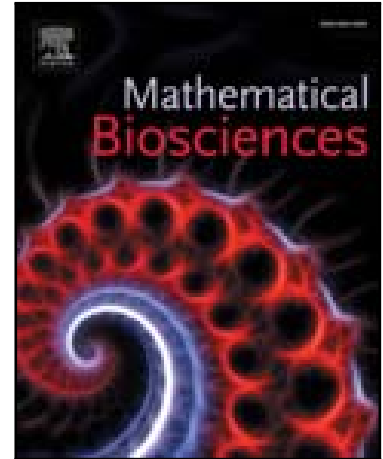


Accepted Manuscript

Sustainable thresholds for cooperative epidemiological models

Edwin Barrios, Pedro Gajardo, Olga Vasilieva

PII: S0025-5564(17)30552-7
DOI: [10.1016/j.mbs.2018.05.011](https://doi.org/10.1016/j.mbs.2018.05.011)
Reference: MBS 8081



To appear in: *Mathematical Biosciences*

Received date: 10 October 2017
Revised date: 16 May 2018
Accepted date: 21 May 2018

Please cite this article as: Edwin Barrios, Pedro Gajardo, Olga Vasilieva, Sustainable thresholds for cooperative epidemiological models, *Mathematical Biosciences* (2018), doi: [10.1016/j.mbs.2018.05.011](https://doi.org/10.1016/j.mbs.2018.05.011)

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

- We focus on the transient states of diseases instead of seeking asymptotic stability and disease-free equilibriums.
- We access the trade-offs between different types of constraints arising in disease control.
- We present and justify a practical method for computing the set of sustainable thresholds.
- The introduced methodology can be used for a large class of epidemiological models.

Download English Version:

<https://daneshyari.com/en/article/8876969>

Download Persian Version:

<https://daneshyari.com/article/8876969>

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