

Table S1 Multivariate analysis of factors associated with ALN metastasis

Variables	B	SE	Wald	P	OR (95% CI)
Ki-67 (Ref: <20%)	1.255	0.475	6.971	0.008	3.507 (1.382–8.901)
TTHC (Ref: <185.75 µmol/L)	1.628	0.465	12.265	<0.001	5.093 (2.048–12.664)
SR (Ref: <3.93)	1.786	0.47	14.451	<0.001	5.968 (2.376–14.991)
constant	-2.583	0.504	26.242	<0.001	0.076

ALN, axillary lymph node; CI, confidence interval; OR, odds ratio; Ref, reference; SE, standard error; SR, strain ratio; TTHC, tumor total hemoglobin concentration.

Table S2 Predictive performance of predALNM in the different subgroups

Subtype	Total (n=122), n (%)	AUC (95% CI)	SE	P
Molecular subtype				
Non-triple negative	113 (92.6)	0.827 (0.749–0.905)	0.04	<0.001
Triple negative	9 (7.4)	0.944 (0.786–1.000)	0.081	0.039
Pathological type				
Invasive ductal carcinoma	115 (94.3)	0.825 (0.747–0.902)	0.04	<0.001
Invasive lobular carcinoma	4 (3.3)	1.000 (1.000–1.000)	0	0.18
Mucinous carcinoma	3 (2.5)	–	–	–
Grade				
Grade 1	39 (32)	0.772 (0.606–0.938)	0.085	0.001
Grade 2	79 (64.8)	0.844 (0.756–0.932)	0.045	<0.001
Grade 3	4 (3.3)	–	–	–

AUC, areas under the curve; CI, confidence interval; predALNM, predictive axillary lymph node metastasis; SE, standard error.