**Epidemiology and Infection**

Prediction of Zika confirmed cases in Brazil and Colombia using Google trends

S. Morsy1,2, M.G. Kamel2,3, A.H. Zayan2,4, T.N. Dang2,5, O.M. Makram2,6, M. Elhady2,7, K. Hirayama8, N.T. Huy9,10, \*

**Supplementary tables**

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| *Supplementary table 1* *showing the seven possible Zika prediction models in Brazil* |  |  |  |  |
| Model | Estimate | SE | Z value | P value | 2.5% | 97.5% | Dispersion |
| Lag 1 zika search, basis TSR | 0.014 | 0.002 | 7.887 | 0 | 0.011 | 0.018 | 256.7 |
| Lag 1 zika search, TSR + AC: lag (model residuals, 1) | 0.015 | 0.002 | 8.765 | 0 | 0.011 | 0.018 | 160.1 |
| Lag 1 zika search, TSR + AC: lag (Y, 1) | 0.006 | 0.003 | 2.044 | 0.041 | 0 | 0.013 | 196.4 |
| Lag 1 zika search, TSR + AC: lag (log (Y + 1), 1)  | 0.004 | 0.001 | 3.442 | 0.001 | 0.002 | 0.007 | 44.8 |
| Lag 2 zika search, TSR lag (Zika, 2) + AC: lag (log (Y + 1), 2) | 0.006 | 0.002 | 3.483 | 0 | 0.003 | 0.01 | 95 |
| Lag 3 zika search, TSR lag (Zika, 3) + AC: lag (log (Y + 1), 3) | 0.005 | 0.003 | 1.881 | 0.06 | 0 | 0.01 | 180.7 |
| Lag 0 zika search, TSR lag (Zika, 0) + AC: lag (log (Y + 1), 1)  | 0.005 | 0.001 | 5.172 | 0 | 0.003 | 0.006 | 31 |

*Yt: the weekly Zika count on week t, TSR: Time series regression.*

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| --- | --- | --- | --- | --- |
| *Supplementary table 2* *showing the seven possible Zika prediction models in Colombia* |  |  |  |  |
| Model | Estimate | SE | Z value | P value | 2.5% | 97.5% | Dispersion |
| Lag 1 zika search, basis TSR | 0.021 | 0.003 | 7.547 | 0 | 0.015 | 0.026 | 74.3 |
| Lag 1 zika search, TSR + AC: lag (model residuals, 1) | 0.016 | 0.003 | 5.431 | 0 | 0.01 | 0.022 | 52.4 |
| Lag 1 zika search, TSR + AC: lag (Y, 1) | -0.015 | 0.007 | -2.145 | 0.032 | -0.029 | -0.001 | 39.5 |
| Lag 1 zika search, TSR + AC: lag (log (Y + 1), 1)  | -0.004 | 0.003 | -1.21 | 0.226 | -0.01 | 0.002 | 22.1 |
| Lag 2 zika search, TSR lag (Zika, 2) + AC: lag (log (Y + 1), 2) | -0.008 | 0.005 | -1.62 | 0.105 | -0.018 | 0.002 | 47.7 |
| Lag 3 zika search, TSR lag (Zika, 3) + AC: lag (log (Y + 1), 3) | -0.006 | 0.007 | -0.774 | 0.439 | -0.02 | 0.009 | 102.2 |
| Lag 0 zika search, TSR lag (Zika, 0) + AC: lag (log (Y + 1), 1) | 0.005 | 0.003 | 1.809 | 0.07 | 0 | 0.011 | 18.3 |

*Yt: the weekly Zika count on week t, TSR: Time series regression.*