

Review Form2

Book Name:	Disease and Health Research: New Insights
Manuscript Number:	Ms_BPR_2486
Title of the Manuscript:	Harnessing the Power of Artificial Intelligence in Neuromuscular Disease Rehabilitation: A Comprehensive Review and Algorithmic Approach
Type of the Article	Book chapter

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	This manuscript holds significant importance for the scientific community by addressing a critical intersection of technology and healthcare: the application of artificial intelligence (AI) in neuromuscular disease rehabilitation. Neuromuscular disorders, which severely impact motor functions and pose substantial challenges to individuals and healthcare systems, require innovative approaches to rehabilitation. This research stands out by providing a thorough review of how AI is transforming rehabilitation practices through various interventions. Key contributions of this manuscript include: Comprehensive Exploration: It offers an in-depth review of AI-driven interventions, such as robotic-assisted therapy, virtual reality rehabilitation, and machine learning algorithms, providing a broad perspective on current advancements. Optimizing Personalized Treatment: The paper emphasizes the transformative potential of AI in crafting personalized treatment plans, highlighting its role in tailoring interventions to individual patient needs and improving rehabilitation outcomes. Innovative Technologies: By discussing cutting-edge technologies like neural-fuzzy adaptive controllers for precise trajectory tracking and machine learning algorithms for adapting training based on motor intentions, the manuscript showcases how AI can address specific challenges in neuromuscular rehabilitation. Future Vision: The manuscript envisions a future where AI-driven approaches significantly enhance the quality of life and functional independence for individuals with neuromuscular disorders, offering a forward-looking perspective on the potential impact of technological innovations. Hereby, I proposed that the article explicitly address the goals of the concepts. Therefore, I was highly impressed with the manuscript they formulated.	
Is the title of the article suitable? (If not please suggest an alternative title)	"Revolutionizing Neuromuscular Rehabilitation: AI-Driven Strategies and Comprehensive Review"	

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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.	The abstract of the document accurately matched the article's title. As per my kindly recommendation, please incorporate the definition of robotic assisted therapy into the study.	
Are subsections and structure of the manuscript appropriate?	The manuscript follows the subsection and overall structure, it is likely to be suitable.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript also correctly identifies the transformative potential of combining AI, ML, and virtual reality in rehabilitation. AI-driven algorithms and real-time adaptability are supported by recent advancements, while virtual reality's capacity for immersive, controlled therapeutic environments is well-documented.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	For the study, appropriate references were gathered. No other references are required.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	A formatted article is more impressive. English correction is not required.	
Optional/General comments	For each equation, include the equation number.	

PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

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