|  |  |  |
| --- | --- | --- |
| **Name** | **Data type** | **Description** |
| Deaths | int64 | Information about deaths per county |
| Population | int64 | Information about total population per county |
| Opioid Dispensing Rate | float64 | Information about dispensing rate of opioid per county |
| Unemployment raw value | float64 | Information about unemployment per county |
| Infant mortality raw value | float64 | Information about mortality rate of infant |
| Primary care physicians raw value | float64 | Information about primary care physician per county per 1000000 |
| Drug overdose deaths raw value | float64 | Information about opioid overdose |
| Insufficient sleep raw value | float64 | Information about sleep deficiency |
| Excessive drinking raw value | floatt64 | Information about excessive drinking rate |
| Mental health providers raw value | float64 | Information about mental health providers per county per 1000000 |

* Deaths variable provides information about death per county due to various factors. It helps in calculating mortality rate
* Population is important because it will help in showing correlation with mortality rate. Population directly impacts mortality rates.
* Opioid dispensing rate impact mortality rate. I feel that it will have positive correlation with mortality rate. Studying the papers, I feel that opioid dispensing rate will directly impact overdose and mortality.
* Unemployment value is a major factor because unemployment impact poverty level which directly impact mortality rates
* Infant mortality rate is important because opioid overdose impact the infant mortality rate. Overdose of any drug during pregnancy is dangerous for mother and child.
* Primary care physician provides information about total number of primary care physician per county. From the paper, it is observed that primary care physician tend to prescribe opioid more. So, it should have positive correlation with mortality rate.
* Drug overdose rate provides information about overdose which directly affects mortality rate.
* Insufficient sleep affects mortality rate such that it causes stress to human body which tend to consume more opioid resulting in high mortality rate.
* Excessive drinking causes high mortality rate because opioid should not be consumed with alcohol, but lot of people tend to consume both of them together resulting in high mortality rate.
* Mental health provider is important because doctors generally prescribe different types of opioid for reducing stress and calming the nerves, which is usually misused by patients which causes overdose and high mortality rates.

In addition to these factors many other factors are present like dentist values, children in poverty, life expectancy values, etc.