

## **Declaration of Interests**

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

## **Declaration of AI Use**

This manuscript was written in direct collaboration with AI systems including OpenAI's GPT-4, xAI's Grok, and Claude, under the author's full review and editorial authority. All final decisions and interpretations are the responsibility of the author.

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