

Review Form 1.6

Journal Name:	South Asian Journal of Research in Microbiology
Manuscript Number:	Ms_SAJRM_91806
Title of the Manuscript:	THE PREVALENCE OF EXTENDED SPECTRUM BETA-LACTAMASE PRODUCING UROPATHOGENIC Escherichia coli FROM MOUAU FEMALE HOSTEL STUDENTS
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.journalsajrm.com/index.php/SAJRM/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)
Compulsory REVISION comments	<p>I enjoyed reading the article. It is an important study because it details the need for screening UTIs and for detecting any incidence of ESBL producing E. coli during UTIscreenings. There are still many revisions that need to be made before accepting the manuscript for publication.</p> <ol style="list-style-type: none"> 1. Introduction- The introduction may be too long and may need to be revised into 4 to 5 paragraphs. 2. Methods/Materials- How many replicates of experiments were performed? This is important for ensuring that your study is statistically significant. You could have included more experiments from the same 35 urine samples and these would be your replicates of data. Include a section for statistical analysis in your methods and materials. Your manuscript needs statistics in the form of p-values, results from t-tests, or other tests of variance. 3. Results- The results section needs statistics. You need p-value and descriptive statistics. Descriptive statistics can be performed using software such as Graphpad Prism, Microsoft Excel, or using OriginPro with many other softwares. Descriptive statistics in the form of standard errors, standard deviations, and averages are needed in this section. Your tables particularly data in Table 4 and Table 6 need p-Values where a p-Values of 0.05 is considered statistically significant. The authors need to include 2 to 3 figures in the form of graphs and charts. The data in the tables concerning the percentages of E. coli occurrences could be used in a pie chart and in bar graphs. For Table 4 the data can be used for a scatter plot showing the resistivity pattern against the MARI data, in which each dot on the scatter plot can represent each of the 8 isolates. The data on Table 6 can be used in a bar graph showing the number of isolates producing ESBL against the numberof isolates not producing ESBL on the bar graph. Each Table and each figure should have and show statistics such as p-Values of 0.001 to 0.05 to be statistically significant. Each graph such as a bar graph should also show error bars to denote standard errors in the data. 4. Discussion- this section needs more interpretation of the biochemical tests with support from literature sources. Why did E.coli isolates and cultures show higher levels of indole, catalase, motility, methyl red, glucose, lactose, and sucrose. How do these biochemicals affect the E. coli growths in UTIs? Are there possible ways 	
	<p>to prevent UTIs biochemically? Use literature sources to explain the possible conditions of the urinary tract during UTI infection. How do these biochemicals affect the urinary tract microflora and affect the bacteria in the urinary tract during UTIs? Please include these further explanations of biochemistry in the discussionsection.</p> <ol style="list-style-type: none"> 5. Recommendations- Based on the biochemical tests, are there any recommendeddietary changes that may remedy UTIs? 	
Minor REVISION comments	<ul style="list-style-type: none"> -Proofread/check grammar and spelling -Add Figures in form of pie charts or graphs -include statistics in the manuscript -Place a period after hostel in Discussion section -Spell ESBLs, MOUAU, and CLSI completely out in abstract such as Extended Spectrum Beta-Latamase for ESBLs in abstract section. 	
Optional/General comments	<p>This is an interesting study and needed study. However, I am concerned about the statistical significance of the study. Performing more replicates, including statistics in the results section and in graphs and in tables can solve these issues of significance. Also theauthors should include figures in their results section and an overview of their results in paragraph form in their results section. The authors should also include a paragraph on their statistical analyses performed in their Methods and Materials section.</p>	

[Review Form 1.6](#)

PART 2:

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

Reviewer Details:

Name:	Tatiana Hillman
Department, University & Country	United States of America