SDI Review Form 1.6

Journal Name:	**Asian Research Journal of Mathematics**
Manuscript Number:	**Ms_ARJOM_43960**
Title of the Manuscript:	**Simple MSEIR Model for Measles Transmission**
Type of the Article	**Original Research Article**

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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.
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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	We used MSEIR model to study the dynamics of measles transmission. We obtained the basic reproduction number using the next generation matrix method and also discussed the existence and stability of disease-free and endemic equilibria. Sensitivity analysis of the reproduction number was281 performed based on the parameter values in Table 2. The basic reproduction number, of endemic was calculated to be =16.7 which is greater than unity (>1), this shows the situation in which all the classes coexist in the population see Figures(1,2,3,4 and 5) which is verified by our analytic results, the endemic equilibrium is locally asymptotical stable if >1, under certain conditions. Moreover, we considered the sensitivity analysis of based on Table 2, the basic reproduction number =0.4867<1. This implied that only susceptible human () is present and the other classes reduces to zero, this means the model is asymptotically stable at <1and satisfies theorem. This has been verified numerically in Fig.7 which also indicated that the disease-free equilibrium is asymptotically stable and globally stable which is proved using Lyaponuv function. In addition to that, Fig 8(a-d) shows the relationship of the basic reproduction number in terms of ,, when >1. Also Fig 9 (a,b) presents the relationship of ,in terms of and when <1respectively. The results obtained in the paper are publishable, subject to some necessary changes. The techniques used to solve the problem are standard with some novelty, and the results obtained are correct. However, there are some points need to be further clarified before its final acceptance for publication: -English should be further improved, since the paper has some spelling and grammar errors. Also the paper has some editing problems.	English is improved and the errors are corrected.
Optional/General comments		