



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	MS: 2012 BJMCS 2758
Title of the Manuscript:	STABILITY ANALYSIS AND HOPF BIFURCATION OF A SEIV EPIDEMIC MODEL WITH SATURATED INCIDENCE RATE

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PART 2: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	In this paper, a SEIV epidemic model with saturated incidence rate that incorporates polynomial information on current and past states of the disease is investigated. The model exhibits two equilibria, disease-free equilibrium and the endemic equilibrium. It is shown that if the basic reproduction number, $R_0 < 1$, the disease free equilibrium is locally and globally asymptotically stable and in such a case, the endemic equilibrium is unstable. Moreover, if $R_0 > 1$, the endemic equilibrium is locally asymptotically stable. They discussed Hopf bifurcation of the model. These results are interesting; I will recommend the possible publication.	

Note: Anonymous Reviewer