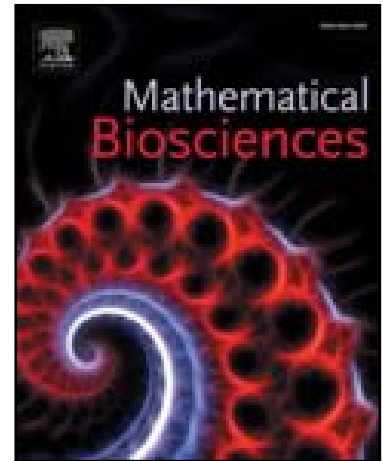


Accepted Manuscript

A Filippov model describing the effects of media coverage and quarantine on the spread of human influenza

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PII: S0025-5564(17)30512-6
DOI: [10.1016/j.mbs.2017.12.002](https://doi.org/10.1016/j.mbs.2017.12.002)
Reference: MBS 8009



To appear in: *Mathematical Biosciences*

Received date: 21 September 2017
Revised date: 2 December 2017
Accepted date: 8 December 2017

Please cite this article as: Can Chen, Nyuk Sian Chong, Robert Smith?, A Filippov model describing the effects of media coverage and quarantine on the spread of human influenza, *Mathematical Biosciences* (2017), doi: [10.1016/j.mbs.2017.12.002](https://doi.org/10.1016/j.mbs.2017.12.002)

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Highlights

- If the infected threshold is sufficiently low, the number of infected individuals will reach a globally asymptotically stable equilibrium and hence an influenza outbreak.
- As the threshold level rises, solutions converge to a pseudoattractor or a pseudoequilibrium on the boundary or a unique globally asymptotically stable equilibrium.
- For appropriate choices of the thresholds, this can be stabilized, eliminating the infection.

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