**S1 Table. Review of previous studies for influenza A and B in tropical countries (Categorized by temperature, humidity, and precipitation).**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable group** | **Setting [Reference no.]** | **Latitude** | | **Study period** | | **Variable** | **Correlation type** | **Statistical method** |
| Temperature | Singapore [1] | 1°18’N | | 2000–2007 | | aveT | Not found | Time series |
| Panama [2] | 8°58’N | | 2008–2013 | | aveT | Not found | Logistic regression |
| El Salvador [2] | 13°40’N | | 2008–2013 | | aveT | Negative | Logistic regression |
| Guatemala [2] | 14°38’N | | 2008–2013 | | aveT | Not found | Logistic regression |
| Hong Kong SAR [1, 3] | 22°18’N | | 2000–2007 | | aveT | Negative (flu B only) | Time series |
| Kolkata, India [4] | 22°39’N | | 2007–2008 | | minT, maxT | Positive | Pearson correlation test |
| Humidity | Singapore [1] | | 1°18’N | 2000–2007 | RH | | Negative | Time series |
| Panama [2] | | 8°58’N | 2008–2013 | SH | | Positive | Logistic regression |
| El Salvador [2] | | 13°40’N | 2008–2013 | SH | | Positive | Logistic regression |
| Guatemala [2] | | 14°38’N | 2008–2013 | SH | | Negative | Logistic regression |
| Hong Kong SAR [1, 3] | | 22°18’N | 2000–2007  1997–2006 | RH | | Positive (flu A only) | Time series |
| Kolkata, India [4] | | 22°39’N | 2007–2008 | RH | | Positive | Pearson correlation test |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable group** | **Setting** | **Latitude** | **Study period** | **Variable** | **Correlation type** | **Statistical method** |
| Precipitation | Singapore [5] | 1°18’N | 1990–1994 | Rainfall | Positive (flu B only) | Time series |
| Singapore [1] | 1°18’N | 2000–2007 | Rainfall | Not found | Time series |
| Fortaleza, northeast Brazil [6] | 4°S | 2001–2007 | Rainy season | Positive | Inspect graph only |
| Indonesia [7] | 6°10.5’S | 2003–2007 | Mean rainfall | Positive (flu A only) | Pearson correlation test |
| Cote d’Ivoire [8] | 6°51’N | 2003–2010 | Rainy season | Positive | Inspect graph only |
| Thailand [9] | 6°– 22°N | 2004–2010 | Rainy season | Positive | Inspect graph only |
| Panama [2] | 8°58’N | 2008–2013 | Rainfall | Positive | Logistic regression |
| Cambodia [10] | 11°33’N | 2006–2008 | Rainy season | Positive | Inspect graph only |
| El Salvador [2] | 13°40’N | 2008–2013 | Rainfall | Not found | Logistic regression |
| Guatemala [2] | 14°38’N | 2008–2013 | Rainfall | Positive | Logistic regression |
| Senegal [11] | 14°40’N | 1996–2009 | Rainy season | Positive | Inspect graph only |
| Myanmar [12] | 19°45’N | 2006–2007 | Rainy season | Positive | Inspect graph only |
| Hong Kong SAR [1] | 22°18’N | 2000–2007 | Rainfall | Not found | Time series |
| Kolkata, India [4] | 22°39’N | 2007–2008 | Rainfall | Positive | Pearson correlation test |
| Bangladesh [13] | 23°42’N | 2007–2008 | Rainy season | Positive | Correlation test |

\*Abbreviations: aveT, average temperature; minT, minimum temperature; maxT, maximum temperature; RH, relative humidity; SH, specific humidity.

\*\*Number in parentheses[ ] indicates reference number of the cited article.

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