

Question 1

Sahil Bhugwan^a

^a Github-<https://github.com/SBhugwan>

Abstract

The Covid-19 pandemic has wreaked havoc on many facets of our lives, and continue to affect travel, work and how people socially interact

Keywords: COVID-19

1. Introduction

COVID-19 was a unique time in the world with basically the whole world going into a lock down. It therefore is crucial to look at how certain countries performed we take a particular look at how Africa did compared to the rest of the world.

2. Africa

This section will look at how Africa does compared to the rest of the world. It is important to note that in Africa they are more used to responding to outbreaks for example the Ebola outbreak.

First i will be looking at the average deaths compared to other regions

*Corresponding author: Sahil Bhugwan
Email address: 21075492@sun.ac.za (Sahil Bhugwan)

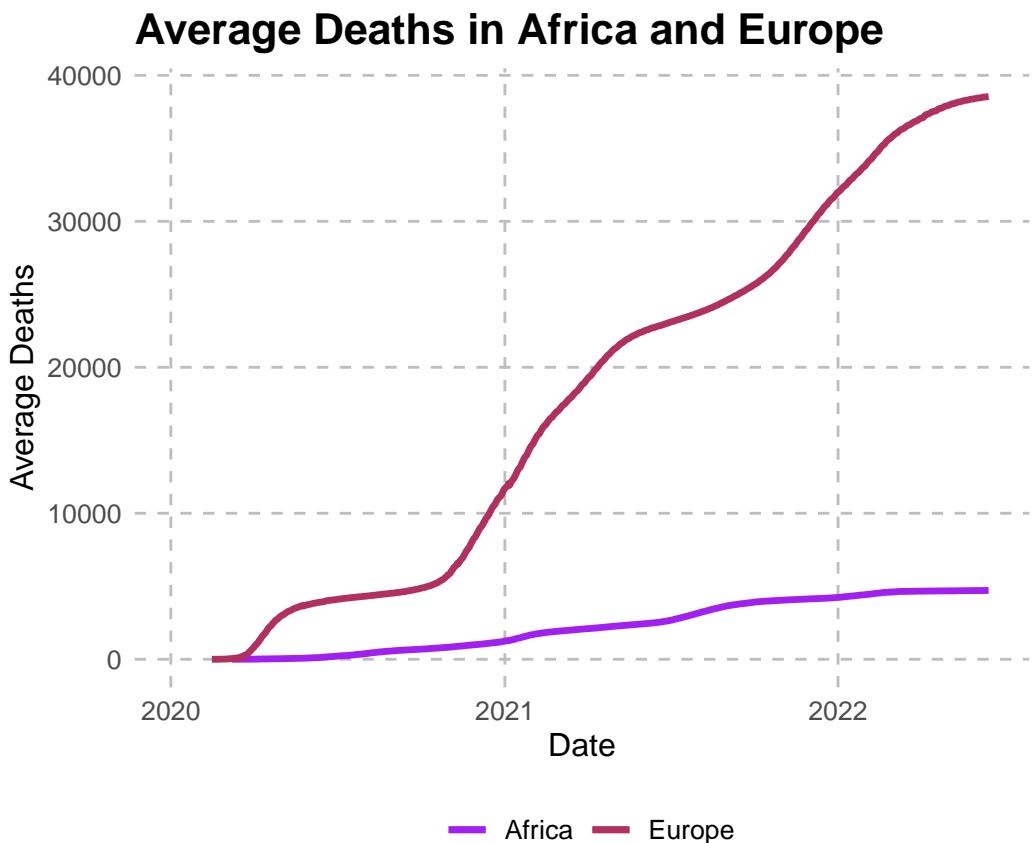


Figure 2.1: Average deaths

It is clear that the average deaths in Africa seem to be much lower than that to the rest of the world this suggesting that Africa might have been quicker to respond to the infection rates. However it is important to note that more people live outside of Africa. Though we could look at other important consideration, just as testing of COVID.

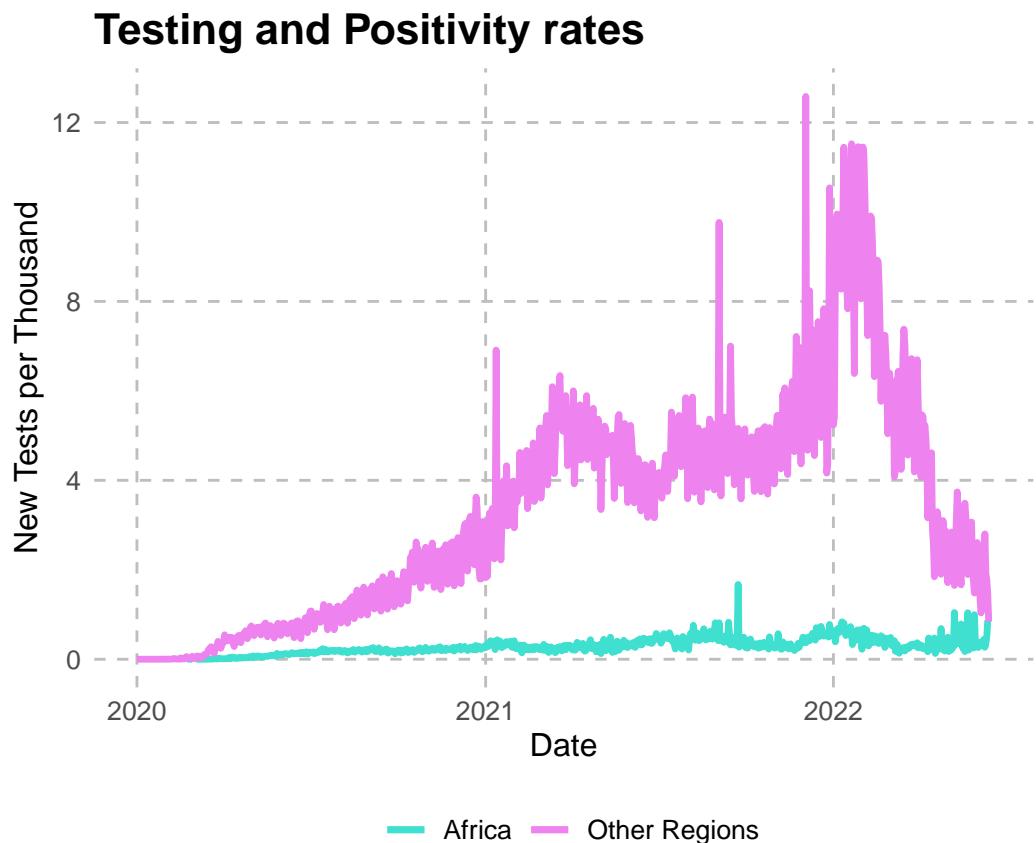


Figure 2.2: Testing rates

This graph shows that Africa had less test on average compared to the rest of the world. This could mean that on average Africa could have had less positive case of Covid compared to the world. Which wold make intuitive sense given the fact that Africa does have less people than of the rest of the world.

2.1. Healthcare capacity in Africa

In these section we will look in term “hospitals” in how Africa performed compared to the rest of the World. The first thing that i will look at is how many hospital beds

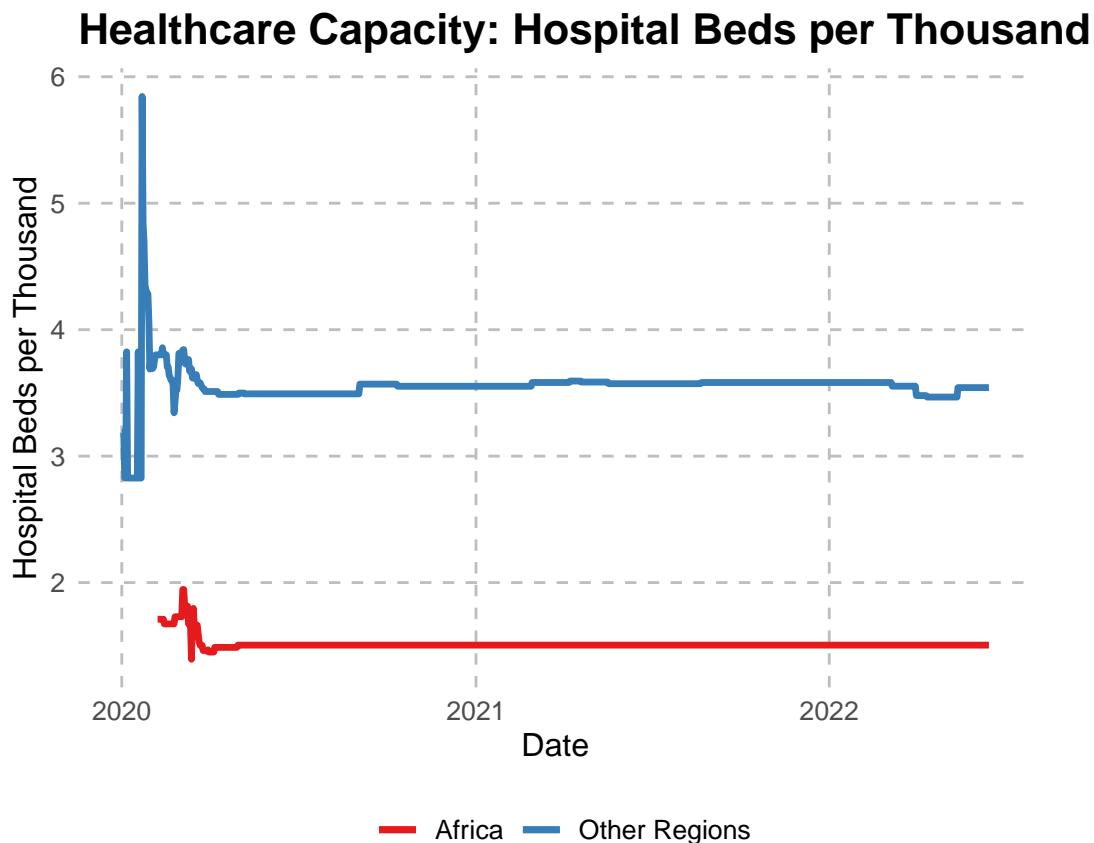


Figure 2.3: Hospital Beds

It is clear that when COVID hit the world the number of bed needed increased dramatically however the increase was more prominent in other regions outside of Africa. This could be due to numerous reasons. A possibility could be the fact that in Africa they had less ICU patients compared to the rest of the World.

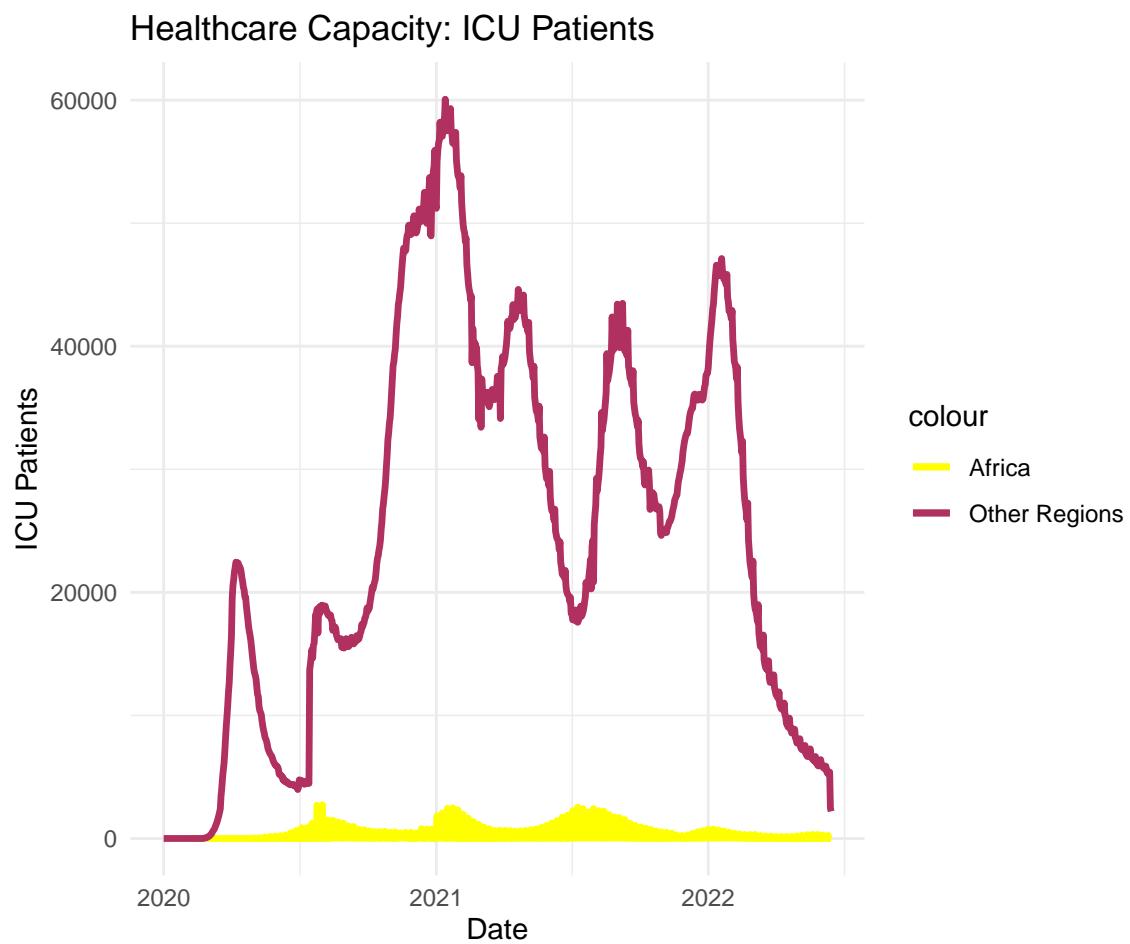


Figure 2.4: ICU Patients

It is clear that Africa didn't have such a large spike in ICU patients than the rest of the world. What we can gather from this is that Africa was handled the pandemic efficiently in that it was quick to respond to the first outbreak and was able to control the spread of it.

Increase in Hospitalization Facilities vs. ICU Admissions by Continent

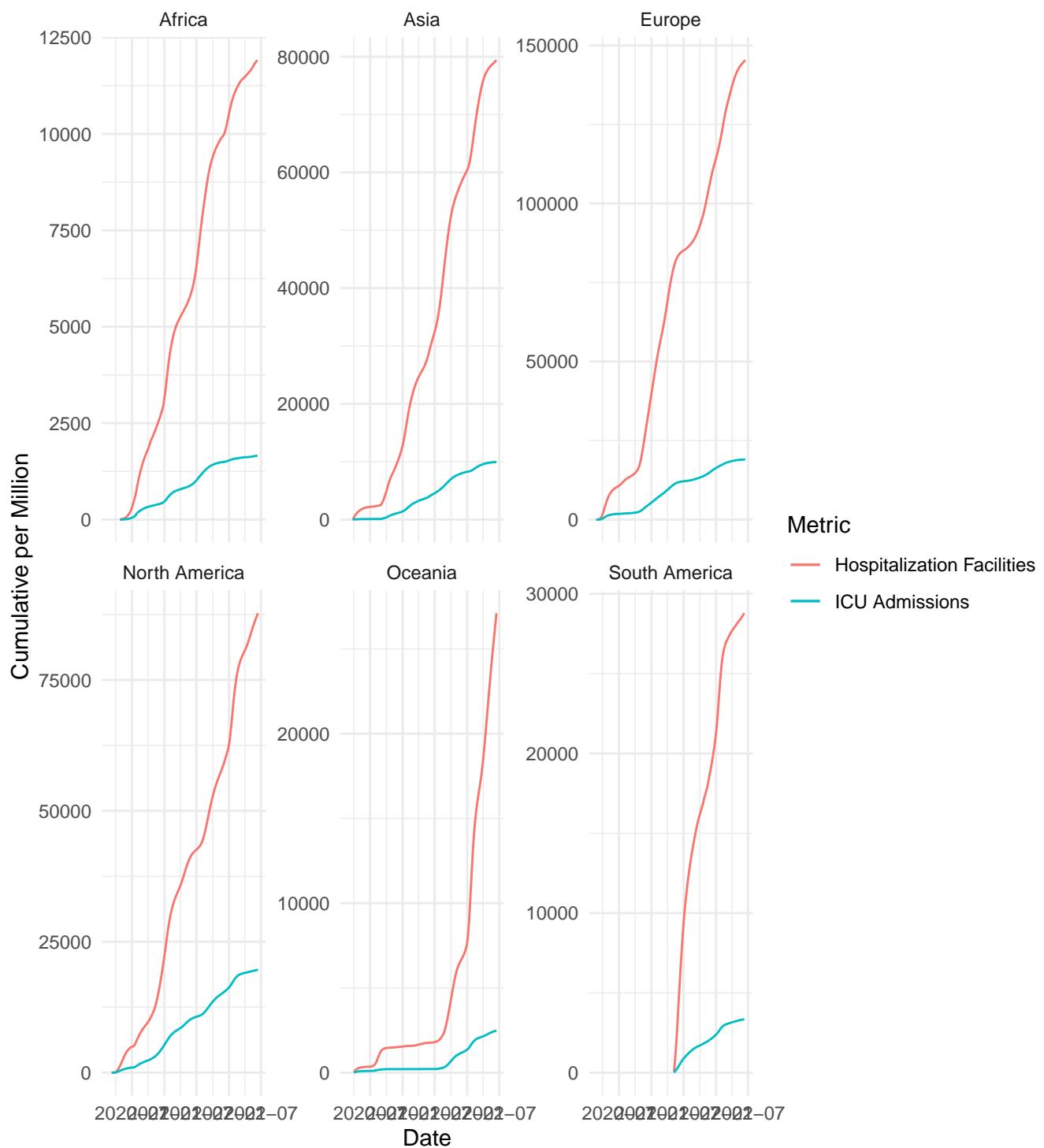


Figure 2.5: Hospitalization VS ICU Admissions

Increase in Hospitalization Facilities vs. ICU Admissions by Continent

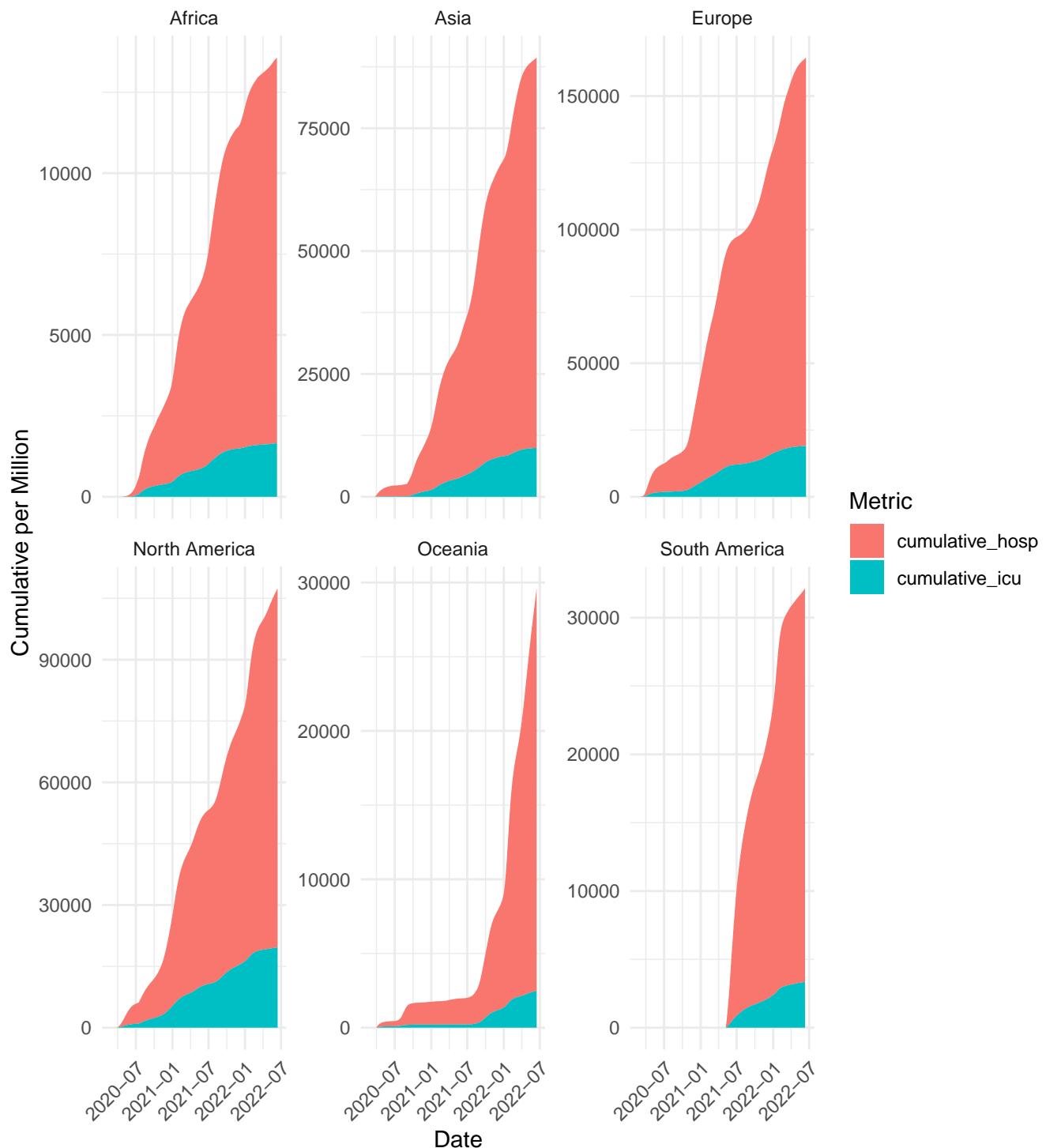


Figure 2.6: Hospitalization VS ICU Admissions

There by looking at the two graph that Africa responded much quicker than that of the rest of the world to increase its hospital facilities to cope with the increase in ICU patients.

This shows that Africa probably also didn't have as many people infected or that when there was a vaccine the number of new cases to people was under control.

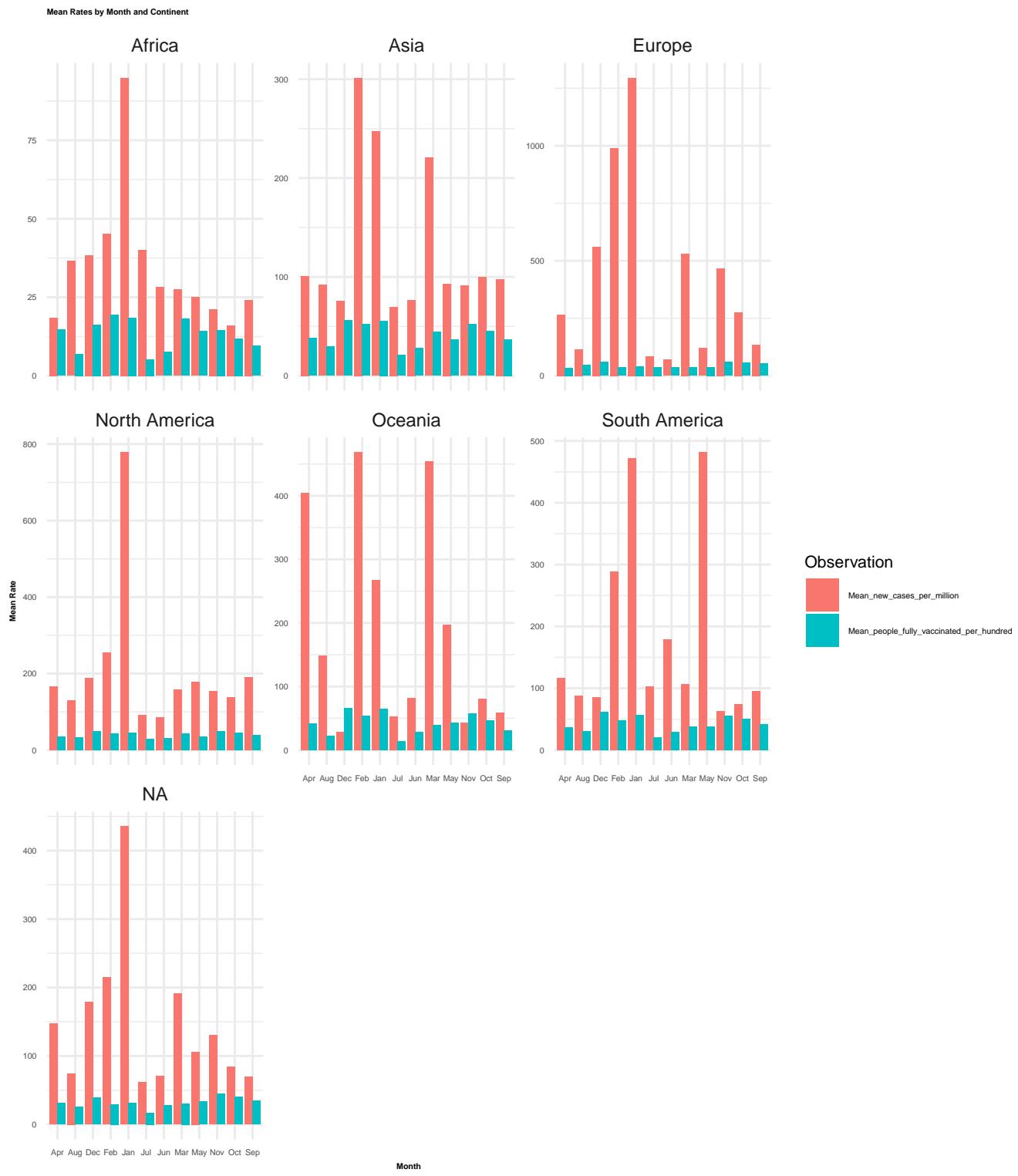


Figure 2.7: Ave cases vs vaccinated

Therefore we can see that in Africa the proportion on new case to people vaccinated remained relatively closed together and didnt get out of control.

An intersting observation will be to look at the impact of the intervention.

Impact of Interventions: Stringency Index

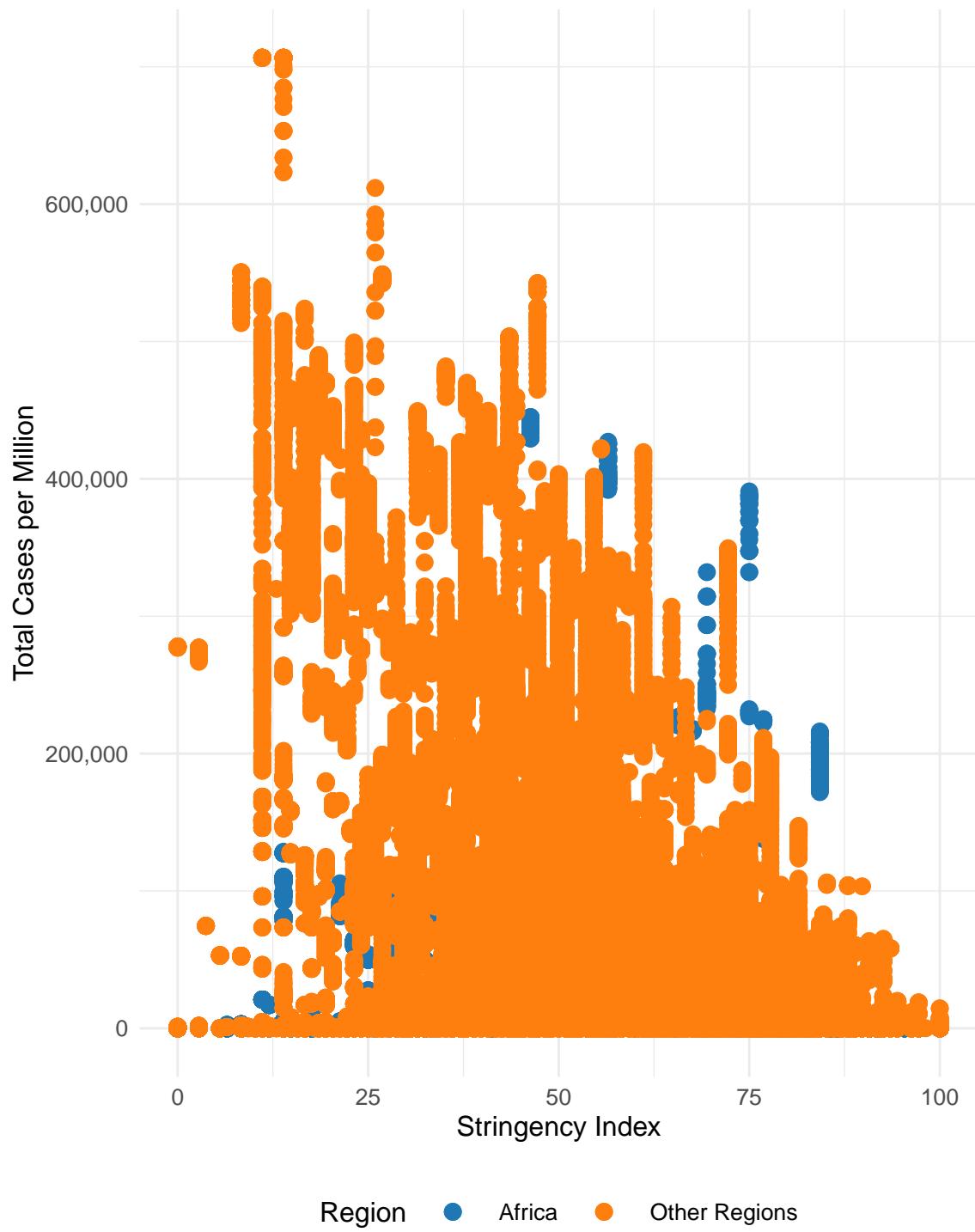


Figure 2.8: Ave cases vs vaccinated

The stringency index is a composite measure based on nine response indicators including school-closures, workplace closures, and travel bans. This shows how effective the interventions were with regards to controlling the pandemic.

3. Poverty levels

Next I will be looking to see if specific groups for example those in extreme poverty had it worse

Severity of Covid Experience by Extreme Poverty Level

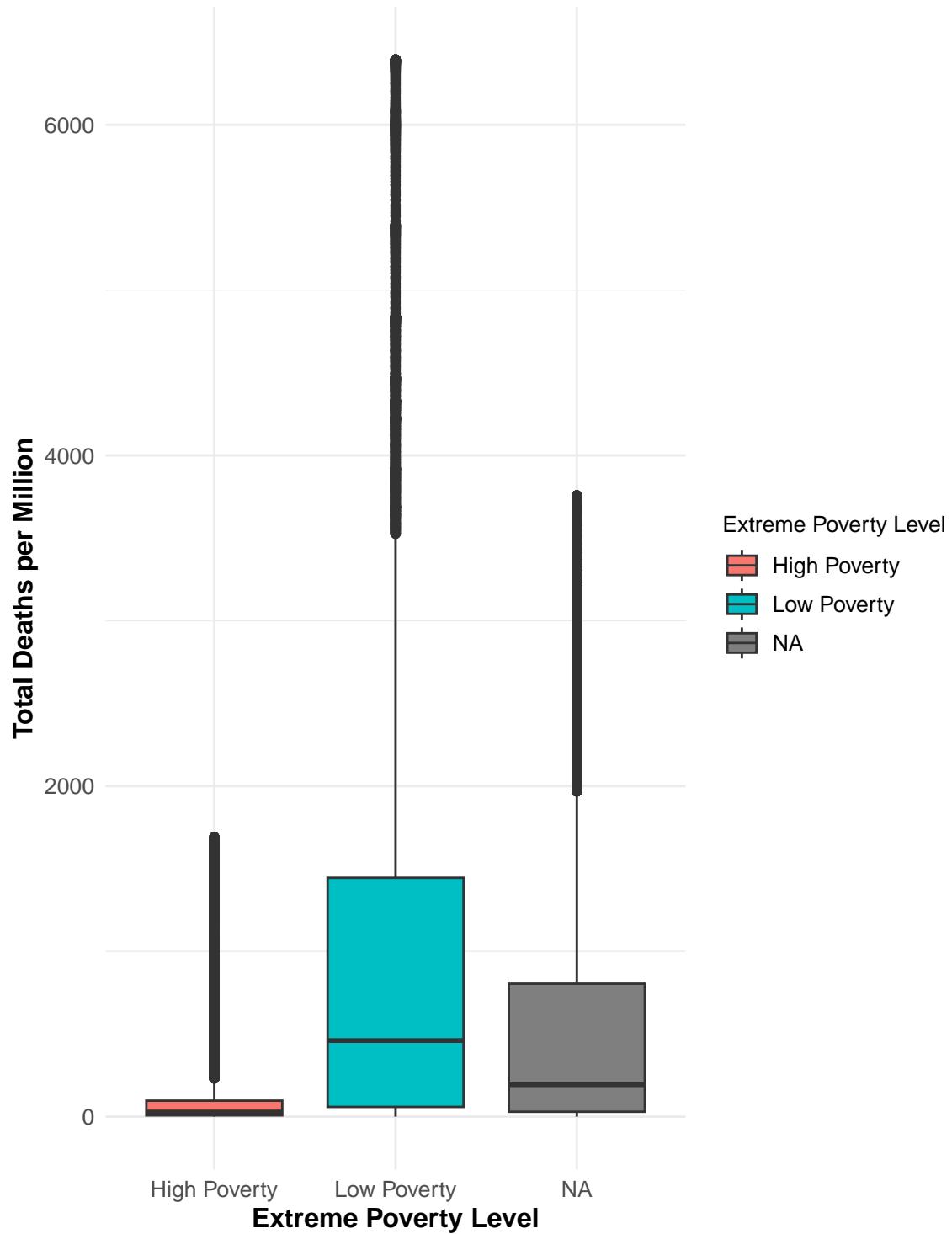


Figure 3.1: Extreme poverty

Next i will look at Perform analysis based on life expectancy

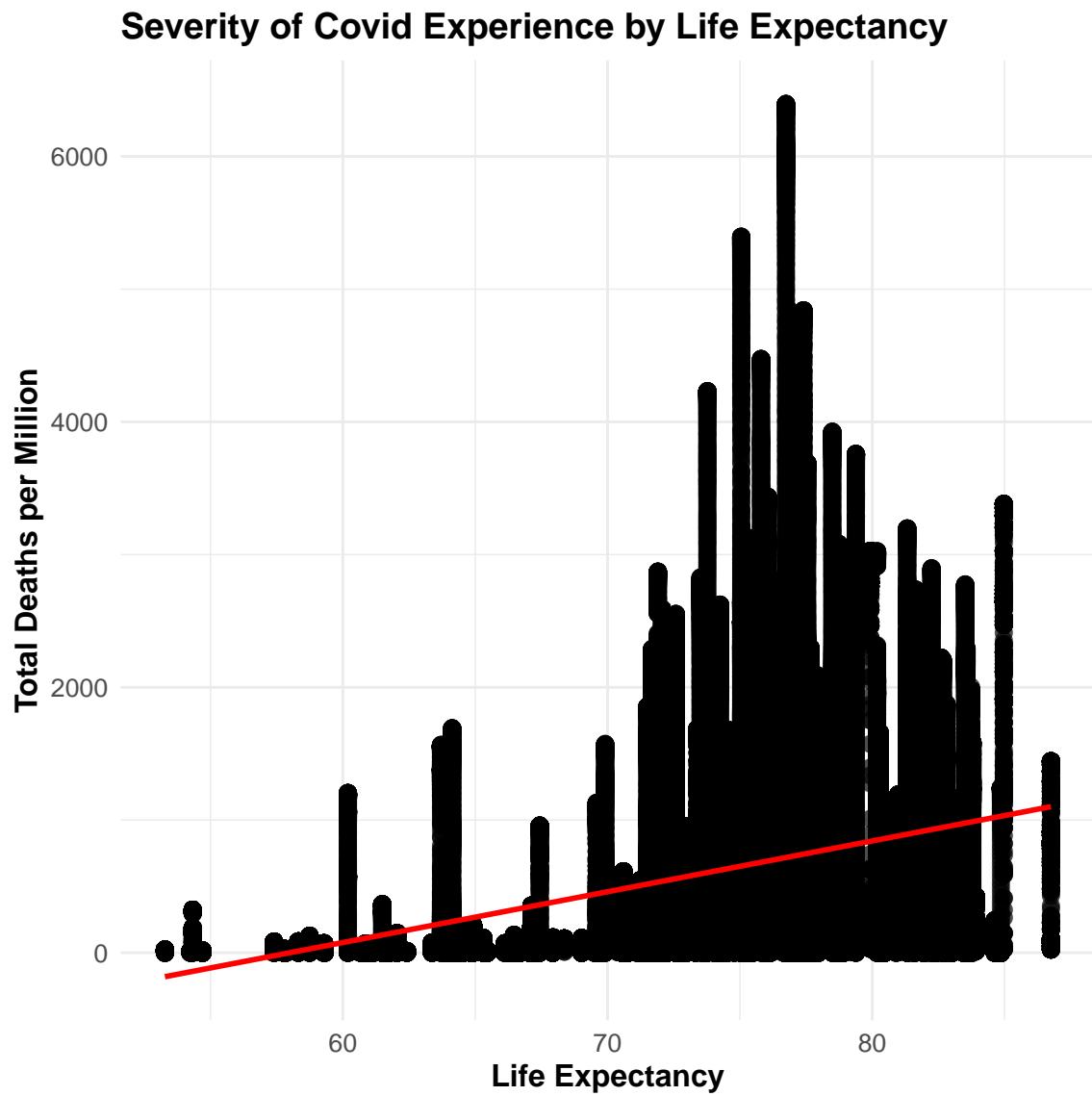


Figure 3.2: Life Expectancy

4. Conclusion

There it can be seen that Covid will have a lasting impact on the world. Though surprisingly Africa did perform a lot better than one would expect considering that it is third world country.