Our solution focused on two broad categories:

1. **Public health -** to disclose measure associated with fatality rates of COVID-19 date time wise.

1. case fatality rate (CFR) - the likelihood that someone who catches the disease will die

from.

1. crude mortality rate (CMR) - measures the probability that any individual in the population

will die from the disease

1. infection fatality rate (IFR) - measures the number of deaths from a disease divided by

the *total number of cases*.

1. point prevalence - it is the proportion of persons with a particular disease or

attribute on a particular date.

1. incidence proportion risk. - is a measure of the **risk** of disease or the probability of

developing the disease during the specified period.

1. NOTE:

* As all the **fatality metrics** rely heavily on **true cases** such as death cases, total cases, confirmed cases, new cases, etc. as during COVID-19 it can take two to eight weeks for someone to go from first symptoms to death.
* The **variation in these metrics** can be used to **questions the testing strategies** adopted by different countries. They can further be associated with factors most affected age category. These measures aim to help the government, our health officials and community in **limiting indirect impacts.**
* This is why **more and more people should get tested**, as it assists our government, health officials and community to plan for health-based resources, to provide efficient aid to the vulnerable sections of the society and eradicates the difficulty associated with the identification of unknown sources during COVID-19 contact tracing.

2. **Societal compliance -** to observe the mobility across different actions conducted within our society date time wise.

**Reference:**

* Lesson 3: Measures of Risk. Retrieved from <https://www.cdc.gov/csels/dsepd/ss1978/lesson3/section2.html#:~:text=Point%20prevalence%20refers%20to%20the,over%20an%20interval%20of%20time.>
* Mortality Risk of COVID-19.Retrieved from <https://ourworldindata.org/mortality-risk-covid>