

Accepted Manuscript

Basic reproduction number for the Brazilian Spotted Fever

Gina Polo, Marcelo B. Labruna, Fernando Ferreira

PII: S0022-5193(18)30440-5
DOI: <https://doi.org/10.1016/j.jtbi.2018.09.011>
Reference: YJTBI 9620

To appear in: *Journal of Theoretical Biology*

Received date: 22 April 2018
Revised date: 5 September 2018
Accepted date: 10 September 2018

Please cite this article as: Gina Polo, Marcelo B. Labruna, Fernando Ferreira, Basic reproduction number for the Brazilian Spotted Fever, *Journal of Theoretical Biology* (2018), doi: <https://doi.org/10.1016/j.jtbi.2018.09.011>



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- R_0 calculation is crucial to design control interventions
- There is a low impact of larvae population in the maintenance of *R. rickettsii*.
- Disease transmission between nymphs/adults and capybara is the major contributor to changes in the R_0
- Brazilian Spotted Fever control strategies should focus on the nymphs and adult seasons.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10223726>

Download Persian Version:

<https://daneshyari.com/article/10223726>

[Daneshyari.com](https://daneshyari.com)