

Hospital Infection Analysis

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Problem Statement :

This Analysis is done to make people aware of the Hospital Associated Infection as many people don't know about this or take it very lightly. So we are lightning the issue.

Hospital Infection :

- Hospital Infection Acquired during hospital care which are not present or incubating at admission.
- Infection occurring more than 48 hours after admission are usually considered as Hospital Associated Infection.

Hospital Infection - Burden

- Hospital Infection occur worldwide and affect both developed and resource-poor countries.
- Over 1.4 million people worldwide suffer from such infections.
- Most frequent of these are:
 - infections of surgical wounds
 - urinary tract infections
 - lower respiratory tract infections

Project Workflow

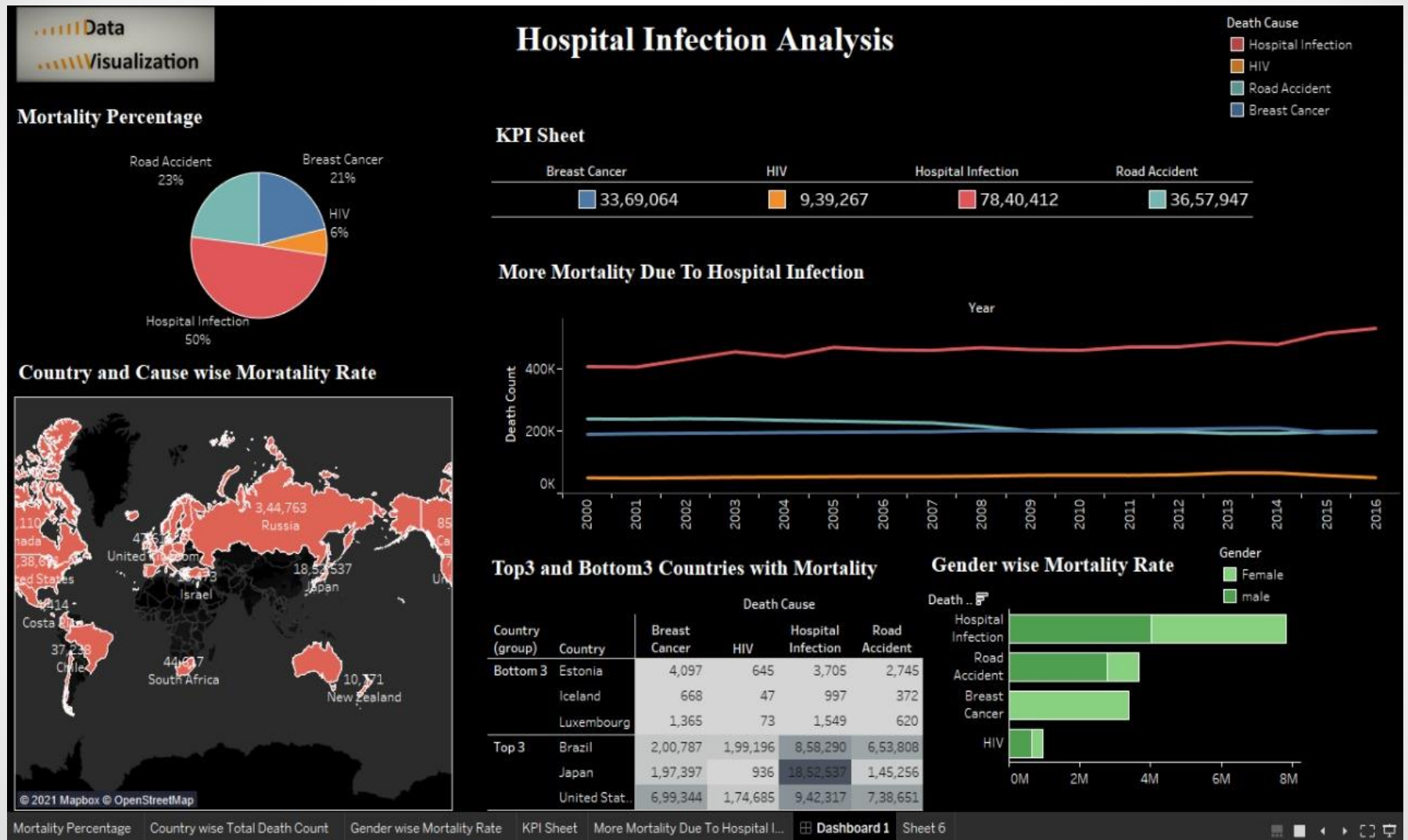
- Data Cleaning
- Data Visualization
- Web Development
- Result and Recommendations

Data Cleaning

- It is Observed that the many fields have NaN values.
- As all fields are numeric in the Dataset, we replaced NaN values with mean.

Data Visualization

Tableau Dashboard



Web Development

- We have created a web page using html and css.
- In the web page we tried to make people understand our analysis.
- The Visualization part and the recommendation part is done and shown in the page.

Precautions

- Screening the ICU to see if people with HAIs need to be isolated.
- Identifying the type of isolation needed, which can help to protect others or reduce chances of further infection.
- Observing hand hygiene, which involves washing hands before and after touching people in the hospital.
- Wearing appropriate gear, including gloves, gowns, and face protection.
- Cleaning surfaces properly, with recommended frequency.
- Making sure rooms are well ventilated.

Conclusion

- We should emphasize on to decrease the death rate due to Hospital Associated Infection.
- The awareness from international level to local level is much important.
- Infection control program should be enhanced in each hospital and government control on this program should be there.
- Each and every health care system should have Infection control practices, Infection control team and all stakeholders.

So we can reduce the death rate due to Hospital Infection.

Thank You