## TRIPOD Checklist: Prediction Model Development



Section/Topic	Item	Checklist Item	Page	
Title and abstract				
Title	1	Identify the study as developing and/or validating a multivariable prediction model, the target population, and the outcome to be predicted.	1	
Abstract	2	Provide a summary of objectives, study design, setting, participants, sample size, predictors, outcome, statistical analysis, results, and conclusions.	2	
Introduction				
Background and objectives	3a	Explain the medical context (including whether diagnostic or prognostic) and rationale for developing or validating the multivariable prediction model, including references to existing models.	Introd	para.1-2
	3b	Specify the objectives, including whether the study describes the development or validation of the model or both.	Introd	, para.3
Methods		- Allerton of the motion of both		
Source of data	4a	Describe the study design or source of data (e.g., randomized trial, cohort, or registry data), separately for the development and validation data sets, if applicable.	Methods	para 1-1
	4b	Specify the key study dates, including start of accrual; end of accrual; and, if applicable, end of follow-up.	Method	s, para 1
Participants	5a	Specify key elements of the study setting (e.g., primary care, secondary care, general population) including number and location of centres.	Methods	para 1,9
	5b	Describe eligibility criteria for participants.	Methods,	
	5c	Give details of treatments received, if relevant.	Methods	para 3-5
Outcome	6a	Clearly define the outcome that is predicted by the prediction model, including how and when assessed.	Methods,	para 1,8
	6b	Report any actions to blind assessment of the outcome to be predicted.	n.r.	
Predictors	7a	Clearly define all predictors used in developing or validating the multivariable	N 4 - 411 -	
	7b	Prediction model, including how and when they were measured.  Report any actions to blind assessment of predictors for the outcome and other	n.r.	, para 1,8
		predictors.		_
Sample size	8	Explain how the study size was arrived at.	Methods	, para 3
Missing data	9	Describe how missing data were handled (e.g., complete-case analysis, single imputation, multiple imputation) with details of any imputation method.		ls, para 3
Statistical analysis methods	10a	Describe how predictors were handled in the analyses.	Methods	, para 1,8
	10b	Specify type of model, all model-building procedures (including any predictor selection), and method for internal validation.	Methods,	-
	10d	compare multiple models.	thods, par	7, 8, 10
Risk groups	11	Provide details on how risk groups were created, if done.	Methods	para 5
Results	•		ı	
Participants	13a	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.	Method results	
	13b	Describe the characteristics of the participants (basic demographics, clinical features, available predictors), including the number of participants with missing data for predictors and outcome.	Method results	
Model development	14a	Specify the number of participants and outcome events in each analysis.	thods and	results
	14b	outcome.	ra 1-3	
Model specification	15a	Present the full prediction model to allow predictions for individuals (i.e., all regression coefficients, and model intercept or baseline survival at a given time point).	Results	ara 1-3
	15b	Explain how to the use the prediction model.	Results	para 3-4
Model performance	16	Report performance measures (with CIs) for the prediction model.	Results p	Ī
Discussion				
Limitations	18	Discuss any limitations of the study (such as nonrepresentative sample, few events per predictor, missing data).	Discussio	n para 4-
Interpretation	19b	Give an overall interpretation of the results, considering objectives, limitations, and results from similar studies, and other relevant evidence.	Discussion	n para 1-
Implications	20	Discuss the potential clinical use of the model and implications for future research.	Discussio	nara 1.6
Other information		The state of the s	PISOUSSIUI	, para 1-0
Supplementary information	21	Provide information about the availability of supplementary resources, such as study protocol, Web calculator, and data sets.	Supple	mentary
Funding	22	Give the source of funding and the role of the funders for the present study.	<del>  ιιιυ, μ.</del>	1-10
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We recommend using the TRIPOD Checklist in conjunction with the TRIPOD Explanation and Elaboration document.