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| Book Name: | **Non-Cardiac Causes of ECG Abnormalities** |
| Manuscript Number: | **Ms\_BPR\_5881** |
| Title of the Manuscript:  | **Non-Cardiac Causes of ECG Abnormalities** |
| Type of the Article | **Complete Book** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | Various non-cardiac causes such as pharmacological, neurological, pulmonary, metabolic, environmental and toxicological are also responsible for ECG abnormalities in patients. A proper understanding of the pathogenic changes reported in patients which raises the risk of ECG abnormalities is quite important for appropriate management. This manuscript signify the non-cardiac causes of ECG abnormalities which are often undiagnosed.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **ECG abnormalities in patients due to non cardiac causes**  |  |
| 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. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **More references regarding the epidemiology and incidence of non-cardiac ECG abnormalities in patients can be added**  |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | REVIEWER COMMENTSIt was interesting to read the book, “Non-Cardiac Causes of ECG Abnormalities”. A comprehensive and structured demonstration of electrocardiographic (ECG) abnormalities arising in patients due to various non-cardiac causes has been provided in the manuscript. This manuscript is organized into various system-specific chapters- toxicological, pharmacological, environmental, pulmonary, metabolic, pharmacological, neurological and technical points- each suggested by pathophysiological mechanisms, clinical relativity. A clear depth and broad clinical relevance has been demonstrated in this manuscript.MAJOR RECOMMENDATIONS 1. Addition of clinical flowcharts or algorithms guiding ECG interpretation in non-cardiac causes would potentiate the clarity of the manuscript. Considering this, diagnostic flowcharts that help to differentiate between non-cardiac or cardiac causes should be added in the paper.
2. Management strategies of electrolyte imbalances or dyskalemias is well explained in the study, however, practical thresholds for therapeutic interventions or ECG-based triage decisions are not well-demonstrated in the study. Clinical therapeutic options linking ECG patterns to treatment urgency should be added in the manuscript.
3. In pediatric patients present with non-cardiac conditions (e.g congenital disorders, febrile seizures), ECG manifestations are not well demonstrated in the study. A paragraph or short section regarding pediatric patients should be added in the manuscript.
4. The depth of section regarding miscellaneous causes like temperature and diet is is quite less in comparison to other sections. More case-based illustrations (e.g citrus-induced arrhythmias, mad honey poisoning) should be added in this section to expand it in a more better way.
5. Discussion regarding how non-cardiac ECG pathological changes mimic cardiac pathogenesis, leading to potential misdiagnoses (e.g Brugada syndrome vs Brugada-like patterns in hypercalcemia) is missing in the manuscript. A section regarding comparison of ECG characteristics between true cardiac pathology and non-cardiac mimics should be added in the manuscript.
6. Meta-analysis studies summary or quantitative synthesis (e,g ECG variations for specific conditions) is missing in the manuscript. With the objective to potentiate clinical decision-making, summary tables or pooled data should be added in the manuscript.
7. A section regarding incidence of non-cardiac and management strategies to manage non-cardiac causes of ECG abnormalities should be added in the manuscript.
8. Certain legends added in the manuscript could be explained in a more explanatory way and also include wave-specific annotations or ECG lead names in paper.
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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Rohit Mody MD, India**