SDI Review Form 1.6

Journal Name:	**British Journal of Medicine and Medical Research**
Manuscript Number:	**Ms_BJMMR_20378**
Title of the Manuscript:	**Evaluation of Spatial Accessibility to Ohio Trauma Centers Using a GIS-based Gravity Model**
Type of the Article	**Original Research Article**

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.
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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	**None**	
Minor REVISION comments	1. How was Di determined in Equation (4) in line 152? What does Demand stand for? 2. Total discharge counts can be aggregated based on patient's residence zip code and county (line 84). However, trauma injury may occur far from victim's residence. How do authors treat differences between injury location and residential location? 3. Under this condition, authors set kj as 4,2 and 1 respectively for Level I, II and III trauma centers (line 148). This arbitrary assumption may affect Uij (Equation 3), Ai (Equation 5-6), and UiC (Equation 7). How was the impact of the kj assumption on the result?	1. Di is the total population of the census block i. We added a line in line 154 to explain its meaning. 2. This is a great point. Although injury location and residence location can be different, our previous research indicated two third of injuries occur at home. We realize that this is a limitation and we revised the discussion 3. This is another great point. We experimented on different weight models for qualifying service quality. The results were affected slightly but the main conclusions are the same. We found that the variances in demand and discharge data are reasonably large among locations, the current weight model, implemented as a linear function, will not dramatically affect the results. We agree the setting of the service quality variable is subject to the opinion of experts and decision makers. This warrants a future research. Thanks for your great comments.
Optional/General comments	None	