

## Review Form 1.7

Journal Name:	Journal of Advances in Medical and Pharmaceutical Sciences
Manuscript Number:	Original Manuscript_JAMPS_117656
Title of the Manuscript:	The Use of Artificial Intelligence in Drug Discovery: How Has this Technology Impacted on the Efficiency and Accuracy of Drug Discovery Process.s
Type of the Article	

### 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  1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)  2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)  3. <b>Is the abstract of the article comprehensive?</b>  4. <b>Are subsections and structure of the manuscript appropriate?</b>  5. <b>Do you think the manuscript is scientifically correct?</b>  6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b>  <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b>	<p>1. This manuscript is crucial for the scientific community as it comprehensively examines how AI enhances efficiency and accuracy in drug discovery, addresses data management challenges, and explores ethical considerations, offering valuable insights for researchers, clinicians, and policymakers in the pharmaceutical industry.</p> <p>2. The title is suitable as it clearly conveys the focus on AI's impact on drug discovery efficiency and accuracy. However, an alternative title that is more concise and still captures the essence could be: "Transforming Drug Discovery: The Impact of Artificial Intelligence on Efficiency and Accuracy".</p> <p>3. Yes, the abstract of the article is comprehensive. It succinctly summarizes the key points, including AI's role in enhancing efficiency and accuracy in drug discovery, managing large datasets, personalizing treatment, and addressing ethical considerations. It also outlines the current landscape and future implications of AI in this field. <b>It could benefit from more specific details about AI techniques used in drug discovery and examples of their applications to enhance clarity.</b></p> <p>4. The structure is good. Consider splitting "Challenges" into "Managing Large Datasets" and "Ensuring Data Quality." Add specific ethical issues subsections: "Privacy," "Bias," and "Transparency."</p> <p>5. Yes, the manuscript appears to be scientifically correct. It accurately discusses the impact of AI on drug discovery, supported by relevant examples and references, and addresses both benefits and challenges comprehensively.</p> <p>6. The references are mostly recent and adequate. Suggest adding recent works by Topol (2019), Zhavoronkov et al. (2020), and Shah et al. (2020) to enhance comprehensiveness.</p>	<p>I have corrected the abstract by adding specific details about AI techniques used in the drug discovery and examples of their applications.</p> <p>Also removed 'challenges' and use managing Large Datasets rather as advised</p> <p>A subsections on "Ethical Consideration of this technology" into Privacy and consent, Biases and Description, Transparency and Accountability were created as advised</p> <p>Recent studies with the mentioned authors has been cited. Cited at the conclusion as future studies and referenced at the referencing page</p>
<b>Minor</b> REVISION comments  1. <b>Is language/English quality of the article suitable for scholarly communications?</b>	<p>1. The language quality of the article is generally suitable for scholarly communication. However, improvements are needed to address grammatical mistakes and enhance clarity. This includes revising sentence structures and refining terminology for better comprehension.</p>	
<b>Optional/General</b> comments	<p>1. The manuscript provides a comprehensive overview of AI's impact on drug discovery, but some sections could be condensed for better readability.</p> <p>2. Adding more specific examples of AI applications in drug discovery could enhance the clarity and understanding of the concepts discussed.</p> <p>3. The ethical considerations section is crucial but could be expanded with real-world case studies or scenarios to illustrate the complexities involved.</p> <p>4. Clarifying the terminology used, particularly in discussing AI techniques and methodologies, would make the manuscript more accessible to readers with varying levels of expertise.</p> <p>5. Strengthening the discussion on data quality management and addressing potential biases in AI algorithms would further enrich the manuscript's depth and relevance.</p>	

### PART 2:

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