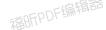
The REMARK checklist

	Item to be reported			Reported on Section/Paragraph		
	INTRODUCTION					
	1	State the marker examined, the study objectives, and any pre-specified hypotheses.	Page3/Line71-105	Introduction/Paragraph 1-3		
一位聲	MATERIALS AND METHODS 辑器 编版FPDF编辑器					
	Patients					
	2	Describe the characteristics (e.g., disease stage or co-morbidities) of the study patients, including their source and inclusion and exclusion criteria.	Page4/Line122-127	Methods/Paragraph 2		
	3	Describe treatments received and how chosen (e.g., randomized or rule-based).	Page4/Line109-121	Methods/Paragraph 1		
	Specimen characteristics					
	45	Describe type of biological material used (including control samples) and methods of preservation and storage.	Page4/Line130-132	Methods/Paragraph 3		
福昕PDFsimi	Assay methods 福町PDF編輯部					
	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.	Page4/Line133-138	Methods/Paragraph 3		
	Study design					
	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.	Page4/Line109-113	Methods/Paragraph 1		
	7	Precisely define all clinical endpoints examined.	Page 5/Line156-158	Methods/Paragraph 5		
	8	List all candidate variables initially examined or considered for inclusion in models.	Page 13/Line 340-344	Table 1		
	9	Give rationale for sample size; if the study was designed to detect a specified effect size, give the target power and effect size.	Page 5/Line139-153	Methods/Paragraph 4		
	Statistical 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 5/Line158-169	Methods/Paragraph 5		
	11	Clarify how marker values were handled in the analyses; if relevant, describe methods used for cutpoint determination.	Page 6/Line169-172	Methods/Paragraph 5		







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 6/Line 193-196	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 6/Line 176-179	Results/Paragraph 1		
Analysis and presentation					
14	Show the relation of the marker to standard prognostic variables.	Page 7/Line 197-210	Results/Paragraph 4		
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 7/Line 197-210	Results/Paragraph 4		
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.	Page 7/Line 197-210	Results/Paragraph 4		
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 13/Line 346-357	Table 2-3		
18	If done, report results of further investigations, such as checking assumptions, sensitivity analyses, and internal validation.	Page 7/Line 212-219	Results/Paragraph 5		
DISCUSSION					
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 7/Line 222-273	Discussion/Paragraph 1-3		
20	Discuss implications for future research and clinical value.	Page 9/Line 276-282	Conclusions/Paragraph 1		

From: McShane LM, Altman DG, Sauerbrei W, Taube SE, Gion M, Clark GM: Reporting recommendations for tumor marker prognostic studies (REMARK). J Natl Cancer Inst 2005; 97: 1180-1184.

Article Information: http://dx.doi.org/10.21037/atm-20-4503
*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.