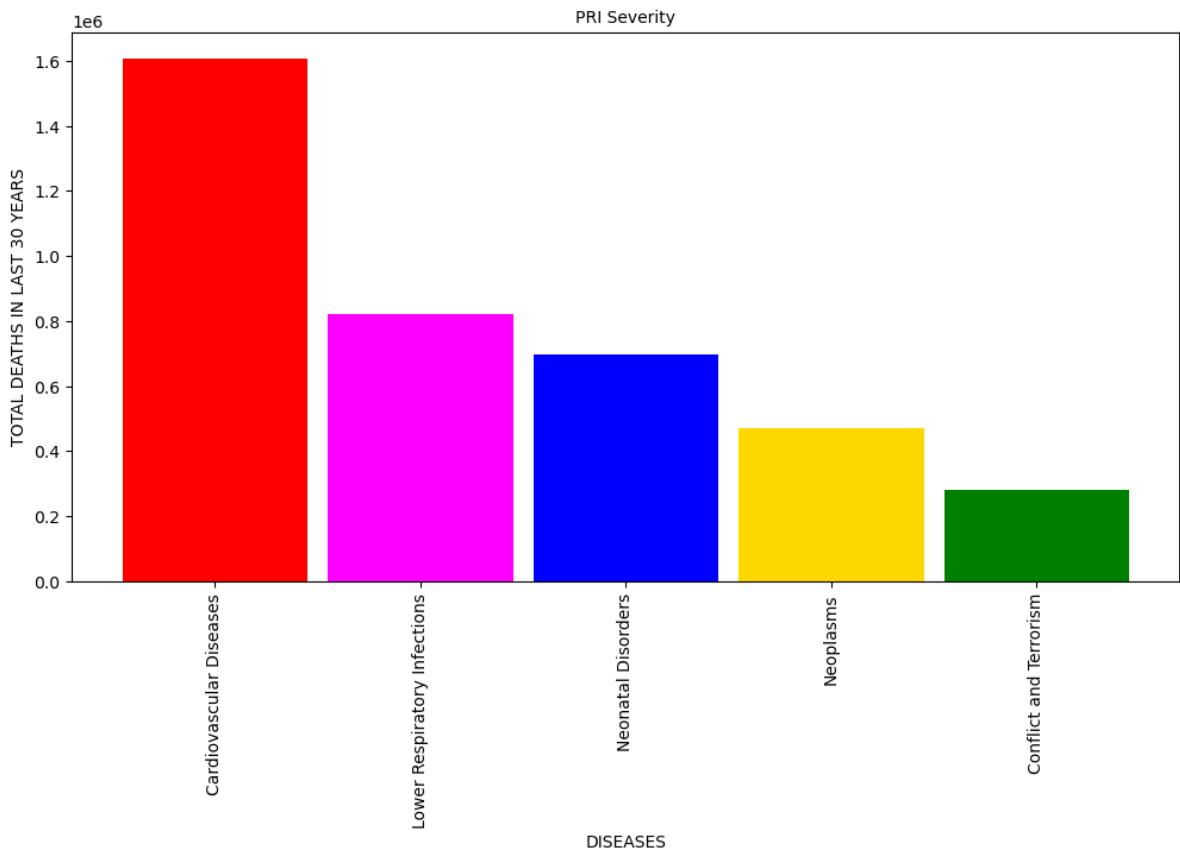
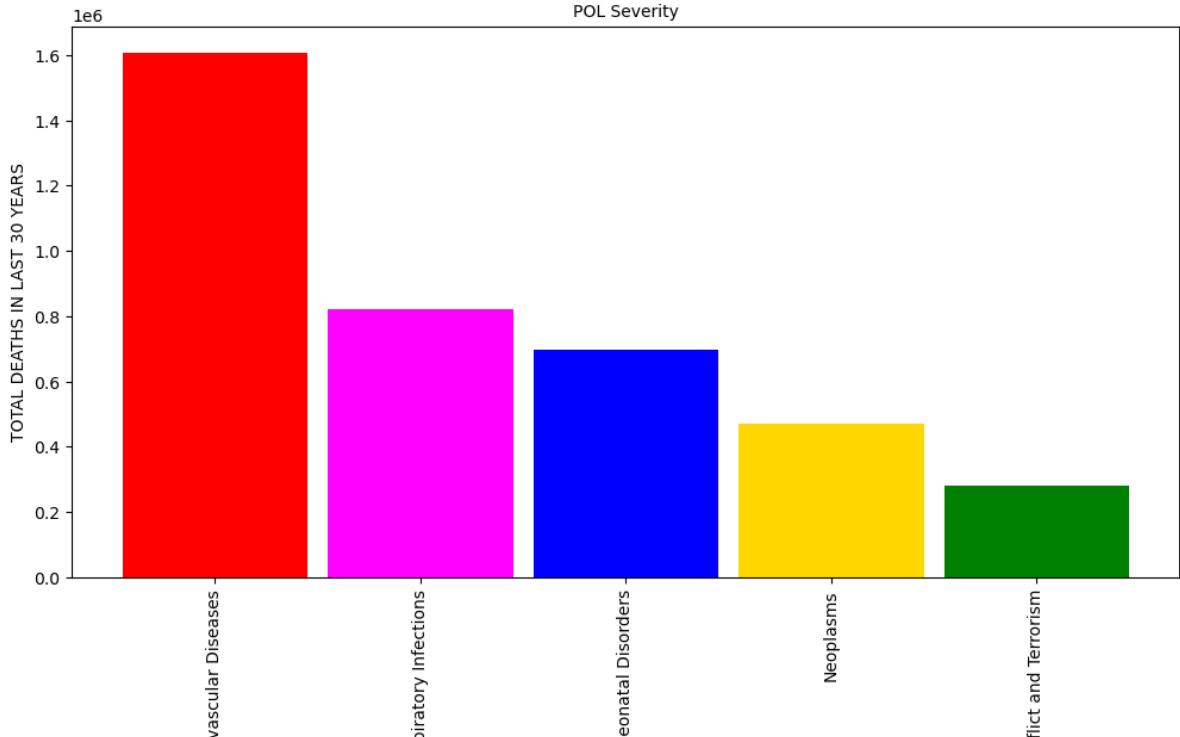
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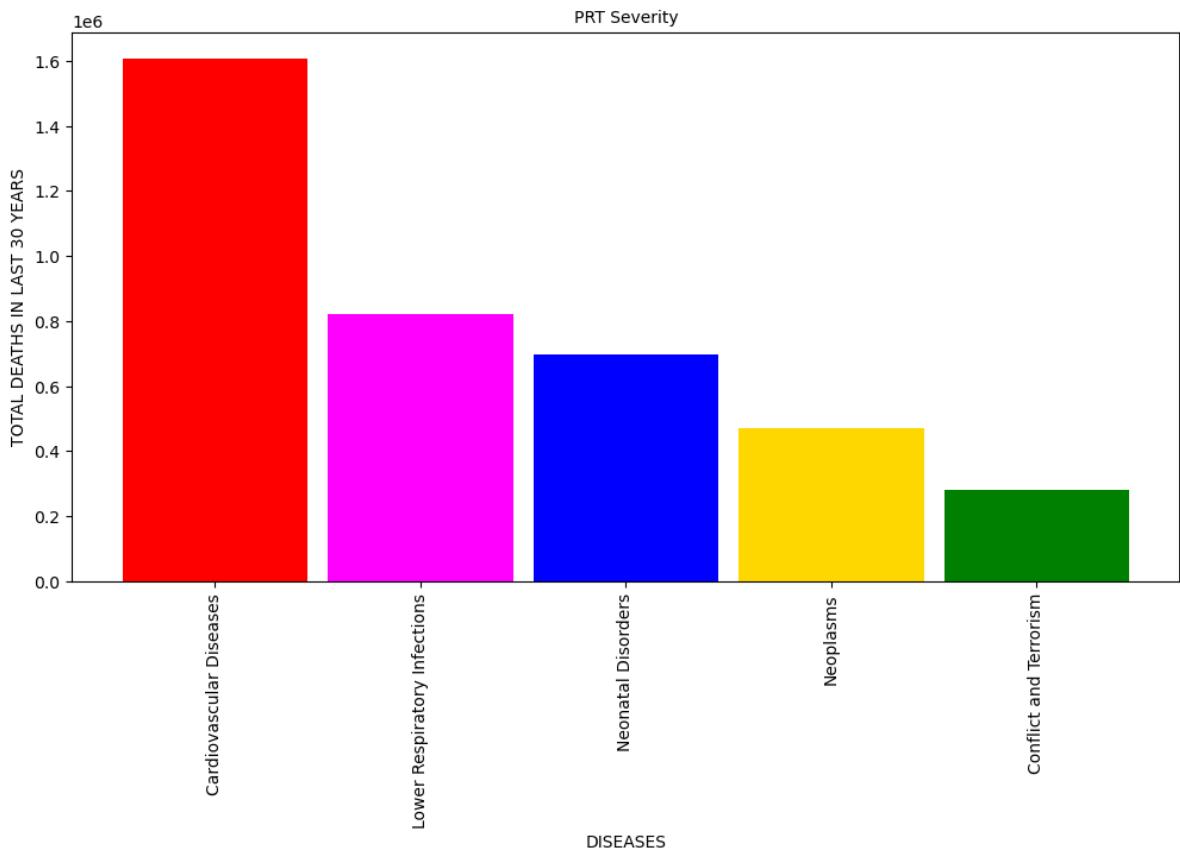
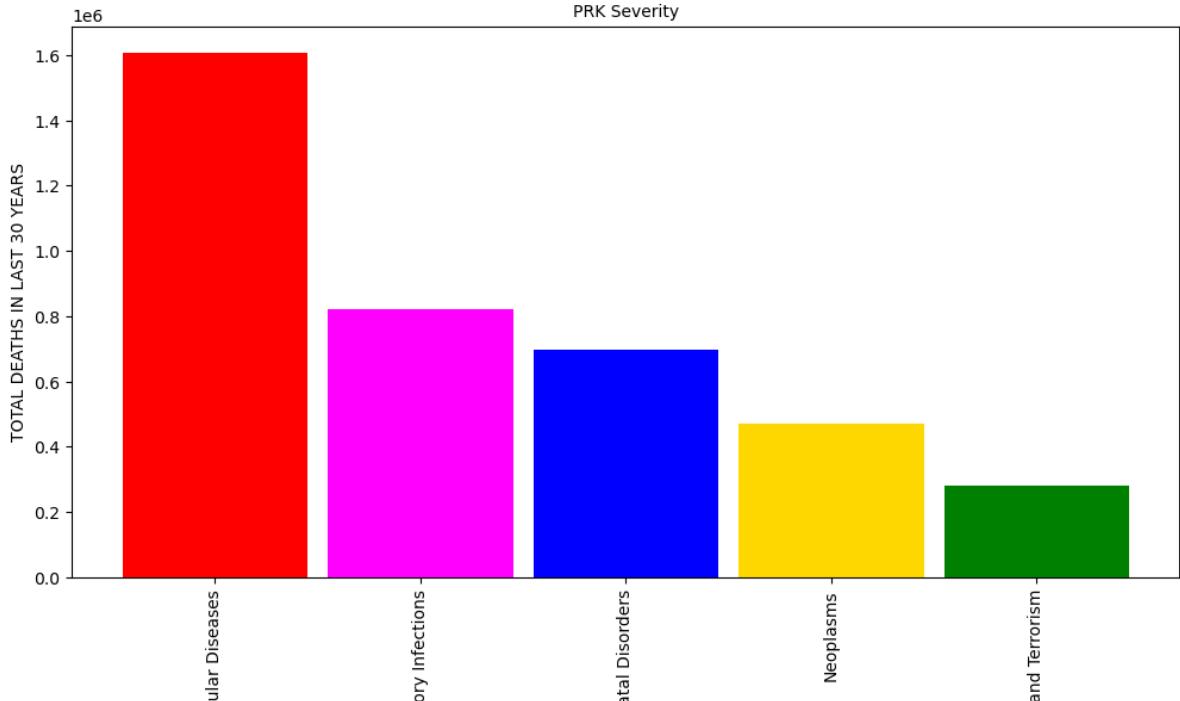
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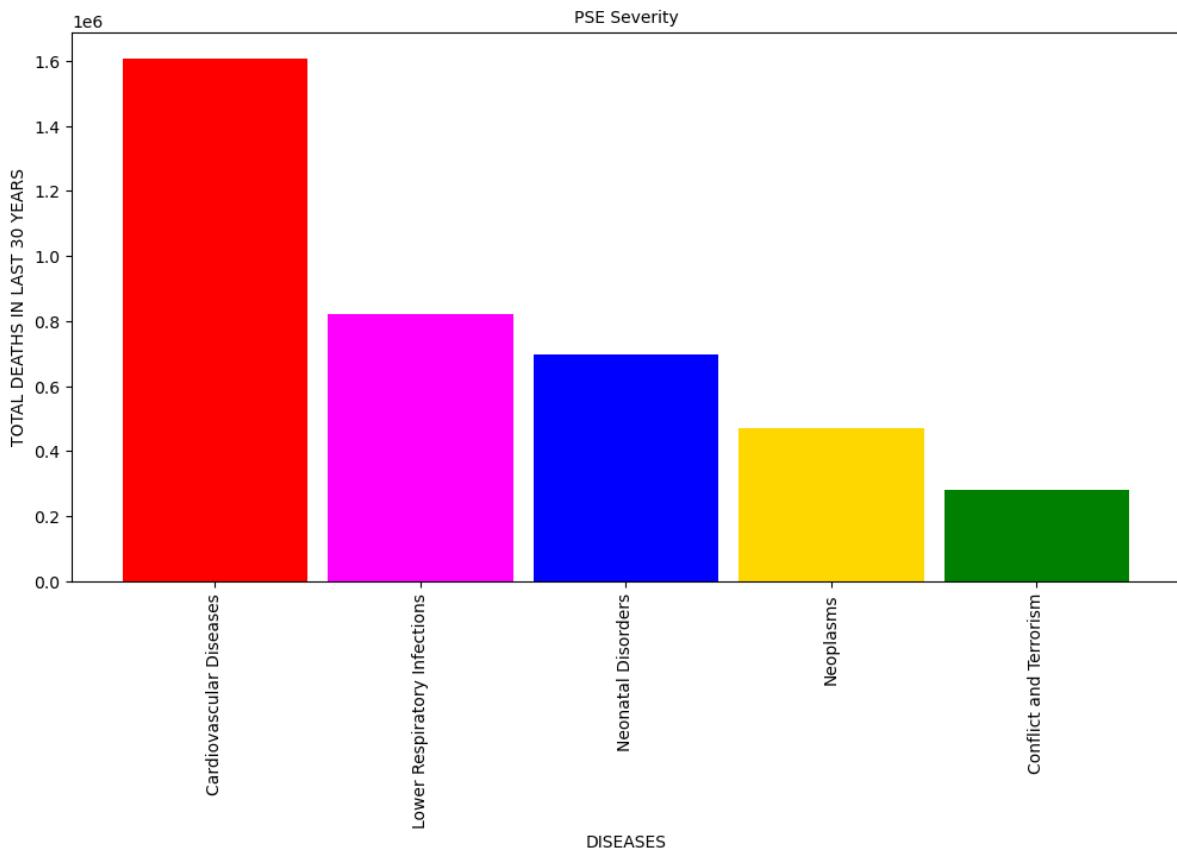
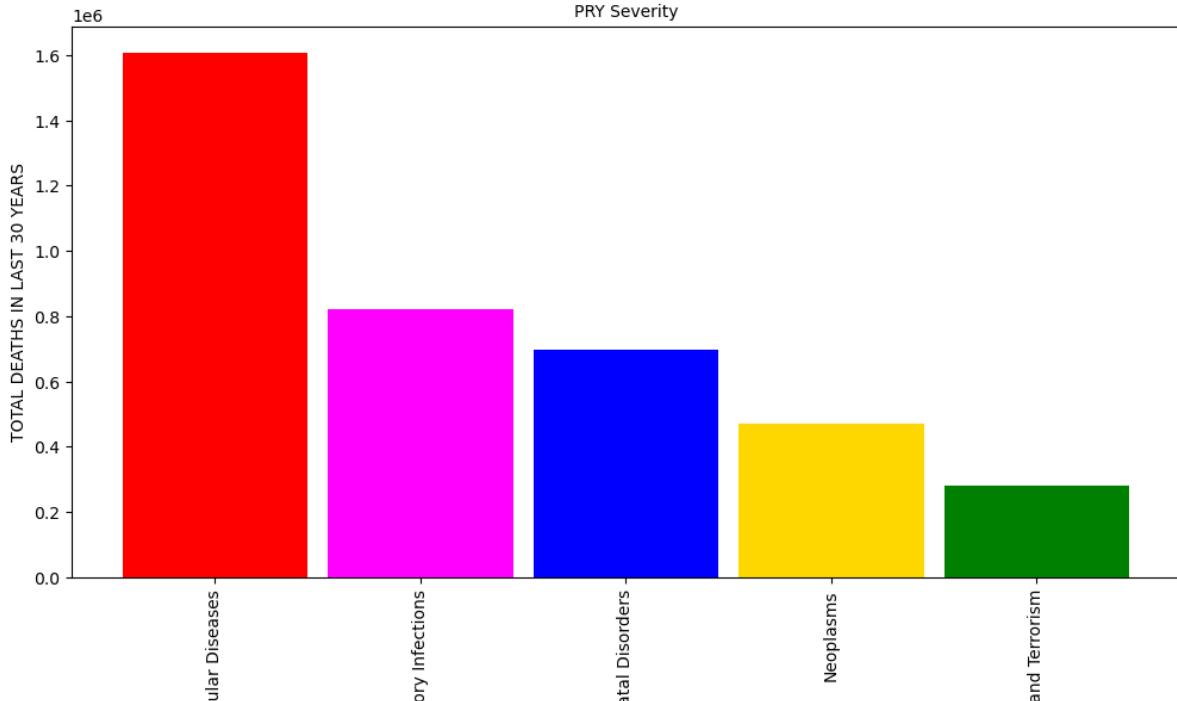
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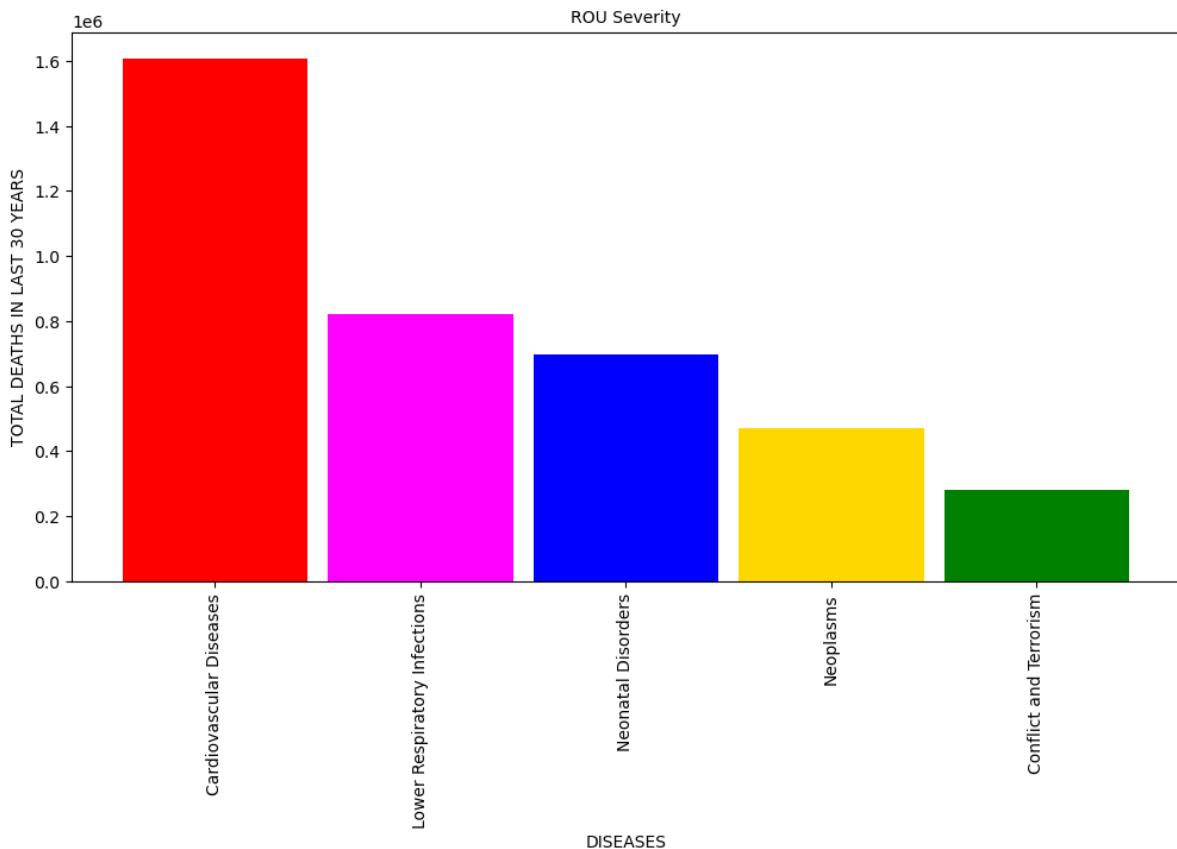
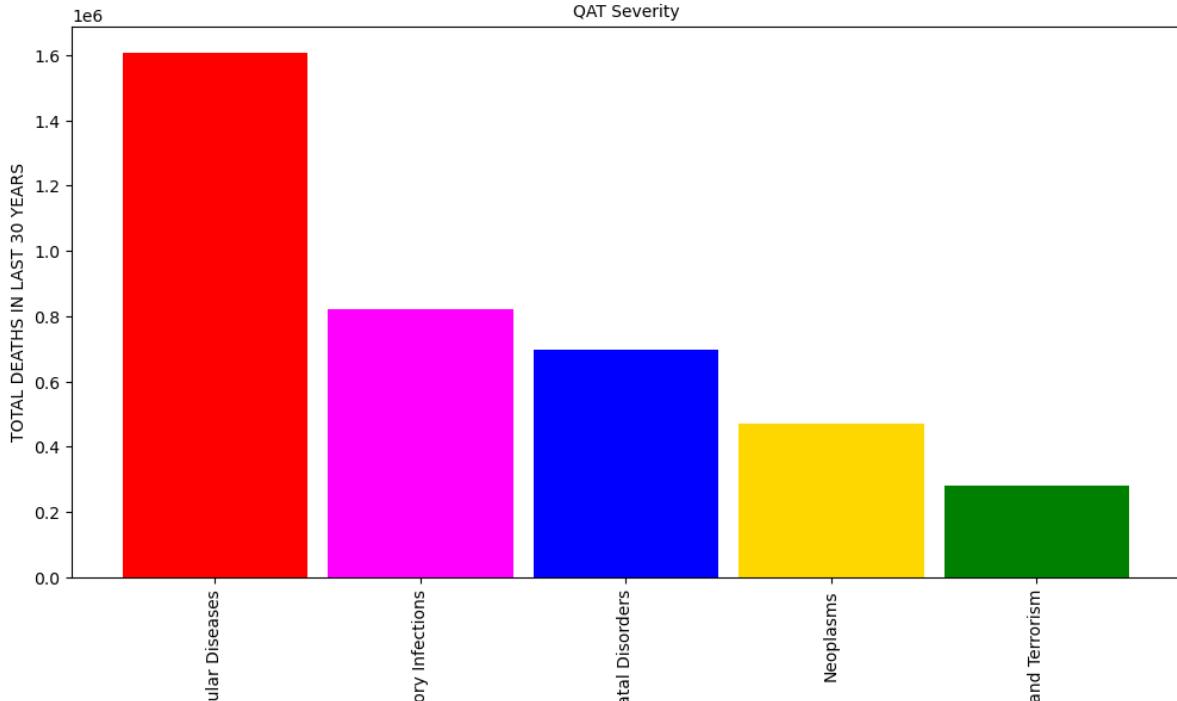
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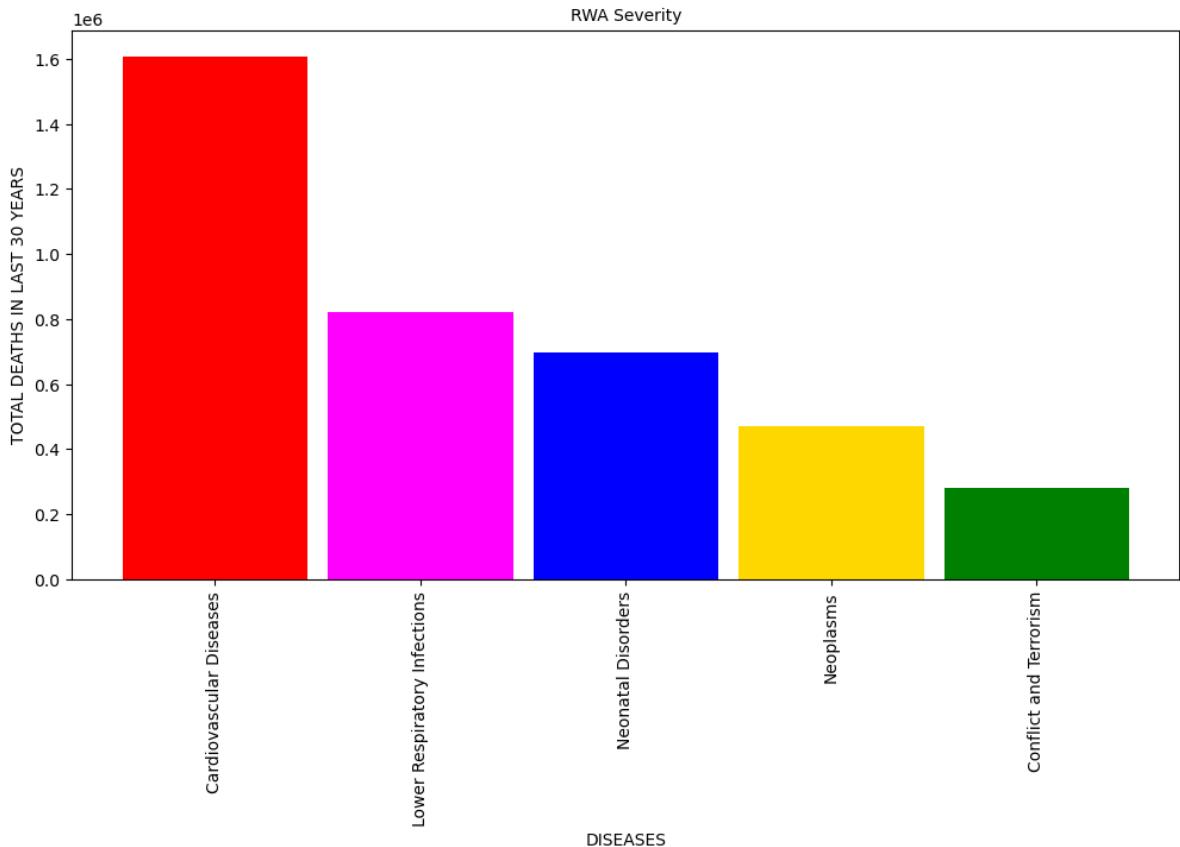
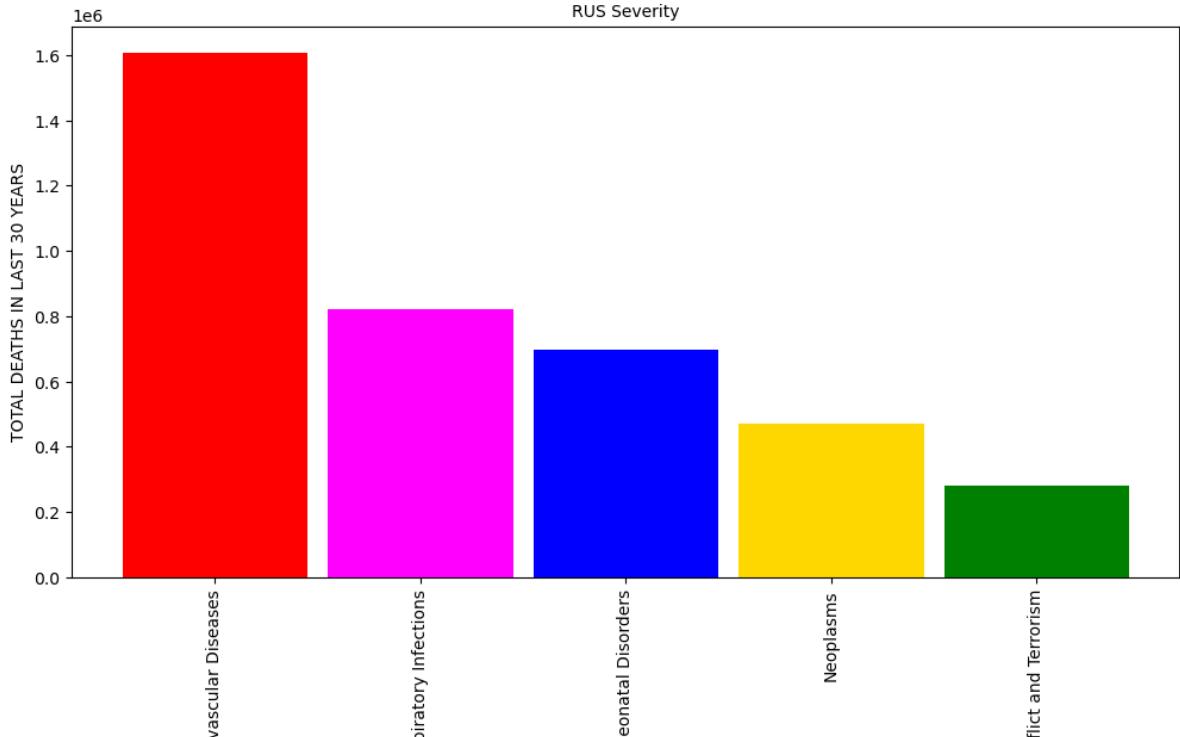
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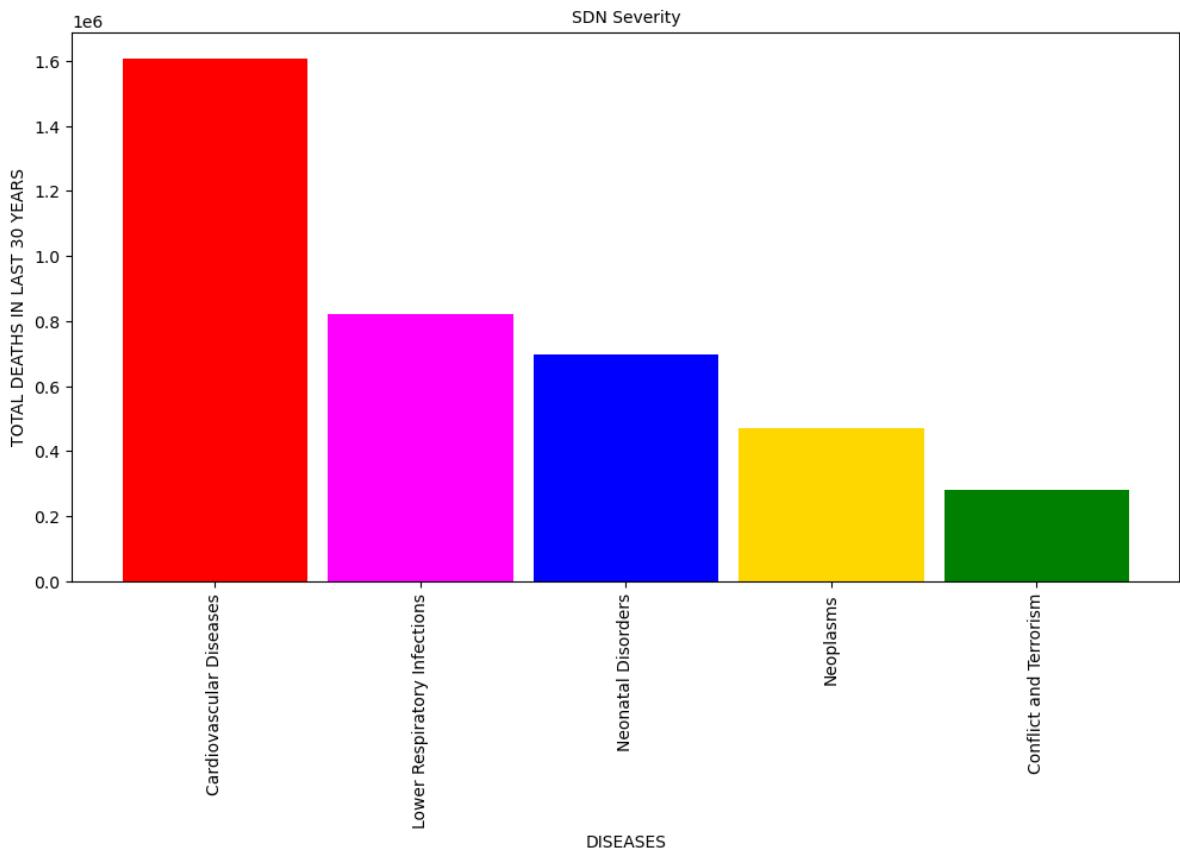
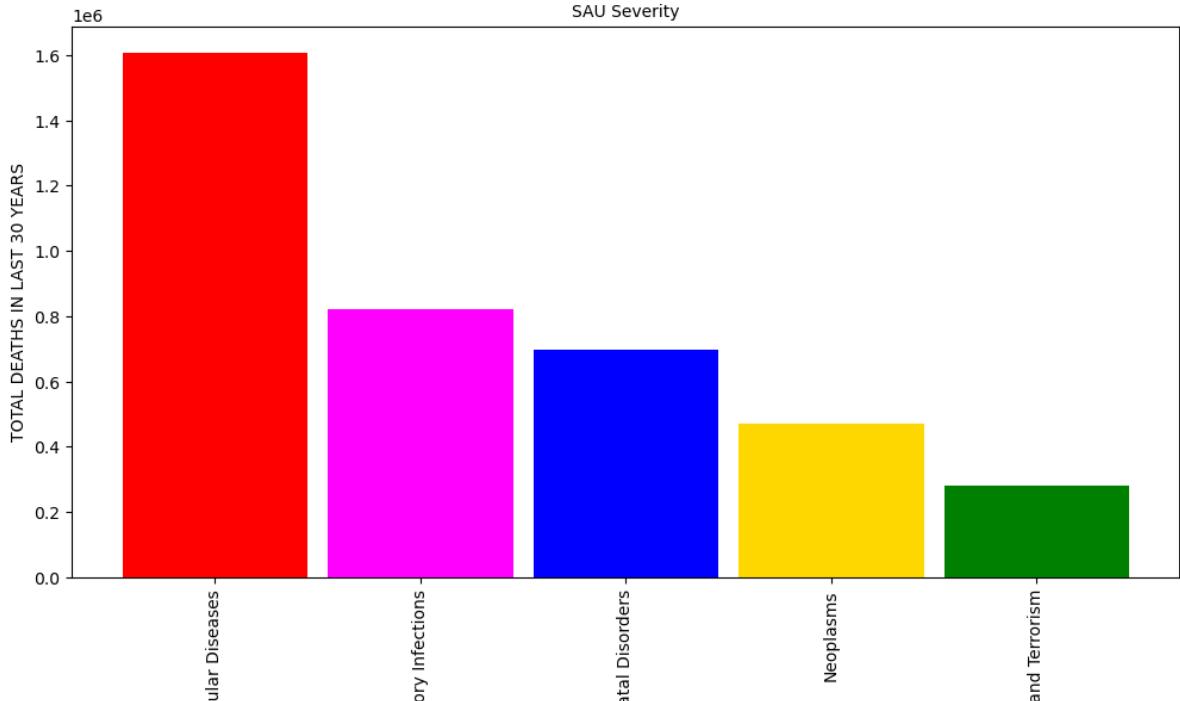
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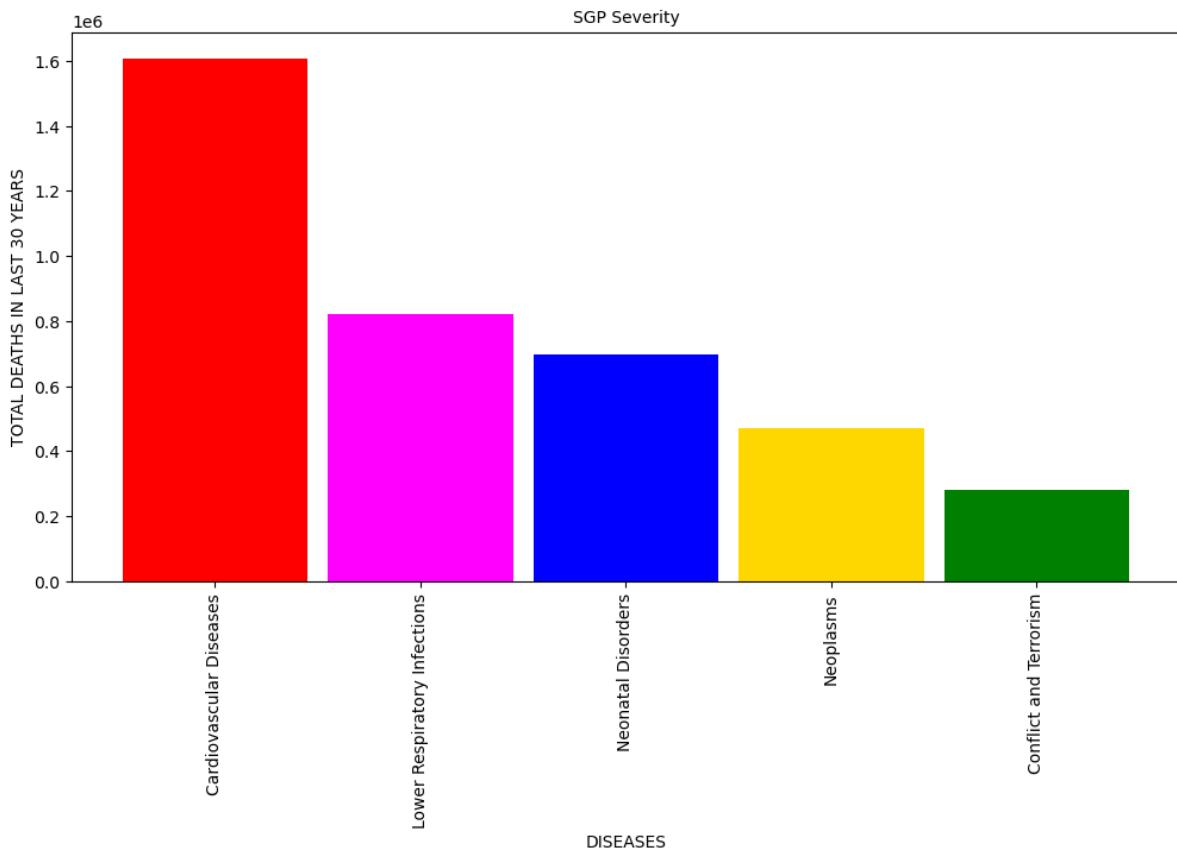
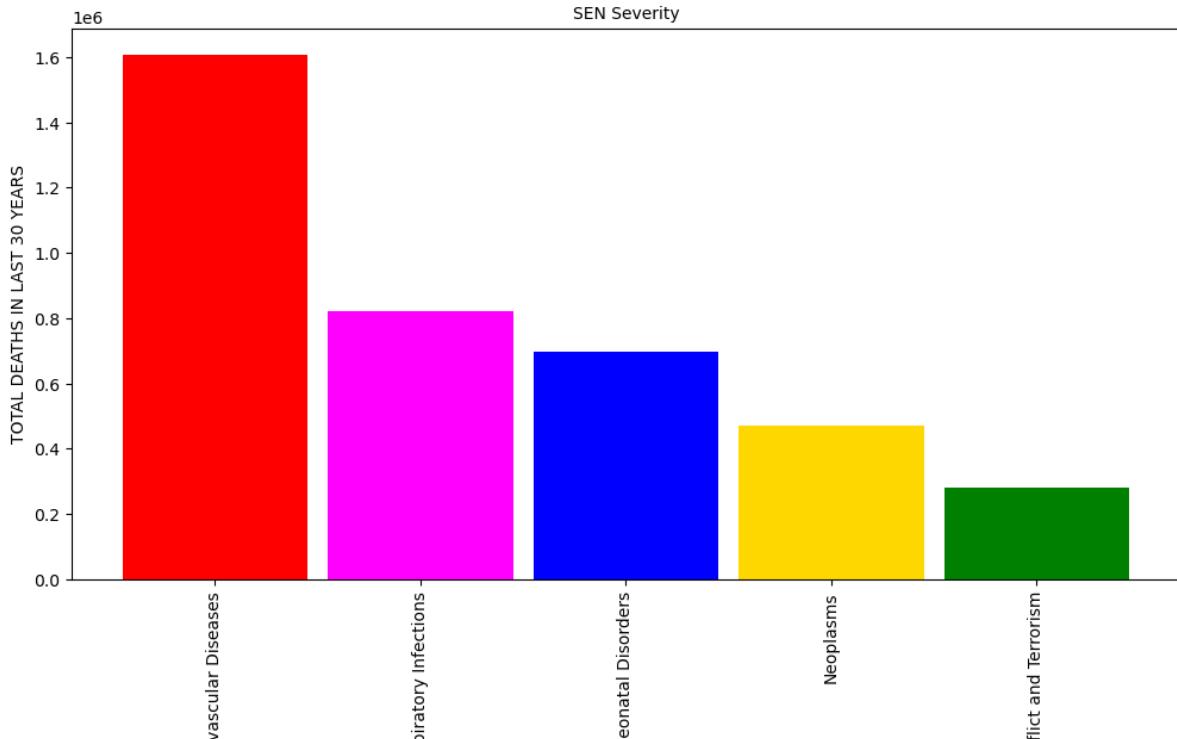
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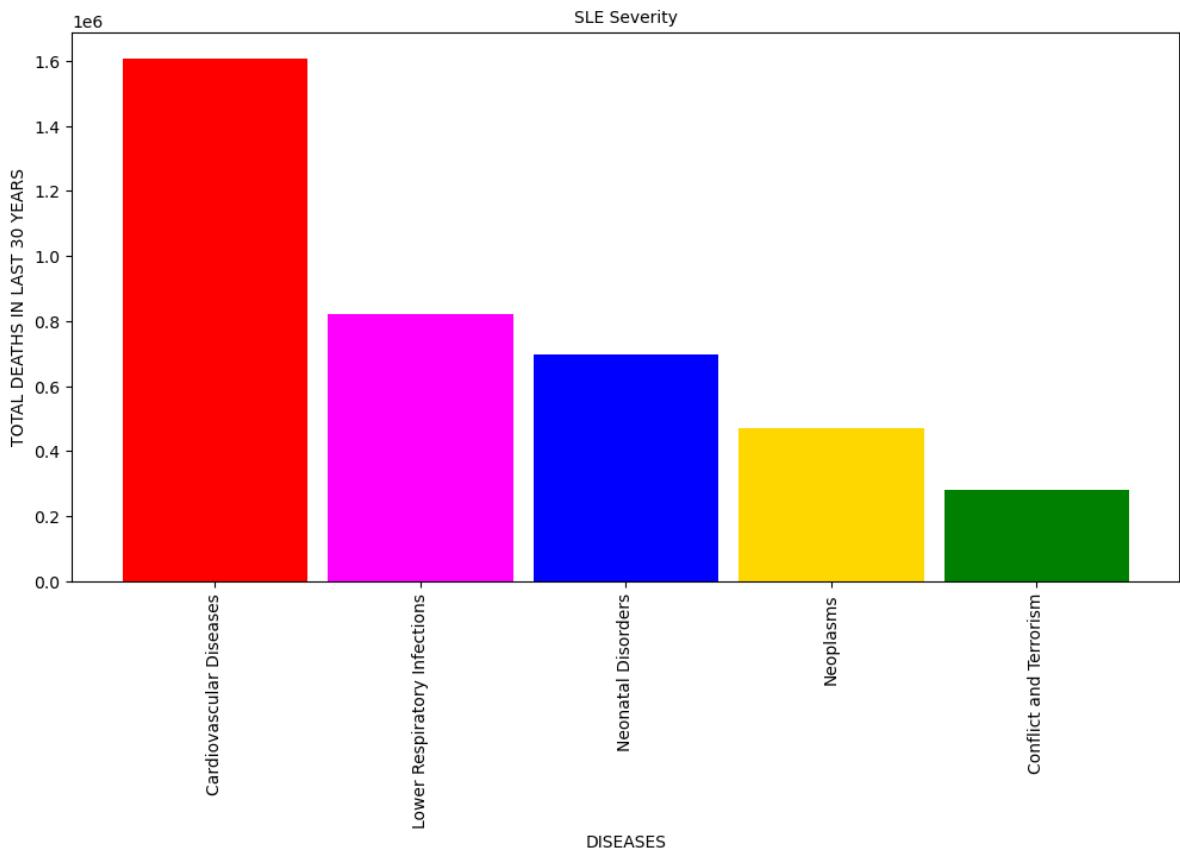
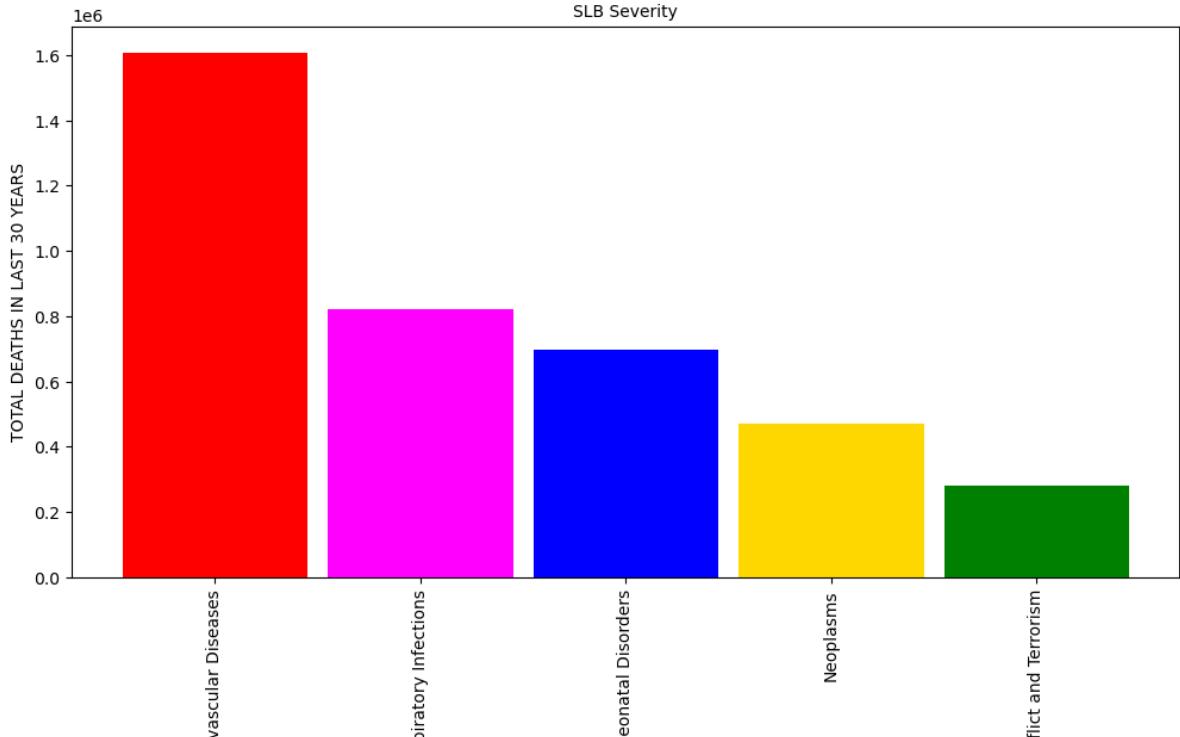
## Cause of Deaths around the World



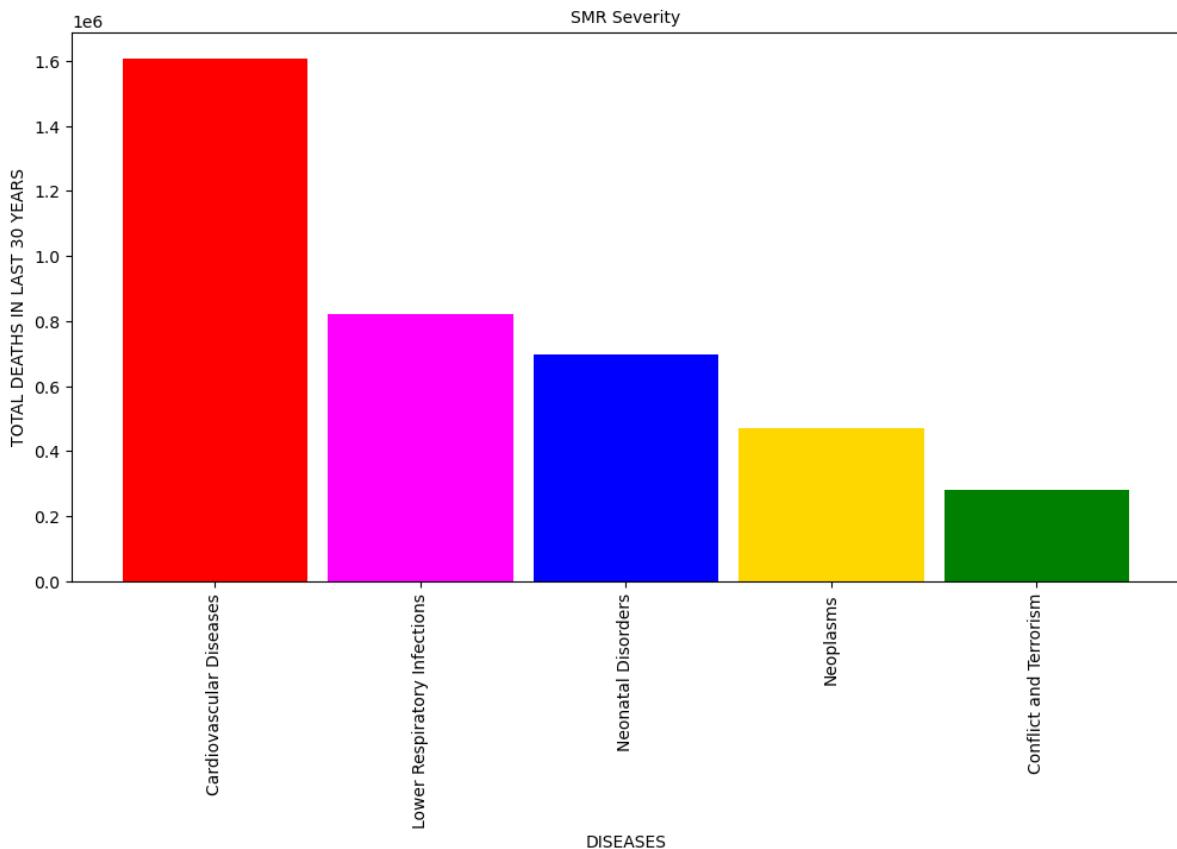
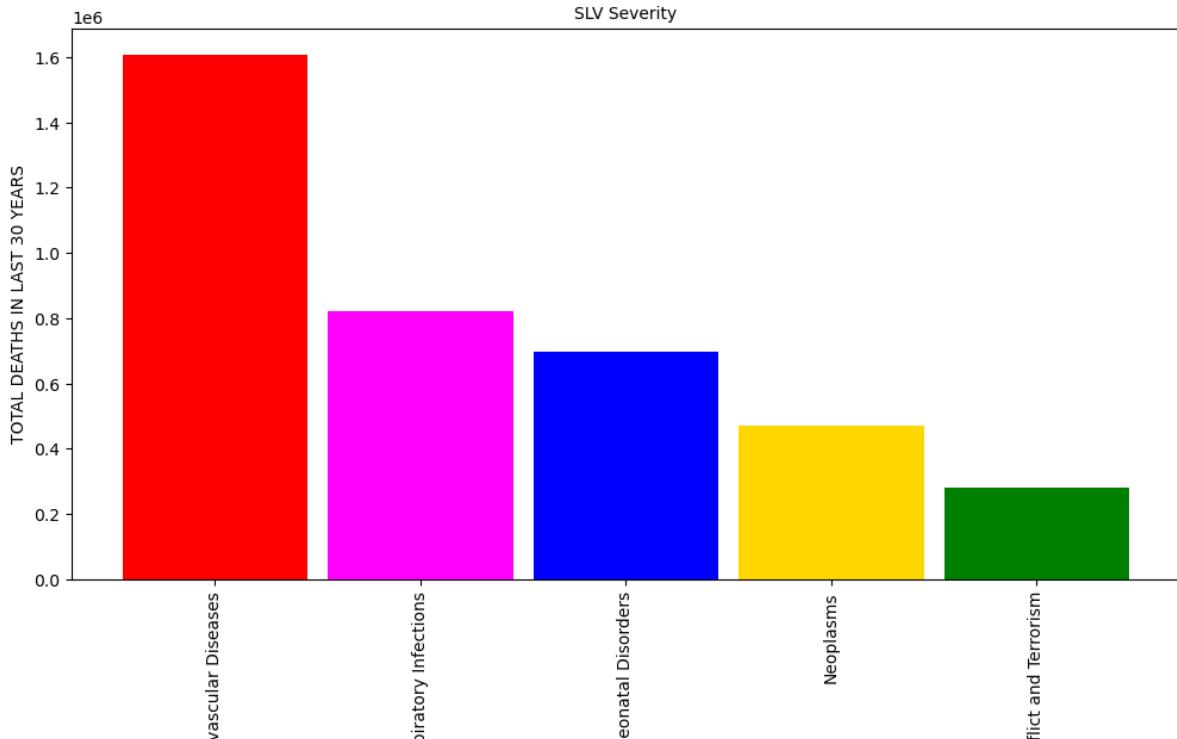
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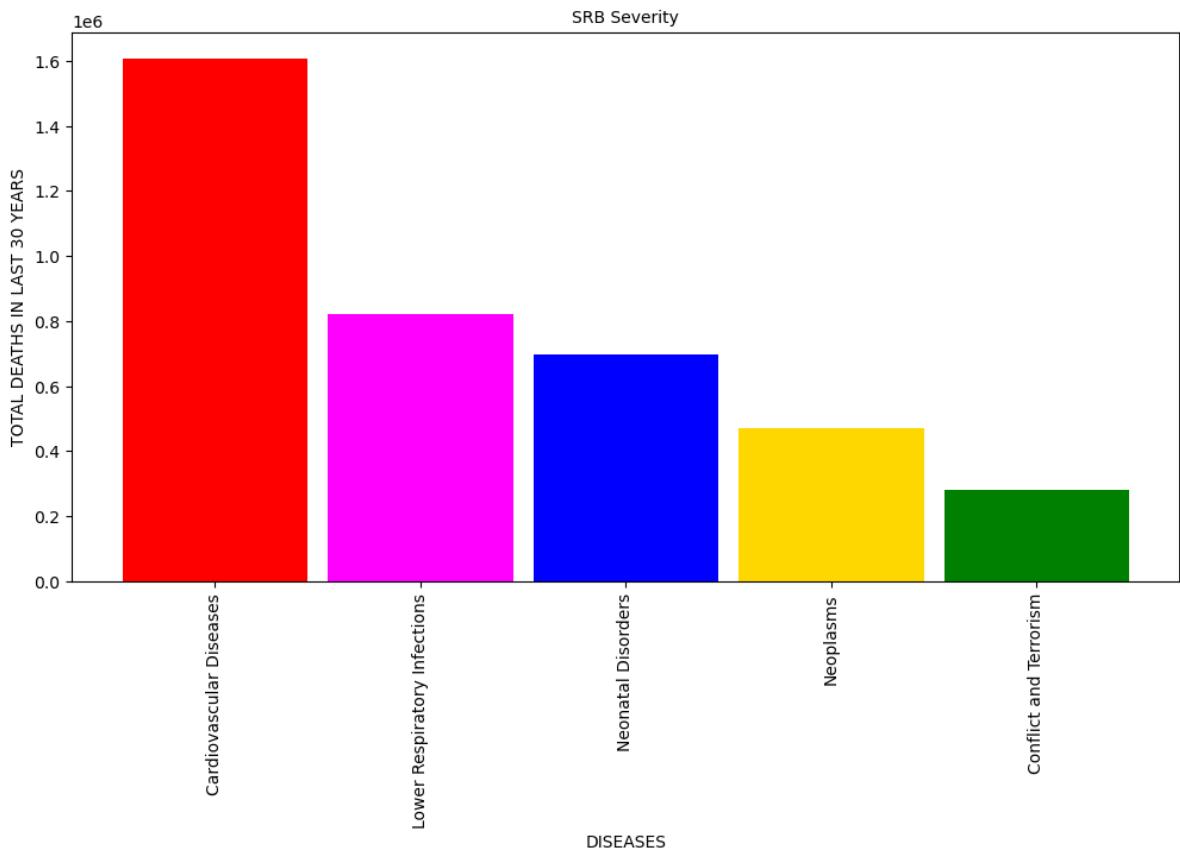
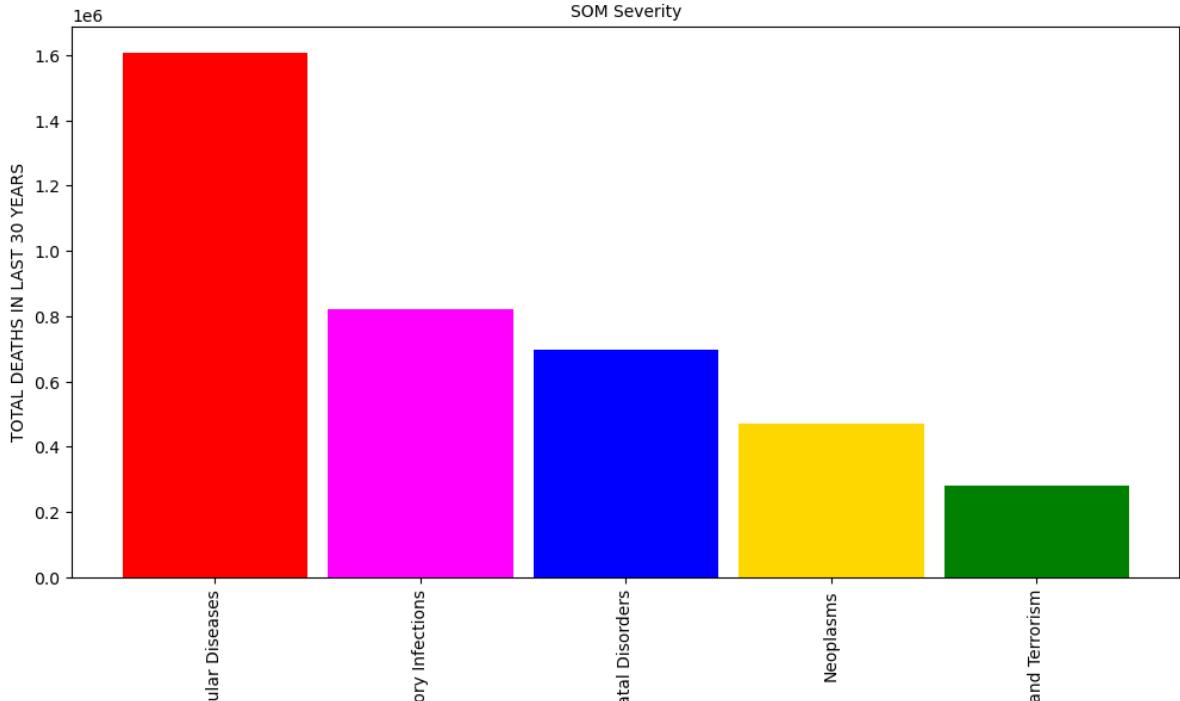
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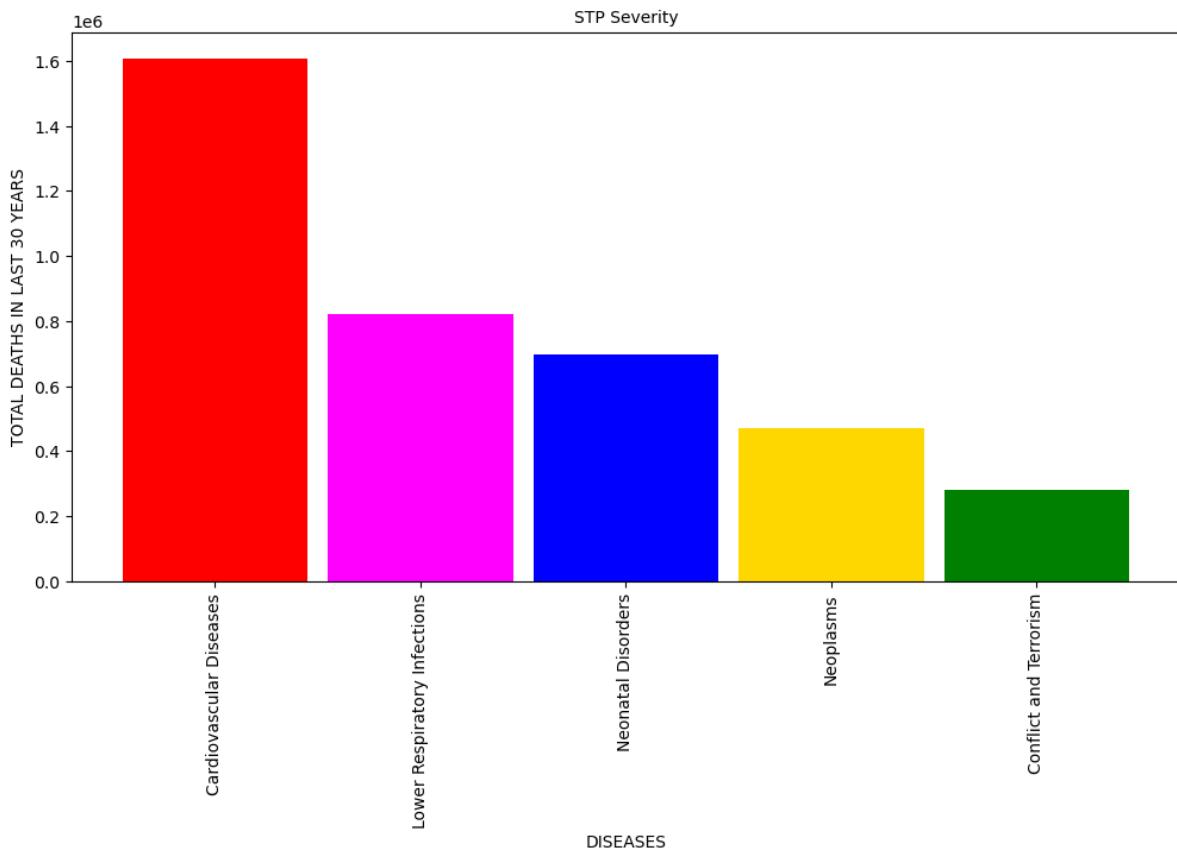
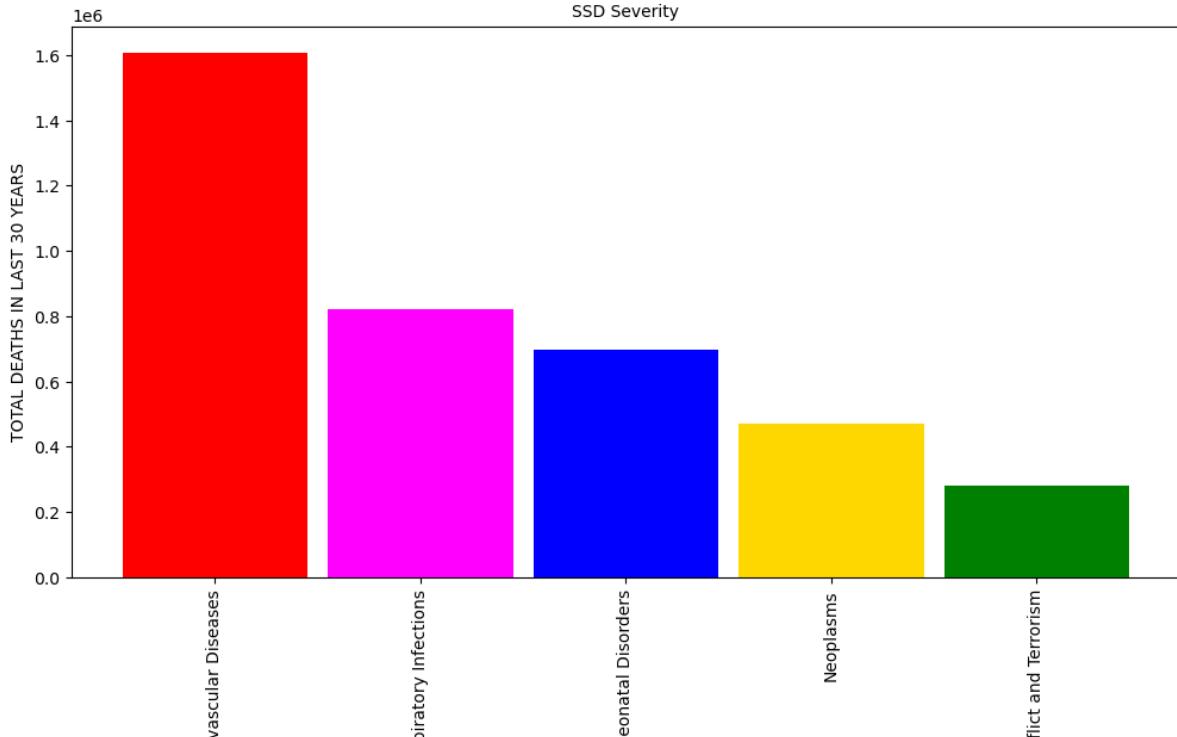
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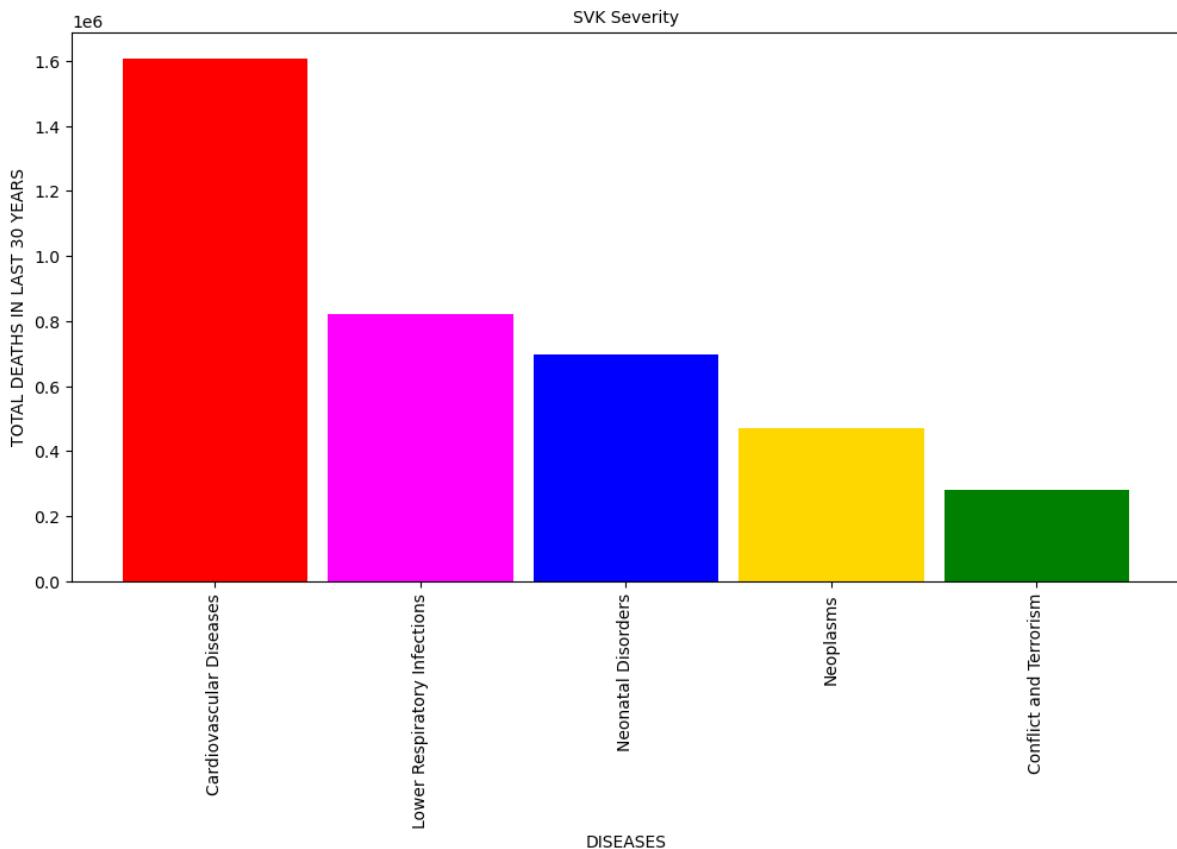
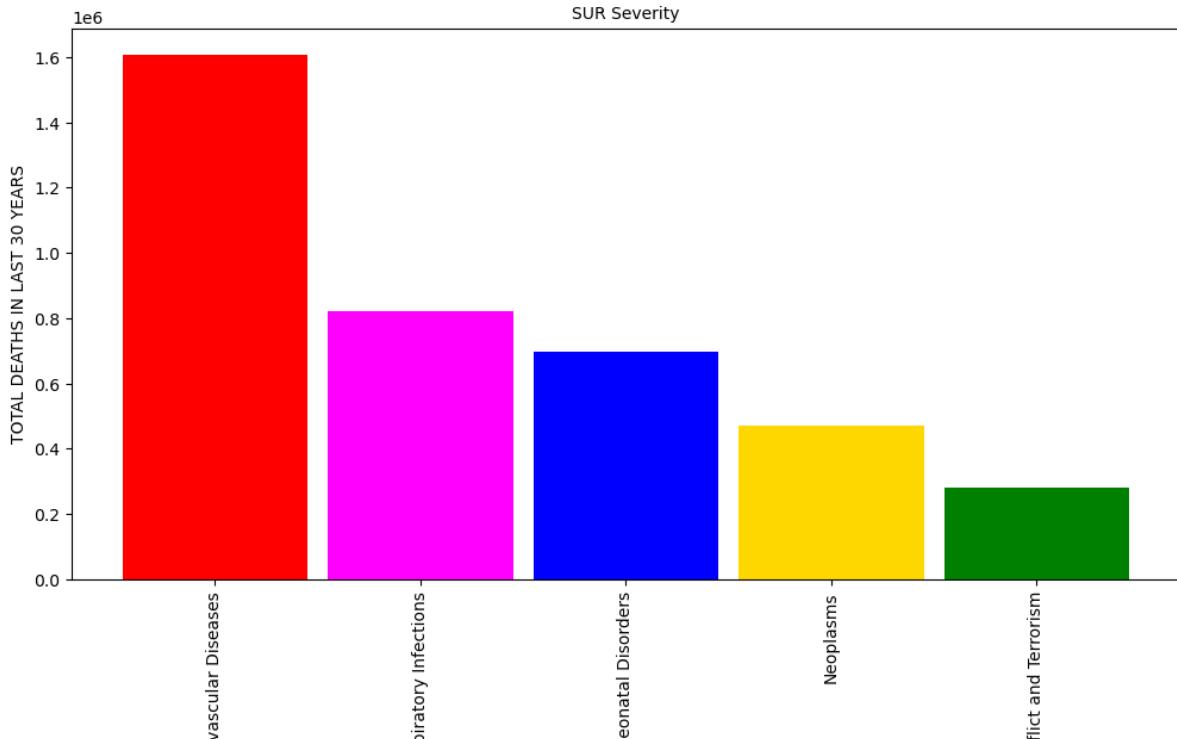
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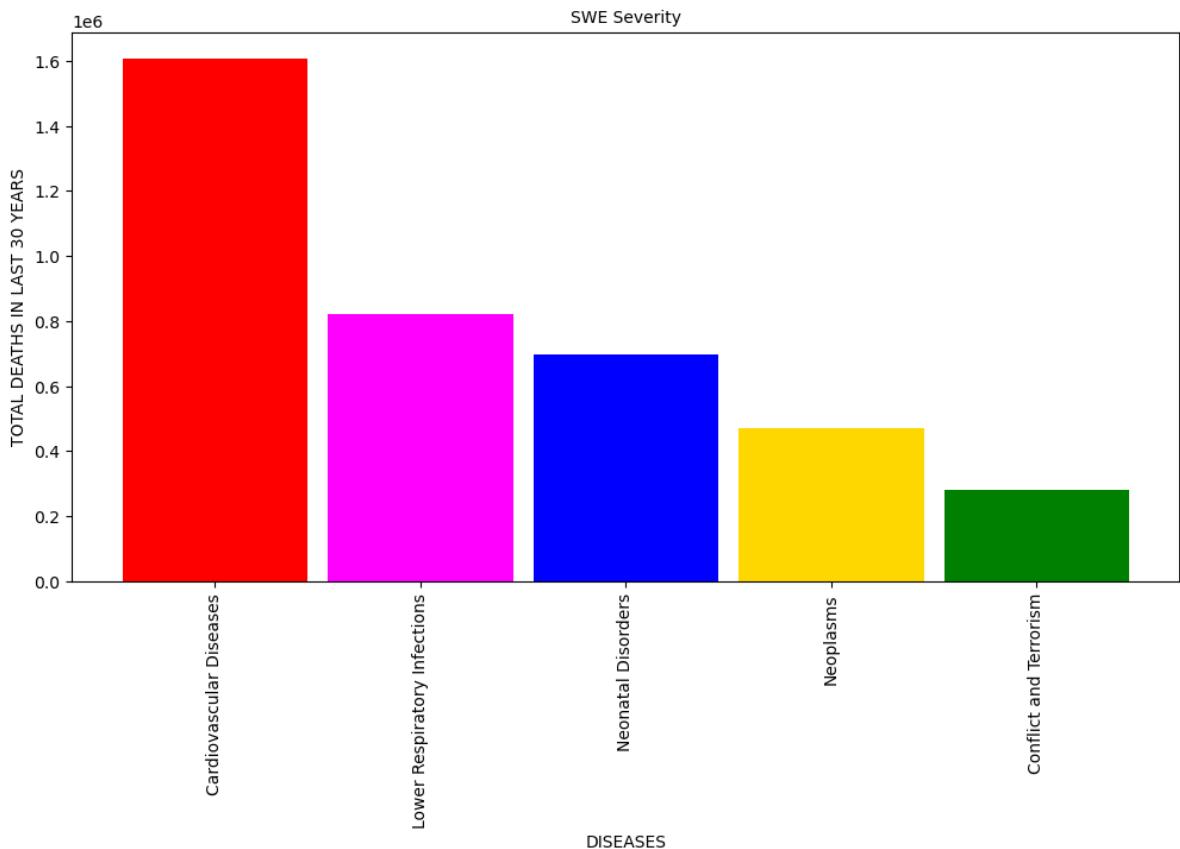
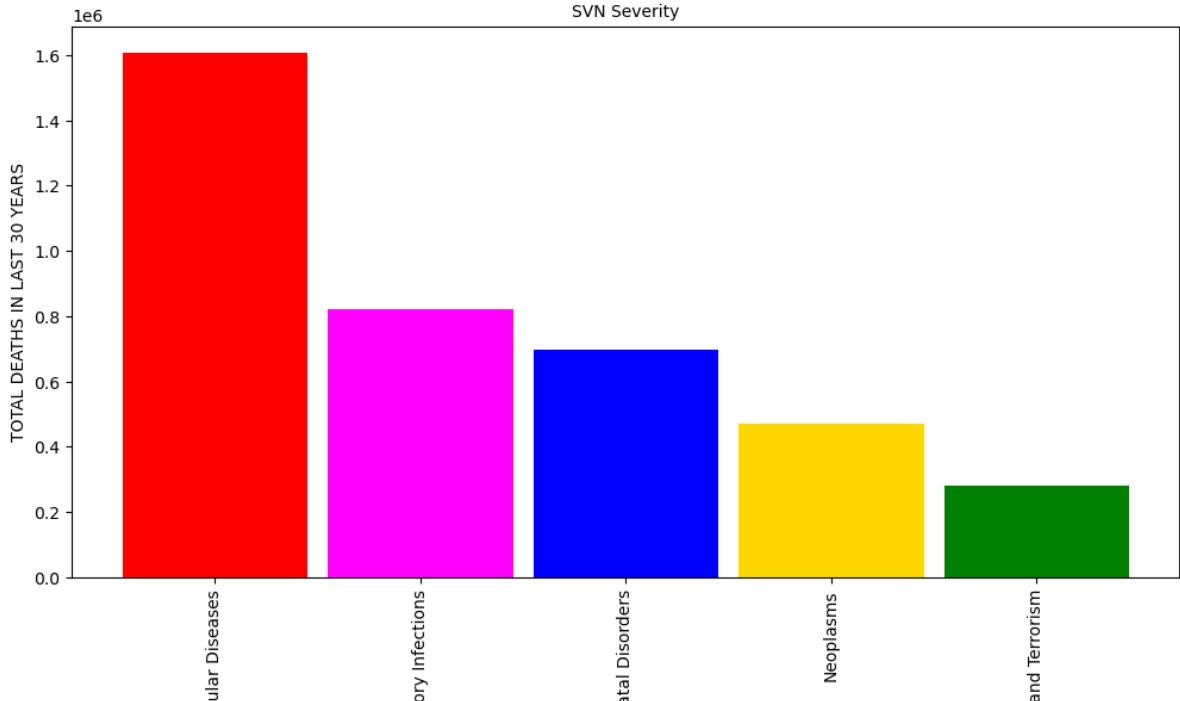
## Cause of Deaths around the World



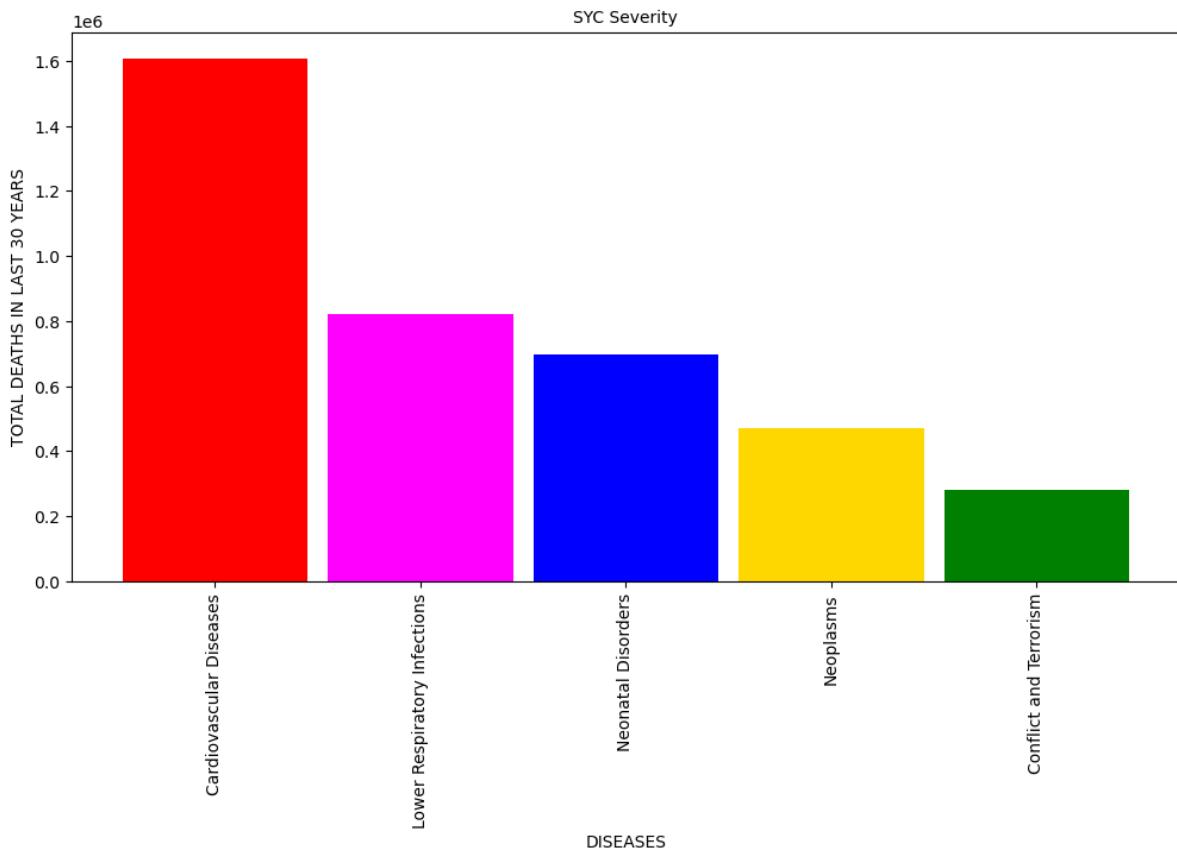
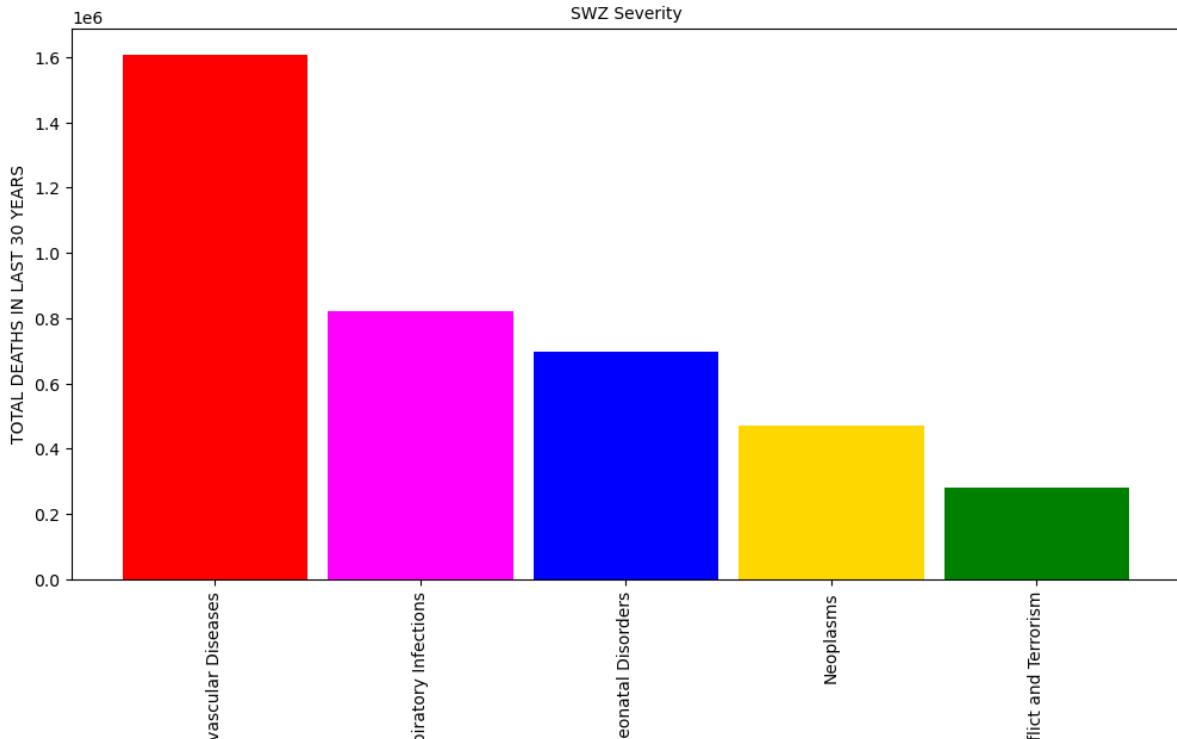
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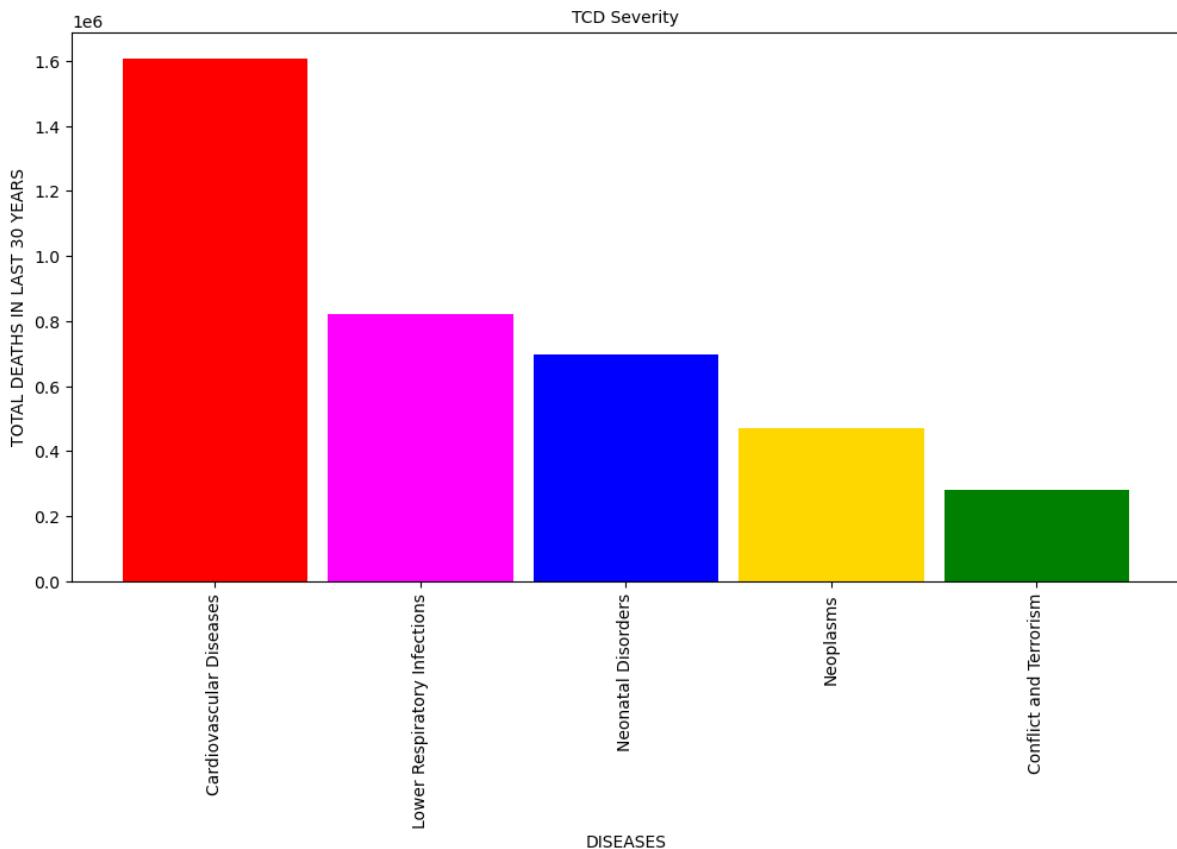
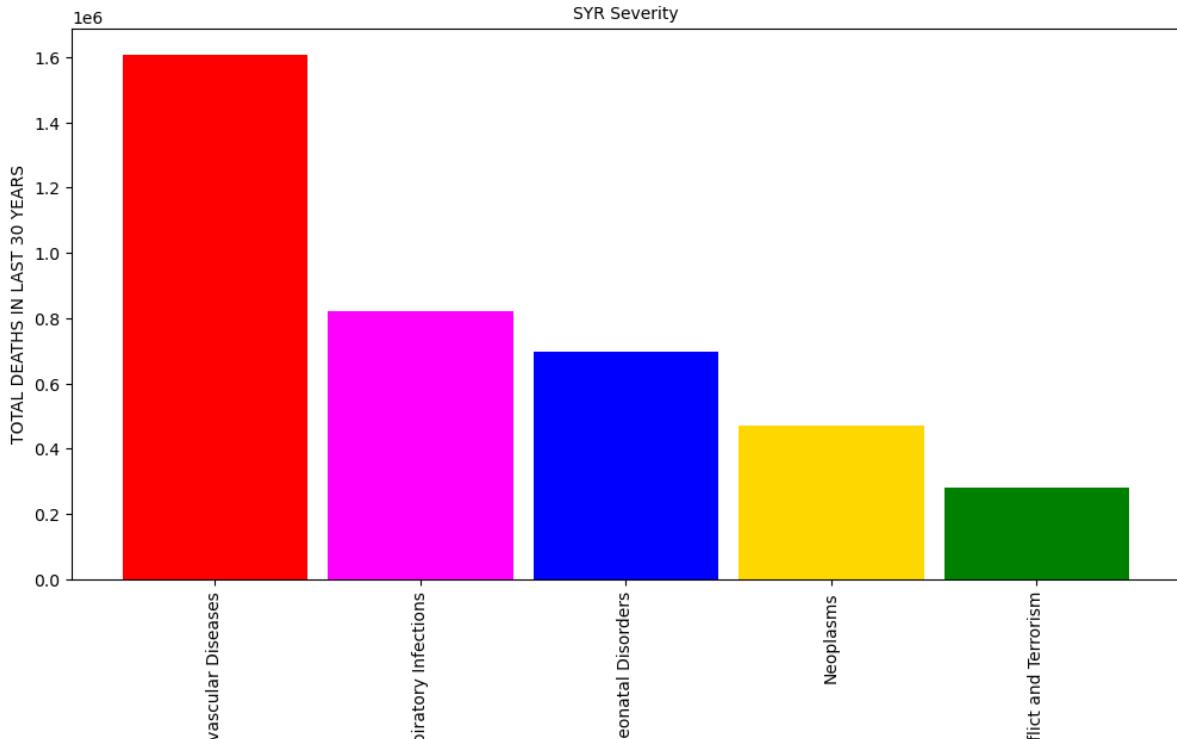
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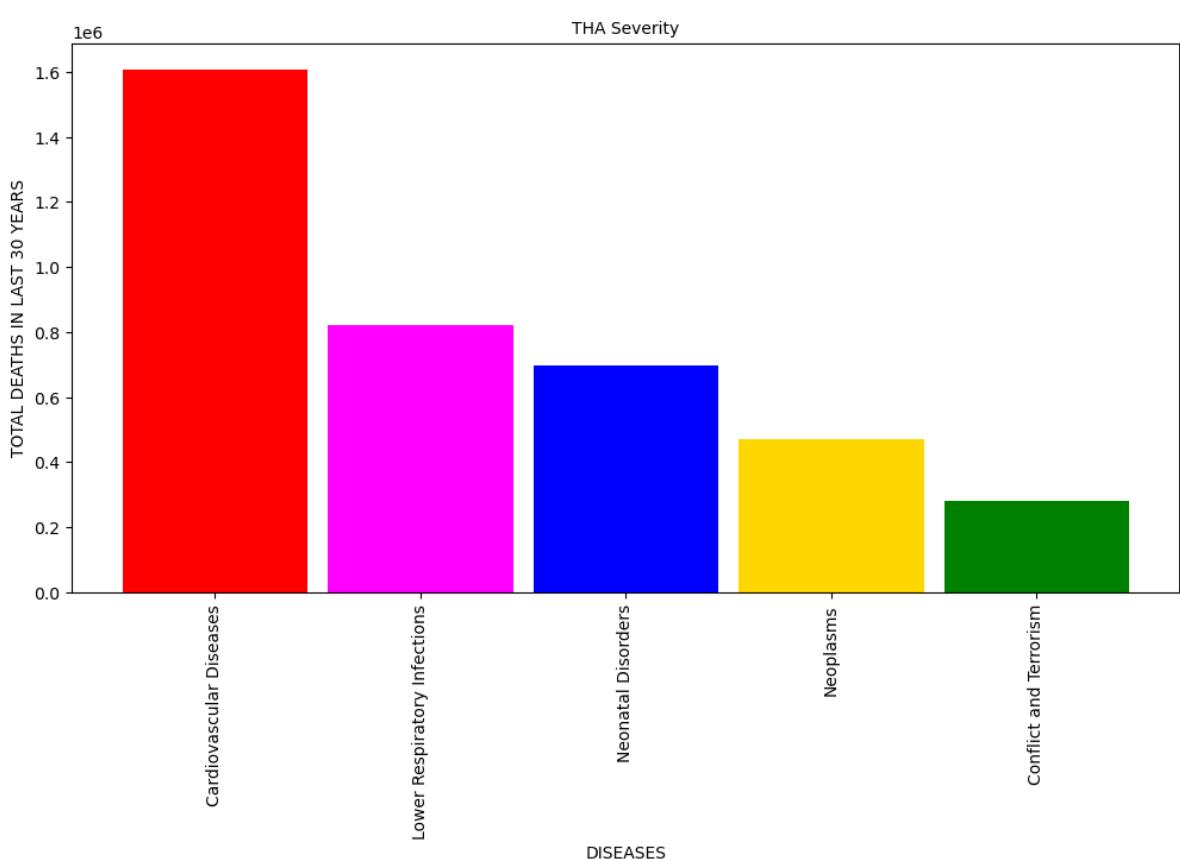
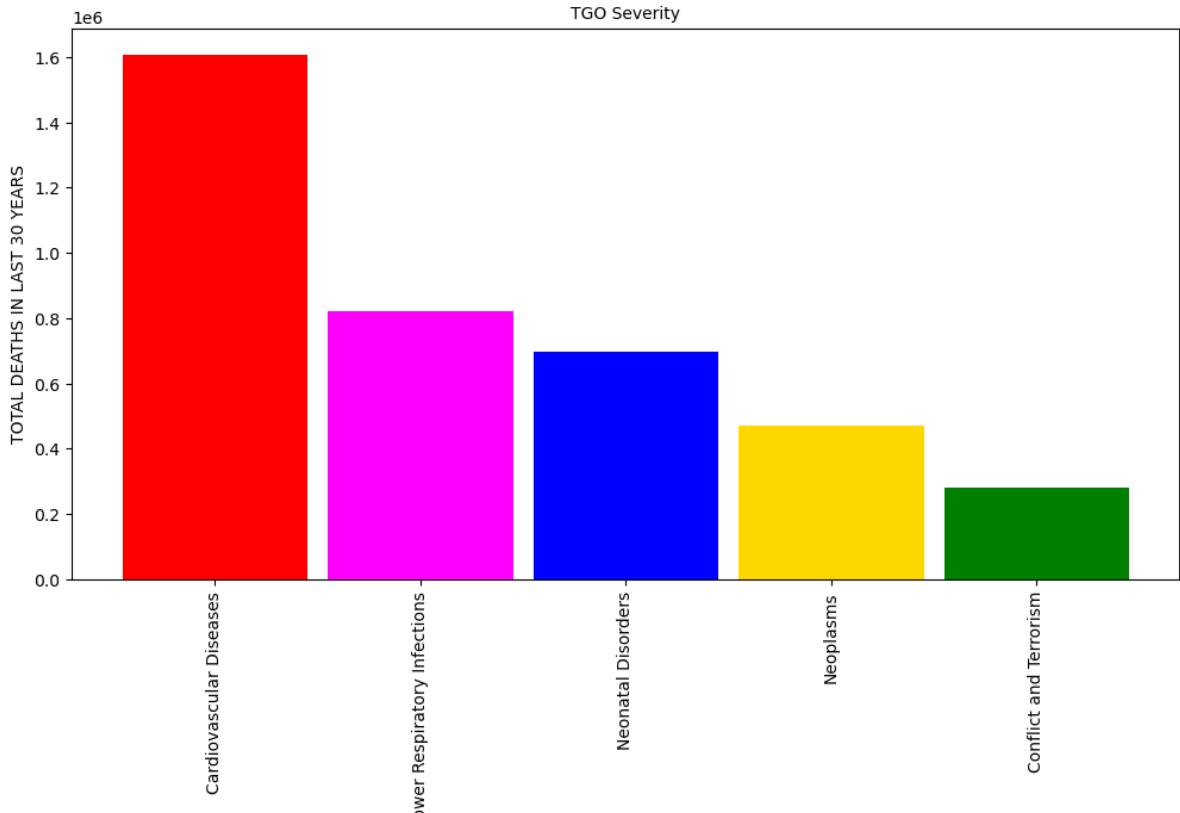
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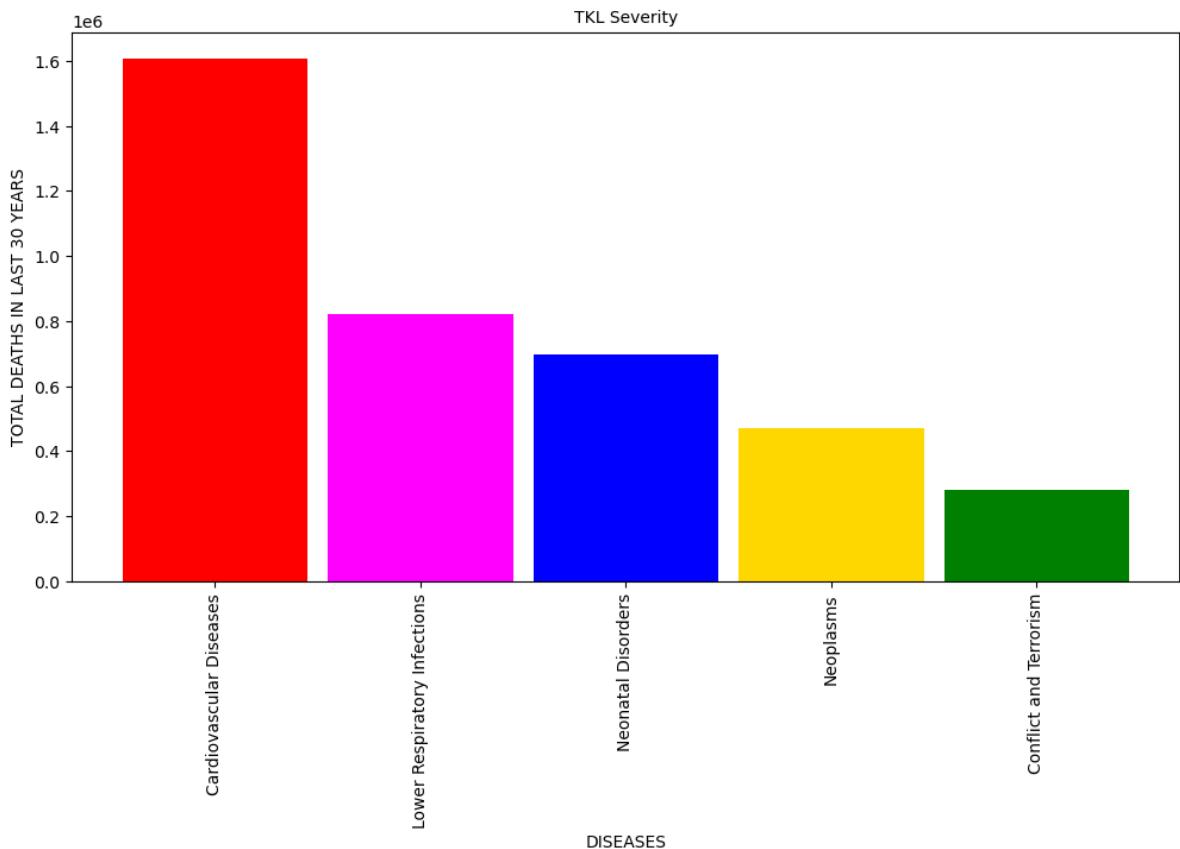
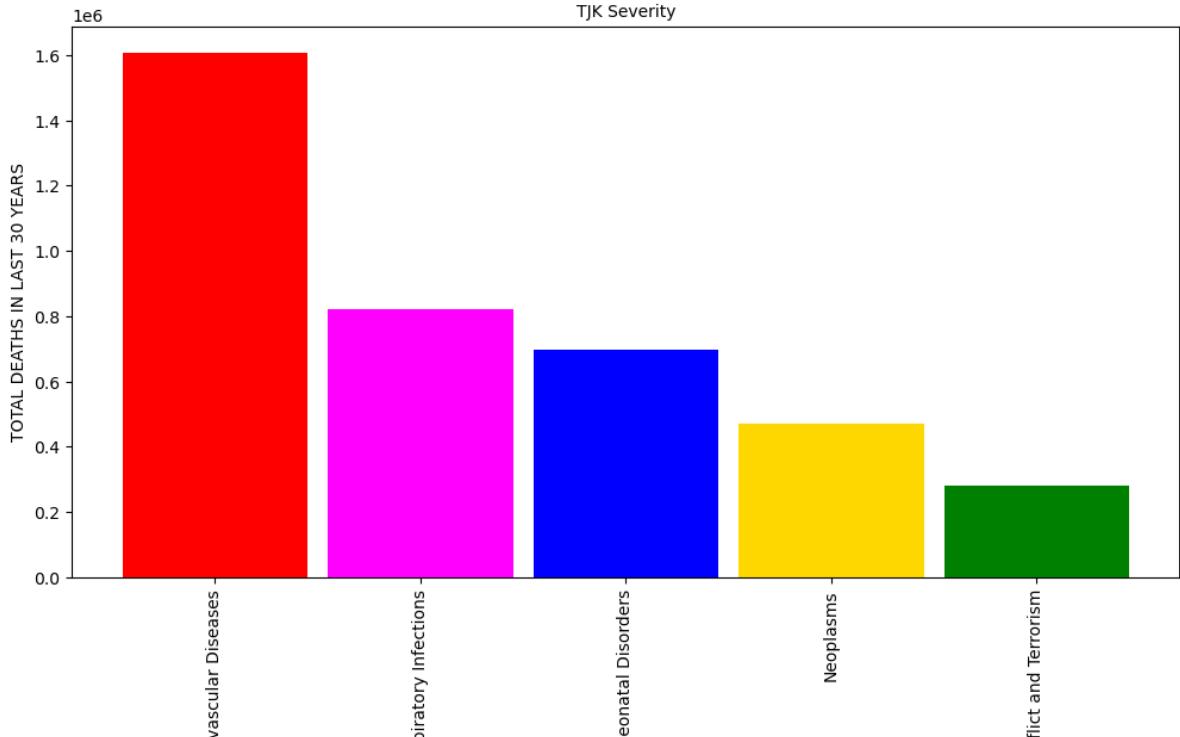
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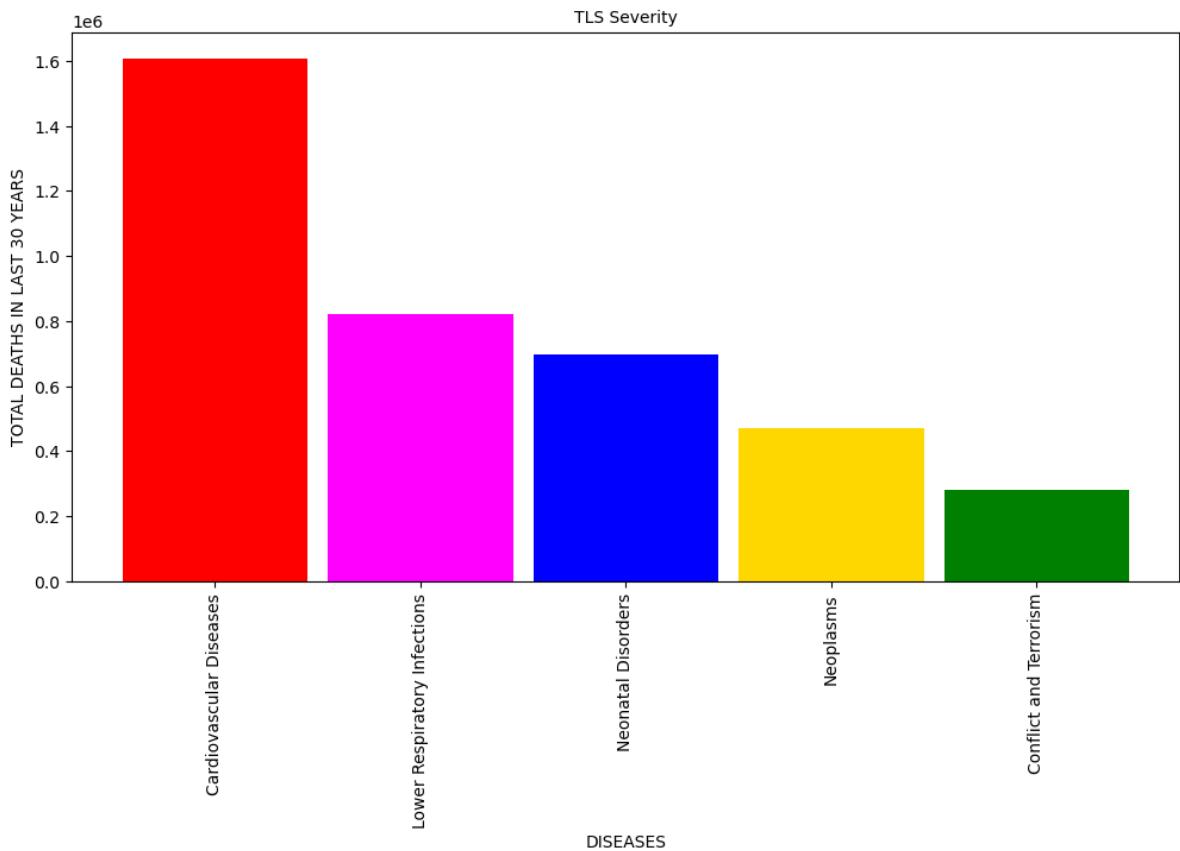
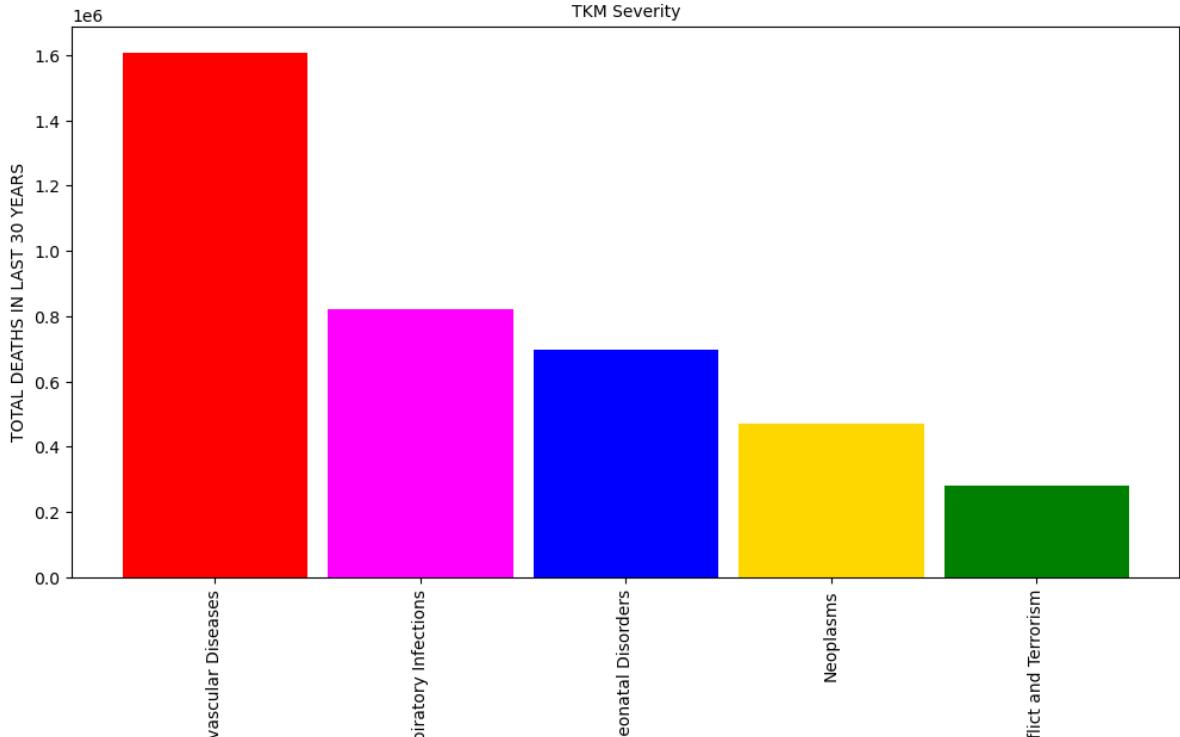
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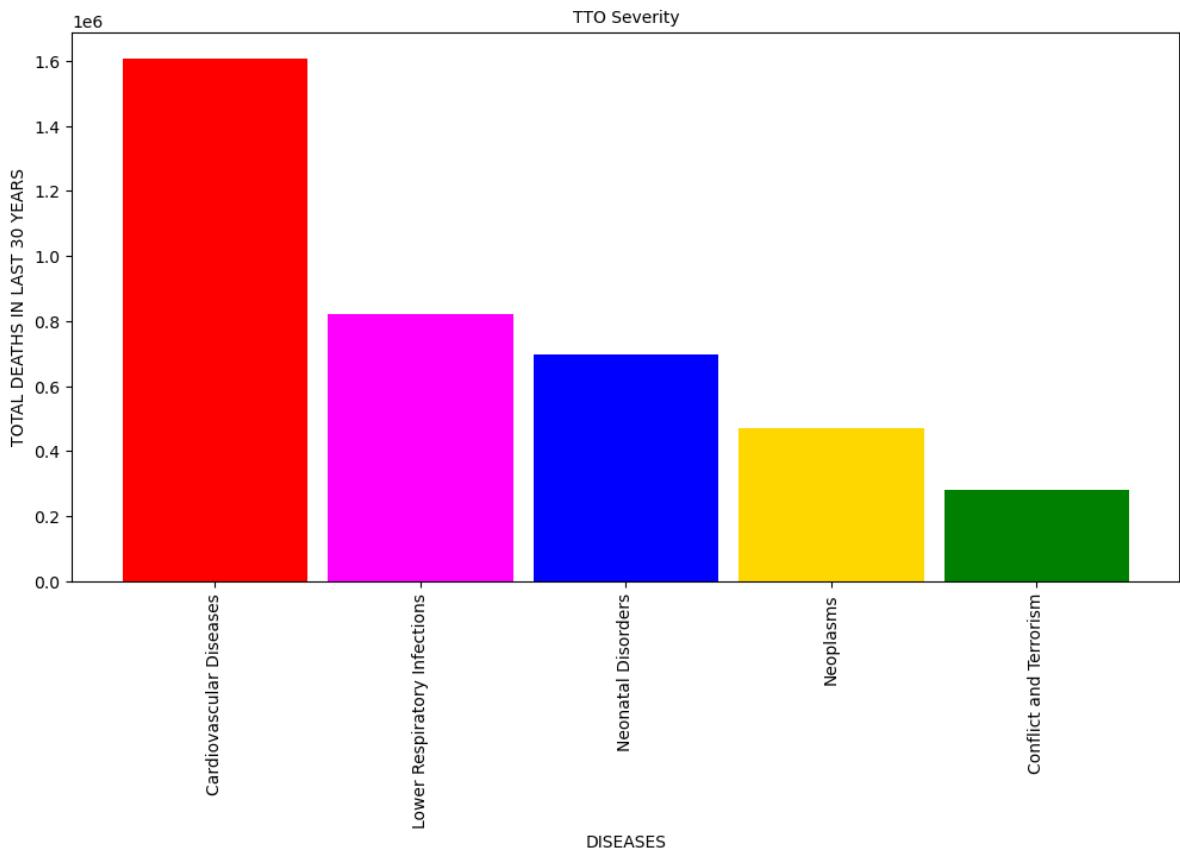
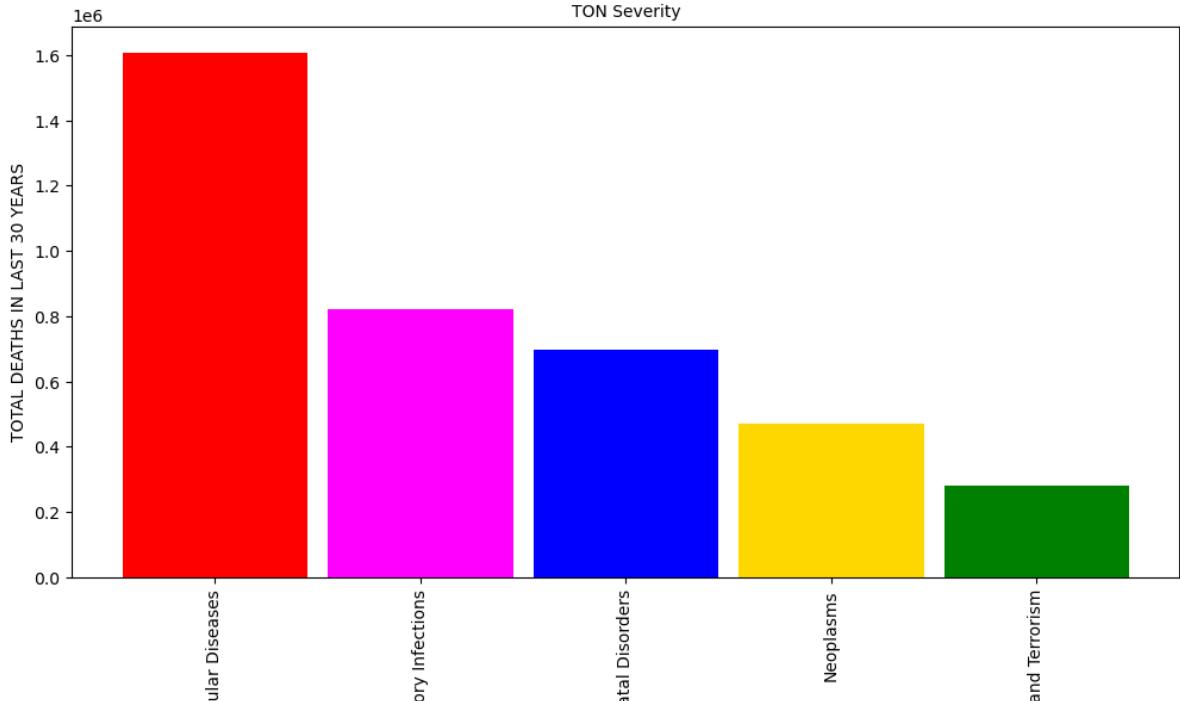
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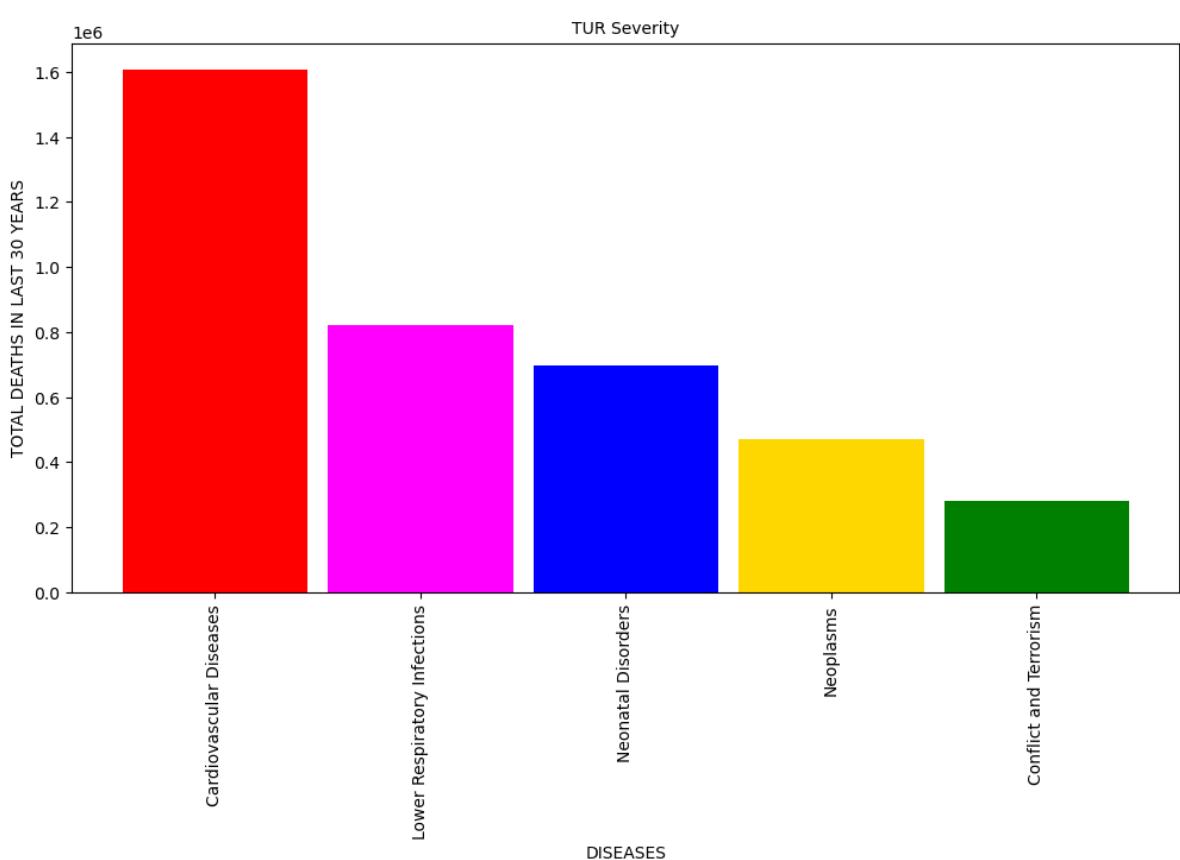
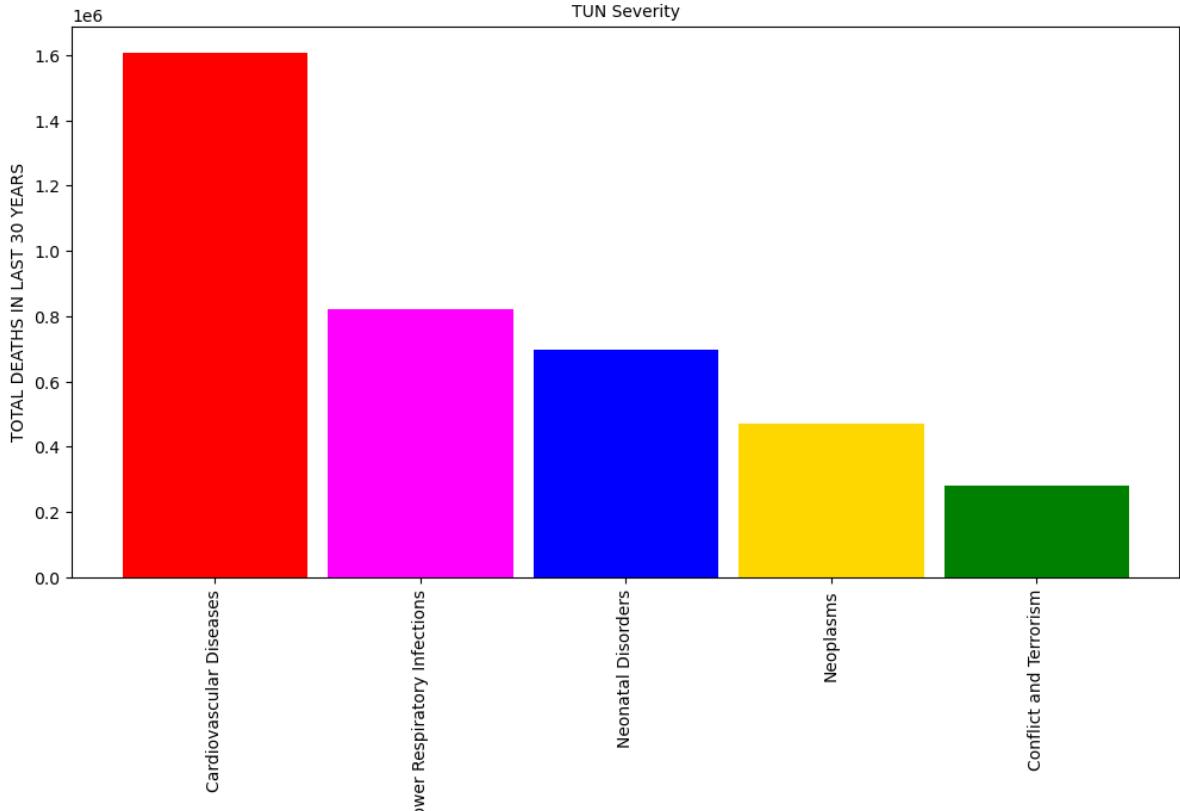
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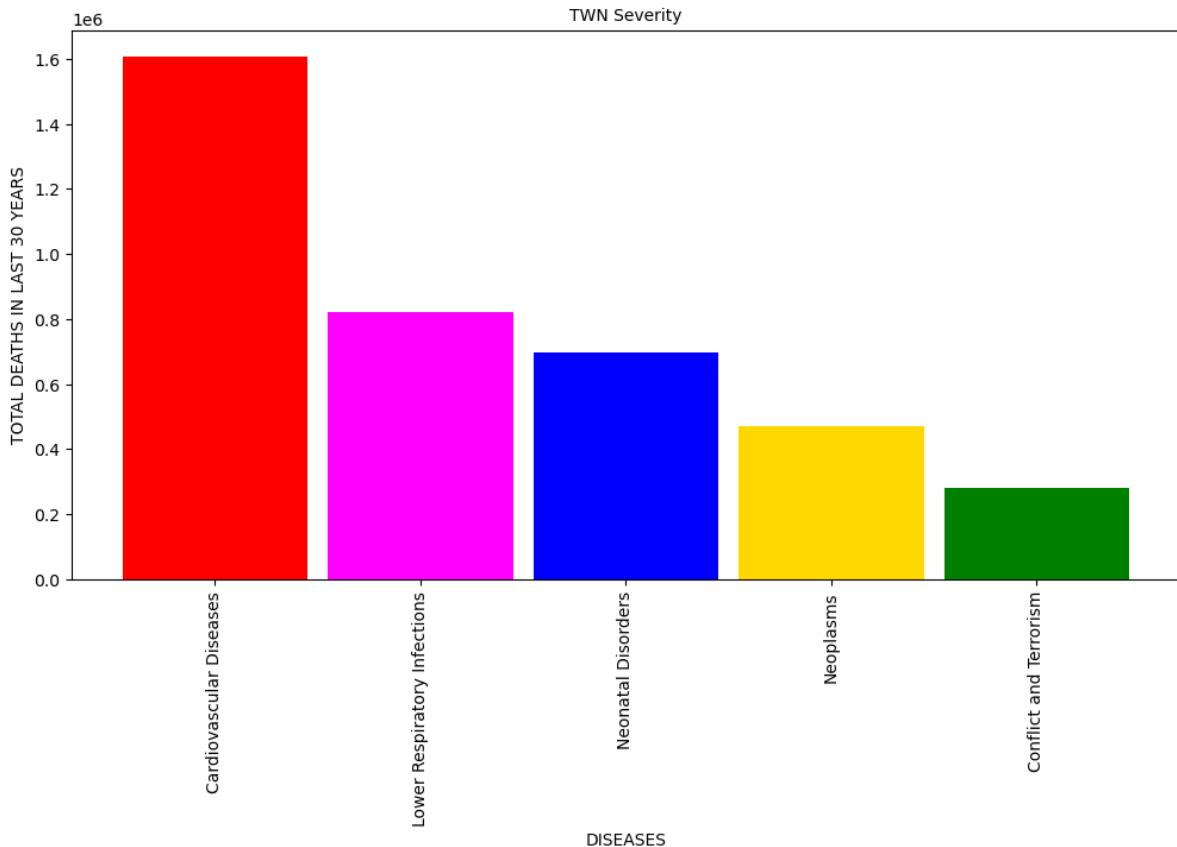
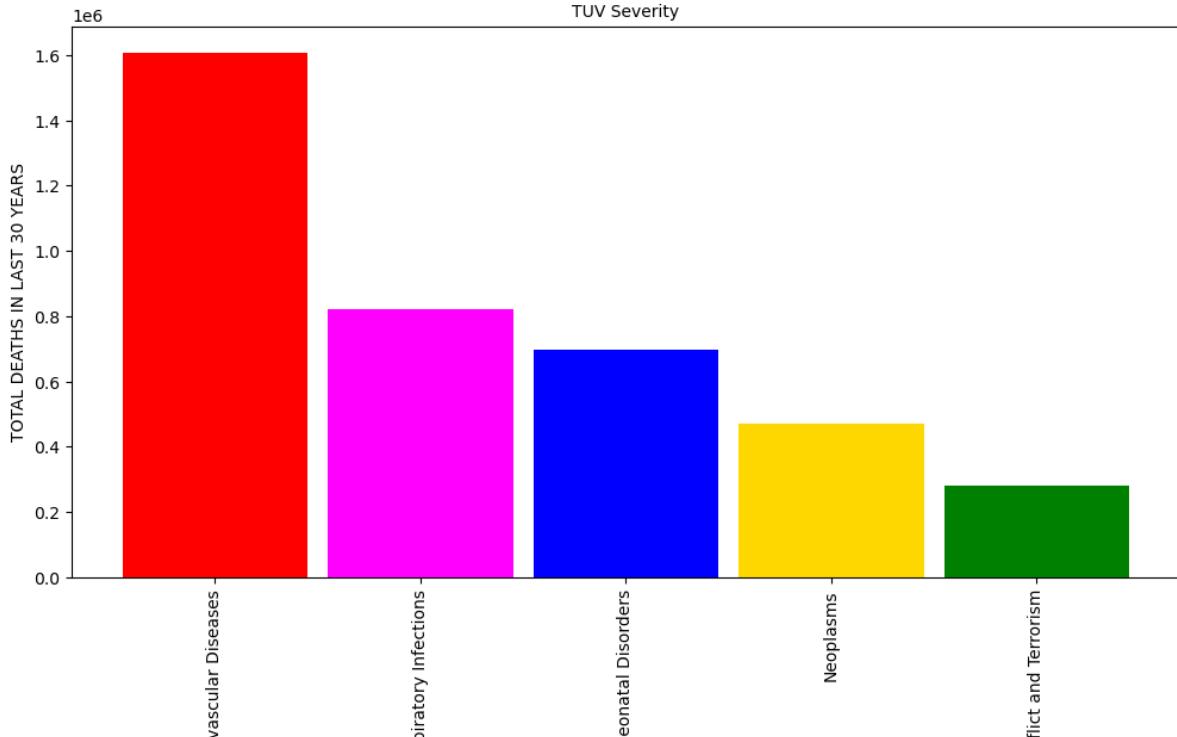
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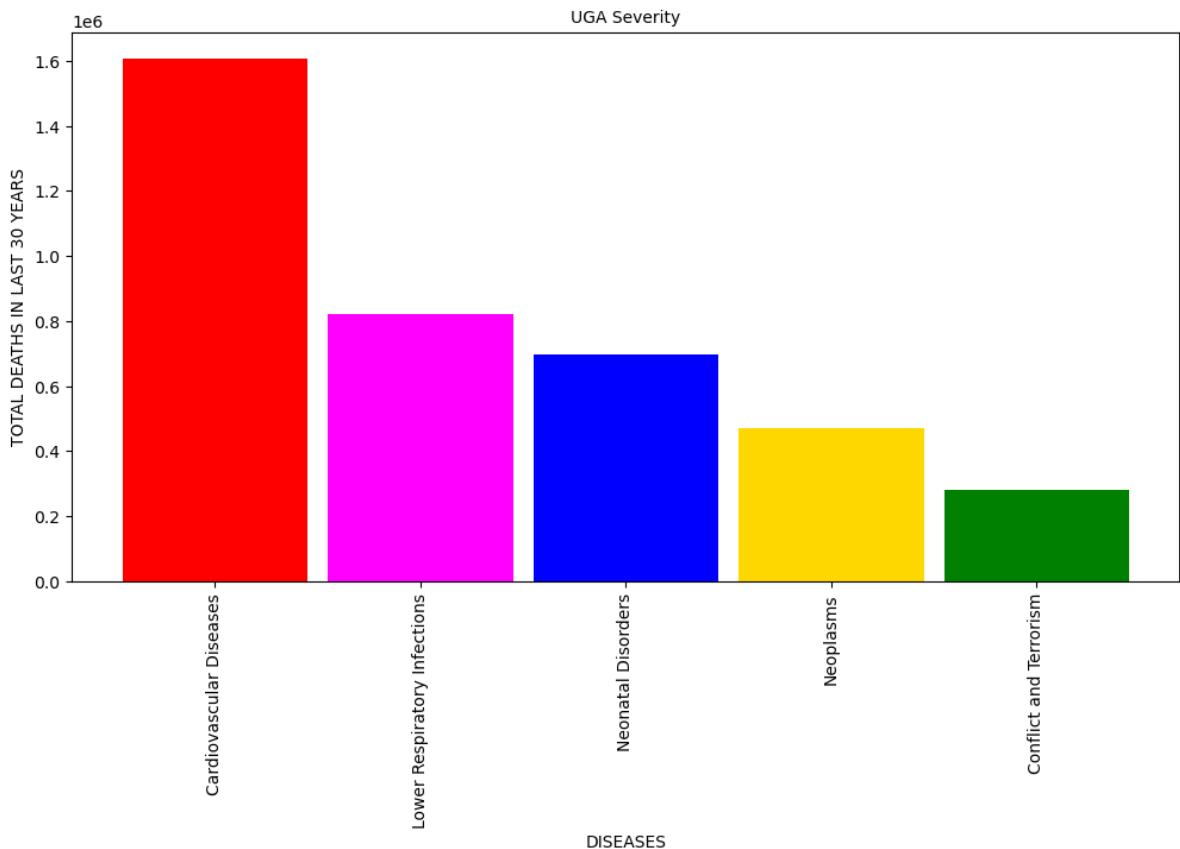
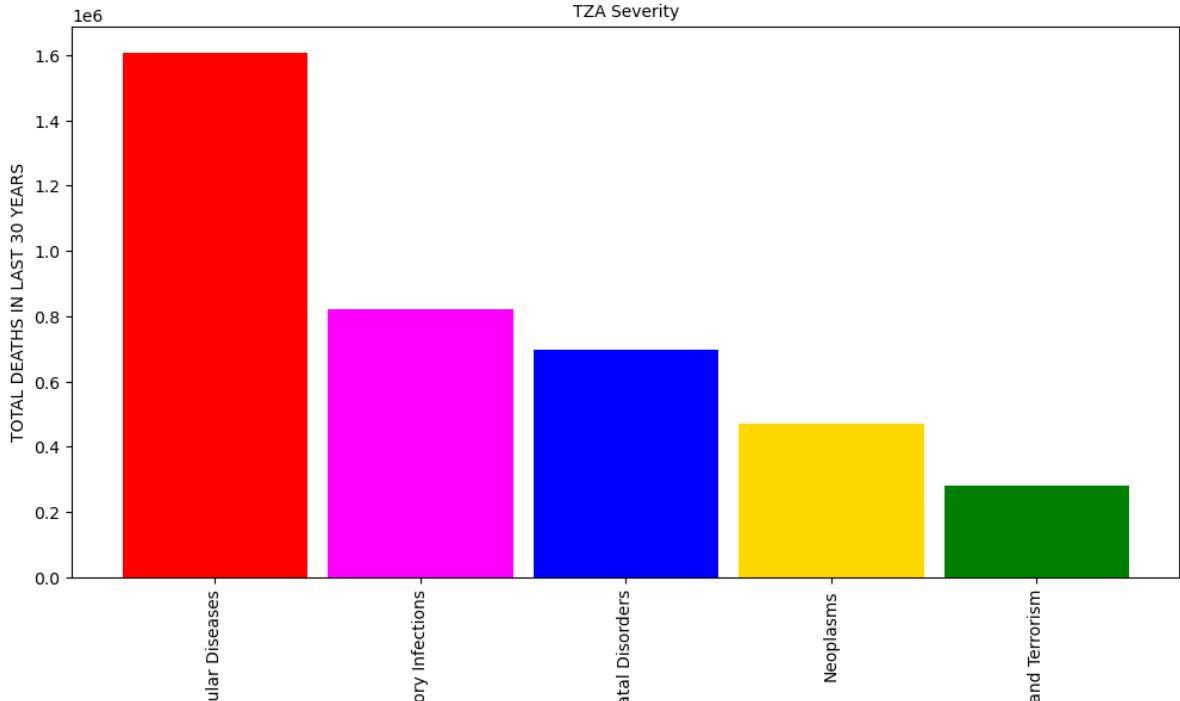
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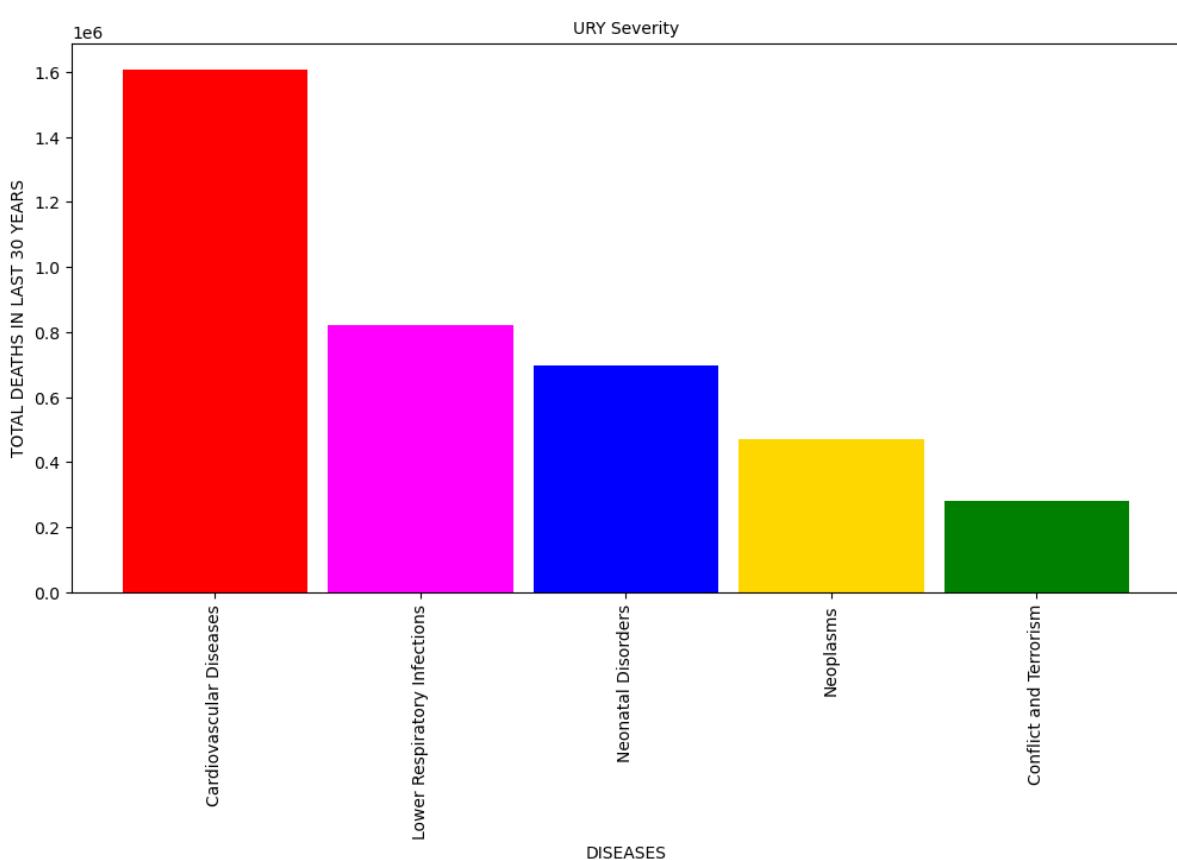
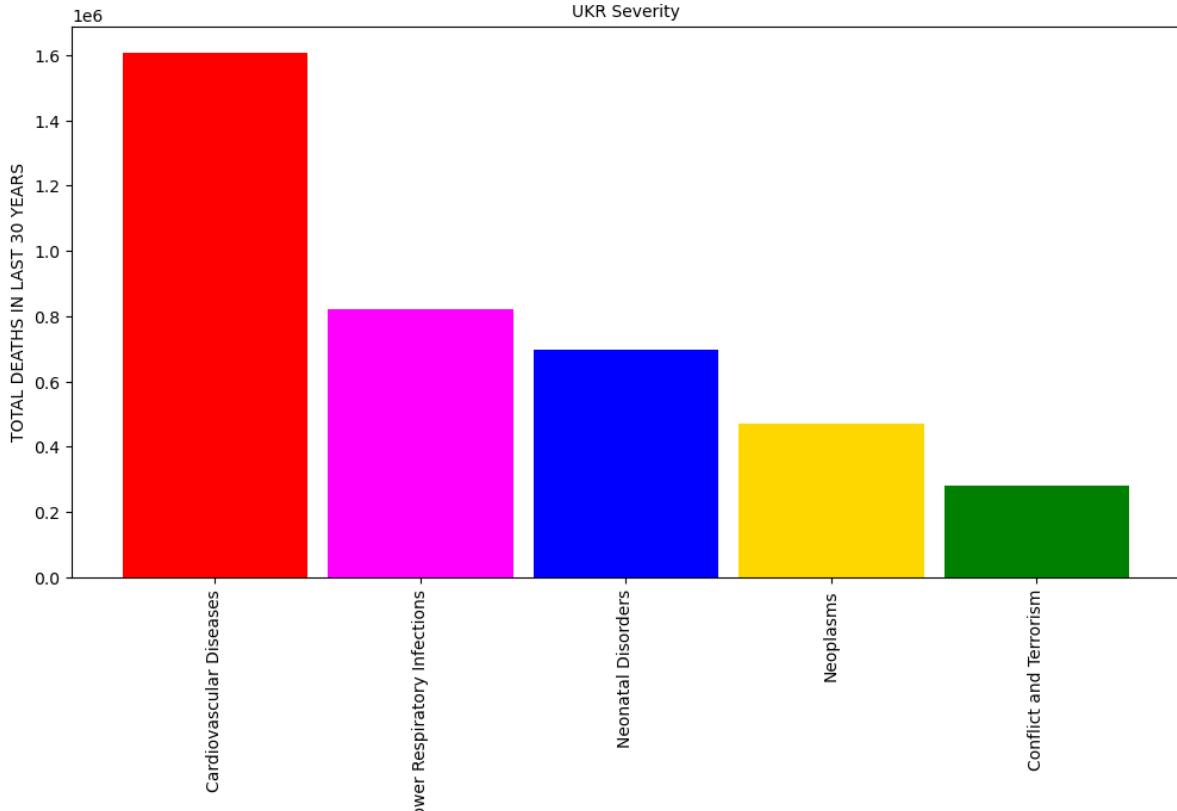


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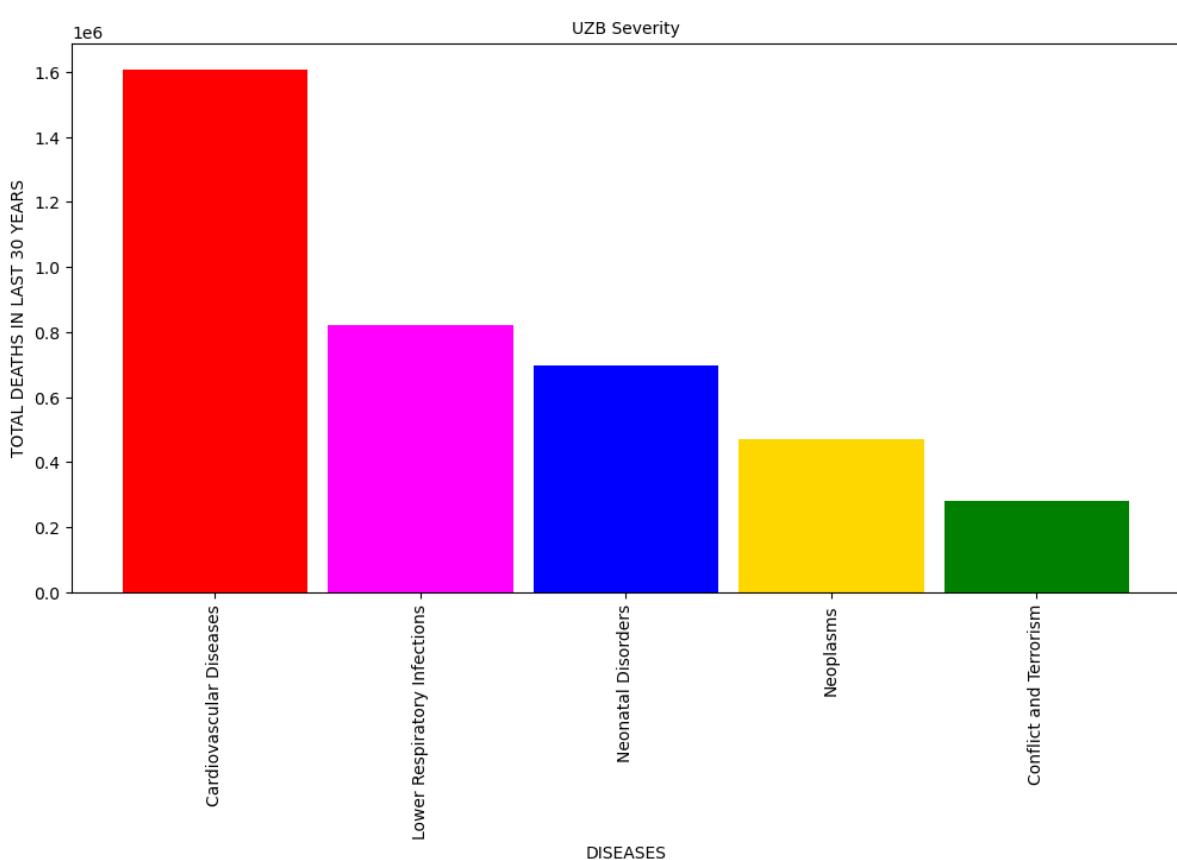
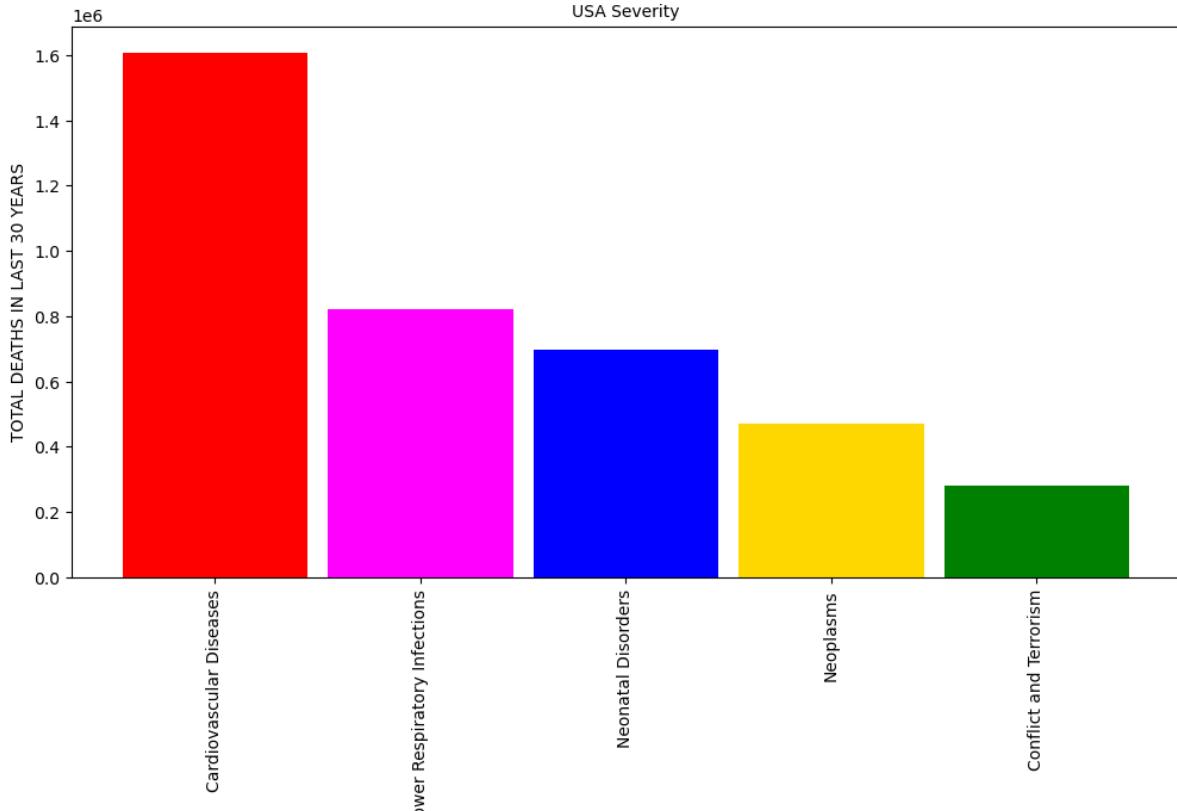


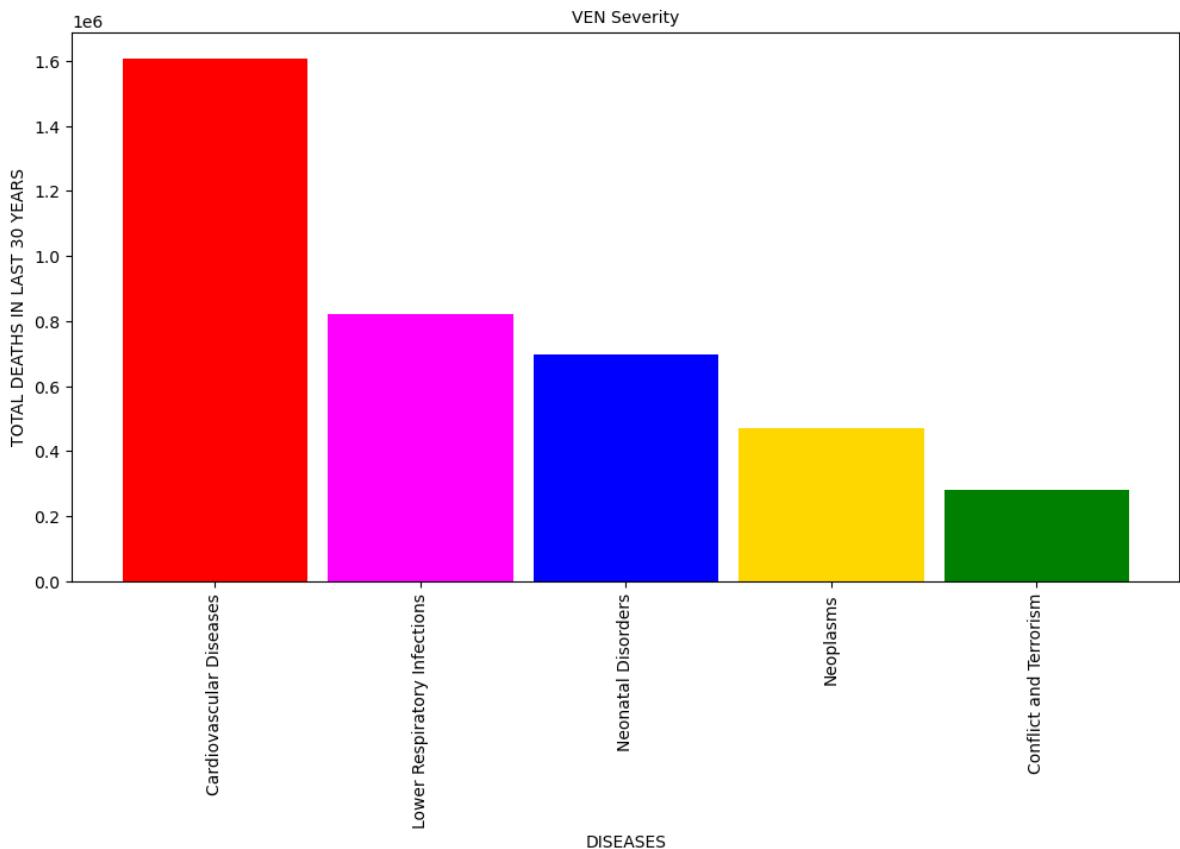
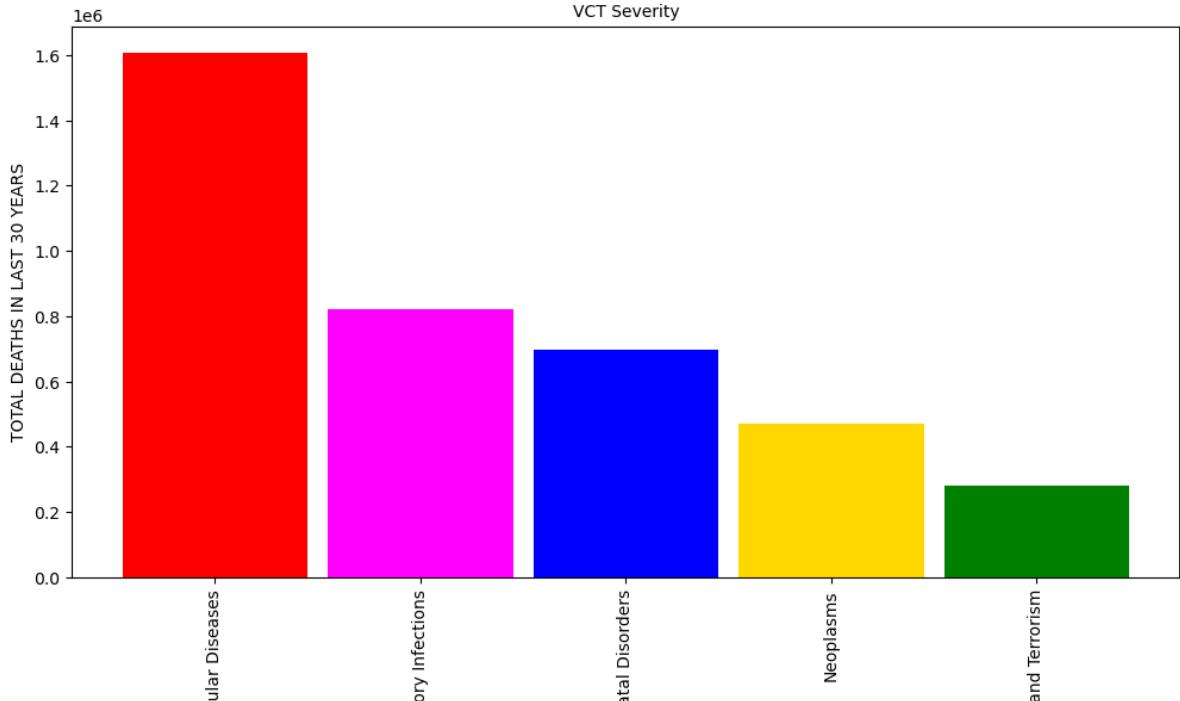
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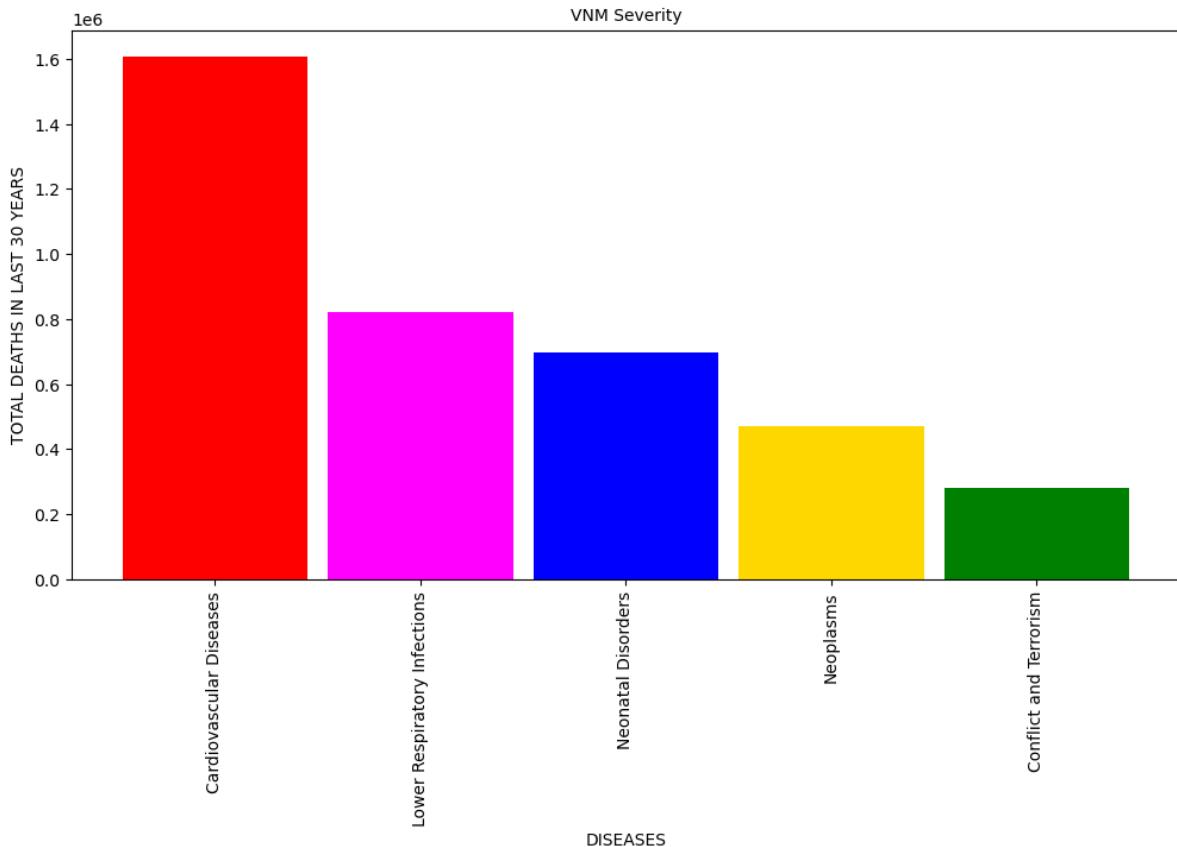
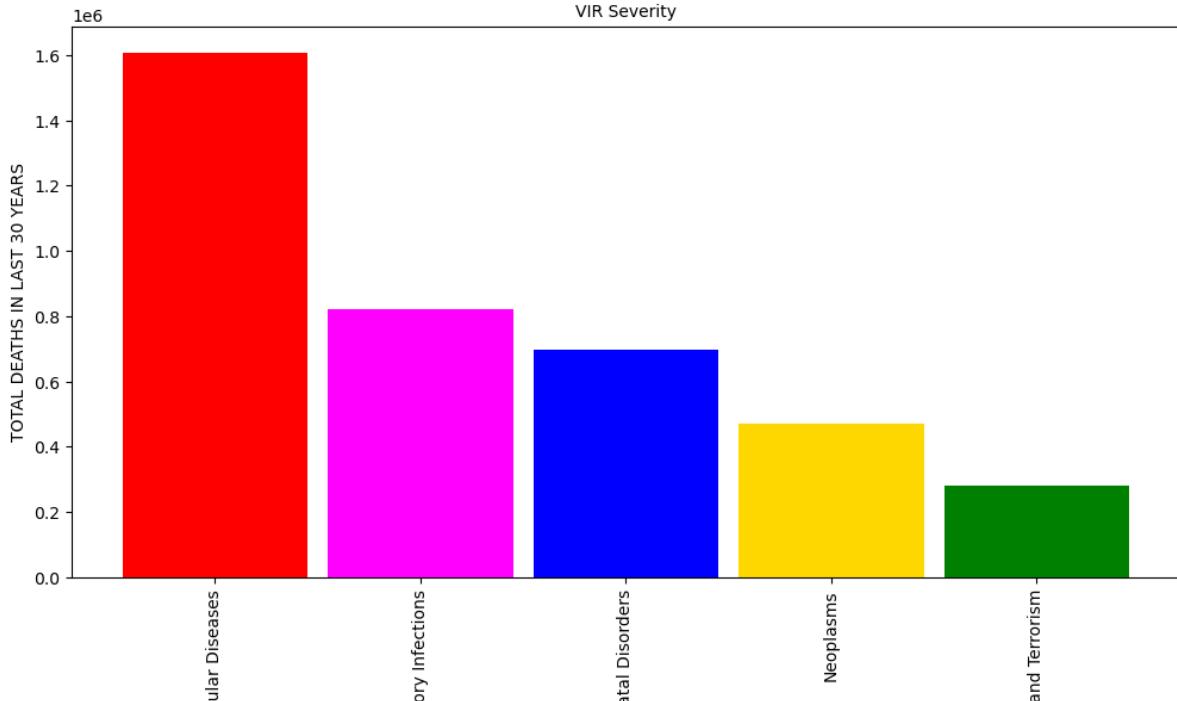


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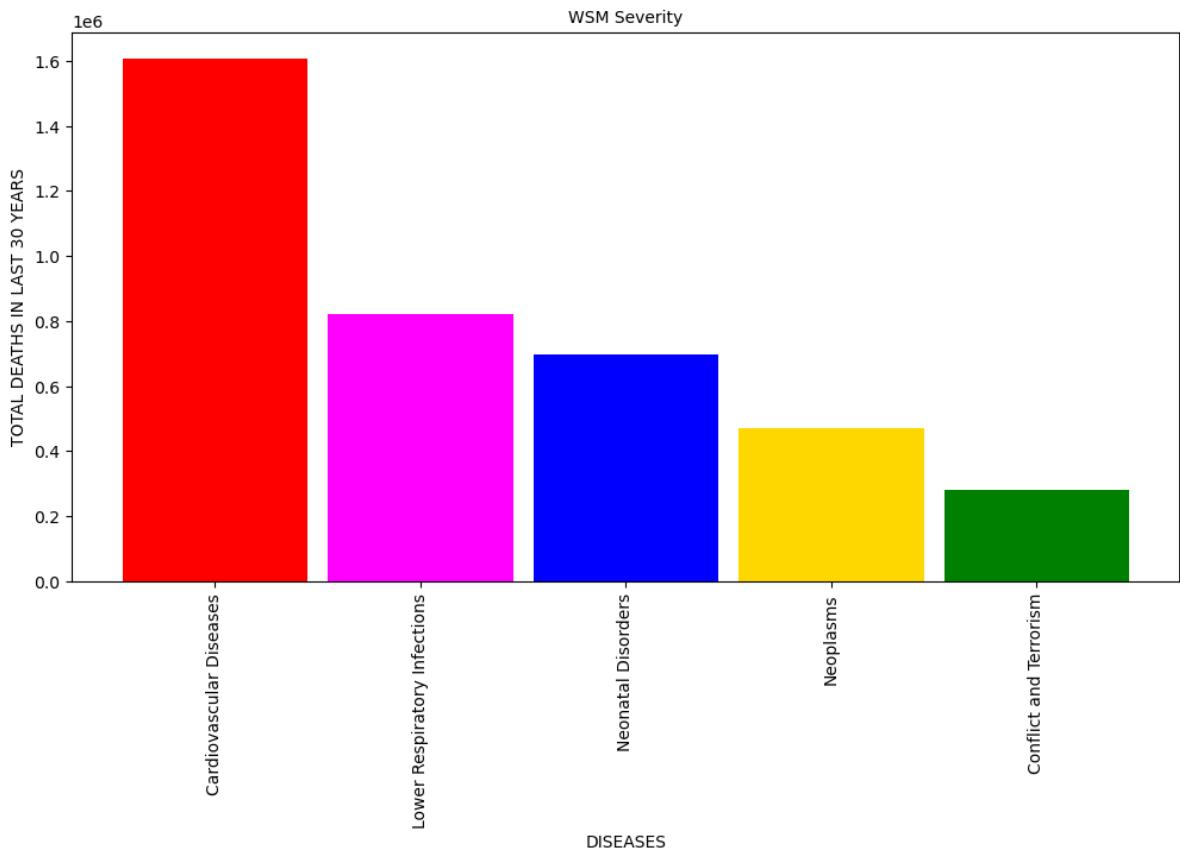
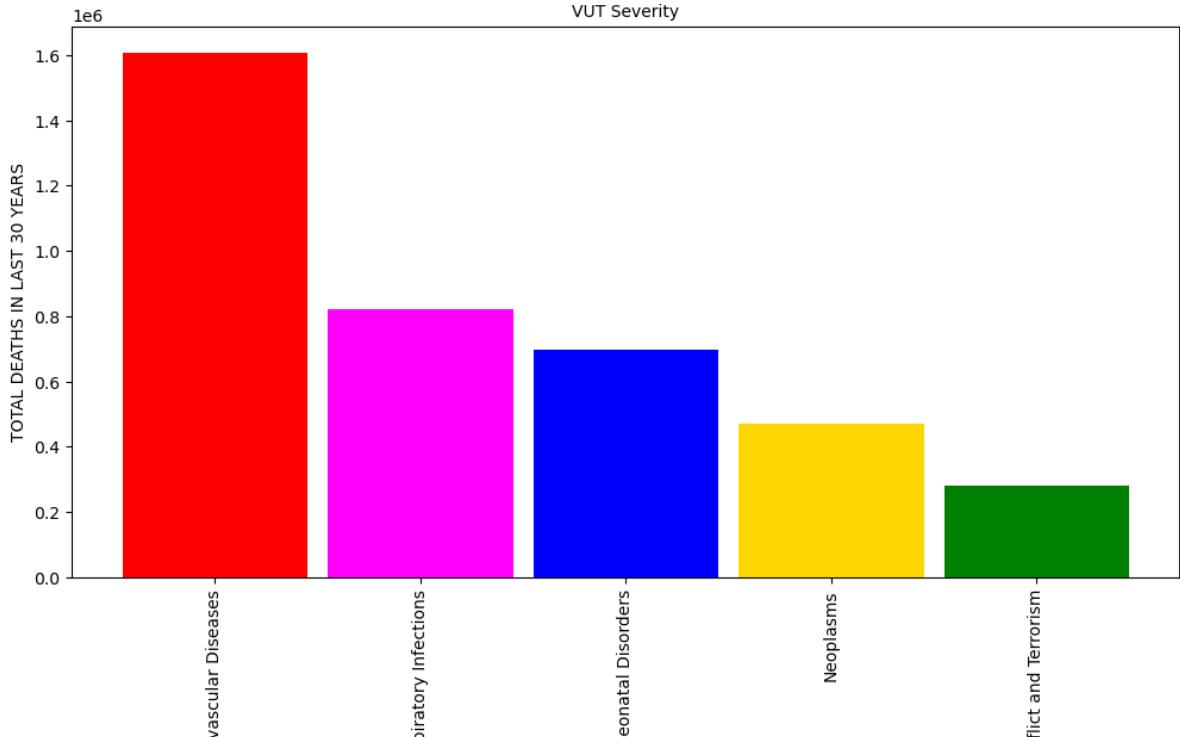




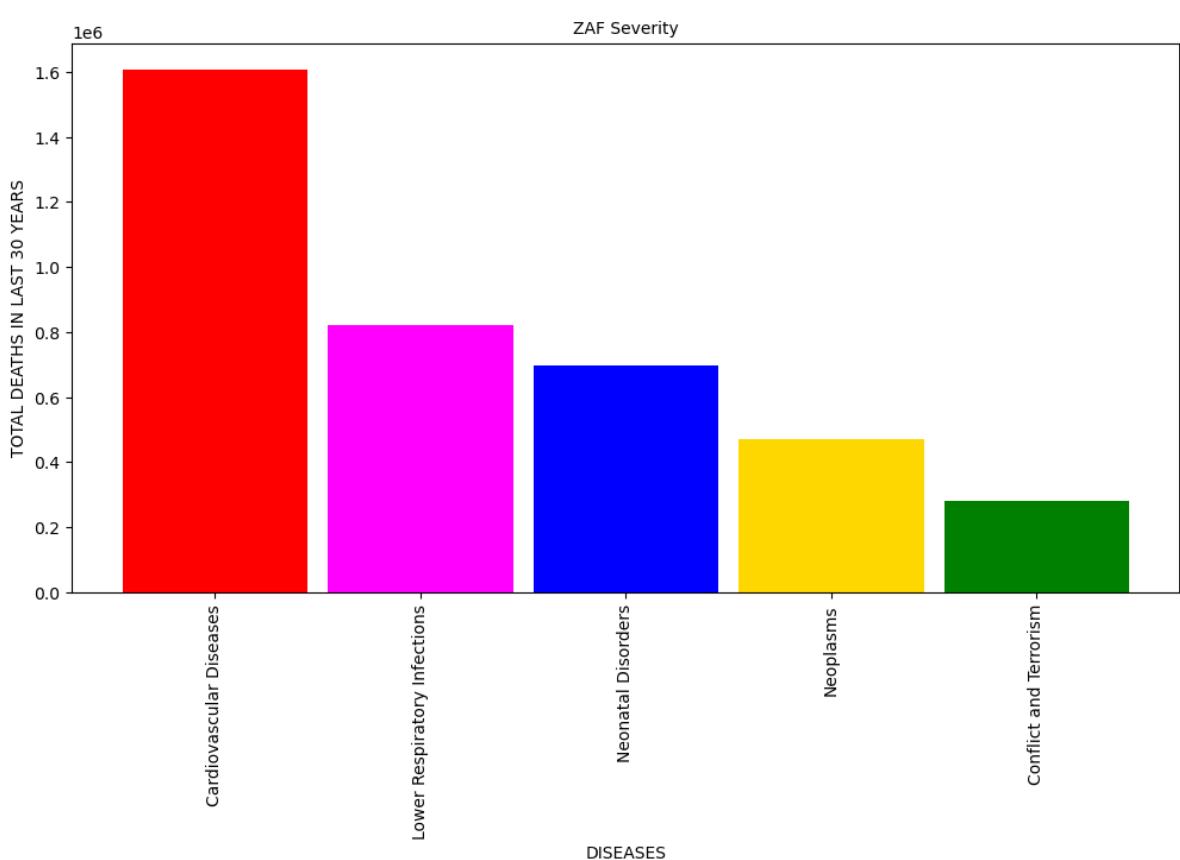
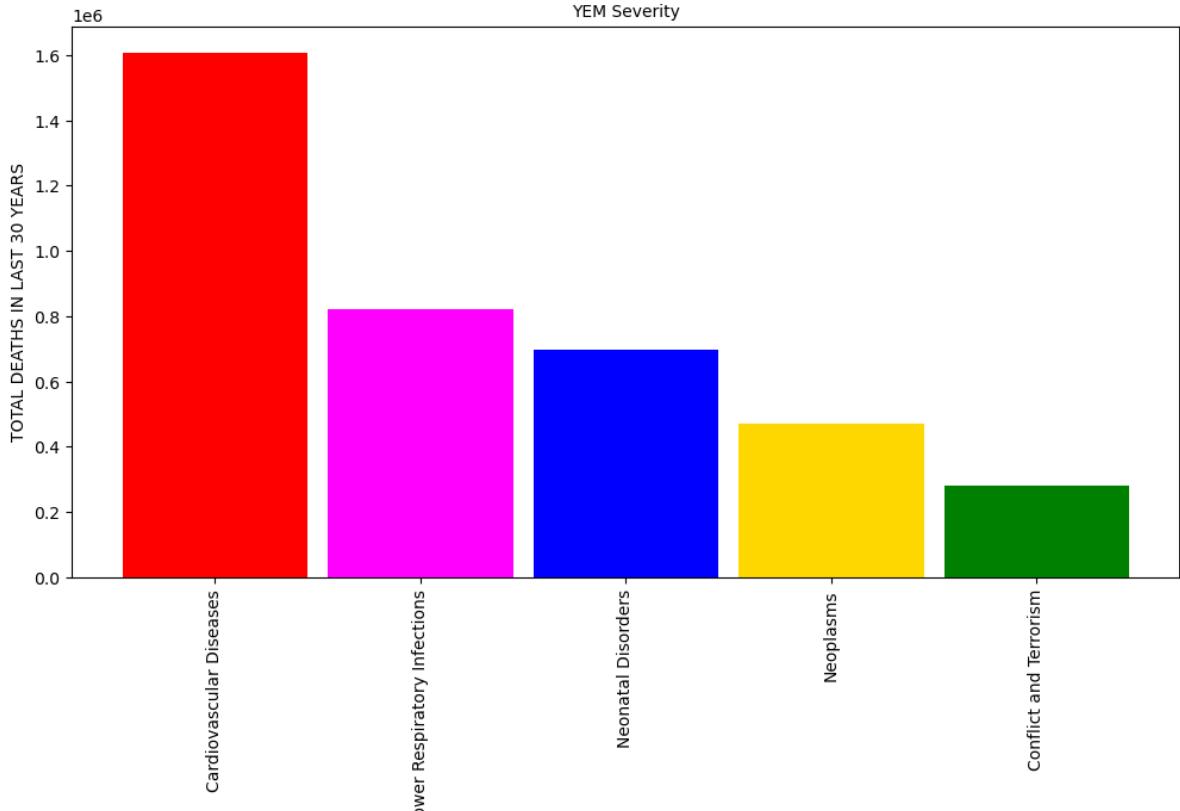
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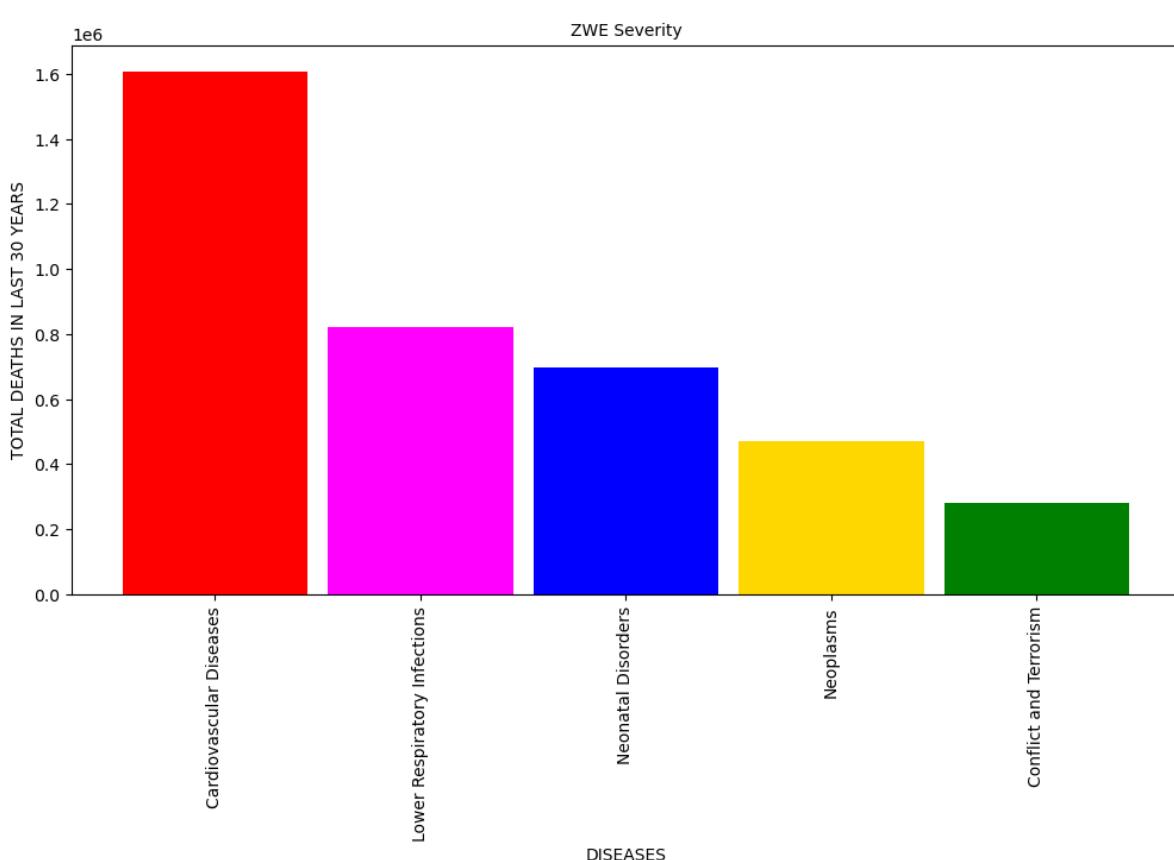
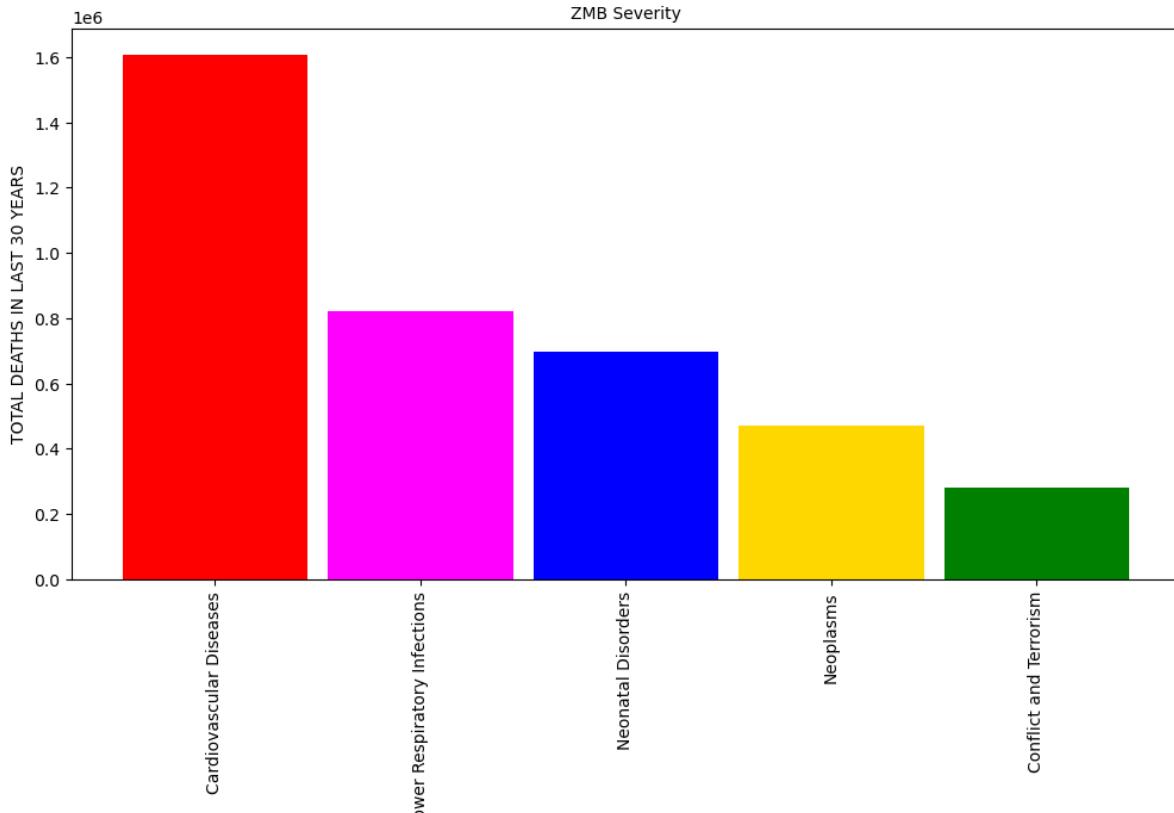


## Cause of Deaths around the World



## Cause of Deaths around the World





## " Top 10 Countries with the highest death rates worldwide"

```
In [152]: df1['Total_Deaths'] = df1.sum(axis=1)
```

```
In [153]: sumall = df1[['Code', 'Total_Deaths']].sort_values('Total_Deaths', ascending = False)
```

In [154...]

```
px.bar(sumall,x = 'Code' , y = "Total_Deaths",text="Code",color = "Code",title="Co
```

## Countries with the highest death rates worldwide



In [155...]

```
disease = df1.sum()[1:-1].to_frame().reset_index()
```

In [156...]

```
disease.rename(mapper={'index':'Disease',0:'Total_Deaths'},axis=1,inplace=True)
```

In [157...]

```
disease = disease.sort_values(by='Total_Deaths',ascending=False).reset_index(drop=True)
```

In [158...]

```
# Aggregating Countries with values Lesser than 23713931 into Others
disease.loc[disease.Total_Deaths <23713931 ].sum()
disease.loc[len(disease.index)] = [ 'Others',98347130]
disease.drop(disease.index[16:-1],axis=0,inplace =True)
disease.reset_index(drop=True,inplace=True)
```

In [159...]

```
fig = px.pie(disease, names = 'Disease' , values = 'Total_Deaths', color_discrete_map=disease['Disease'])
fig.update_traces(textposition='inside', textinfo='percent+label')
fig.update_layout(margin=dict(t=0, b=0, l=0, r=0))
fig.update(layout_showlegend=False)
```



## Conclusion

***CHINA , INDIA & USA has highest death rates due to Cardiovascular,, Neoplasms ,and Respiratory are the top 3 killer diseases in the world.***

**Submitted by: Vaibhav R Godawale**