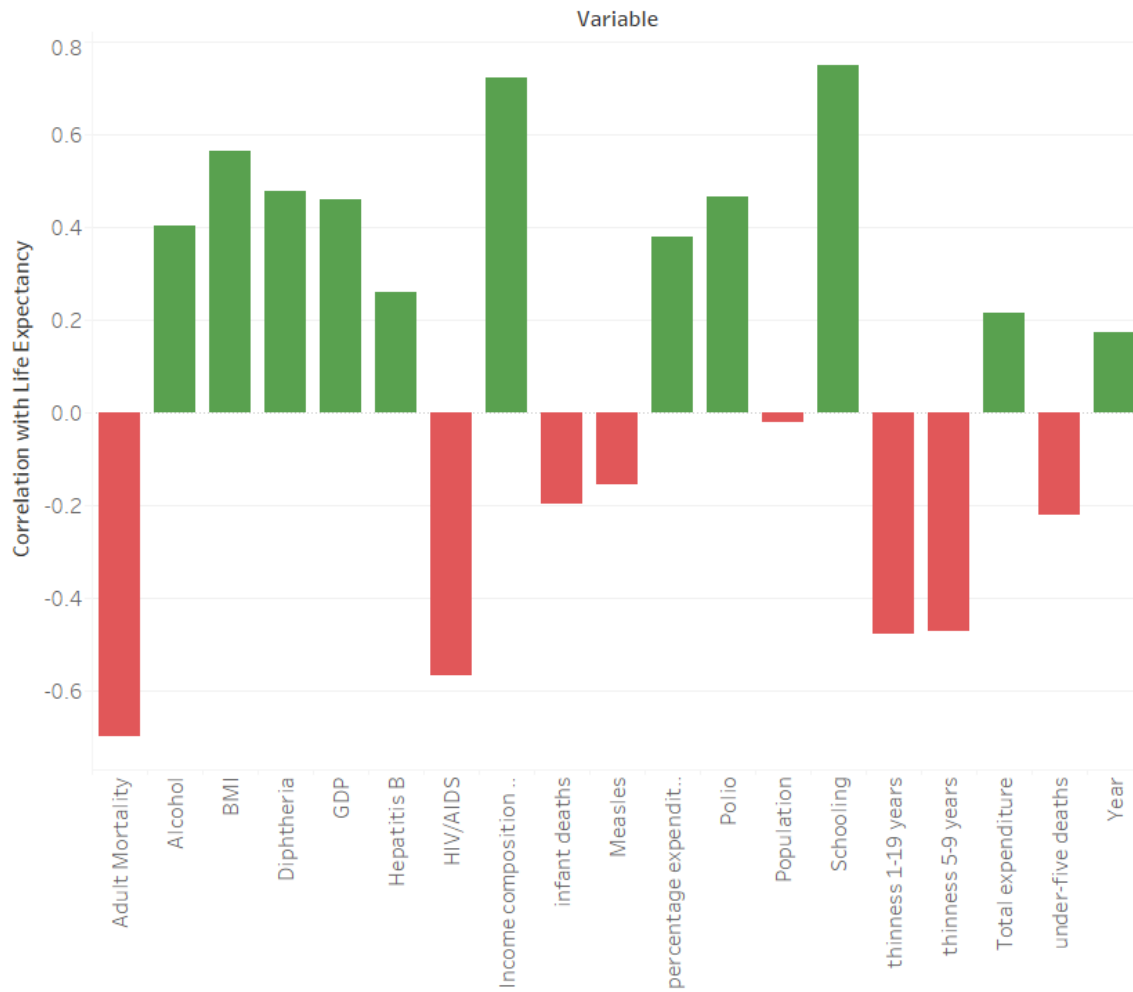
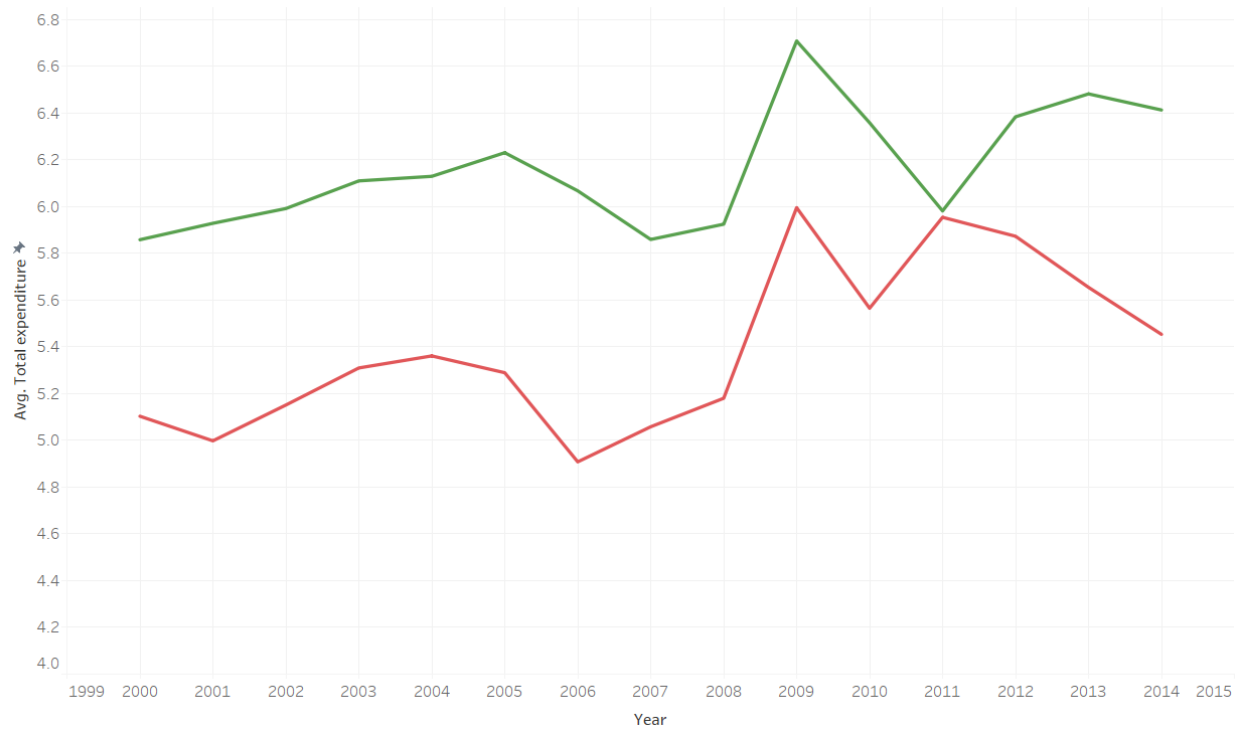


1. Do all the features available in the dataset really affect the Life expectancy? What are the predicting variables actually affecting life expectancy?

## Correlation with Life Expectancy

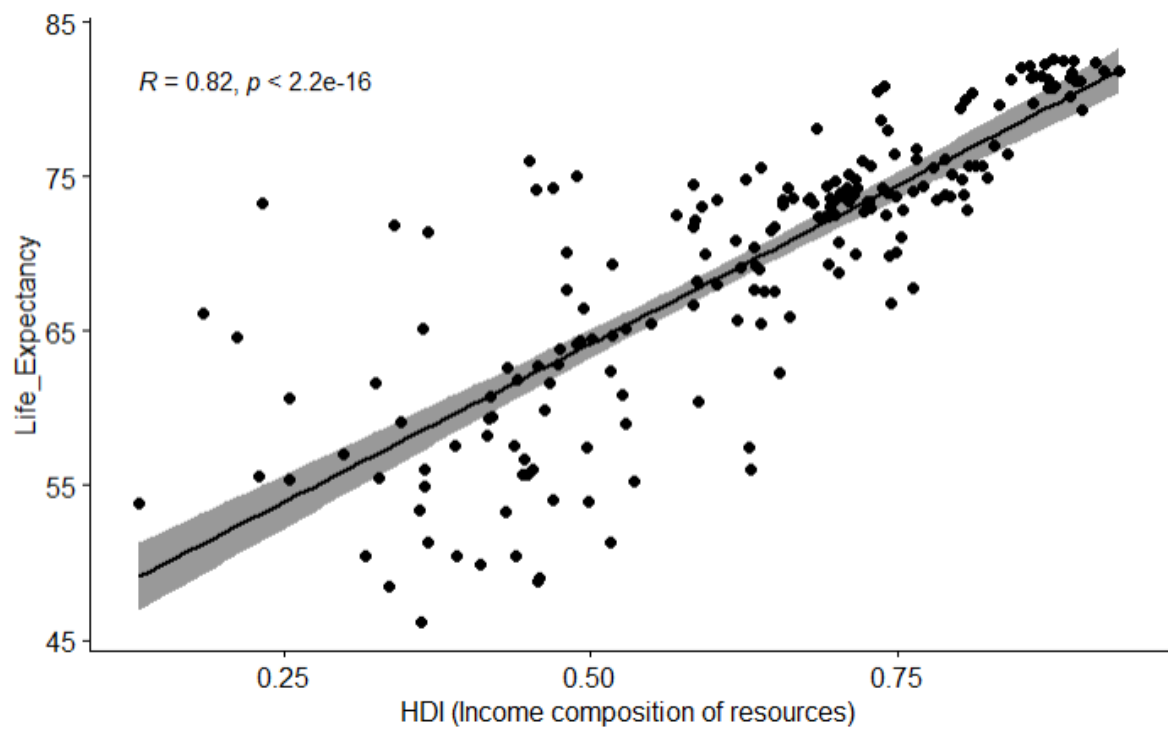


2. Should a country having a lower life expectancy value(<65) increase its healthcare expenditure in order to improve its average lifespan?



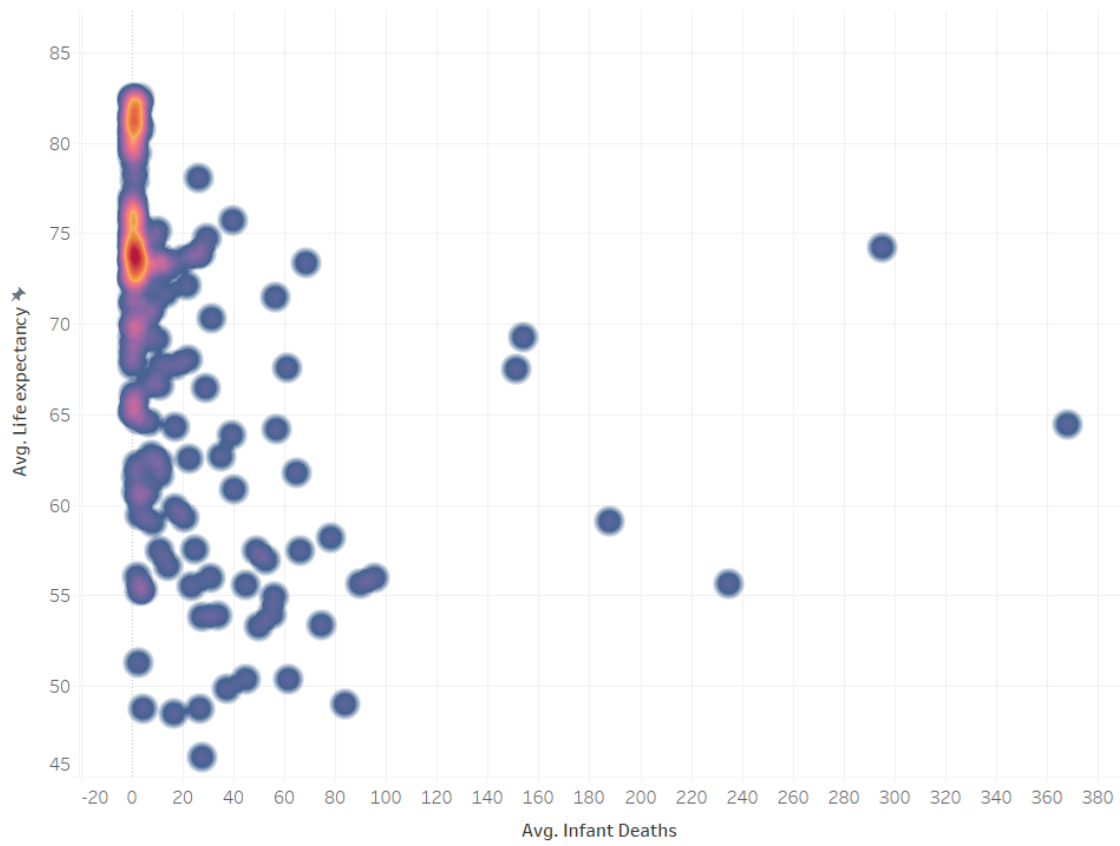
Pearson's product-moment correlation

```
data: data1$Average_HDI and data1$Average_life  
t = 19.515, df = 191, p-value < 2.2e-16  
alternative hypothesis: true correlation is not equal to 0  
95 percent confidence interval:  
 0.7627543 0.8583782  
sample estimates:  
      cor  
0.8160772
```

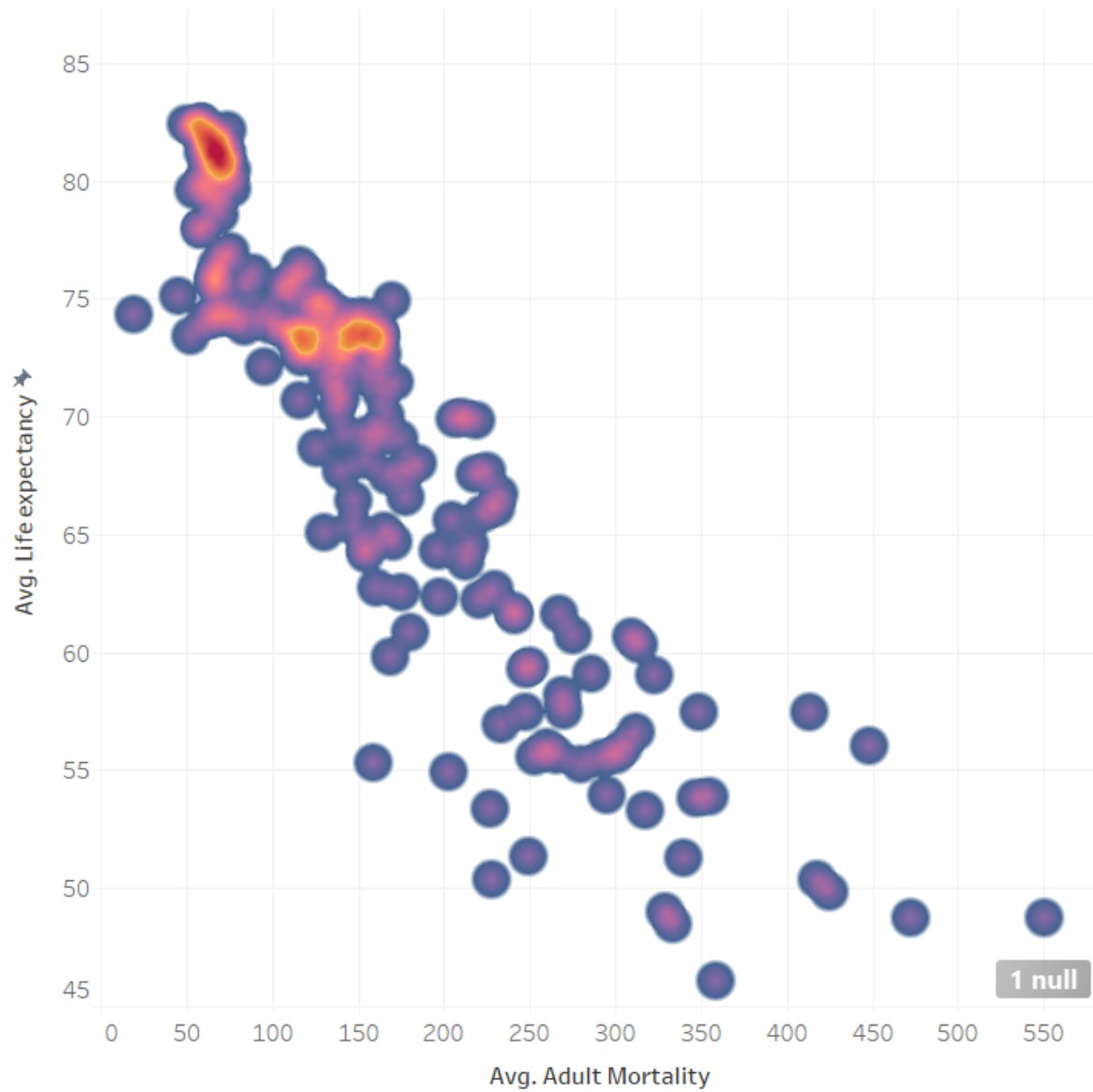


### 3. How do Infant and Adult mortality rates affect life expectancy?

Infant Deaths



## Adult Mortality



4. What is the impact of schooling on the lifespan of humans?

```

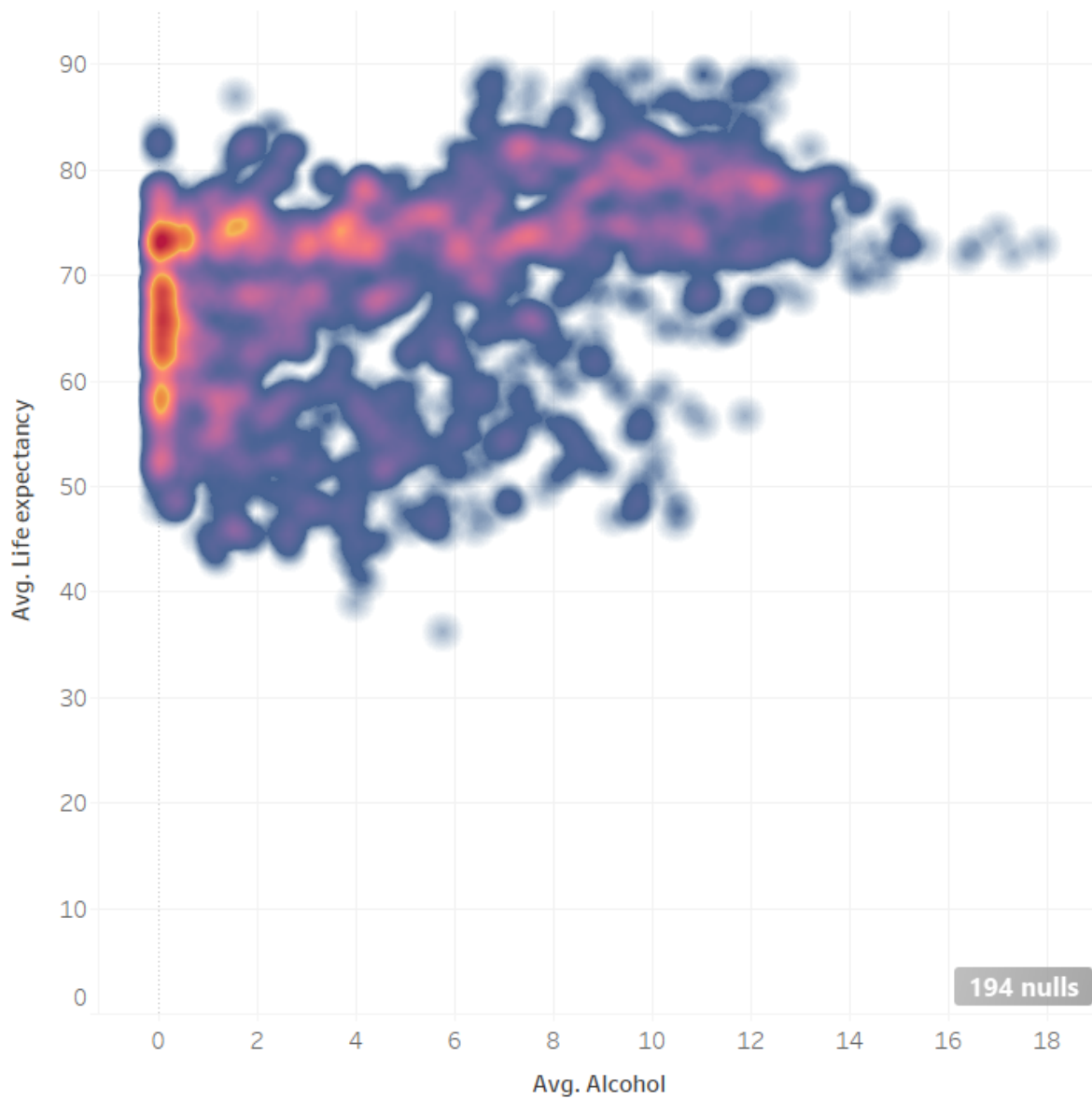
      Df Sum Sq Mean Sq F value Pr(>F)
Education    2   8627    4313   114.4 <2e-16 ***
Residuals  190   7166     38
---
signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

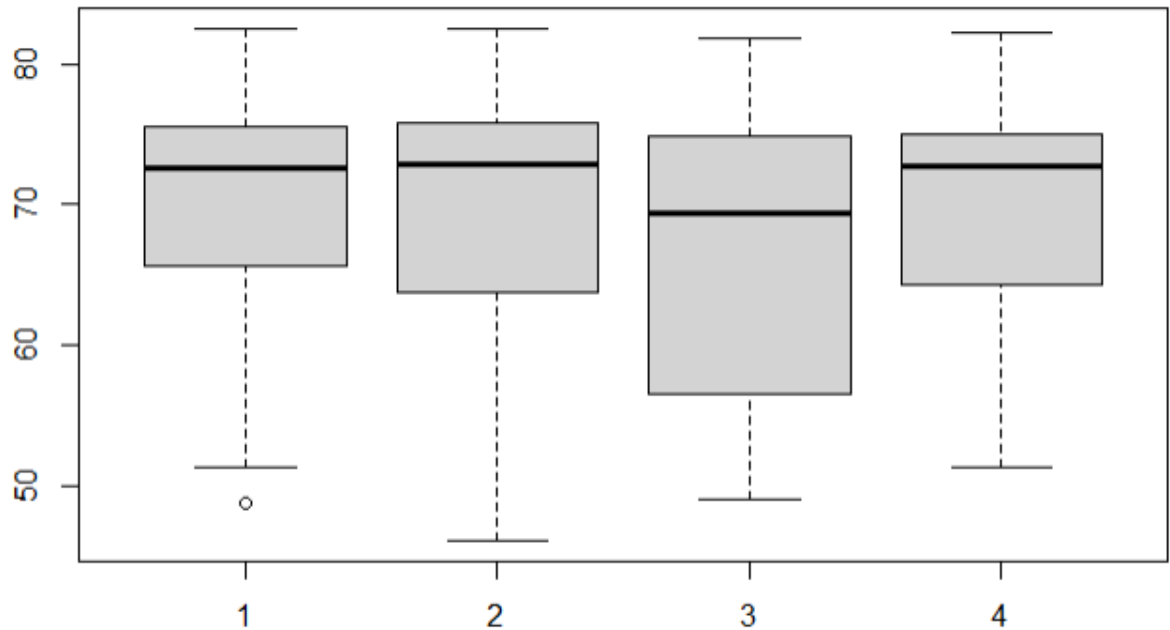
As the P value is less than 0.05. That means, there is a significant difference and it does create an impact.

5. Does Life Expectancy have positive or negative relationship with drinking alcohol?

## Alcohol Consumption



6. Do densely populated countries tend to have lower life expectancy?



As the population increases, we see that the median life expectancy decreases, as seen in the third boxplot. At first it seems counterintuitive as to why the expectancy increases in the fourth boxplot. But this is because the categories only refer to the population and not population density.

7. What is the impact of Immunization coverage on life Expectancy?

```

      Df Sum Sq Mean Sq F value    Pr(>F)
Polio      1   4855    4855   98.59 < 2e-16 ***
Diphtheria 1   1581    1581   32.10 5.35e-08 ***
Residuals 190   9357      49
---
signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

      Df Sum Sq Mean Sq F value    Pr(>F)
Hepatitis 1   2865    2865.0   42.33 6.61e-10 ***
Residuals 191  12928     67.7
---
signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```