Review of: "Implementing Machine Learning to predict the 10-year risk of Cardiovascular Disease"

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Potential competing interests: No potential competing interests to declare.

The over-reliance on a single dataset for disease prediction is a common issue in the field of machine learning and medical research. To potentially obtain better results kindly include:

1. Diverse Datasets:

2. Domain Knowledge: Collaborate with experts in the field to gather domain-specific insights. They might be aware of smaller, specialized datasets or sources of data that are not widely used in the research community.

3. Data Collection: Consider conducting your data collection efforts. Design surveys, experiments, or data collection protocols to gather specific data relevant to your research.

4. Evaluation Metrics: Consider using alternative evaluation metrics or validation strategies to assess your model's performance. Different metrics may highlight different aspects of your models' effectiveness.

5. Explainability and Interpretability: While you acknowledge the interpretability challenge of ML models, you could elaborate on potential approaches to address this issue, as interpretability is critical for clinical decision-making.

6. Limitations: While you've discussed some limitations, you can expand on the potential sources of bias in the dataset and how they might affect the model's performance. Additionally, consider addressing the implications of any class imbalances or missing data.

7. Prospective Studies: When discussing prospective studies, it would be beneficial to outline the practical challenges of implementing ML models in real-world clinical settings and how these could be mitigated.