School Of Information Sciences

(A Constituent Institute of Manipal University)

PROJECT TITLE: CHILD MORTALITY DATA ANALYSIS

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COURSE: ME- BIG DATA AND DATA ANALYTICS

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ABSTRACTION

Child mortality is a core indicator for child health and well-being. The main objective of the project is to visualize and analyse the child mortal data so as to make people understand through visualization. We are trying to make an attempt to reach people around the globe and by letting them to known about facts and causes for the child mortality that has happened. However, traditional methods of analysing child mortality operations data are costly, rigid, and complex. Clinical and operations data must first be logged in applications and then cleansed and fit into a standard data model. When a change is required, database experts can require weeks or months to adjust the data model and prepare new reports.

This report represents the latest estimates of under-five, infant mortality up to the year 2015 and assesses progress at the country, regional and global levels. This report is also provides an overview on the estimation methods used for child mortality indicators.

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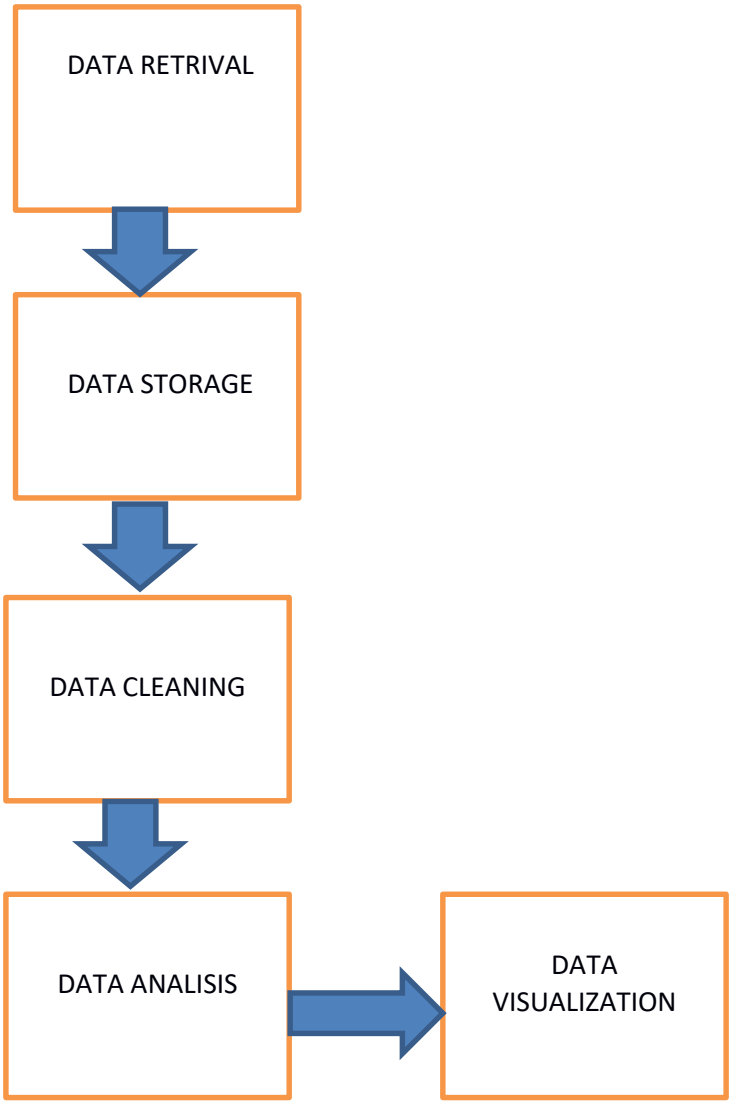
INTRODUCTION

Child mortality is a core indicator for child health and well-being. Every child movement boosted global momentum in improving new born and child survival. Evidence -based estimation of child mortality is a cornerstone for tracking progress towards child survival goals and for planning national and global health and well-being. The report represents the latest estimates of under-five, infant mortality up to the year 2015 and assesses progress at the country, regional and global levels. The report also provides an overview on the estimation methods used for child mortality indicators.

Main objective of the project is to analyse and visualize the child mortality data, to make people understand through visualization of graphs. We are trying to make an attempt to reach the people around the globe and to know facts, graphs and causes for the child mortality that has happened.

DATA FLOW DIAGRAM



The above figure shows the operational flow of our project. First we collected the data sets from the UNICEF .Org. In the second step, we have modified the datasets as per our requirements. In third step, we stored it in database, and wrote queries. From queries we visualised the data.

SPECIFICATIONS

Software Requirements:

-python

- Matplotlib

- d3.js

- Plotly

-Numpy

-Pandas

DATA ANALYSIS

In this project we will check How the cause of death have affected the developed and developing countries in case of Preterm,Intraparturm,Sepsis,Congenital,Pneumonia,Injury, Diarrhoea.

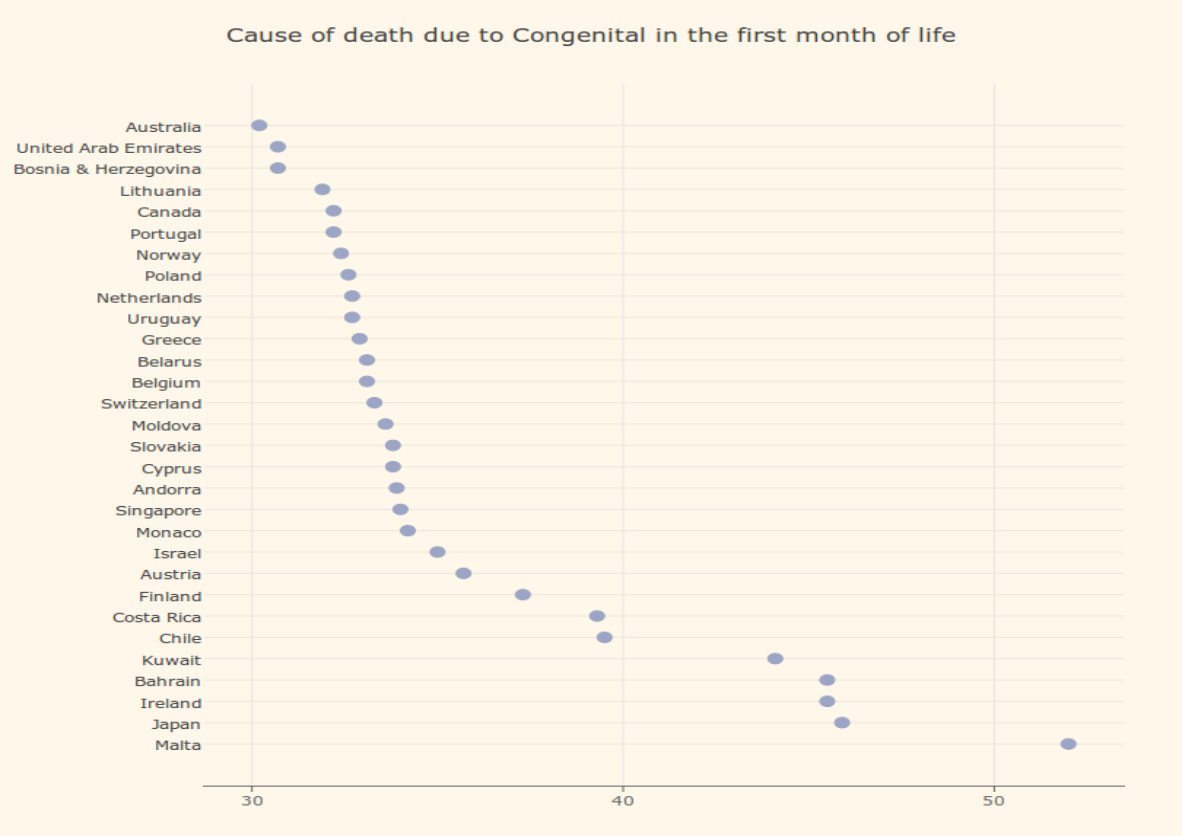
We are going to see whether these cause for deaths have been increased / decreased as years have been passed from 2000 to 2015 for Developed region in case of

- Congenital
- Sepsis
- Preterm
- Intrapartum

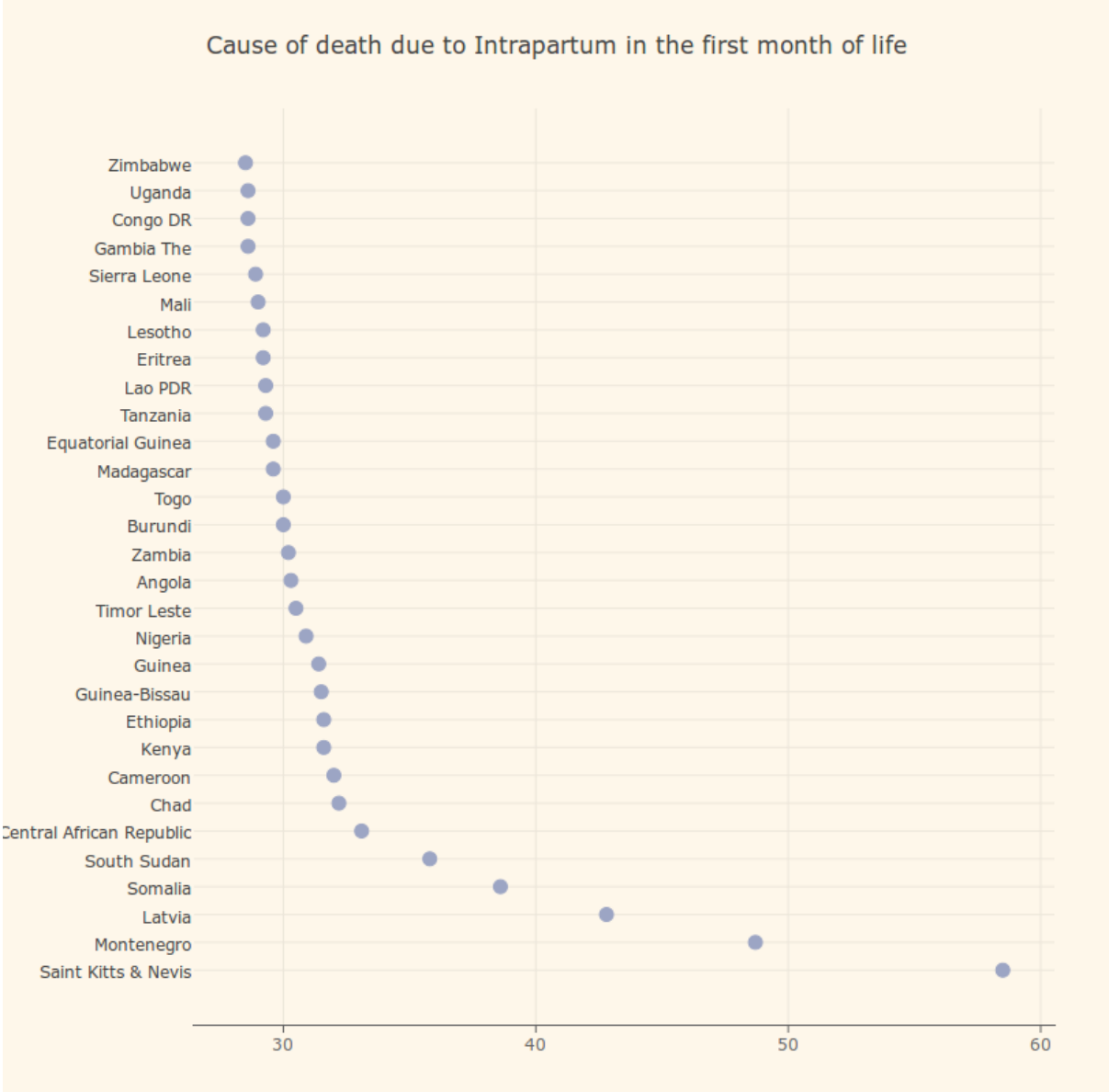
We are going to see whether these cause for deaths have been increased / decreased as years have been passed from 2000 to 2015 for developing region

- Congenital
- Preterm
- Sepsis
- Intrapartum

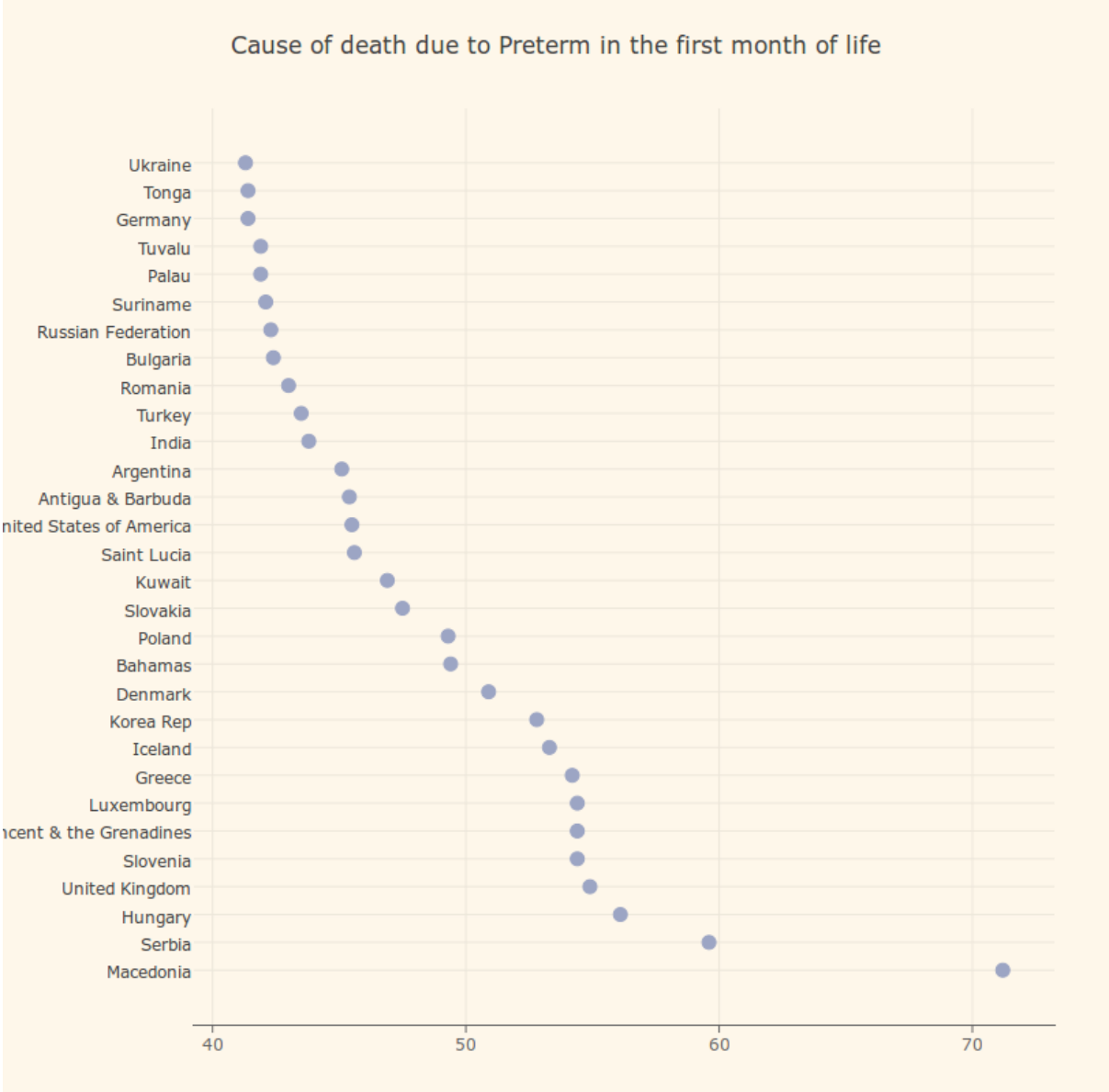
VISUALIZATION



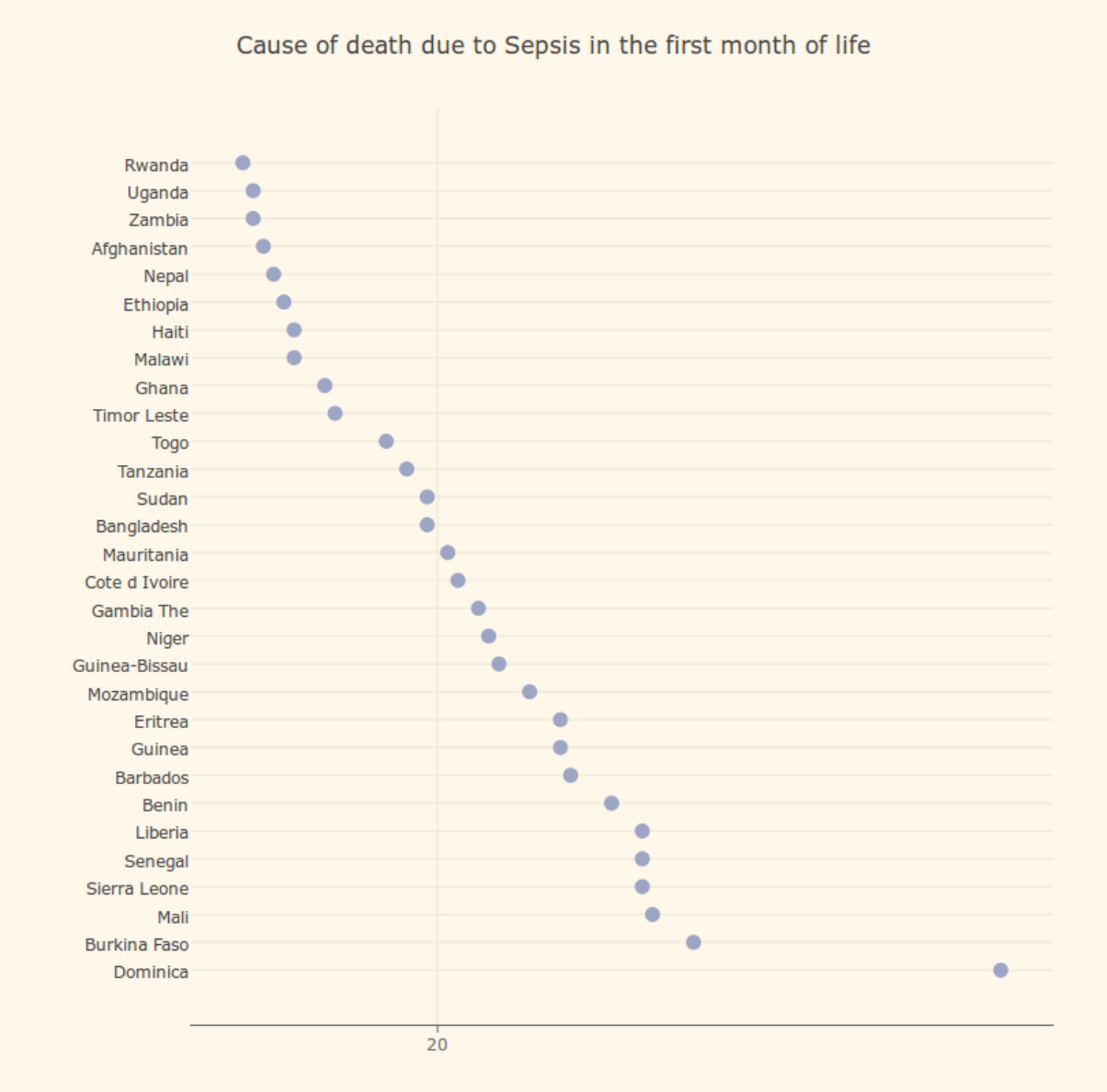
The above graph shows the cause of death due to congenital in the first month of life of top 30 countries in the world. From the above graph what we infer is country Malta has the highest death rate in terms of congenital



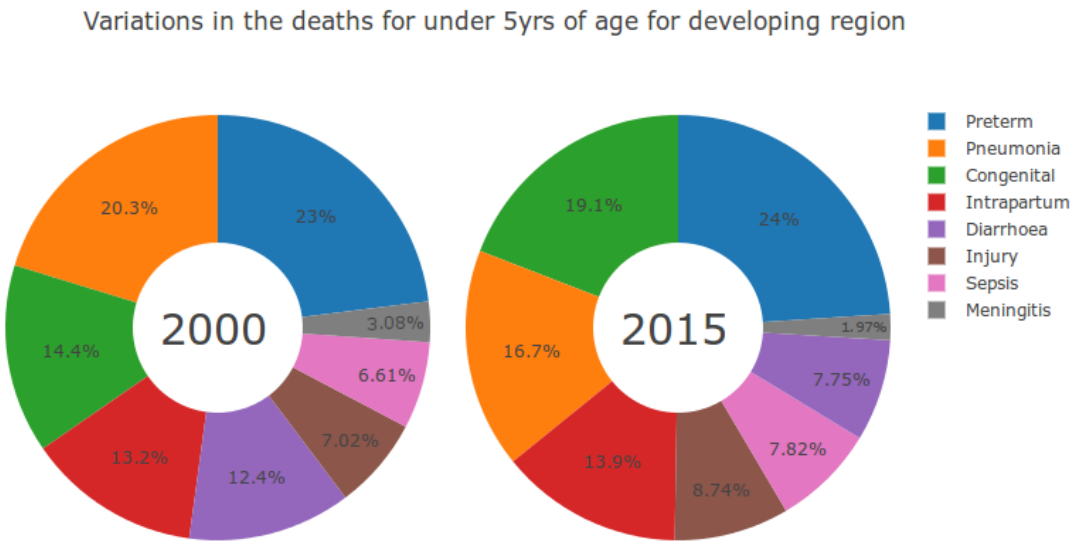
The above graph shows the cause of death due to Intrapartum in the first month of life of top 30 countries in the world. From the above graph what we infer is country Saint Kitts & Nevis has the highest death rate in terms of Intrapartum



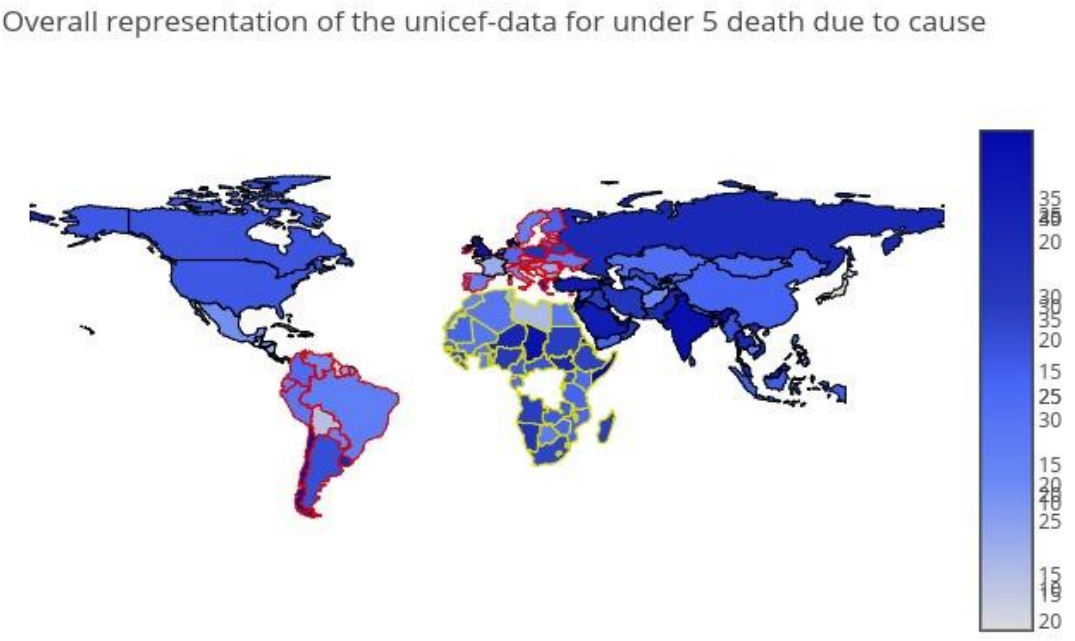
The above graph shows the cause of death due to Preterm in the first month of life of top 30 countries in the world. From the above graph what we infer is country Macedonia has the highest death rate in terms of Preterm



The above graph shows the cause of death due to Sepsis in the first month of life of top 30 countries in the world. From the above graph what we infer is country Dominica has the highest death rate in terms of Sepsis



The above donut chart represents the variations of death for under 5 years of age for developing region



The above world map represents the death of children under 5 years all over the world