



SDI EDITORIAL COMMENTS FORM

EDITORIAL COMMENT'S on revised paper (if any)	Authors' response to editor's comments
<p>Add these important reference:</p> <p>Lakens D. Sample size justification. Collabra: Psychology. 2022 Mar 22;8(1):33267.</p> <p>Schielzeth H, Dingemanse NJ, Nakagawa S, Westneat DF, Allogue H, Teplitsky C, Réale D, Dochtermann NA, Garamszegi LZ, Araya-Ajoy YG. Robustness of linear mixed-effects models to violations of distributional assumptions. Methods in ecology and evolution. 2020 Sep;11(9):1141-52.</p> <p>Abstract section: One of the Keywords is "Inequality of Variances" this criterion is not used in the manuscript, so, it should be deleted or calculated.</p> <p>Introduction sections: Paragraph 4: Author write "There are two components in equation 1.1: fixed effects $X\beta$ and random effects $Zu+e$. $X\beta$ is the mean of Y" Comment: $Zu+e$. $X\beta$ should be $Zw+e$. $X\beta$</p> <p>Table 5: "Type I error Rates of different sets of sample sizes under ZU MVN & e exp scenario; unequal" The Distribution Scenarios zu do you mean "ZW". Please check it. This change should be inside the table: Distribution Scenario: ZU should be Distribution Scenario: ZW.</p> <p>No dissection section: In this manuscript, there is no discussion section, Comment: Author should write a discussion section and puts findings in context and discussed it in relation with related research. Also make a comparison between Author's results and Author's initial hypothesis</p> <p>Reference section: Comment: Why your references are old, 20 years ago, only two of them are recent. it is better to be sure that you cover the most current research in your field which makes a lot of sense that your work is up-to-date. otherwise justify why you use an old reference.</p> <p>This study estimates the Type I error rates to check the validity of a MIXED model's statistical inference when violating the normality assumption. SAS program was used to perform simulations and analyses. Each simulation was examined using 5000 samples with a 0.05 significance level of α. The main results in this study show us that the MIXED model is reasonably robust to modest violations of the normal distribution.</p>	<p>The references were added.</p> <p>We did take out Inequality of Variances, but we did put in the Behrens-Fischer problem. We did discuss the Behrens-Fischer problem in the manuscript. We also did simulations with unequal variances. This is discussed just before 2.3.2 Analysis.</p> <p>The Zu was changed to Zw on the second page. This is now highlighted. The ZU was changed in Table 5 in two places to ZW. These are highlighted.</p> <p>The discussion section was actually combined with the conclusion section. This is highlighted. We also added another paragraph in this section which is highlighted.</p> <p>We did add the two newer references mentioned.</p> <p>We are not sure what the reviewer wants us to do here. The study did also consider what happens to the type 1 error when variances were unequal.</p>