

S9 Table. Area under the receiver operating characteristics of each independent variables using light gradient boosting algorithm with Bayesian optimization using external validation Korean dataset

	External validation					
	1-Year	2-Year	3-Year	5-Year	8-Year	10-Year
Age	59.33	59.75	58.97	58.78	61.53	57.97
Sex	51.62	49.67	49.56	50.03	50.56	50.5
Site	53.12	51.23	49.89	51.58	50.81	51.27
Histology	54.7	54.06	52.48	51.4	50.43	50.30
Stage	75.13	76.66	75.14	73.67	71.54	70.28
Grade	52.89	54.17	52.84	54.6	54.11	50.26
Tumor size	60.86	60.28	59.65	57.55	56.01	50.67
Examined LNs	52.86	52.23	51.24	50.19	50.61	50.82
Positive LNs	67.85	69.07	68.02	67.19	65.4	63.26
Radiation	49.5	48.75	48.66	48.61	47.59	48.42
Chemotherapy	68.04	63.42	38.81	39.69	43.06	38.35
CEA level	59.84	58.95	60.6	59.64	59.93	59.15

CEA, carcinoembryonic antigen; LN, lymph node.