Accepted Manuscript

Epidemic characteristics of two classic SIS models with disease-induced death

Fengqin Zhang, Jianquan Li, Jia Li

PII: S0022-5193(17)30199-6
DOI: 10.1016/j.jtbi.2017.04.029
Reference: YJTBI 9054

To appear in: *Journal of Theoretical Biology*

Received date: 15 February 2017
Revised date: 27 April 2017
Accepted date: 28 April 2017

Please cite this article as: Fengqin Zhang, Jianquan Li, Jia Li, Epidemic characteristics of two classic SIS models with disease-induced death, *Journal of Theoretical Biology* (2017), doi: 10.1016/j.jtbi.2017.04.029

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.

ACCEPTED MANUSCRIPT

Highlights

- The turning points of two classic SIS epidemic models are investigated completely.
- The susceptible individuals for SIS models are divided into two subclasses according to the existence of the past infection.
- The dependence of the epidemic characteristics of the two epidemic models on the initial conditions is analyzed.
- The epidemic characteristics of the two models with different incidences are compared.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5760288

Download Persian Version:

https://daneshyari.com/article/5760288

Daneshyari.com