**HEALTH AND BASIC EXPENDITURES OF WORLD BANK DATA.**

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**ABSTRACT**

Based upon the data given using a few indicators, the outcomes of those indicators, which resulted in the development of health expenditures for a few countries and also across all the countries in the world in a particular period, showed the percentage of the tuberculosis case rate for many countries. The analysis also shows the improvement of basic needs in Australia, like the usage of safe drinking water, basic sanitation services, and basic drinking water services.

**LINK:**

[**https://github.com/Venky7438/Statiscs\_and-\_trends\_assignment2.git**](https://github.com/Venky7438/Statiscs_and-_trends_assignment2.git)

**DATA SOURCE LINK:** [**https://databank.worldbank.org/reports.aspx?source=2&series=AG.LND.FRST.ZS&country=#**](https://databank.worldbank.org/reports.aspx?source=2&series=AG.LND.FRST.ZS&country=)

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Analysing the world data, which shows the percentages of people using safe drinking water, health expenditure for world countries, tuberculosis cases around the world, and sanitation services.

**ANALYSIS 1: ANALYSIS 3:**

A blue rectangular object with white text

Description automatically generated

The analysis of the histogram shows the percentage of people using safely managed drinking water across the world. The kurtosis values are high, implying that the majority percentage of the people are using safely managed water in the world, resulting in positive kurtosis.

**ANALYSIS 2:**

A graph of the current health expenditure

Description automatically generated

The graph analysis shows the current health expenditure for Malaysia, Singapore, Canada, France, and Germany. It shows that current health expenditure for all the countries has been increasing every year from 2000 to 2020. Malaysia has the lowest compared with other countries. Germany had a constant rise from 2000 to 2020, and then it had a slight downfall in 2020. A bar chart with blue lines

Description automatically generated

The histogram shows the skewness value for the current health percentage for the entire world. The value is always high, implying that expenditure for health across the world is always high, resulting in positive kurtosis.

**ANALYSIS 4:**

A bar graph with numbers and text

Description automatically generated

The visualisation is of a grouped bar plot, which indicates the people using at least basic drinking water services, basic sanitation services, and safely managed drinking water services in Australia. It can be said that the percentages have always maintained high values from the year 2000 to 2020. The percentage is almost reaching 100 for basic drinking water services and basic sanitation. Services, and using safely managed drinking water services. The percentage of people using safely managed drinking water services was slightly lower in 2000, but it has been raised in recent years.

**ANALYSIS 5:**

**A colorful circle with different colored circles

Description automatically generated with medium confidence**

The pie chart indicates the tuberculosis case detection rate in the Netherlands, Australia, New Zealand, China, Canada, France, Germany, Malaysia, Pakistan, the Philippines, Singapore, Switzerland, the United Arab Emirates, the United States, Japan, and Italy. It shows that the percentage of tuberculosis is 6.8% for the Netherlands, New Zealand, Australia, Canada, Italy, Japan, the United States, the United Arab Emirates, and Switzerland. The lowest percentage is seen in the Philippines, which is 3.3%. The highest percentage is for Germany, which is 7.1%. France has 6.4%, and China and Malaysia have 6%. Pakistan has 3.6%.

**Conclusion:**

We can say that the world’s countries have been investing more in their health expenditures over the years, which results in improvements in people’s health. Also, it can be observed that services like using safely managed drinking water, basic sanitation, and using basic drinking water have been improved over the years, which results in the improvement of health again. The analysis also showed the percentages of countries that were affected by tuberculosis all over the world.