

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Medical and Pharmaceutical Sciences</a>
Manuscript Number:	Ms_JAMPS_128791
Title of the Manuscript:	Evaluation of Anticancer, Thrombolytic and Antimicrobial Activities of Heliotropium indicum (Indian turnsole).
Type of the Article	

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### **PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<b>Is the language/English quality of the article suitable for scholarly communications?</b>		
<b>Optional/General</b> comments	<p>An extensive summary of the <i>Heliotropium indicum</i> research is given in this document. The scientific material, which includes sections on methodology, findings, and discussion, is comprehensive and the format is unambiguous. Moreover, the manuscript needs professional editing and revision to ensure clarity and application of effective academic writing. Here are some suggestions to improve it further :</p> <p style="text-align: center;"><b><u>General Suggestions</u></b></p> <ol style="list-style-type: none"><li>1. <b>Abstract Refinement:</b><ul style="list-style-type: none"><li>• Clarify objectives and key findings.</li><li>• Use specific data points for the results (e.g., inhibition percentages for thrombolysis and anticancer activity).</li><li>• Mention if the results are statistically significant or not.</li></ul></li><li>2. <b>Key words and Abbreviations</b><ul style="list-style-type: none"><li>• Authors ought to include significant key words and abbreviations of MEPH, MEHI, and MELA</li></ul></li><li>3. <b>Introduction Expansion:</b><ul style="list-style-type: none"><li>• Give a more thorough justification for choosing <i>Heliotropium indicum</i>.</li><li>• Emphasize the study's uniqueness in greater detail.</li></ul></li><li>4. <b>Methods Section:</b><ul style="list-style-type: none"><li>• Add controls for each assay (e.g., for anticancer activity, details on untreated cells and positive/negative controls).</li><li>• What is the rationale for selecting different doses? Is it based on pilot or previous studies?</li><li>• Can the authors provide evidence about the toxicity studies of this plant extract?</li></ul></li><li>5. <b>Discussion Depth:</b><ul style="list-style-type: none"><li>• Contextualize findings by contrasting them with previous research.</li><li>• Examine possible modes of action for thrombolytic, antibacterial, and anticancer effects.</li><li>• Address limitations (e.g., <i>in vitro</i> studies not always translating directly to clinical outcomes).</li></ul></li><li>6. <b>Data Presentation:</b><ul style="list-style-type: none"><li>• Make sure that the data formatting in tables is statistically significant</li><li>• For visual impact, include graphical depictions of the outcomes.</li></ul></li></ol> <p style="text-align: center;"><b><u>Specific Edits</u></b></p> <ol style="list-style-type: none"><li>1. <b>Abstract:</b><ul style="list-style-type: none"><li>• Revise: "At the dose of 1000µg/mL, the zone of inhibition was 29.45% Significant antibacterial action..." → "At 1000 µg/mL, the anticancer activity showed 29.45% inhibition, while antibacterial action ranged from 6 mm to 18 mm zones of inhibition."</li><li>• Write <i>in vitro</i> in italic format like <i>in vitro</i>.</li></ul></li><li>2. <b>Introduction:</b><ul style="list-style-type: none"><li>• Add: "Despite the known traditional uses of <i>Heliotropium indicum</i>, its therapeutic potential remains underexplored in scientifically validated models, particularly in terms of thrombolytic and anticancer</li></ul></li></ol>	

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	<p>properties."</p> <ul style="list-style-type: none"><li>• Write <i>Heliotropium indicum</i> in italic format like <i>Heliotropium indicum</i>.</li></ul> <p>3. <b>Methodology:</b></p> <ul style="list-style-type: none"><li>• Provide: More details on the ethical approval and informed consent process.</li></ul> <p>4. <b>Results:</b></p> <ul style="list-style-type: none"><li>• Clearly label figures and tables with explanatory captions.</li><li>• All tables should have a brief description (legend). It is advisable that each table should stand alone.</li><li>• Mention the dose of Ciprofloxacin</li></ul> <p>5. <b>Discussion:</b></p> <ul style="list-style-type: none"><li>• Expand on findings: "The anticancer activity observed may be attributed to pyrrolizidine alkaloids, which have shown DNA alkylating properties in prior studies (Lanchhana et al., 2023). Mention the compelling evidence that the methanol extract of <i>Heliotropium indicum</i>'s leaves and bark contains pyrrolizidine alkaloids. However, further mechanistic studies are required to confirm this hypothesis."</li><li>• It is also proposed to include in the discussion section other mechanisms of the available secondary metabolites for thrombolytic and antibacterial activity.</li></ul> <p><b>PLEASE SEE ATTACHMENT</b></p>	
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#### **PART 2:**

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

#### **Reviewer Details:**

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