

Table 1. PyRadiomics Configuration for Radiomic Extraction

Configuration Category	Specific Parameter / Dependency	Operational Value / Setting
Software Versions	PyRadiomics Version	3.1.0a2.post10+g146e3bd
	Python Core Interpreter	3.12.10
	NumPy Library Dependency	2.0.2
	SimpleITK Backend	2.4.0rc2.dev213
	PyWavelets Extension	1.8.0
Discretization	Gray-Level Bin Width (binWidth)	25.0
Preprocessing & Spacing	Relative Intensity Normalization	False
	Outlier Removal Threshold	None
	Pixel Resampling (resampledPixelSpacing)	None
	Interpolator Type	sitkBSpline
Mask & Masking Details	Target Segment Label ID	1
	Boundary Padding Distance (padDistance)	5
	Mask Correction Protocol (correctMask)	True
Texture & Dimension Settings	Matrix Voxel Connectivity Distance	[1]
	Symmetrical GLCM Matrix Generation	True
	Spatial Dimensionality Setting	Full 3D Volume (force2D = False)
Enabled Image Inputs	Feature Extraction Array Filters	Original Only

Table 2. Distribution of Architectural Phenotype Groups

Architectural Phenotype	Radiographic Characteristics	Number of Cases (n)
Homogeneous phenotype	fluid-dominant Uniform internal radiolucency with minimal complexity	34
Intermediate phenotype	septated Partial septation with moderate internal heterogeneity	31
Complex phenotype	heterogeneous Multilocularity, trabecular disorganization, mixed internal density	35

Table 3. Distribution of Histopathological Lesions Within Architectural Phenotype Groups

Architectural Phenotype Group	Histopathological Lesion	Number of Cases (n)
Homogeneous fluid-dominant phenotype	Radicular cyst	11
	Dentigerous cyst	9
	Residual cyst	5
	Simple bone cyst	4
	Nasopalatine duct cyst	5
	Total	34
Intermediate septated phenotype	Odontogenic keratocyst (OKC)	12
	Unicystic ameloblastoma	8
	Calcifying odontogenic cyst	4
	Early odontogenic myxoma	7
	Total	31
Complex heterogeneous phenotype	Multicystic ameloblastoma	10
	Odontogenic myxoma	6
	Central giant cell granuloma	5
	Cemento-ossifying fibroma	4
	Fibrous dysplasia	4
	Ameloblastic fibroma	2
	Ameloblastic fibroodontosarcoma	2
	Primary intraosseous carcinoma	2
	Total	35

Table 4. Interobserver and Intraobserver Intraclass Correlation Coefficient (ICC) Analysis of Extracted Radiomic Features

S.No	Feature	Class	Inter-Observer ICC	Intra-Observer ICC
1	original_shape_Elongation	Shape	0.88	0.91
2	original_shape_Flatness	Shape	0.87	0.90

3	original_shape_LeastAxisLength	Shape	0.90	0.93
4	original_shape_MajorAxisLength	Shape	0.91	0.94
5	original_shape_Maximum2DDiameterColumn	Shape	0.86	0.89
6	original_shape_Maximum2DDiameterRow	Shape	0.87	0.90
7	original_shape_Maximum2DDiameterSlice	Shape	0.72	0.74
8	original_shape_Maximum3DDiameter	Shape	0.90	0.93
9	original_shape_MeshVolume	Shape	0.93	0.96
10	original_shape_MinorAxisLength	Shape	0.89	0.92
11	original_shape_Sphericity	Shape	0.86	0.89
12	original_shape_SurfaceArea	Shape	0.92	0.95
13	original_shape_SurfaceVolumeRatio	Shape	0.87	0.90
14	original_shape_VoxelVolume	Shape	0.94	0.97
15	original_firstorder_10Percentile	First Order	0.84	0.87
16	original_firstorder_90Percentile	First Order	0.85	0.88
17	original_firstorder_Energy	First Order	0.89	0.92
18	original_firstorder_Entropy	First Order	0.86	0.89
19	original_firstorder_InterquartileRange	First Order	0.85	0.88
20	original_firstorder_Kurtosis	First Order	0.72	0.74
21	original_firstorder_Maximum	First Order	0.88	0.91
22	original_firstorder_MeanAbsoluteDeviation	First Order	0.83	0.86
23	original_firstorder_Mean	First Order	0.87	0.90
24	original_firstorder_Median	First Order	0.86	0.89
25	original_firstorder_Minimum	First Order	0.88	0.91
26	original_firstorder_Range	First Order	0.84	0.87
27	original_firstorder_RobustMeanAbsoluteDeviation	First Order	0.83	0.86
28	original_firstorder_RootMeanSquared	First Order	0.89	0.92
29	original_firstorder_Skewness	First Order	0.69	0.72
30	original_firstorder_TotalEnergy	First Order	0.90	0.93
31	original_firstorder_Uniformity	First Order	0.86	0.89
32	original_firstorder_Variance	First Order	0.88	0.91

33	original_glcm_Autocorrelation	GLCM	0.86	0.89
34	original_glcm_ClusterProminence	GLCM	0.73	0.74
35	original_glcm_ClusterShade	GLCM	0.68	0.71
36	original_glcm_ClusterTendency	GLCM	0.85	0.88
37	original_glcm_Contrast	GLCM	0.87	0.90
38	original_glcm_Correlation	GLCM	0.88	0.91
39	original_glcm_DifferenceAverage	GLCM	0.84	0.87
40	original_glcm_DifferenceEntropy	GLCM	0.70	0.72
41	original_glcm_DifferenceVariance	GLCM	0.85	0.88
42	original_glcm_Id	GLCM	0.89	0.92
43	original_glcm_Idm	GLCM	0.90	0.93
44	original_glcm_Idmn	GLCM	0.88	0.91
45	original_glcm_Idn	GLCM	0.87	0.90
46	original_glcm_Imc1	GLCM	0.70	0.73
47	original_glcm_Imc2	GLCM	0.71	0.73
48	original_glcm_InverseVariance	GLCM	0.86	0.89
49	original_glcm_JointAverage	GLCM	0.88	0.91
50	original_glcm_JointEnergy	GLCM	0.89	0.92
51	original_glcm_JointEntropy	GLCM	0.87	0.90
52	original_glcm_MCC	GLCM	0.71	0.74
53	original_glcm_MaximumProbability	GLCM	0.90	0.93
54	original_glcm_SumAverage	GLCM	0.88	0.91
55	original_glcm_SumEntropy	GLCM	0.86	0.89
56	original_glcm_SumSquares	GLCM	0.89	0.92
57	original_gldm_DependenceEntropy	GLDM	0.85	0.88
58	original_gldm_DependenceNonUniformity	GLDM	0.84	0.87
59	original_gldm_DependenceNonUniformityNormalized	GLDM	0.83	0.86
60	original_gldm_DependenceVariance	GLDM	0.86	0.89
61	original_gldm_GrayLevelNonUniformity	GLDM	0.87	0.90
62	original_gldm_GrayLevelVariance	GLDM	0.85	0.88

63	original_gldm_HighGrayLevelEmphasis	GLDM	0.88	0.91
64	original_gldm_LargeDependenceEmphasis	GLDM	0.89	0.92
65	original_gldm_LargeDependenceHighGrayLevel Emphasis	GLDM	0.90	0.93
66	original_gldm_LargeDependenceLowGrayLevel Emphasis	GLDM	0.87	0.90
67	original_gldm_LowGrayLevelEmphasis	GLDM	0.86	0.89
68	original_gldm_SmallDependenceEmphasis	GLDM	0.84	0.87
69	original_gldm_SmallDependenceHighGrayLevel Emphasis	GLDM	0.83	0.86
70	original_gldm_SmallDependenceLowGrayLevel Emphasis	GLDM	0.71	0.74
71	original_glrlm_GrayLevelNonUniformity	GLRLM	0.87	0.90
72	original_glrlm_GrayLevelNonUniformityNorma lized	GLRLM	0.86	0.89
73	original_glrlm_GrayLevelVariance	GLRLM	0.85	0.88
74	original_glrlm_HighGrayLevelRunEmphasis	GLRLM	0.88	0.91
75	original_glrlm_LongRunEmphasis	GLRLM	0.90	0.93
76	original_glrlm_LongRunHighGrayLevelEmphas is	GLRLM	0.89	0.92
77	original_glrlm_LongRunLowGrayLevelEmphasi s	GLRLM	0.87	0.90
78	original_glrlm_LowGrayLevelRunEmphasis	GLRLM	0.86	0.89
79	original_glrlm_RunEntropy	GLRLM	0.84	0.87
80	original_glrlm_RunLengthNonUniformity	GLRLM	0.85	0.88
81	original_glrlm_RunLengthNonUniformityNorm alized	GLRLM	0.84	0.87
82	original_glrlm_RunPercentage	GLRLM	0.72	0.73
83	original_glrlm_RunVariance	GLRLM	0.86	0.89
84	original_glrlm_ShortRunEmphasis	GLRLM	0.88	0.91

85	original_glrlm_ShortRunHighGrayLevelEmphas is	GLRLM	0.87	0.90
86	original_glrlm_ShortRunLowGrayLevelEmphasi s	GLRLM	0.86	0.89
87	original_glszm_GrayLevelNonUniformity	GLSZM	0.87	0.90
88	original_glszm_GrayLevelNonUniformityNorm alized	GLSZM	0.86	0.89
89	original_glszm_GrayLevelVariance	GLSZM	0.85	0.88
90	original_glszm_HighGrayLevelZoneEmphasis	GLSZM	0.88	0.91
91	original_glszm_LargeAreaEmphasis	GLSZM	0.90	0.93
92	original_glszm_LargeAreaHighGrayLevelEmph asis	GLSZM	0.89	0.92
93	original_glszm_LargeAreaLowGrayLevelEmpha sis	GLSZM	0.87	0.90
94	original_glszm_LowGrayLevelZoneEmphasis	GLSZM	0.86	0.89
95	original_glszm_SizeZoneNonUniformity	GLSZM	0.84	0.87
96	original_glszm_SizeZoneNonUniformityNormal ized	GLSZM	0.83	0.86
97	original_glszm_SmallAreaEmphasis	GLSZM	0.88	0.91
98	original_glszm_SmallAreaHighGrayLevelEmph asis	GLSZM	0.87	0.90
99	original_glszm_SmallAreaLowGrayLevelEmpha sis	GLSZM	0.86	0.89
100	original_glszm_ZoneEntropy	GLSZM	0.85	0.88
101	original_glszm_ZonePercentage	GLSZM	0.73	0.74
102	original_glszm_ZoneVariance	GLSZM	0.86	0.89
103	original_ngtdm_Busyness	NGTDM	0.67	0.70
104	original_ngtdm_Coarseness	NGTDM	0.87	0.90
105	original_ngtdm_Complexity	NGTDM	0.83	0.86
106	original_ngtdm_Contrast	NGTDM	0.85	0.88
107	original_ngtdm_Strength	NGTDM	0.88	0.91

Table 5. Statistically Significant Radiomic Features Following Kruskal-Wallis Analysis and False Discovery Rate (FDR) Correction

S.No	Feature Name	Domain	p-value	q-value (FDR)
1	Difference Variance	GLCM	0.006193	0.026507
2	Sum Squares	GLCM	0.004718	0.026507
3	Root Mean Squared	First-order	0.006193	0.026507
4	Run Entropy	GLRLM	0.006193	0.026507
5	Dependence Entropy	GLDM	0.006193	0.026507
6	Total Energy	First-order	0.000574	0.026507
7	Dependence Non-Uniformity	GLDM	0.001998	0.026507
8	Energy	First-order	0.000792	0.026507
9	Run Length Non-Uniformity	GLRLM	0.003569	0.026507
10	Gray Level Non-Uniformity	GLSZM	0.004718	0.026507
11	Voxel Volume	Shape	0.003569	0.026507
12	Size Zone Non-Uniformity	GLSZM	0.001998	0.026507
13	Surface Volume Ratio	Shape	0.003569	0.026507
14	Coarseness	NGTDM	0.003569	0.026507
15	Minor Axis Length	Shape	0.003569	0.026507
16	Mesh Volume	Shape	0.003569	0.026507
17	Maximum 3D Diameter	Shape	0.003569	0.026507
18	Maximum 2D Diameter Row	Shape	0.004718	0.026507
19	Maximum 2D Diameter Column	Shape	0.003551	0.026507
20	Cluster Tendency	GLCM	0.004718	0.026507
21	Least Axis Length	Shape	0.002680	0.026507
22	Contrast	GLCM	0.004718	0.026507
23	Surface Area	Shape	0.006193	0.026507

S.No	Feature Name	Domain	p-value	q-value (FDR)
24	Gray Level Variance	GLRLM	0.006193	0.026507
25	Variance	First-order	0.008071	0.031987
26	Gray Level Variance	GLDM	0.008071	0.031987
27	Mean Absolute Deviation	First-order	0.010444	0.036050
28	Zone Entropy	GLSZM	0.010444	0.036050
29	Cluster Prominence	GLCM	0.010444	0.036050
30	Major Axis Length	Shape	0.010444	0.036050
31	Gray Level Non-Uniformity	GLRLM	0.013419	0.039883
32	Large Area High Gray Level Emphasis	GLSZM	0.013419	0.039883
33	Gray Level Non-Uniformity	GLDM	0.013419	0.039883
34	Complexity	NGTDM	0.013419	0.039883
35	Gray Level Non-Uniformity Normalized	GLSZM	0.013419	0.039883
36	Gray Level Variance	GLSZM	0.017118	0.045791
37	Difference Average	GLCM	0.017118	0.045791
38	High Gray Level Run Emphasis	GLRLM	0.017118	0.045791

Table 6. Hyperparameter Optimization Search Space and Finalized Model Settings

Model Architecture	Hyperparameter Parameter	Evaluated Search Space / Range	Final Setting	Optimized
Logistic Regression (LR)	Regularization Penalty	['l1', 'l2', 'elasticnet']	'l2'	
	Inverse Strength (C)	[0.001, 0.01, 0.1, 1, 10, 100]	1.0	
	Multi-class Protocol	['ovr', 'multinomial']	'multinomial'	
	Optimization Solver	['liblinear', 'lbfgs', 'saga']	'lbfgs'	
Support Vector Machine (SVM)	Kernel Function Type	['linear', 'poly', 'rbf', 'sigmoid']	'rbf'	
	Cost Parameter (C)	[0.1, 1, 10, 100]	10	
	Gamma Parameter (γ)	['scale', 'auto', 0.01, 0.1]	'scale'	
	Decision Function	['ovo', 'ovr']	'ovr'	
Random Forest (RF)	Number of Estimators	[50, 100, 200, 300, 500]	200	

Model Architecture	Hyperparameter Parameter	Evaluated Search Space / Range	Final Setting	Optimized
	Maximum Tree Depth	[None, 5, 10, 15, 20]	10	
	Split Criterion Metric	['gini', 'log_loss']	'entropy', 'entropy'	
	Minimum Samples per Split	[2, 5, 10]	2	

Section/Topic	Item	Development / evaluation ¹	Checklist item	Status
TITLE				
<i>Title</i>	1	D;E	Identify the study as developing or evaluating the performance of a multivariable prediction model, the target population, and the outcome to be predicted	Yes
ABSTRACT				
<i>Abstract</i>	2	D;E	See TRIPOD+AI for Abstracts checklist	Yes
INTRODUCTION				
<i>Background</i>	3a	D;E	Explain the healthcare context (including whether diagnostic or prognostic) and rationale for developing or evaluating the prediction model, including references to existing models	Yes
	3b	D;E	Describe the target population and the intended purpose of the prediction model in the context of the care pathway, including its intended users (e.g., healthcare professionals, patients, public)	Yes
	3c	D;E	Describe any known health inequalities between sociodemographic groups	NA
<i>Objectives</i>	4	D;E	Specify the study objectives, including whether the study describes the development or validation of a prediction model (or both)	Yes
METHODS				
<i>Data</i>	5a	D;E	Describe the sources of data separately for the development and evaluation datasets (e.g., randomised trial, cohort, routine care or registry data), the rationale for using these data, and representativeness of the data	Yes
	5b	D;E	Specify the dates of the collected participant data, including start and end of participant accrual; and, if applicable, end of follow-up	Yes
<i>Participants</i>	6a	D;E	Specify key elements of the study setting (e.g., primary care, secondary care, general population) including the number and location of centres	Yes
	6b	D;E	Describe the eligibility criteria for study participants	Yes
	6c	D;E	Give details of any treatments received, and how they were handled during model development or evaluation, if relevant	Yes
<i>Data preparation</i>	7	D;E	Describe any data pre-processing and quality checking, including whether this was similar across relevant sociodemographic groups	Yes
<i>Outcome</i>	8a	D;E	Clearly define the outcome that is being predicted and the time horizon, including how and when assessed, the rationale for choosing this outcome, and whether the method of outcome assessment is consistent across sociodemographic groups	Yes
	8b	D;E	If outcome assessment requires subjective interpretation, describe the qualifications and demographic characteristics of the outcome assessors	Yes
	8c	D;E	Report any actions to blind assessment of the outcome to be predicted	Yes
<i>Predictors</i>	9a	D	Describe the choice of initial predictors (e.g., literature, previous models, all available predictors) and any pre-selection of predictors before model building	Yes
	9b	D;E	Clearly define all predictors, including how and when they were measured (and any actions to blind assessment of predictors for the outcome and other predictors)	Yes
	9c	D;E	If predictor measurement requires subjective interpretation, describe the qualifications and demographic characteristics of the predictor assessors	Yes
<i>Sample size</i>	10	D;E	Explain how the study size was arrived at (separately for development and evaluation), and justify that the study size was sufficient to answer the research question. Include details of any sample size calculation	Yes
<i>Missing data</i>	11	D;E	Describe how missing data were handled. Provide reasons for omitting any data	Yes
<i>Analytical methods</i>	12a	D	Describe how the data were used (e.g., for development and evaluation of model performance) in the analysis, including whether the data were partitioned, considering any sample size requirements	Yes
	12b	D	Depending on the type of model, describe how predictors were handled in the analyses (functional form, rescaling, transformation, or any standardisation).	Yes
	12c	D	Specify the type of model, rationale ² , all model-building steps, including any hyperparameter tuning, and method for internal validation	Yes
	12d	D;E	Describe if and how any heterogeneity in estimates of model parameter values and model performance was handled and quantified across clusters (e.g., hospitals, countries). See TRIPOD-Cluster for additional considerations ³	Yes
	12e	D;E	Specify all measures and plots used (and their rationale) to evaluate model performance (e.g., discrimination, calibration, clinical utility) and, if relevant, to compare multiple models	Yes
	12f	E	Describe any model updating (e.g., recalibration) arising from the model evaluation, either overall or for particular sociodemographic groups or settings	NA
	12g	E	For model evaluation, describe how the model predictions were calculated (e.g., formula, code, object, application programming interface)	Yes
<i>Class imbalance</i>	13	D;E	If class imbalance methods were used, state why and how this was done, and any subsequent methods to recalibrate the model or the model predictions	Yes
<i>Fairness</i>	14	D;E	Describe any approaches that were used to address model fairness and their rationale	Yes
<i>Model output</i>	15	D	Specify the output of the prediction model (e.g., probabilities, classification). Provide details and rationale for any classification and how the thresholds were identified	Yes

¹ D=items relevant only to the development of a prediction model; E=items relating solely to the evaluation of a prediction model; D;E=items applicable to both the development and evaluation of a prediction model

² Separately for all model building approaches.

³ TRIPOD-Cluster is a checklist of reporting recommendations for studies developing or validating models that explicitly account for clustering or explore heterogeneity in model performance (eg, at different hospitals or centres). Debray et al, BMJ 2023; 380: e071018 [DOI: 10.1136/bmj-2022-071018]

<i>Training versus evaluation</i>	16	D;E	Identify any differences between the development and evaluation data in healthcare setting, eligibility criteria, outcome, and predictors	Yes
<i>Ethical approval</i>	17	D;E	Name the institutional research board or ethics committee that approved the study and describe the participant-informed consent or the ethics committee waiver of informed consent	Yes
OPEN SCIENCE				
<i>Funding</i>	18a	D;E	Give the source of funding and the role of the funders for the present study	Yes
<i>Conflicts of interest</i>	18b	D;E	Declare any conflicts of interest and financial disclosures for all authors	Yes
<i>Protocol</i>	18c	D;E	Indicate where the study protocol can be accessed or state that a protocol was not prepared	Yes
<i>Registration</i>	18d	D;E	Provide registration information for the study, including register name and registration number, or state that the study was not registered	Yes
<i>Data sharing</i>	18e	D;E	Provide details of the availability of the study data	Yes
<i>Code sharing</i>	18f	D;E	Provide details of the availability of the analytical code ⁴	Yes
PATIENT & PUBLIC INVOLVEMENT				
<i>Patient & Public Involvement</i>	19	D;E	Provide details of any patient and public involvement during the design, conduct, reporting, interpretation, or dissemination of the study or state no involvement.	Yes
RESULTS				
<i>Participants</i>	20a	D;E	Describe the flow of participants through the study, including the number of participants with and without the outcome and, if applicable, a summary of the follow-up time. A diagram may be helpful.	Yes
	20b	D;E	Report the characteristics overall and, where applicable, for each data source or setting, including the key dates, key predictors (including demographics), treatments received, sample size, number of outcome events, follow-up time, and amount of missing data. A table may be helpful. Report any differences across key demographic groups.	Yes
	20c	E	For model evaluation, show a comparison with the development data of the distribution of important predictors (demographics, predictors, and outcome).	Yes
<i>Model development</i>	21	D;E	Specify the number of participants and outcome events in each analysis (e.g., for model development, hyperparameter tuning, model evaluation)	Yes
<i>Model specification</i>	22	D	Provide details of the full prediction model (e.g., formula, code, object, application programming interface) to allow predictions in new individuals and to enable third-party evaluation and implementation, including any restrictions to access or re-use (e.g., freely available, proprietary) ⁵	Yes
<i>Model performance</i>	23a	D;E	Report model performance estimates with confidence intervals, including for any key subgroups (e.g., sociodemographic). Consider plots to aid presentation.	Yes
	23b	D;E	If examined, report results of any heterogeneity in model performance across clusters. See TRIPOD Cluster for additional details ³ .	Yes
<i>Model updating</i>	24	E	Report the results from any model updating, including the updated model and subsequent performance	NA
DISCUSSION				
<i>Interpretation</i>	25	D;E	Give an overall interpretation of the main results, including issues of fairness in the context of the objectives and previous studies	Yes
<i>Limitations</i>	26	D;E	Discuss any limitations of the study (such as a non-representative sample, sample size, overfitting, missing data) and their effects on any biases, statistical uncertainty, and generalizability	Yes
<i>Usability of the model in the context of current care</i>	27a	D	Describe how poor quality or unavailable input data (e.g., predictor values) should be assessed and handled when implementing the prediction model	Yes
	27b	D	Specify whether users will be required to interact in the handling of the input data or use of the model, and what level of expertise is required of users	Yes
	27c	D;E	Discuss any next steps for future research, with a specific view to applicability and generalizability of the model	Yes

From: Collins GS, Moons KGM, Dhiman P, et al. *BMJ* 2024;385:e078378. doi:10.1136/bmj-2023-078378

⁴ This relates to the analysis code, for example, any data cleaning, feature engineering, model building, evaluation.

⁵ This relates to the code to implement the model to get estimates of risk for a new individual.

Checklist for Artificial Intelligence in Medical Imaging (CLAIM): 2024 Update

Section/Topic	No.	Item Requirement	Compliance Status
TITLE/ABSTRACT	1	AI methodology identification & technology type	Yes
ABSTRACT	2	Summary of design, methods, results, conclusions	Yes
INTRODUCTION	3	Background, intended use, and role of AI	Yes
	4	Study aims, objectives, and hypotheses	Yes
METHODS			
<i>Study Design</i>	5	Prospective or retrospective study	Yes
	6	Study goal	Yes
<i>Data</i>	7	Data sources	Yes
	8	Inclusion and exclusion criteria	Yes
	9	Data preprocessing	Yes
	10	Selection of data subsets	Yes
	11	De-identification methods	Yes
	12	How missing data were handled	Yes
	13	Image acquisition protocol	Yes
<i>Reference Standard</i>	14	Definition of reference standard method	Yes
	15	Rationale for reference standard	Yes
	16	Source of reference standard annotations	Yes
	17	Annotation of test set	Yes
	18	Inter- and intrarater variability	Yes
<i>Data Partitions</i>	19	How data were assigned to partitions	Yes
	20	Level at which partitions are disjoint	Yes
<i>Testing Data</i>	21	Intended sample size	Yes
<i>Model</i>	22	Detailed description of model	Yes
	23	Software libraries, frameworks, packages	Yes
<i>Training</i>	24	Initialization of model parameters	Yes
	25	Details of training approach	Yes
	26	Method of selecting final model	Yes
	27	Ensembling techniques	NA
<i>Evaluation</i>	28	Metrics of model performance	Yes
	29	Statistical significance and uncertainty	Yes
	30	Robustness or sensitivity analysis	Yes
	31	Methods for explainability/interpretability	Yes
	32	Evaluation on internal data	Yes
	33	Testing on external data	Yes
	34	Clinical trial registration	NA
RESULTS			
<i>Data</i>	35	Numbers of patients included/excluded	Yes
	36	Demographic/clinical features per partition	Yes
<i>Model Performance</i>	37	Performance metrics and uncertainty	Yes
	38	Estimates of diagnostic performance precision	Yes
	39	Failure analysis of incorrect classifications	Yes
DISCUSSION	40	Study limitations	Yes
	41	Implications for practice / clinical role	Yes
OTHER INFO	42	Reference to full protocol / technical details	Yes
	43	Software, model, and data availability statement	Yes
	44	Sources of funding and role of funders	Yes