

Review Form 3

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_125445
Title of the Manuscript:	ON THE EXTENDED XLINDLEY DISTRIBUTION: ITS PROPERTIES AND APPLICATION TO LIFETIME DATA
Type of the Article	Original Research Article

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (<i>Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here</i>)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript provides useful insights and tackles important research problems with a good approach. It is well-organized and relevant for both researchers and practitioners. Some small changes will make it even better.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article is suitable and appropriately reflects the content of the study.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes, the abstract is comprehensive and effectively summarizes the key aspects of the study.	
Are subsections and structure of the manuscript appropriate?	The subsections and overall structure of the manuscript are almost appropriate, but a few adjustments could improve clarity and flow.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript is scientifically correct, but a few areas need revision.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient and recent. However, a quick review to ensure the inclusion of the latest studies will enhance the manuscript further. If relevant, adding a few more recent references could provide stronger support and context for the research.	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language of the article is generally understandable, though it could benefit from some improvements. Refining sentence structure, grammar, and punctuation will enhance clarity and make it more polished for scholarly communication. Ensuring consistent use of terminology and formatting throughout the manuscript will further strengthen its quality.</p>	
<p>Optional/General comments</p>	<p>Overall, the study is well-done and well-organized. Just a few small changes could make it even better, like improving the plots, keeping the formatting consistent, and adding recent references to the introduction. Including abbreviations, mentioning the software used, and suggesting future research ideas would be helpful. Also, a quick check to update and format the references will give it a nice finishing touch.</p> <ol style="list-style-type: none"> 1. Ensure that parameter notations are consistently aligned with the corresponding function notations across all plots. 2. Include additional intermediate steps in the derivations presented in the moment section for clarity. 3. The notation for moments about the mean is repeated alongside other moment notations(first four moments). Please standardize the notation to avoid redundancy. 4. Revise the table captions for clarity. For example, "Statistical metrics for a fixed value of alpha with various combinations theta and beta" is more precise. 5. The correct notation for the log-likelihood function is unclear throughout the MLE section. Please ensure that the notation is used consistently. 6. Correct the double full stop error in the survival function expressions. 7. Improve the captions for Figures 3 and 4. For instance, the caption for Figure 3 could be revised to: "Survival function plots of the WQXL distribution for various parameter combinations." 8. Include a simulation study to evaluate the behavior of parameters across different sample sizes, which will enhance the robustness of the results. 9. Add and appropriately address the Kolmogorov-Smirnov (KS) statistic along with its p-value as part of the model evaluation metrics. 10. Revise the conclusion section for clarity and review the grammar in "Table 3." 11. Pay close attention to grammar, punctuation, and the proper use of commas and colons throughout the manuscript. 12. Adding a brief section on possible future research directions could provide additional value to the study. 	

PART 2:

	<p>Reviewer's comment</p>	<p>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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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