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| Book Name: | [**Medical Science: Recent Advances and Applications**](https://bookstore.bookpi.org/product/medical-science-recent-advances-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_** **5423** |
| Title of the Manuscript: | **Artificial Intelligence in Radiology and Pathology: Transforming Medical Imaging Interpretation** |
| Type of the Article | **Book Chapter** |

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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.** | **This paper provides an up-to-date and innovative approach to the changing nature of AI in the fields of radiology and pathology, and provides a significant contribution to the scientific community. The paper is extremely clinically relevant in that it shows how AI applications improve the accuracy of diagnoses and allow for the earlier detection of disease, thereby changing current practice and informing future workflows in imaging and diagnostics. The authors show how AI contributes to precision medicine by means of individualized diagnostics and therapy planning and by means of optimizing the image analysis process and decreasing the amount of work done by the physician. Furthermore, the article discusses some of the major challenges associated with AI adoption – data privacy, ethical considerations, validation requirements – and discusses important implications of these issues for the safe and effective application of AI in healthcare.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is suitable because it directly conveys the content of the paper in relation to the use of AI in radiology and pathology and its potential. It is descriptive, brief and fits well with the content and purpose of the article.** |  |
| 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. | **well organized and gives a good idea of the main content of the paper, the role of AI, the benefits and challenges. It may be useful to add a brief description of the images used or the diseases examined to increase the exactness.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **scientifically accurate and well documented with the aid of recent references and facts. The discussion on the application and challenges of AI is fair and reflects the current trends in the field.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **sufficient and current and very relevant with the majority of them being from 2024 and 2025, so the paper is relevant to the current research.**  **including a recent consensus statement or a systematic review on AI in diagnostic imaging would be useful in supporting the discussion.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is appropriate for the level of academic writing and has a good standard of English with few errors. The terms used are specific and relevant for the academic reader. |  |
| Optional/General comments | The manuscript is very useful as it gives a complete and up-to-date description of the AI in radiology and pathology, and is of great interest both for clinical practice and for future research. It would be interesting to expand on future directions and to discuss interdisciplinarity more explicitly. |  |

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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:**

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