Methodological quality assessment of the study investigating the IHC4 test

Study feature	Qualities sought	Cuzick <i>et al.</i> (2011)84
Sample of patients	Inclusion criteria defined	Υ
	Sample selection explained	Υ
	Adequate description of diagnostic criteria	Υ
	Clinical and demographic characteristics fully described	Υ
	Representative (random or consecutive sample)	Υ
	Assembled at a common (usually early) point in the course of their disease	Υ
	Complete (all eligible patients were included)	Υ
Follow-up of patients	Sufficiently long	Υ
Outcome	Objective	Υ
	Unbiased (e.g. assessment blinded to prognostic information)	U
	Fully defined	U
	Appropriate	Υ
	Known for all or a high proportion of patients	Υ
Prognostic variable	Fully defined, including details of method of measurement if relevant	Y (reference provided)
	Precisely measured	Υ
	Available for all or a high proportion of patients	Υ
	If relevant, cut-point(s) defined and justified	Υ
Analysis	Continuous predictor variable analysed appropriately	Υ
	Statistical adjustment for all important prognostic factors	Υ
Intervention subsequent to	Fully described	Υ
inclusion in cohort	Intervention standardised or randomised	Υ

U, unclear/not reported; Y, yes.

Summary of results: IHC4

Study	Outcomes/ end points	Results	Authors' conclusions	Comments
Cuzick <i>et</i> <i>al.</i> (2011) ⁸⁴	Distant recurrence (within 10 years) TTDR	G1: 195 recurrences of which 145 were distant recurrences; in LN– women there were 101 recurrences of which 67 were distant recurrences	Additional studies are needed to determine the general applicability of the IHC4 score	
		The median IHC4 score for all patients was –4.2 (IQR –29.9 to 29.9). The HR for a change from the 25th to the 75th percentile of the IHC4 score for all patient was 5.7 (95% Cl 3.4 to 9.7) in univariate analysis and 3.9 (95% Cl 2.4 to 6.7) when added to clinical score		
		G2: IHC4 score was highly significantly predictive of outcome for a change from the 25th to 75th percentile in a univariate analysis (HR 4.8, 95% Cl 2.2 to 10.2), and gave similar results when added to clinical score (HR 4.4, 95% Cl 2.0 to 9.3, $\Delta\chi^2$ =26.61, p <0.0001)		