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Table 1 The MI-CLAIM checklist

From: Minimum information about clinical artificial intelligence modeling: the MI-CLAIM checklist

Before paper submission			
Study design (Part 1)	**Completed: page number**		**Notes if not completed**
The clinical problem in which the model will be employed is clearly detailed in the paper.	☑	1	
The research question is clearly stated.	☑	1	
The characteristics of the cohorts (training and test sets) are detailed in the text.	☑	1	
The cohorts (training and test sets) are shown to be representative of real-world clinical settings.	☑	1	
The state-of-the-art solution used as a baseline for comparison has been identified and detailed.	☑	1	
Data and optimization (Parts 2, 3)	**Completed: page number**		**Notes if not completed**

Before paper submission			
Study design (Part 1)	**Completed:**	**page number**	**Notes if not 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.	☑ ✓	1	
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.	☑ ✓	2,3	
Is the input data type structured or unstructured?	☑ ✓ Structured ☐ Unstructured		
Model performance (Part 4)	**Completed:**	**page number**	**Notes if not 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.	☐		✓

Before paper submission			
Study design (Part 1)	**Completed: page number**		**Notes if not completed**
The performance comparison between baseline and proposed model is presented with the appropriate statistical significance.	☐		✓
Model examination (Part 5)	**Completed: page number**		**Notes if not completed**
Examination technique 1[a]	☑	2, 3	
Examination technique 2[a]	☑	2, 3	
A discussion of the relevance of the examination results with respect to model/algorithm performance is presented.	☑	3, 4	
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): choose appropriate tier of transparency			**Notes**
Tier 1: complete sharing of the code		☑	

Before paper submission		
Study design (Part 1)	**Completed: page number**	**Notes if not completed**
Tier 2: allow a third party to evaluate the code for accuracy/fairness; share the results of this evaluation	☐	
Tier 3: release of a virtual machine (binary) for running the code on new data without sharing its details	☐	
Tier 4: no sharing	☐	

PPV, positive predictive value; NNT, numbers needed to treat.

[a]Common examination approaches based on study type: for studies involving exclusively structured data, coefficients and sensitivity analysis are often appropriate; for studies involving unstructured data in the domains of image analysis or natural language processing, saliency maps (or equivalents) and sensitivity analyses are often appropriate.

Back to article page ›

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