Clinic-pathological features	N (%)
Age	
<50 years	1042 (32.8)
≥50 years	2131 (67.2)
Tumour Size	
<2 cm	1768 (55.8)
≥2 cm	1403 (44.2)
Grade	
Grade-I	543 (17.1)
Grade-II	1131 (35.7)
Grade-III	1496 (47.2)
Nottingham Prognostic Index (NPI)	
Good prognostic group (GPG)	1041 (32.8)
Moderate prognostic group (MPG)	1632 (51.5)
Poor prognostic group (PPG)	496 (15.7)
Stage	
Stage-I	1989 (62.8)
Stage-II	903 (28.5)
Stage-III	277 (8.7)
Lympho-vascular Invasion (LVI)	
Negative	2205 (69.8)
Positive	954 (30.2)
Estrogen Receptor Status (IHC)	
Negative	704 (22.3)
Positive	2453 (77.7)
Progesterone Receptor Status (IHC)	
Negative	1256 (40.9)
Positive	1813 (59.1)
HER2 (IHC)	
Negative	2677 (86.9)
Positive	402 (13.1)
Triple-Negative (IHC)	
No	2630 (84.5)
Yes	483 (15.5)

Supplementary Table 1. Clinic-pathological feature	ures of Nottingham primary series of invasive breast
cancer (n=3173)	

Role of CCNB2 in breast cancer

Supplementary Table 2. PREMARK criteria for the study

Ju	prementary rable 2.1 hEmathematic and the study	
Iter	n to be reported	Page no.
INT	RODUCTION	
1	State the marker examined, the study objectives, and any pre-specified hypotheses.	3
MA	TERIALS AND METHODS	
P	Patients	
2	Describe the characteristics (e.g., disease stage or co-morbidities) of the study patients, including their source and inclusion and exclusion criteria.	5-6
3	Describe treatments received and how chosen (e.g., randomized or rule-based).	5-6
S	pecimen characteristics	
4	Describe type of biological material used (including control samples) and methods of preservation and stor- age.	6
A	ssay 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.	5-6
S	itudy 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.	6
7	Precisely define all clinical endpoints examined.	6
8	List all candidate variables initially examined or considered for inclusion in models.	6
9	Give rationale for sample size; if the study was designed to detect a specified effect size, give the target power and effect size.	6
S	itatistical 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.	6
11	Clarify how marker values were handled in the analyses; if relevant, describe methods used for cutpoint determination.	6
RES	GULTS	
Ľ	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.	8
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.	8
A	nalysis and presentation	
14	Show the relation of the marker to standard prognostic variables.	8-9
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.	8
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.	8
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.	8
18	If done, report results of further investigations, such as checking assumptions, sensitivity analyses, and internal validation.	
DIS	CUSSION	
19	Interpret the results in the context of the pre-specified hypotheses and other relevant studies; include a dis- cussion of limitations of the study.	9-10
20	Discuss implications for future research and clinical value.	10