

Appendix 1 Critical appraisal checklist

Modified from the PROBAST tool¹

	Yes/ probably yes:	No/ probably no:	No information:
<i>Was the study prospectively conducted? (Were appropriate data sources used?)</i>			
<i>Were all inclusions and exclusions of participants appropriate?</i>			
<i>Were predictors defined and assessed in a similar way for all participants?</i>			
<i>Were there a reasonable number of participants with the outcome? (for model validation studies, if the number of participants with the outcome is ≥ 100)</i>			
<i>Were participants with missing data handled appropriately?</i>			
<i>Were complexities in the data (e.g., censoring, competing risks, sampling of control participants) accounted for appropriately?</i>			
<i>Were relevant model performance measures evaluated appropriately?</i>			
<i>Other concerns</i>			
Overall assessment			

¹ Wolff RF, Moons KGM, Riley RD, Whiting PF, Westwood M, Collins GS, et al. PROBAST: A Tool to Assess the Risk of Bias and Applicability of Prediction Model Studies. *Ann Intern Med* 2019;170:51-58.