

S10 Table. Positive predictive value, negative predictive value, sensitivity and specificity of light gradient boosting algorithm in internal and external validation set based on each classes

	Class	Positive predictive value	Sensitivity	F1 score
1-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<12 mo	31.56±4.21	73.94±3.12	44.06±3.61
	≥12 mo	95.28±0.93	76.56±3.62	84.83±2.32
External validation	<12 mo	18.97	68.75	29.73
	≥12 mo	97.54	80.82	88.39
2-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<24 mo	45.0±3.18	72.28±2.84	55.28±1.88
	≥24 mo	91.22±1.31	76.5±2.95	83.17±1.83
External validation	<24 mo	30.12	74.85	42.95
	≥24 mo	96.2	78.57	86.5
3-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<36 mo	54.94±2.93	70.61±3.23	61.72±1.48
	≥36 mo	86.89±2.11	77.17±2.97	81.67±1.86
External validation	<36 mo	39.37	69.05	50.14
	≥36 mo	92.97	79.37	85.63
4-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<48 mo	61.89±2.56	69.78±3.57	65.5±1.26
	≥48 mo	82.94±2.59	77.5±2.65	80.17±1.8
External validation	<48 mo	43.52	67.66	52.97
	≥48 mo	90.86	78.55	84.26
5-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<60 mo	67.0±2.26	69.28±3.28	68.11±1.37
	≥60 mo	79.67±2.73	77.78±2.95	78.56±2.03
External validation	<60 mo	49.88	68.14	57.6
	≥60 mo	88.1	77.51	82.47
6-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<72 mo	70.72±2.16	69.39±3.11	70.0±1.41
	≥72 mo	76.72±2.7	77.78±2.76	77.22±1.93
External validation	<72 mo	54.42	66.11	59.7
	≥72 mo	85.23	77.94	81.42
8-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<96 mo	77.28±2.38	69.61±3.4	73.22±1.58
	≥96 mo	71.17±3.45	78.44±3.5	74.67±2.73
External validation	<96 mo	60.55	65.4	62.88
	≥96 mo	81.32	77.95	79.6
10-Year survival				
Internal validation [18-fold-CV] (mean±SD)	<120 mo	82.67±2.43	69.67±4.04	75.5±2.17
	≥120 mo	66.28±3.78	80.11±4.14	72.56±2.83
External validation	<120 mo	73.53	61.73	67.11
	≥120 mo	74.59	83.49	78.79

Values are presented as mean±SD.