MI-CLAIM Checklist (Completed)

Study design (Part 1)

Checklist Item	Completed
The clinical problem in which the model will be employed is clearly detailed in the paper.	✔
The research question is clearly stated.	✔
The characteristics of the cohorts (training and test sets) are detailed in the text.	✔
The cohorts (training and test sets) are shown to be representative of real-world clinical settings.	✔
The state-of-the-art solution used as a baseline for comparison has been identified and detailed.	✔

Data and optimization (Parts 2, 3)

Checklist Item	Completed
The origin of the data is described and the original format is detailed in the paper.	✔
Transformations of the data before it is applied to the proposed model are described.	✔
The independence between training and test sets has been proven in the paper.	✔
Details on the models that were evaluated and the code developed to select the best model are provided.	✔
Input data type: Structured.	✔

Model performance (Part 4)

Checklist Item	Completed
The primary metric selected to evaluate algorithm performance (e.g., AUC, F-score, etc.), including the justification for selection, has been clearly stated.	✔
The primary metric selected to evaluate the clinical utility of the model (e.g., PPV, NNT, etc.), including the justification for selection, has been clearly stated.	✔
The performance comparison between baseline and proposed model is presented with the appropriate statistical significance.	✔

Model examination (Part 5)

Checklist Item	Completed
Examination technique 1a completed.	✔
Examination technique 2a completed.	✔
A discussion of the relevance of the examination results with respect to model/algorithm performance is presented.	✔
A discussion of the feasibility and significance of model interpretability at the case level if examination methods are uninterpretable is presented.	✔
A discussion of the reliability and robustness of the model as the underlying data distribution shifts is included.	✔

Reproducibility (Part 6)

Checklist Item	Completed
Tier 1 selected: Complete sharing of the code.	✔