



SDI Review Form 1.6

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_46566
Title of the Manuscript:	Analyzing and Forecasting HIV Data Using Hybrid Time Series Models
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

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	There was no literature review. It is not clear why the methods used in the study are preferred. The computer outputs of the methods discussed in the study are given without any regulation. This has prevented the results from taking too much space and the results not being understood by the readers.	I want to thank the reviewer. I have corrected this comments in revised paper. Please see: 5. Literature Review ARIMA, SARIMA or GARCH model in time series method has been applied extensively in many research or journal papers. However, compressively studied for hybrid, such as two or more techniques ARIMA and SARIMA, or ARIMA-GARCH and SARIMA were rarely seen in journal papers or teaching. Hence, the author would like to explore to use them. For example, in figure 2, the author uses GARCH predictions by volatility method to compute and plot 1576 observations to analyze HIV time series data, so that obtain GARCH predictions of the HIV volatility, $\pm 2 \hat{\sigma}_t$, indicated as dashed lines with blue color; in Figure 5 and Figure 6, the author also applies ARIMA (0,0,0) and ARIMA (0,0,2) to forecast the future values after 2015, so we obtain good effects. These have confirmed that we could explore new methods or more means to deal with the complicated time series data.
Minor REVISION comments		
Optional/General comments		



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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?	<u><i>(If yes, Kindly please write down the ethical issues here in details)</i></u>	I do not have bias and competing interest and ethics violations.