## The REMARK checklist

Item	to be reported	Reported on Page Number/Line Number	Reported on Section/Paragraph		
INTR	ITRODUCTION				
1	State the marker examined, the study objectives, and any pre-specified hypotheses.	Page 5/Line 93-97	Introduction/Paragraph 2		
ΜΑΤΙ	ERIALS AND METHODS				
Patie	nts				
2	Describe the characteristics (e.g., disease stage or co-morbidities) of the study patients, including their source and inclusion and exclusion criteria.	Page 5/Line 102-110	Methods/Paragraph 1		
3	Describe treatments received and how chosen (e.g., randomized or rule-based).	Page 5/Line 102-110	Methods/Paragraph 1		
Spec	imen characteristics				
4	Describe type of biological material used (including control samples) and methods of preservation and storage.	Page 6/Line 117-132	Methods/Paragraph 3-4		
Assay	/ methods				
5	Specify the assay method used and provide (or reference) a detailed protocol, including specific reagents or kits used, quality control procedures, reproducibility assessments, quantitation methods, and scoring and reporting protocols. Specify whether and how assays were performed blinded to the study endpoint.	Page 7/Line 151-168	Methods/Paragraph 7-8		
Study	/ design	1			
6	State the method of case selection, including whether prospective or retrospective and whether stratification or matching (e.g., by stage of disease or age) was used. Specify the time period from which cases were taken, the end of the follow-up period, and the median follow-up time.	Page 5/Line 102-110	Methods/Paragraph 1		
7	Precisely define all clinical endpoints examined.	Page 7/Line 171-179	Methods/Paragraph 9		
8	List all candidate variables initially examined or considered for inclusion in models.	Page 7/Line 171-179	Methods/Paragraph 9		
9	Give rationale for sample size; if the study was designed to detect a specified effect size, give the target power and effect size.	Not Available	Not Available		
Statis	tical analysis methods				
10	Specify all statistical methods, including details of any variable selection procedures and other model-building issues, how model assumptions were verified, and how missing data were handled.	Page 7/Line 171-179	Methods/Paragraph 9		
11	Clarify how marker values were handled in the analyses; if relevant, describe methods used for cutpoint determination.	Page 7/Line 157-168	Methods/Paragraph 8		

RESULTS				
Data				
12	Describe the flow of patients through the study, including the number of patients included in each stage of the analysis (a diagram may be helpful) and reasons for dropout. Specifically, both overall and for each subgroup extensively examined report the numbers of patients and the number of events.	Page 8/Line 183-185 Page 8/Line 212-213	Results/Paragraph 1 Results/Paragraph 3	
13	Report distributions of basic demographic characteristics (at least age and sex), standard (disease-specific) prognostic variables, and tumor marker, including numbers of missing values.	Page 8/Line 183-195	Results/Paragraph 1	
Analy	sis and presentation	·		
14	Show the relation of the marker to standard prognostic variables.	Page 8-9/Line 215-223	Results/Paragraph 3	
15	Present univariable analyses showing the relation between the marker and outcome, with the estimated effect (e.g., hazard ratio and survival probability). Preferably provide similar analyses for all other variables being analyzed. For the effect of a tumor marker on a time-to-event outcome, a Kaplan-Meier plot is recommended.	Page 8/Line 200-211	Results/Paragraph 2	
16	For key multivariable analyses, report estimated effects (e.g., hazard ratio) with confidence intervals for the marker and, at least for the final model, all other variables in the model.	Not Available	Not Available	
17	Among reported results, provide estimated effects with confidence intervals from an analysis in which the marker and standard prognostic variables are included, regardless of their statistical significance.	Page 8-9/Line 200-223	Results/Paragraph 2-3	
18	If done, report results of further investigations, such as checking assumptions, sensitivity analyses, and internal validation.	Page 8/Line 227-237	Results/Paragraph 4	
DISC	USSION		·	
19	Interpret the results in the context of the pre-specified hypotheses and other relevant studies; include a discussion of limitations of the study.	Page 11-13/Line 283-359	Discussion/Paragraph 1-6	
20	Discuss implications for future research and clinical value.	Page 13/Line 362-370	Conclusions/Paragraph 1	

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