

Cumulative Indicator Scatterplots

1/30/2021

```
# first-time need to install ggpubr  
# install.packages("ggpubr")  
library('ggpubr')
```

```
## Warning: package 'ggpubr' was built under R version 4.0.3
```

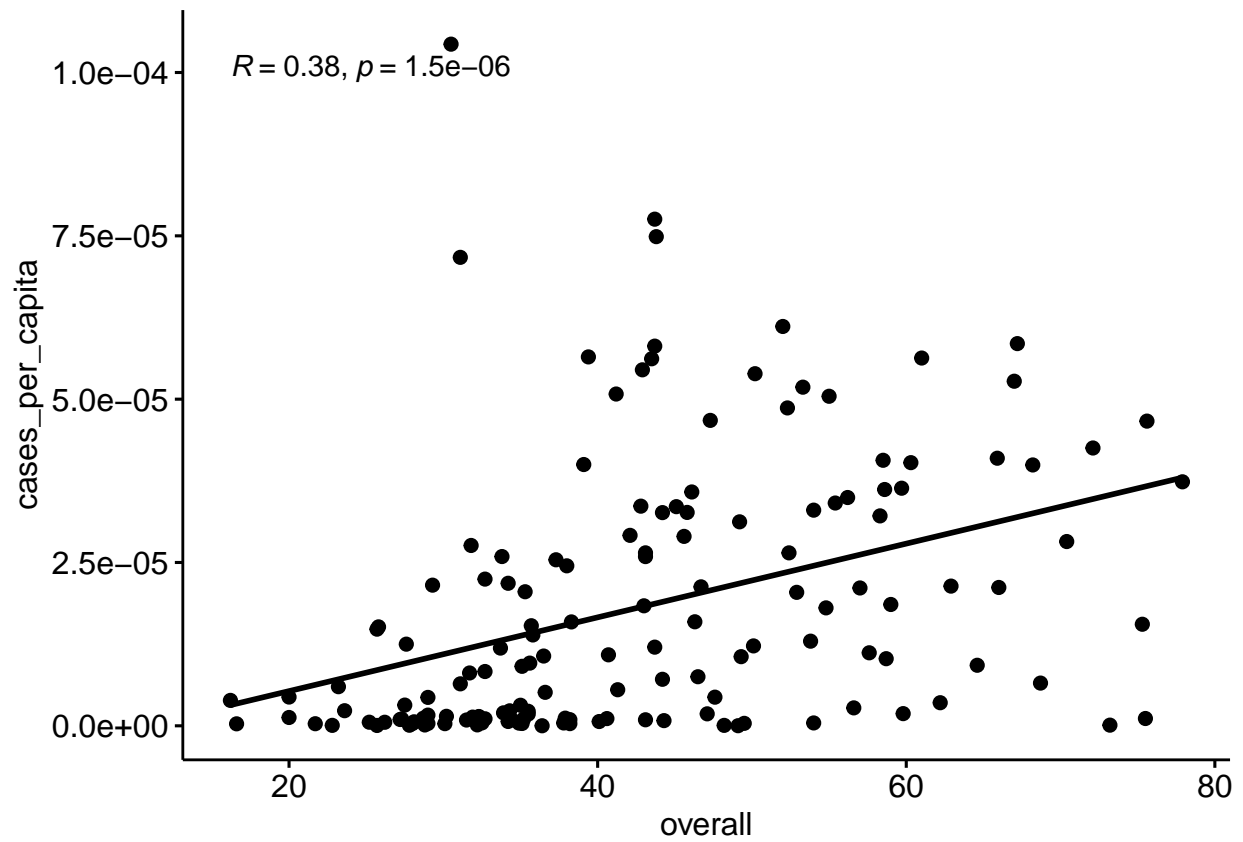
```
## Loading required package: ggplot2
```

```
## Warning: package 'ggplot2' was built under R version 4.0.3
```

```
# remove 'Inf' and 'NA' Entries  
cumulative_data=na.omit(  
  do.call(data.frame,  
    lapply(read.csv("all_data_cumulative.csv"),  
      function(x) replace(x, is.infinite(x),NA))))
```

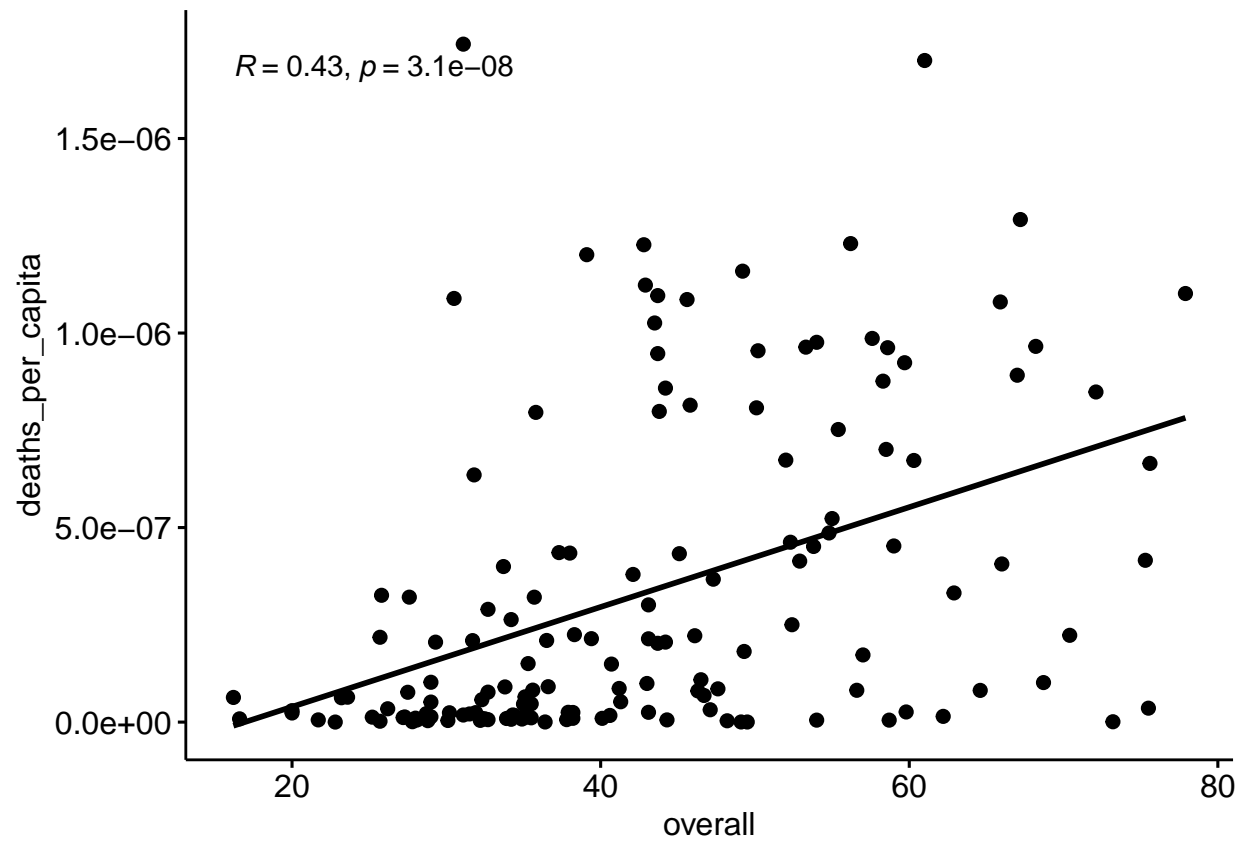
```
ggscatter(cumulative_data,x='overall',y='cases_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='overall',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



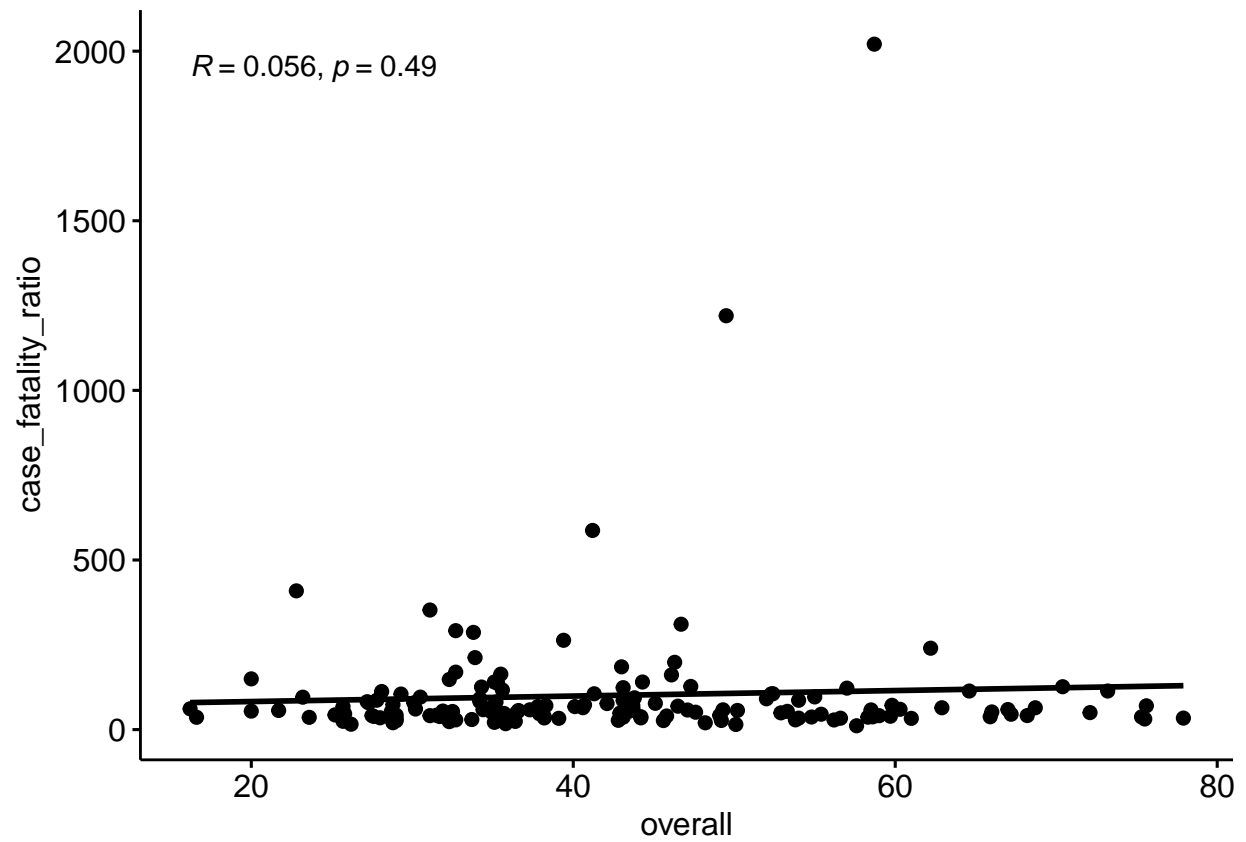
```
ggscatter(cumulative_data,x='overall',y='deaths_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='overall',ylab='deaths_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



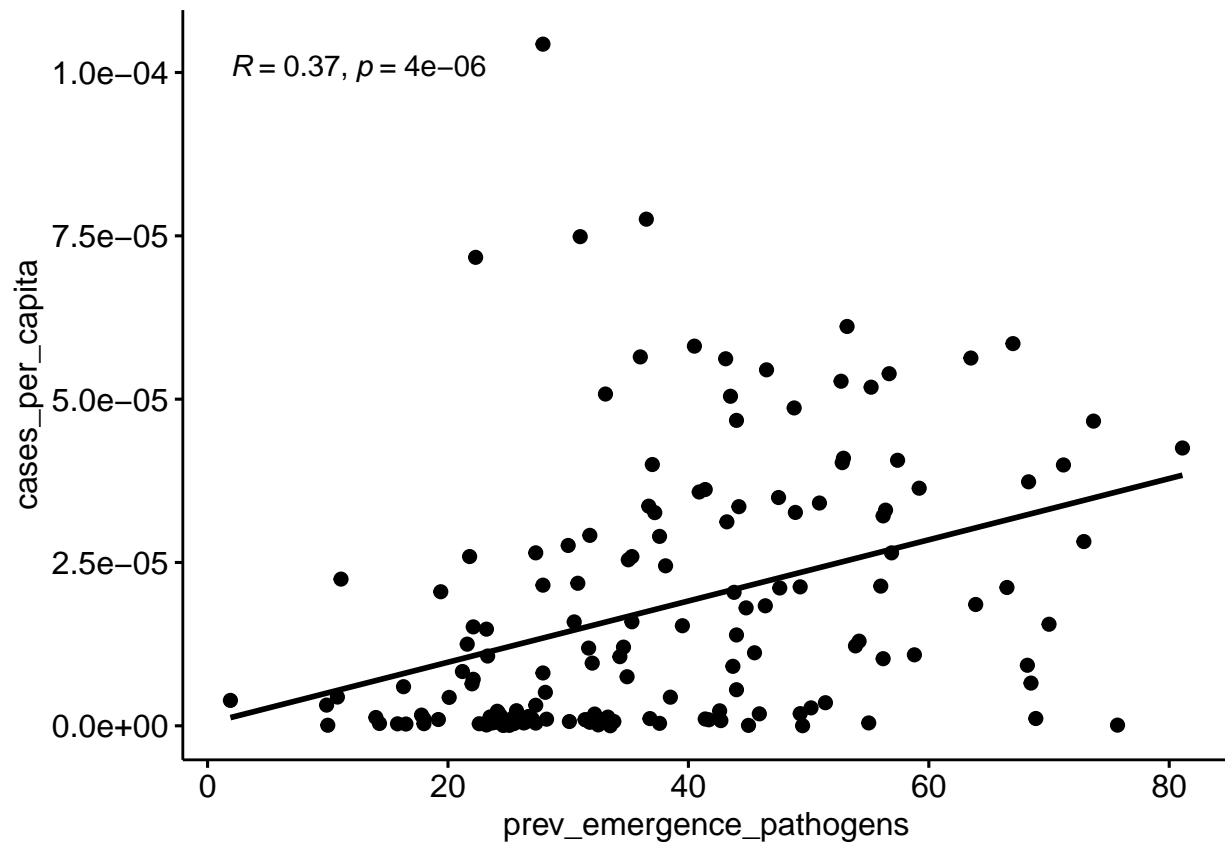
```
ggscatter(cumulative_data,x='overall',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='overall',ylab='case_fatality_ratio')
```

```
## 'geom_smooth()' using formula 'y ~ x'
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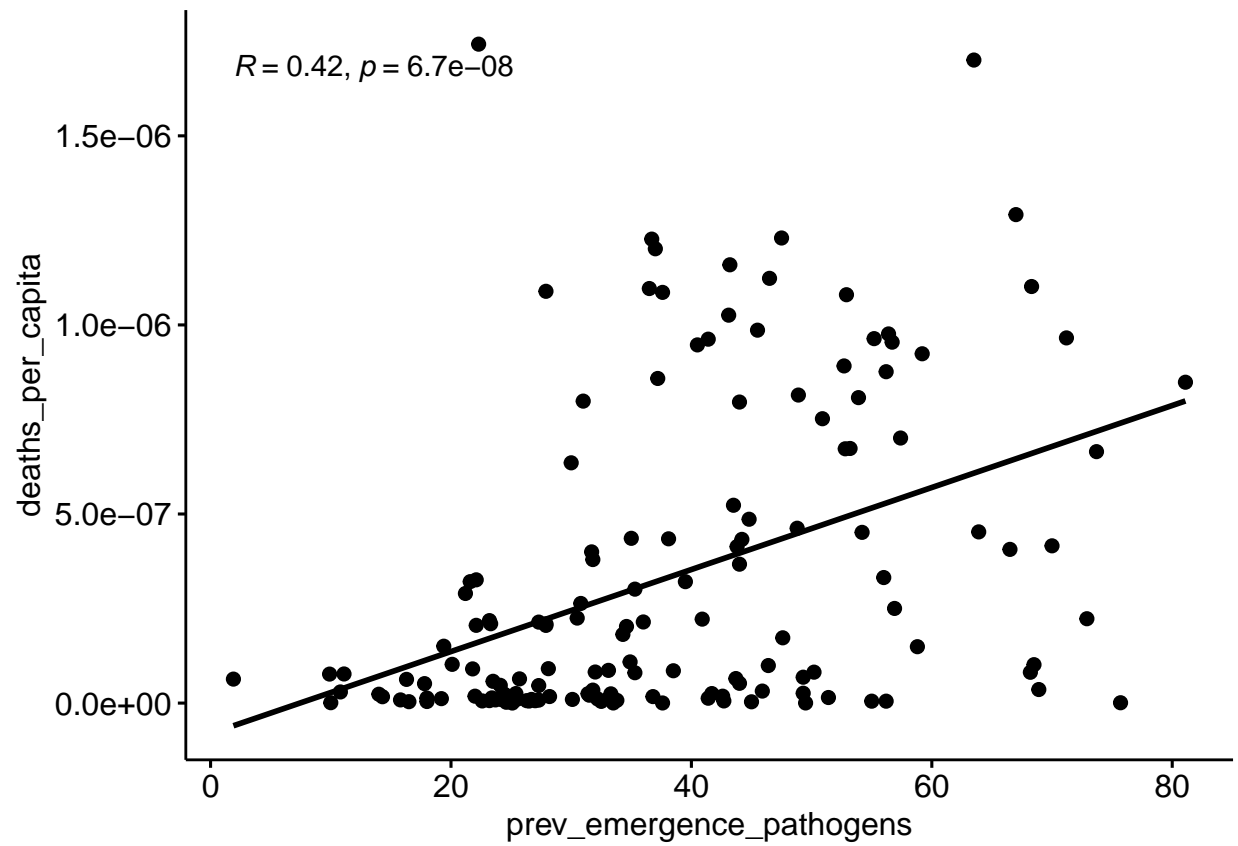
```
ggscatter(cumulative_data,x='prev_emergence_pathogens',y='cases_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='prev_emergence_pathogens',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



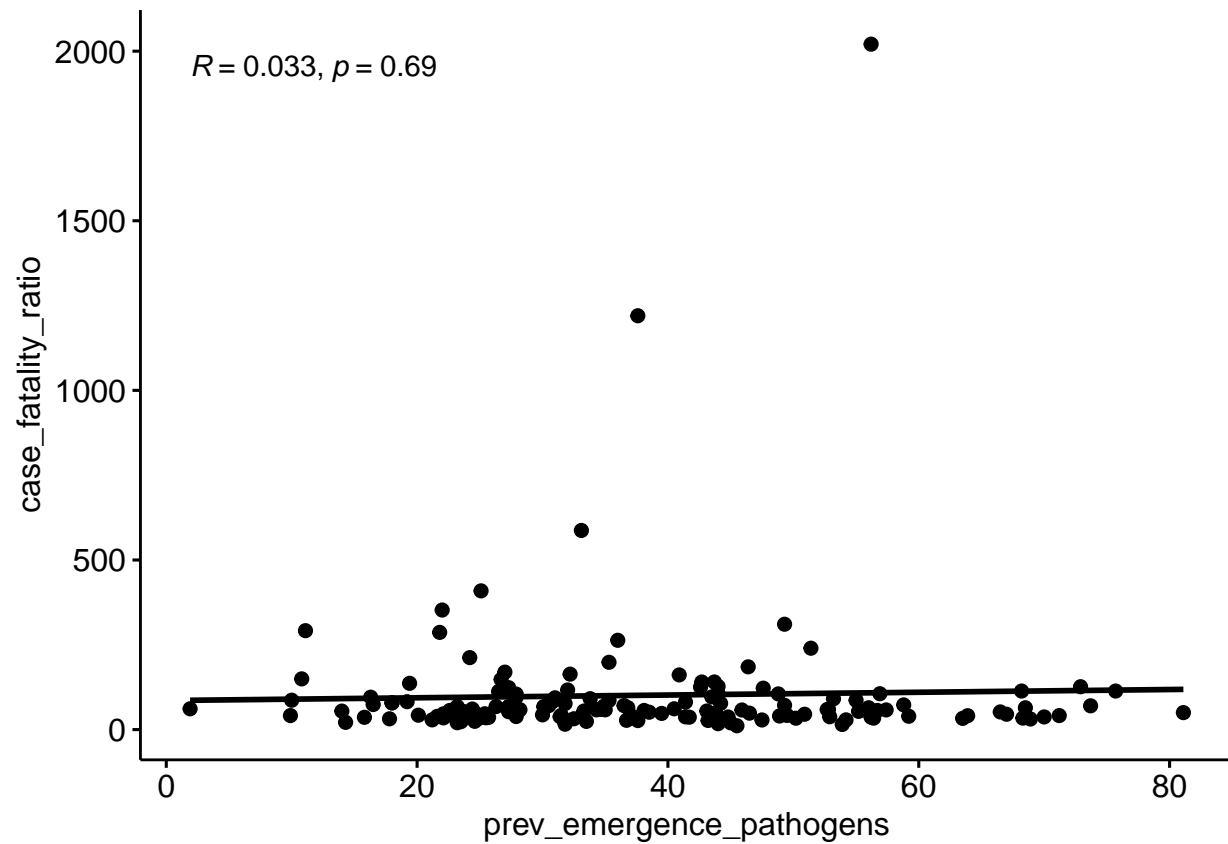
```
ggscatter(cumulative_data,x='prev_emergence_pathogens',y='deaths_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='prev_emergence_pathogens',ylab='deaths_per_capita')
```

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## 'geom_smooth()' using formula 'y ~ x'
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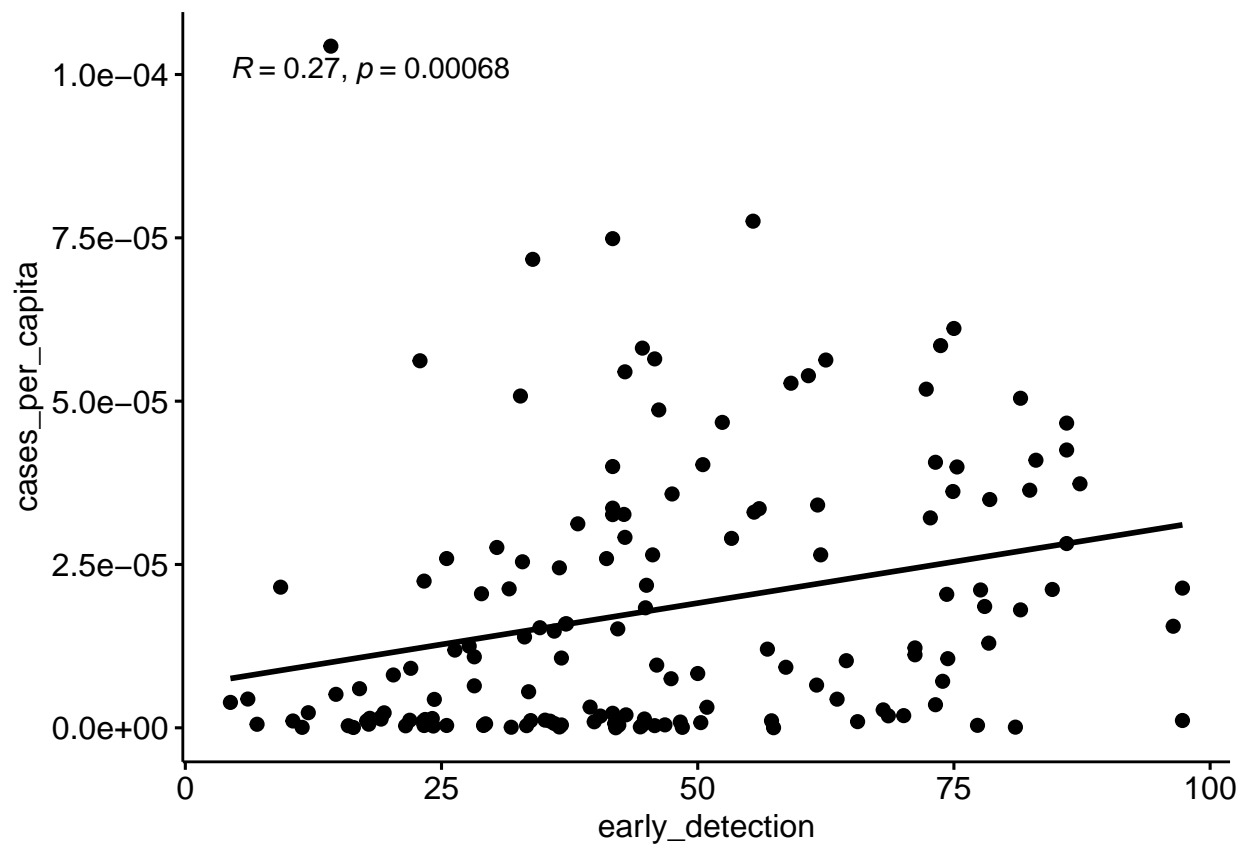
```
ggscatter(cumulative_data,x='prev_emergence_pathogens',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='prev_emergence_pathogens',ylab='case_fatality_ratio')
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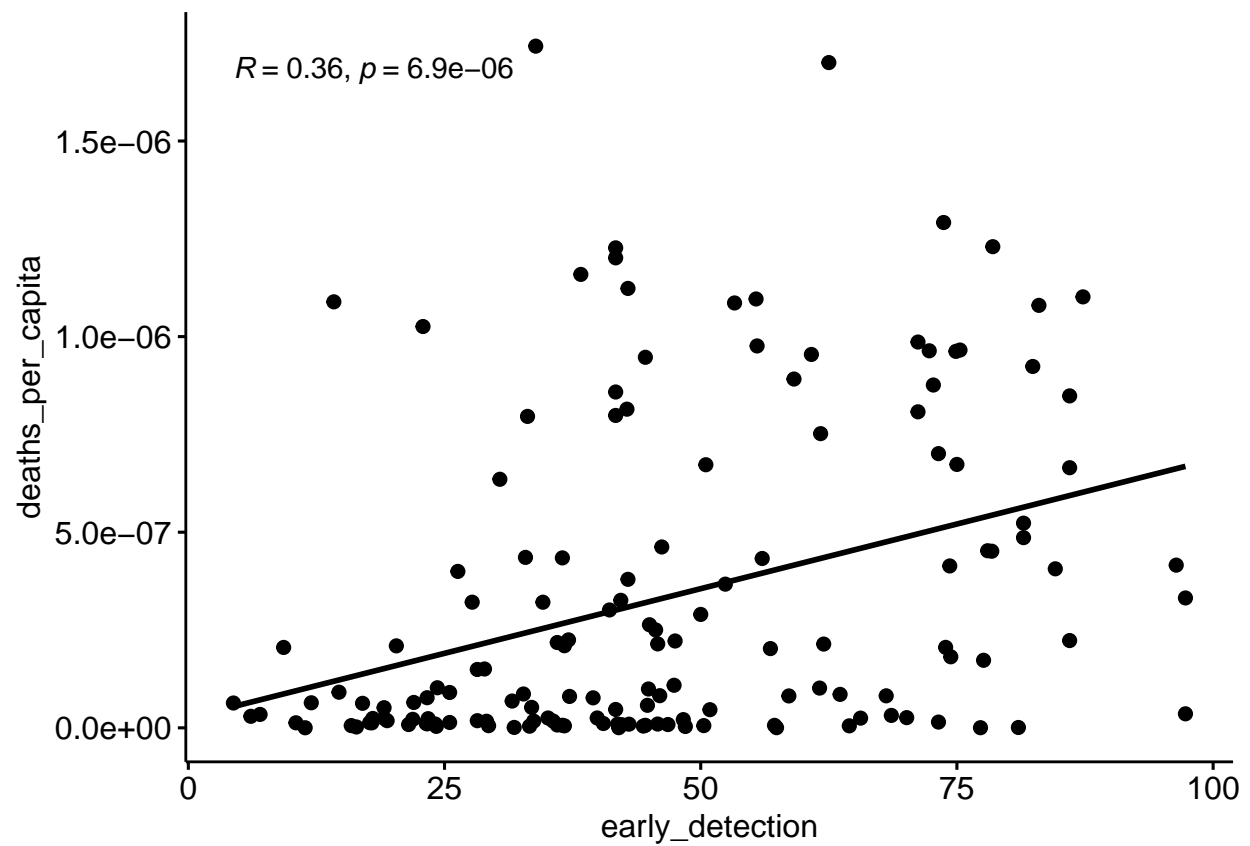
```
ggscatter(cumulative_data,x='early_detection',y='cases_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='early_detection',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



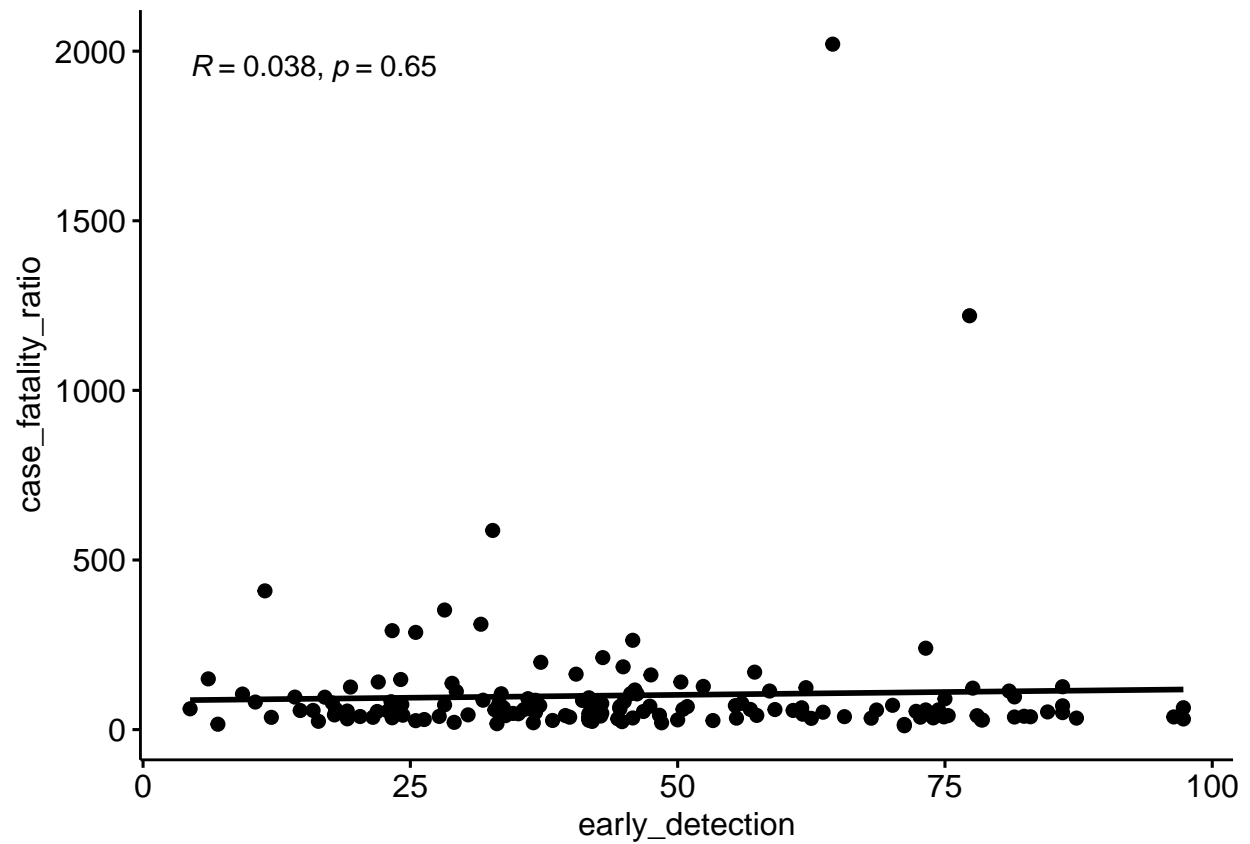

```
ggscatter(cumulative_data,x='early_detection',y='deaths_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='early_detection',ylab='deaths_per_capita')
```

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## 'geom_smooth()' using formula 'y ~ x'
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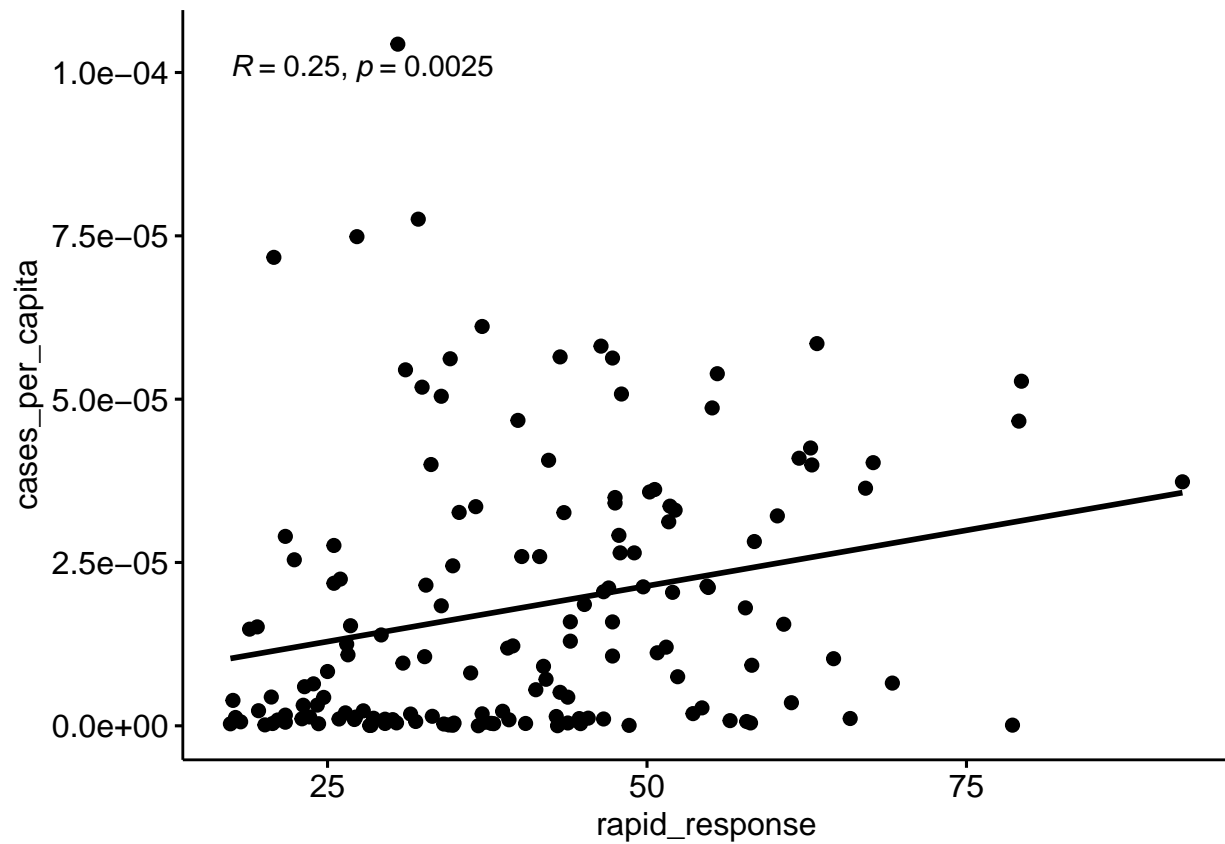
```
ggscatter(cumulative_data,x='early_detection',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='early_detection',ylab='case_fatality_ratio')
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## 'geom_smooth()' using formula 'y ~ x'
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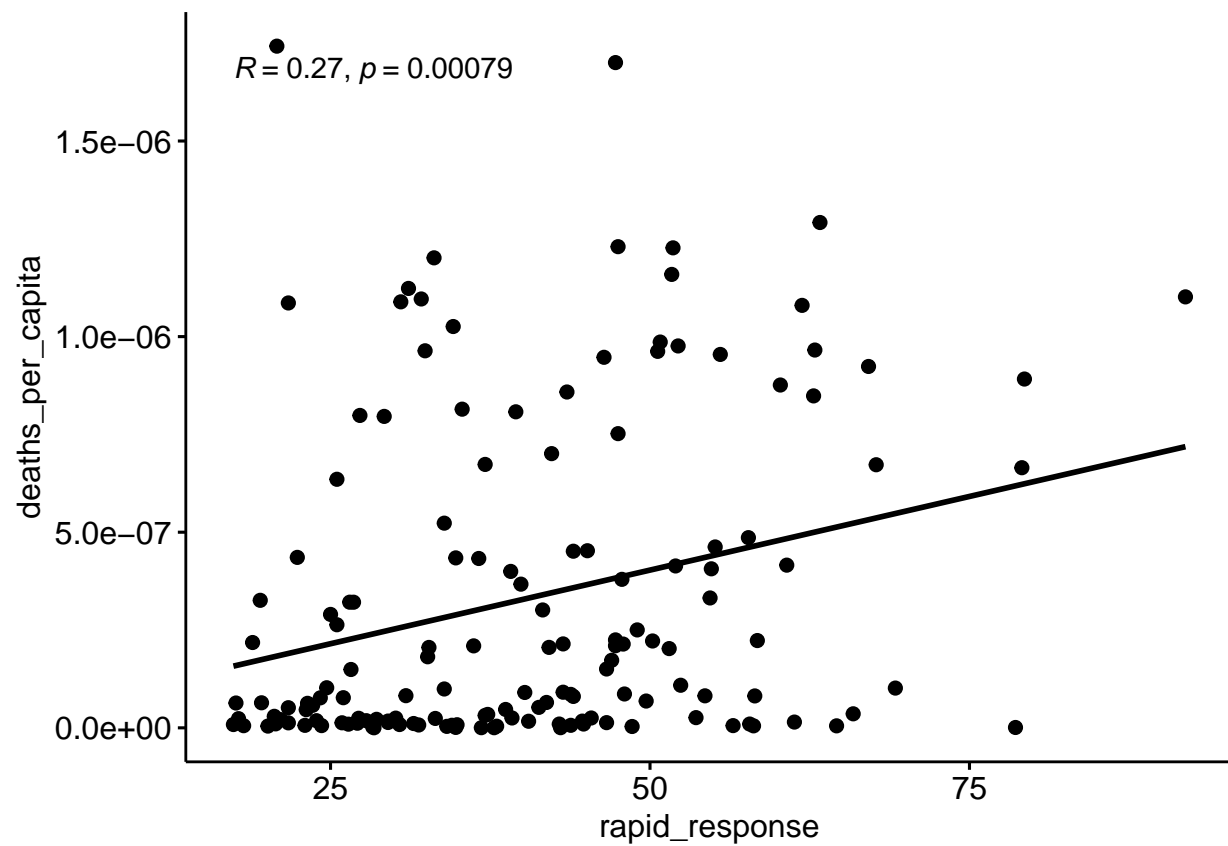
```
ggscatter(cumulative_data,x='rapid_response',y='cases_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='rapid_response',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



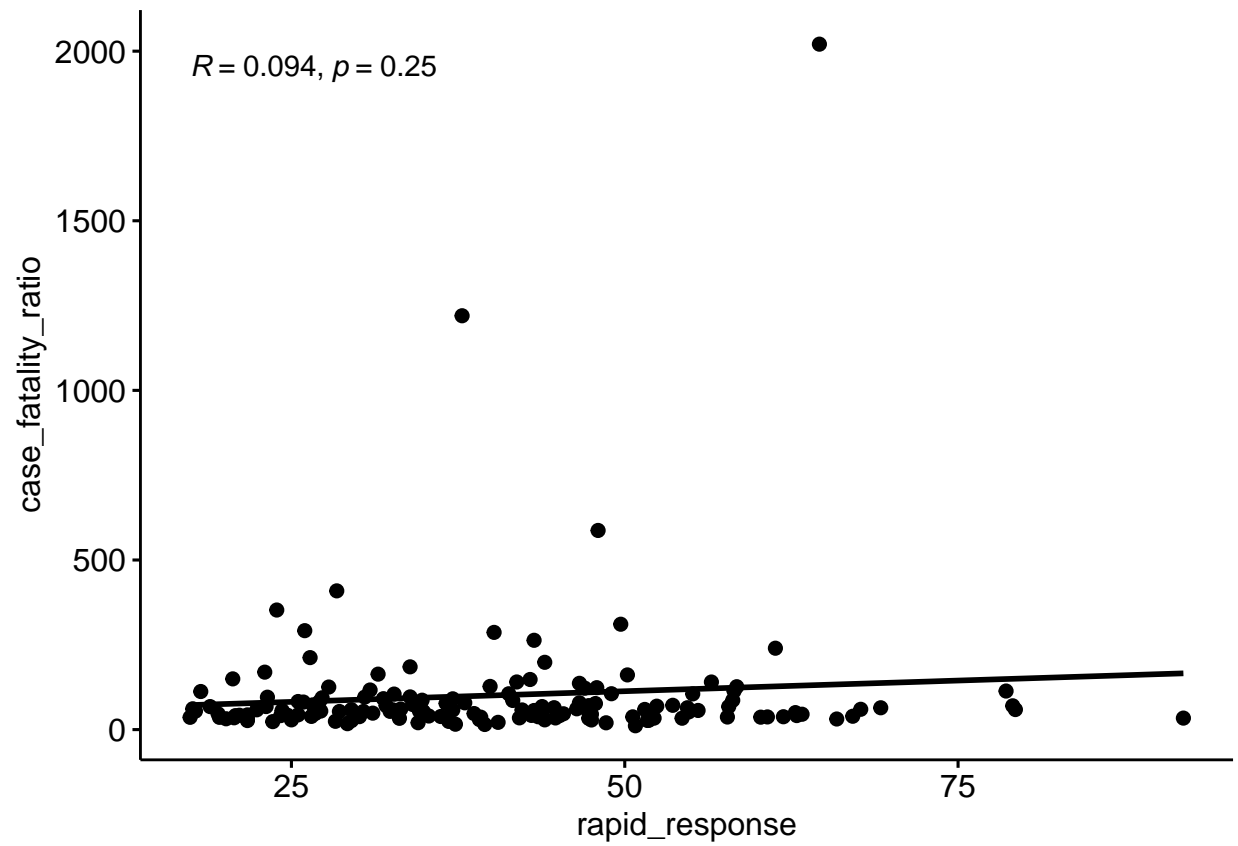
```
ggscatter(cumulative_data,x='rapid_response',y='deaths_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='rapid_response',ylab='deaths_per_capita')
```

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## 'geom_smooth()' using formula 'y ~ x'
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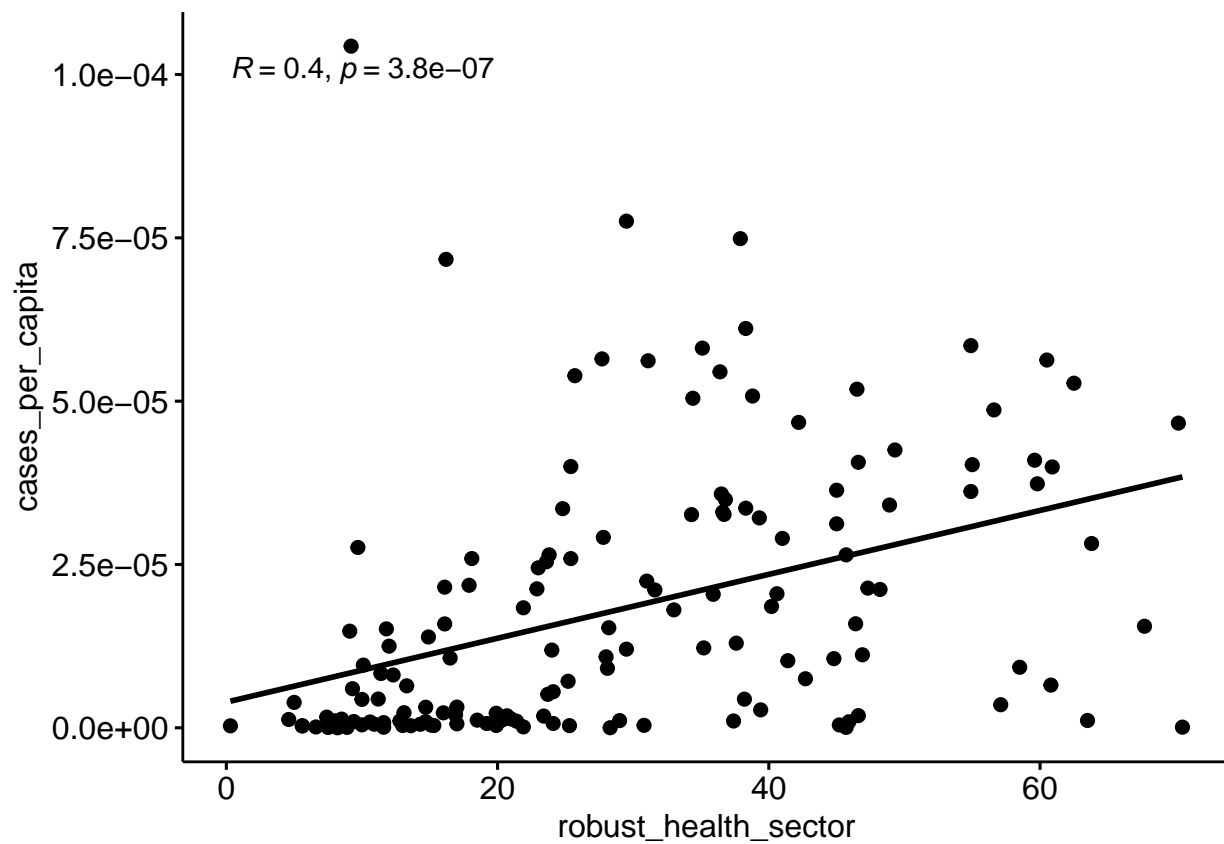
```
ggscatter(cumulative_data,x='rapid_response',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='rapid_response',ylab='case_fatality_ratio')
```

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## 'geom_smooth()' using formula 'y ~ x'
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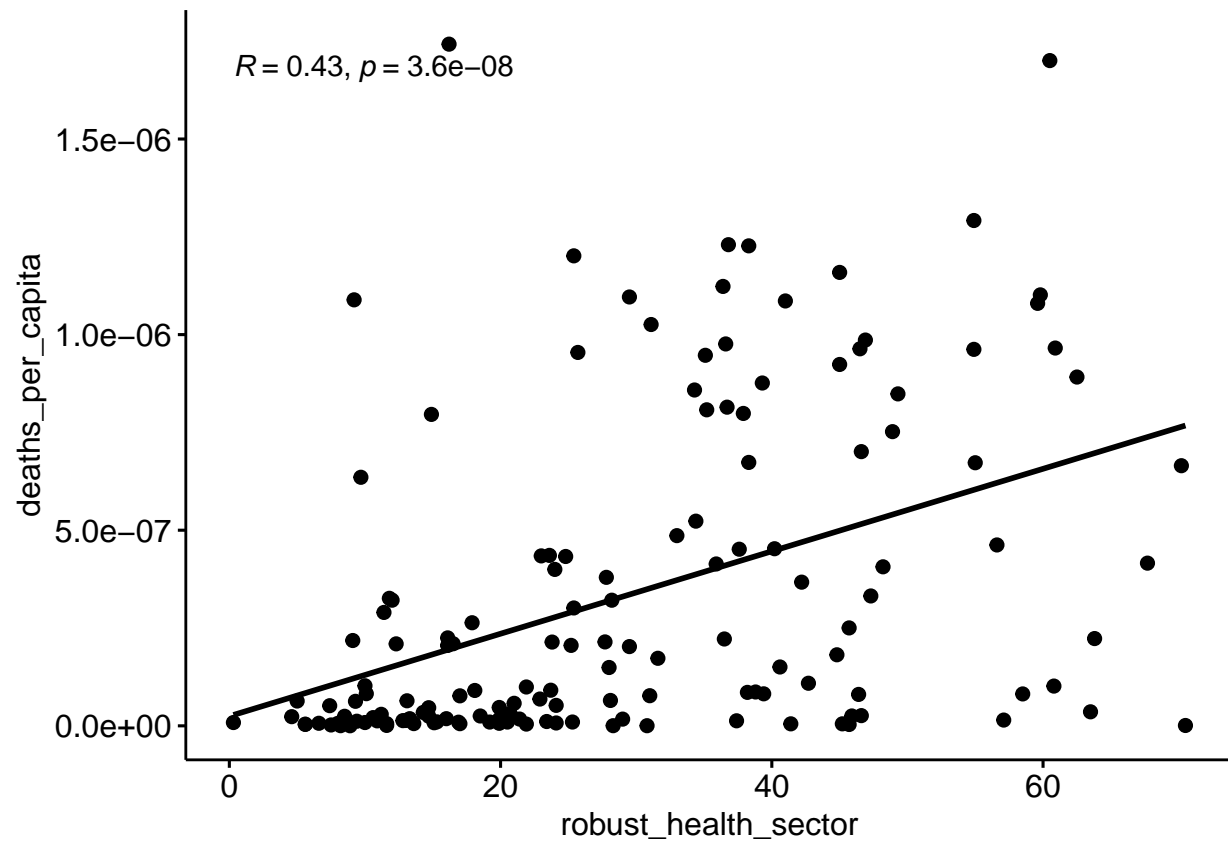
```
ggscatter(cumulative_data,x='robust_health_sector',y='cases_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='robust_health_sector',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



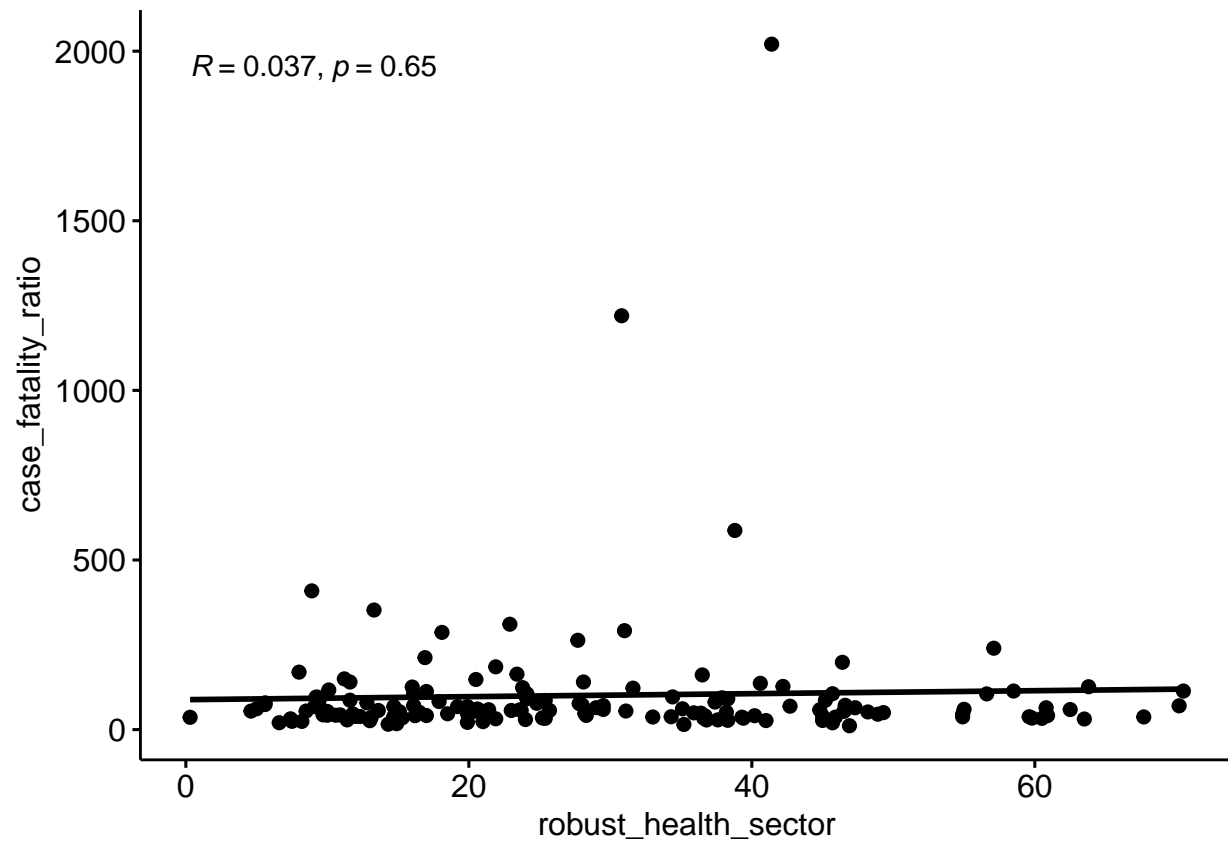
```
ggscatter(cumulative_data,x='robust_health_sector',y='deaths_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='robust_health_sector',ylab='deaths_per_capita')
```

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```



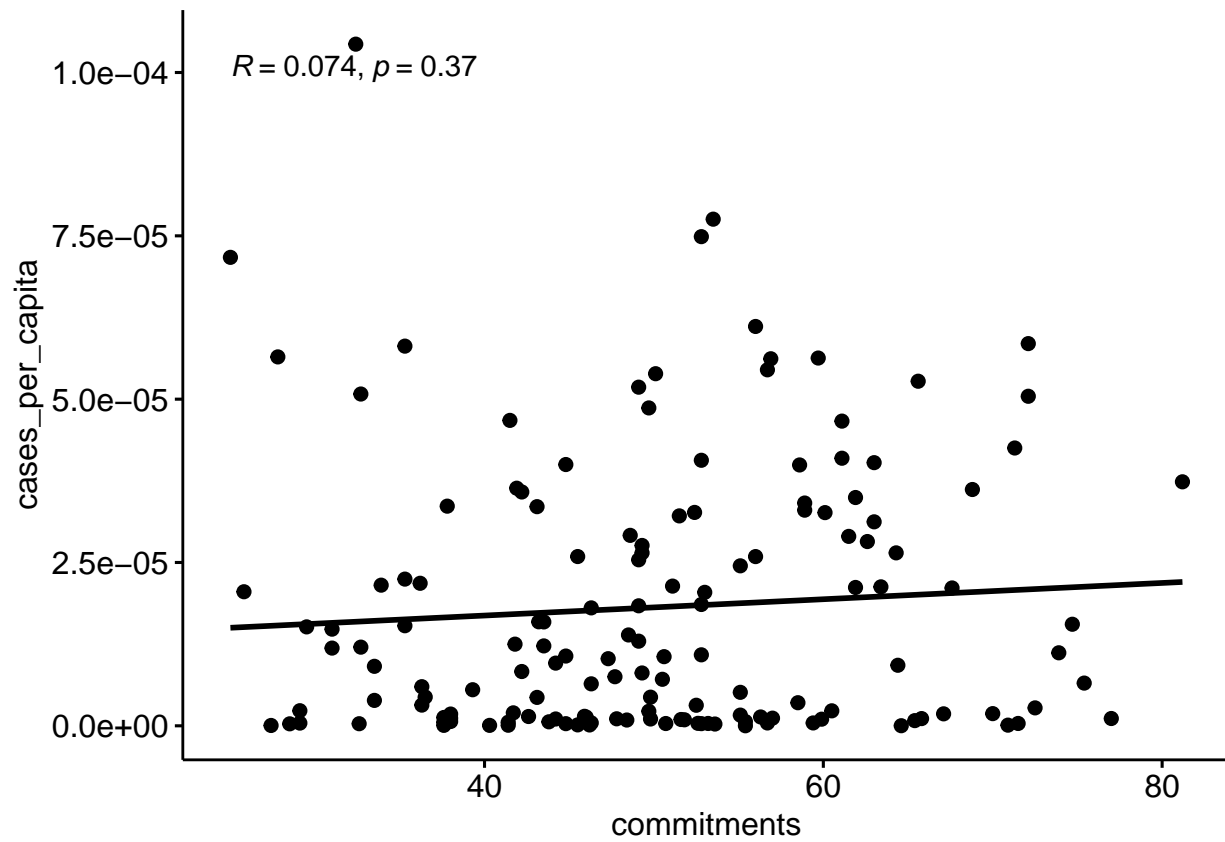
```
ggscatter(cumulative_data,x='robust_health_sector',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='robust_health_sector',ylab='case_fatality_ratio')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



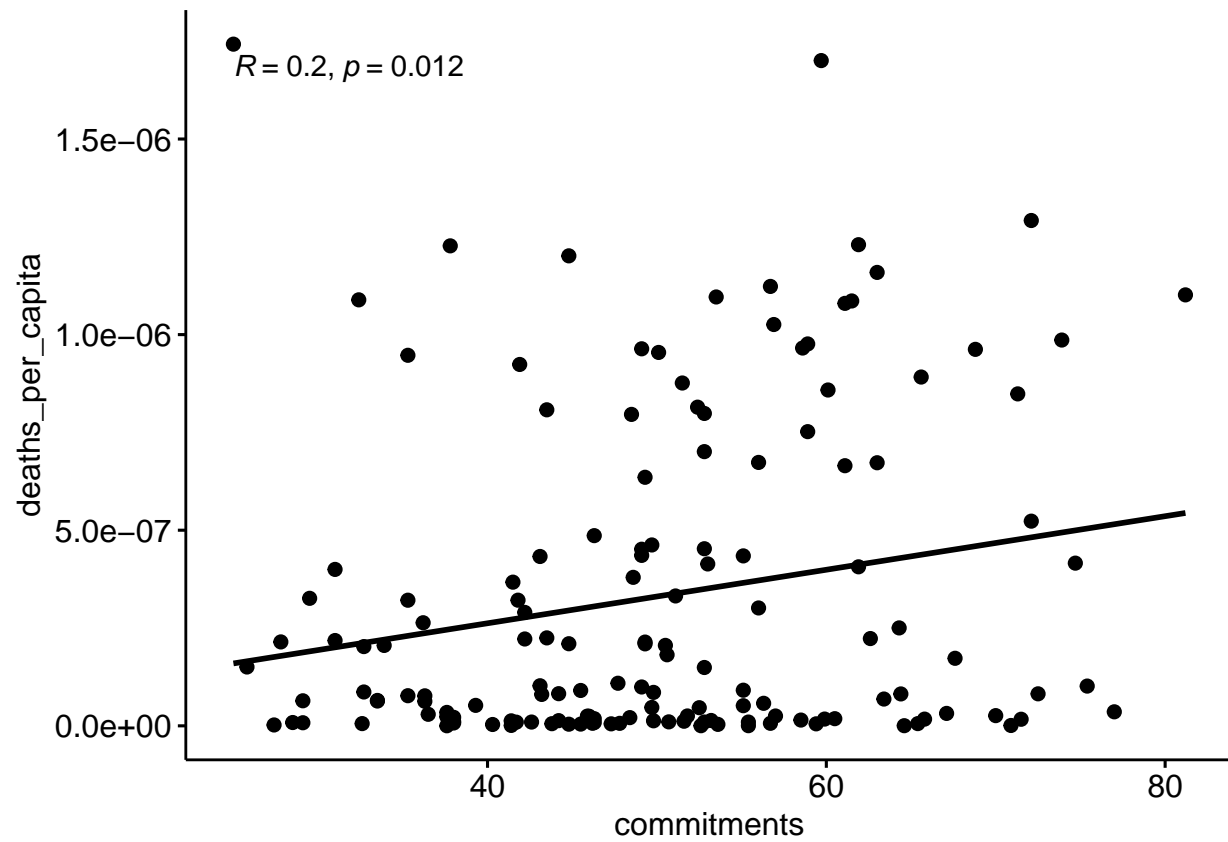

```
ggscatter(cumulative_data,x='commitments',y='cases_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='commitments',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



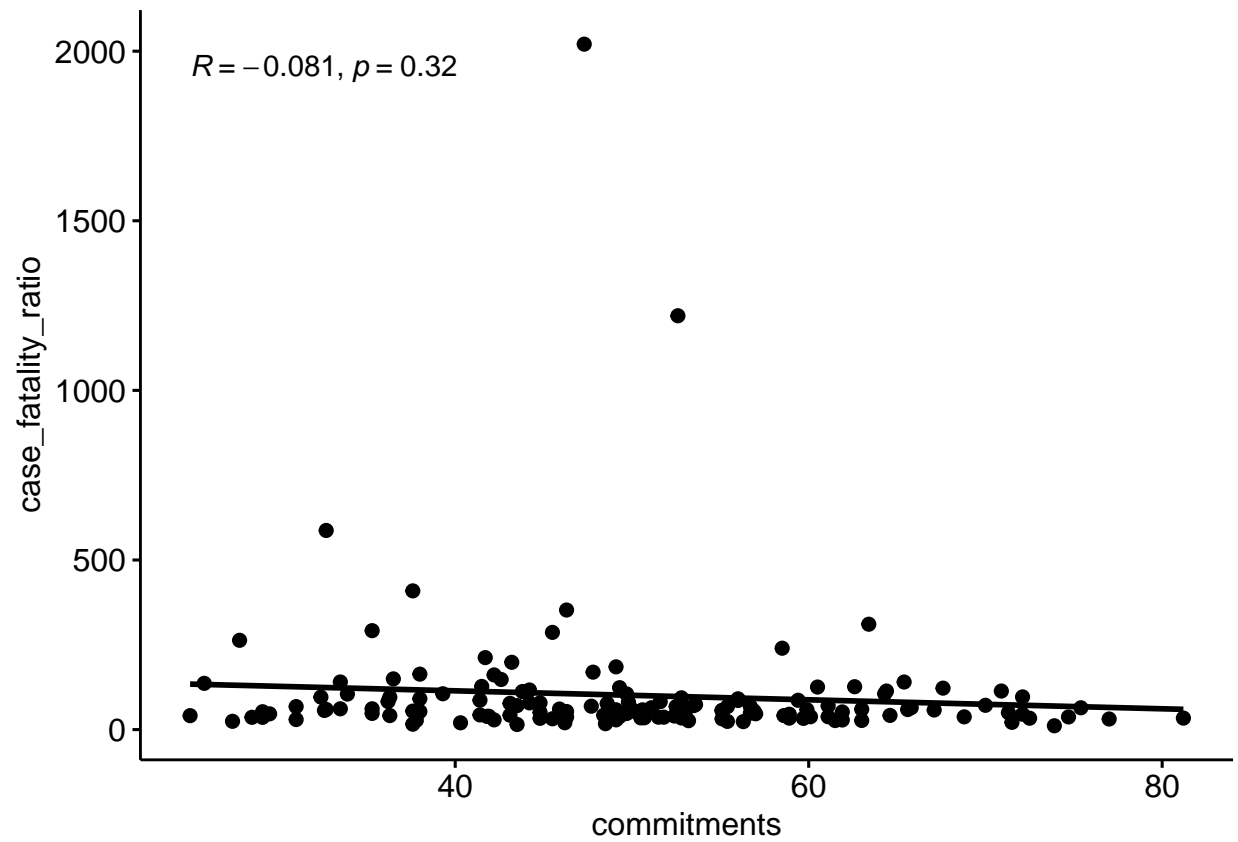
```
ggscatter(cumulative_data,x='commitments',y='deaths_per_capita',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='commitments',ylab='deaths_per_capita')
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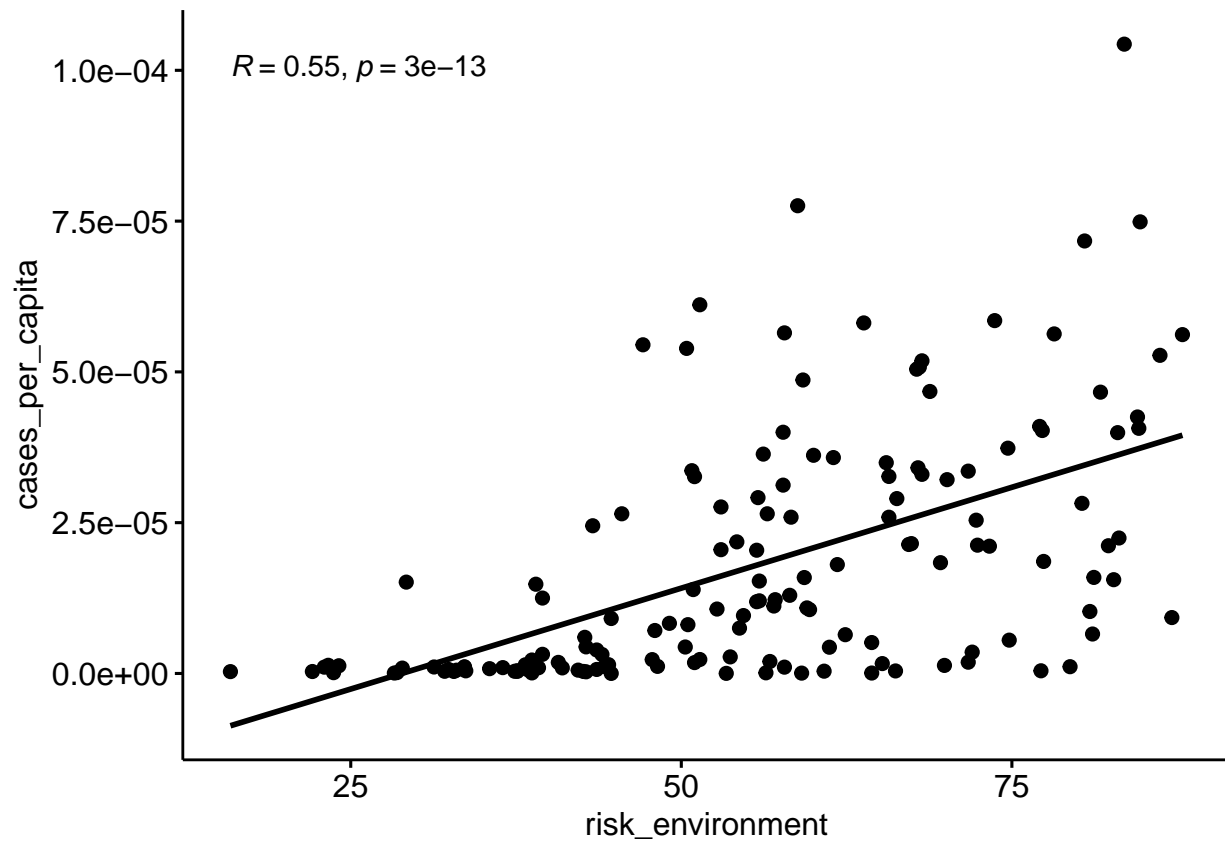
```
ggscatter(cumulative_data,x='commitments',y='case_fatality_ratio',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='commitments',ylab='case_fatality_ratio')
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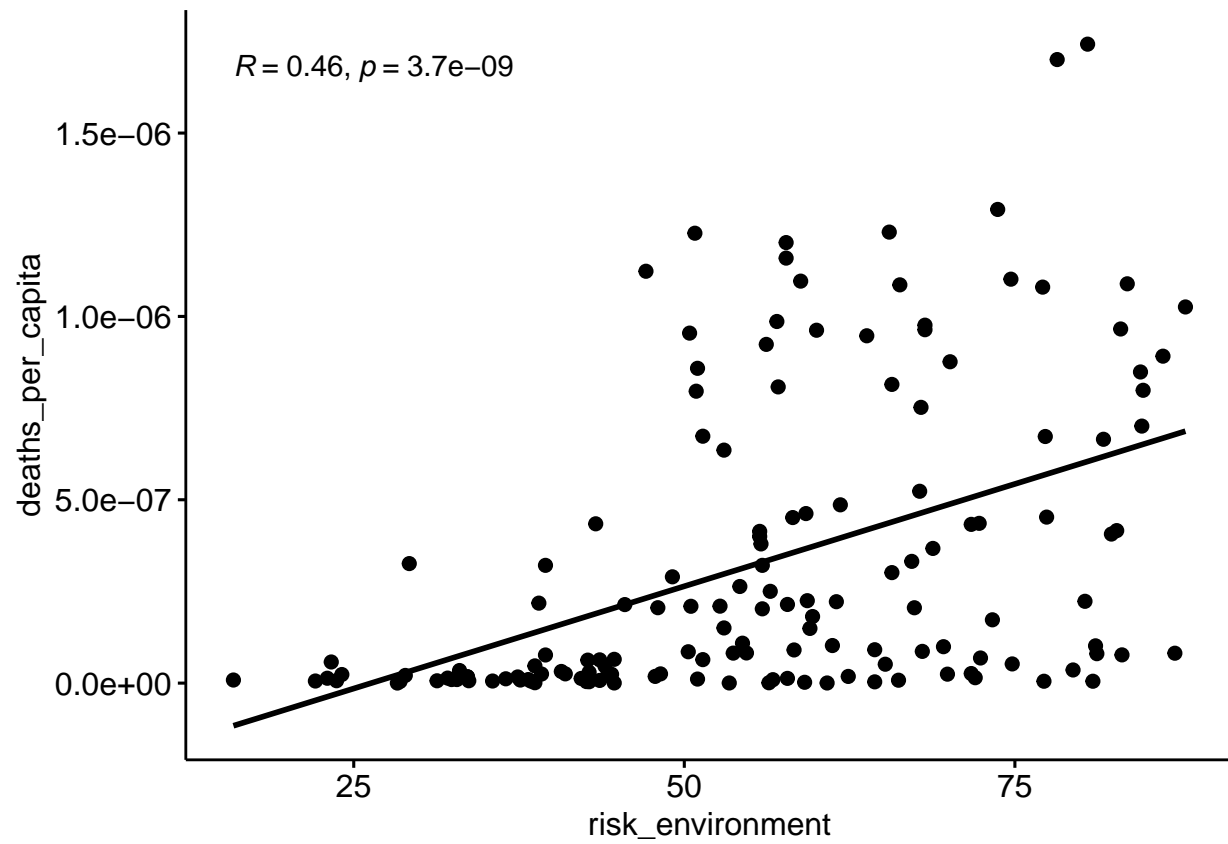
```
ggscatter(cumulative_data,x='risk_environment',y='cases_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='risk_environment',ylab='cases_per_capita')
```

```
## 'geom_smooth()' using formula 'y ~ x'
```



```
ggscatter(cumulative_data,x='risk_environment',y='deaths_per_capita',  
          add='reg.line',cor.coef=TRUE,cor.method='pearson',  
          xlab='risk_environment',ylab='deaths_per_capita')
```

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```
ggscatter(cumulative_data,x='risk_environment',y='case_fatality_ratio',
          add='reg.line',cor.coef=TRUE,cor.method='pearson',
          xlab='risk_environment',ylab='case_fatality_ratio')
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