

## Review Form 1.6

Journal Name:	<a href="#">Asian Journal of Probability and Statistics</a>
Manuscript Number:	Ms_AJPAS_92665
Title of the Manuscript:	Separate Ratio Estimator Using Calibration Approach for the Population mean in Stratified Random Sampling
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. 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> )

### 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)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>The manuscript requires some good polishing of sentences. Avoid using past tense in Abstract. Rewrite the first two sentence in Section 5.</li> <li>Section 4 and Section 5 require sentences summarizing the results. The estimation of Percentage Relative Efficiency (PRE) should be detailed. Provide the definition of PRE and explain how it has been estimated (using the variance estimate based on the first order approximation or sample variance of estimates from simulation/bootstrapping?) The bias and variance should be separately analysed to give a better understanding of the performance of the proposed method.</li> <li>Would be interesting to see the performance of the estimator when the correction between y and x are small. Also it is recommended to conduct an additional simulation study with non-normal assumptions.</li> <li>It would be interesting to the impact of the choice of Qh values on the estimator.</li> <li>Give some discussions on any issue and problem of the proposed approach and possible future direction.</li> </ol>	
<b>Minor</b> REVISION comments	<ol style="list-style-type: none"> <li>Use "≈" rather than "=" when the formula is an approximation.</li> <li>Given the definition of <math>f_h</math> in Eq. (2).</li> <li>Change "=" to "-" in the last term of Eq. (9) and Eq. (14).</li> <li>Give the expression for <math>\hat{\beta}_h</math> in Eq. (11).</li> <li>Remove bold faced number to normal in the last row of Table 4</li> </ol>	
<b>Optional/General</b> 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?	(If yes, Kindly please write down the ethical issues here in details)	

### Reviewer Details:

Name:	Taehan Bae
Department, University & Country	University of Regina, Canada