

Review Form 1.6

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_80510
Title of the Manuscript:	Application of Autoregressive Integrated Moving Average Model and Weighted Markov Chain on Forecasting Under-Five Mortality Rates in Nigeria
Type of the Article	Original Research Paper

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:

(<https://www.journalajpas.com/index.php/AJPAS/editorial-policy>)

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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	<p>Author(s) should cite sources from section 2 to section 3. All equations / formulas should be appropriately referenced. 2.2. Delete "and" before Partial Autocorrelation Function.</p> <p>The Introduction and Literature review should provide some narratives on U5MR on a global scale, Africa, West Africa , then Nigeria. Review relevant literature on socioeconomic, demographic, health variables and regions. There should be a sub-section on these variables for better understanding of the topic. Readers would like to know the contributing factors related to the variables mentioned in your introduction.</p> <p>Explain the causes of U5MR. Is it particular to a disease(s) or climatic conditions or what? Which factors are more prevalent in increasing morbidity and mortality rates? State the trend. What do you suggest to reduce U5MR in your conclusion, results and the region of research? . Interpret the Mathematical equations to reflect the interventions for reducing mortality and morbidity rates. How did you use the models developed to stem the tide of U5MR in Nigeria. If the U5MR is reducing, what are the interventions adopted? How do you scale up interventions? If the U5MR is increasing, what are the causes? Where do you apply the two models to solve the challenges of U5MR? Explain and back up with literature sources. Explain why the standard deviation is high: interpret your findings and results relative to U5MR in the 40 years research plan. Explain Fig. 6 and the bifurcation and how it will resolve the U5MR in Nigeria.</p> <p>Correlate the results and discussion relative to the variables under consideration in the study.</p> <p>Re write your conclusion: show to your readers the prediction. Is it increasing or decreasing and by how much in percentages or other metrics. How will the readers, government, health and decision makers apply the models in planning, economics, health and demographic interventions?</p>	
Minor REVISION comments		
Optional/General comments		

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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