arXiv.org > math > arXiv:1204.0544

Search or Article-id

(Help | Advanced search)

All papers





Mathematics > Optimization and Control

Dengue in Cape Verde: vector control and vaccination

Helena Sofia Rodrigues, M. Teresa T. Monteiro, Delfim F. M. **Torres**

(Submitted on 2 Apr 2012)

In 2009, for the first time in Cape Verde, an outbreak of dengue was reported and over twenty thousand people were infected. Only a few prophylactic measures were taken. The effects of vector control on disease spreading, such as insecticide (larvicide and adulticide) and mechanical control, as well as an hypothetical vaccine, are estimated through simulations with the Cape Verde data.

Comments: This is a preprint of a paper whose final and definite form will

appear in Mathematical Population Studies. Paper

submitted 03-Oct-2011; revised several times; accepted for

publication 2-April-2012

Subjects: Optimization and Control (math.OC); Populations and

Evolution (q-bio.PE)

MSC classes: 34H05, 92D30

Cite as: arXiv:1204.0544 [math.OC]

(or arXiv:1204.0544v1 [math.OC] for this version)

Submission history

From: Delfim F. M. Torres [view email]

[v1] Mon, 2 Apr 2012 21:44:09 GMT (113kb,D)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- Other formats

Current browse context: math.OC

< prev | next > new | recent | 1204

Change to browse by:

math a-bio q-bio.PE

References & Citations

NASA ADS

Bookmark(what is this?)









