Table 1: Relation between MPX cases with GHSI and JEE

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | GHSI | | | JEE | | |
|  | Estimate | 95% CI | P-value | Estimate | 95% CI | P-value |
| Total cases | 0.002 | 0.001 to 0.003 | <0.001 | 0.001 | -0.001 to 0.003 | 0.220 |
|  | Correlation Coefficient, r = 0.417 | | R-squared = 17.35% | Correlation Coefficient, r = 0.279 | | R-squared = 7.79% |

From Table 1, if GHSI increases by 1 time, the average total MPX cases increases by 0.002 times. The model explained 17.35% of total variation. The Pearson’s correlation coefficient and scatter plot showed perfect positive linear relationship (r=0.417) between total cases and GHSI (table 1 and figure 1).

From Table 1, if JEE (RS) increases by 1 time, the average total MPX cases increases by 0.001 times. The model explained 7.79% of total variation. The Pearson’s correlation coefficient and scatter plot showed perfect positive linear relationship (r=0.279) between total cases and JEE (RS) (table 1 and figure 1).

Table 2: Relation between MPX deaths with GHSI and JEE

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | GHSI | | | | JEE | | | |
|  | Estimate | | 95% CI | P-value | Estimate | 95% CI | | P-value |
| Total cases | 1.137 | | 0.152 to 2.121 | 0.043 | 1.125 | -0.739 to 3.246 | | 0.285 |
|  | | Correlation Coefficient, r = 0.547 | | R-squared = 29.90% | Correlation Coefficient, r = 0.525 | | R-squared = 27.53% | |

From Table 2, if GHSI increases by 1 time, the average total MPX cases increases by 1.14 times. The model explained 29.90% of total variation. The Pearson’s correlation coefficient and scatter plot showed perfect positive linear relationship (r=0.547) between total cases and GHSI (table 2 and figure 1).

From Table 2, if JEE (RS) increases by 1 time, the average total MPX cases increases by 1.13 times. The model explained 27.53% of total variation. The Pearson’s correlation coefficient and scatter plot showed perfect positive linear relationship (r=0.525) between total cases and JEE (RS) (table 2 and figure 1).

Figure 1: Scatter plot with regression line between total cases and deaths of MPX with GHSI and JEE.

