



SDI Review Form 1.6

Journal Name:	Asian Journal of Research in Infectious Diseases
Manuscript Number:	Ms_AJRID_44975
Title of the Manuscript:	Travel-blocking vicinity optimal control approach on patches using SIRS discrete-time epidemic model
Type of the Article	Original research papers

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments		
Minor REVISION comments	In page 2, paragraph 3, please give the definition of the parameter M!	
Optional/General comments	In this paper, the authors follow the so-called travel-blocking vicinity optimal control approach with the introduction of the notion of patch for representing our targeted group of regions when the epidemic modeling framework is in the form of a Susceptible-Infected-Removed-Susceptible (SIRS) discrete-time system. They use the discrete version of the Pontryagin's maximum principle to characterise the travel-blocking optimal control. Using discrete progressive-regressive iterative schemes, they provide cellular simulations of an example of a domain composed with 100 regions and where the targeted chain includes 7 regions. The manuscript is well presented as well as mathematical analysis and results. For these reasons, I agree and give my authorization for the publication of this manuscript.	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

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