

Table SI. Bootstrap assessment of the variability of the GTVnx cutoff value derived from the 36-month time-dependent ROC analysis.

Parameter	Value
Number of bootstrap repetitions	1000
Original cutoff value, cm ³	78.0
Median bootstrap cutoff value, cm ³	77.9
95% percentile interval, cm ³	44.8–110.1
Standard deviation, cm ³	17.7

Bootstrap resampling was performed with 1,000 repetitions to evaluate the variability of the GTVnx cutoff value derived from the 36-month time-dependent ROC analysis. The original cutoff value was determined using the maximum Youden index. The 95% percentile interval represents the 2.5th and 97.5th percentiles of the bootstrap-derived cutoff values. GTVnx, gross tumor volume of the primary nasopharyngeal tumor; ROC, receiver operating characteristic.

Table SII. Sensitivity analyses of the prognostic value of GTVnx.

Variable	Model 1 HR (95% CI)	P-value	Model 2 HR (95% CI)	P-value	Model 3 HR (95% CI)	P-value
T stage, T4 vs. T3	1.260 (0.410-3.873)	0.687	-	-	1.152 (0.354-3.751)	0.815
N stage, N3 vs. N0-2	2.346 (0.857-6.422)	0.097	-	-	-	-
Clinical stage, stage III vs. stage II	-	-	1.869 (0.512-15.421)	0.343	-	-
EBV DNA, ≥ 400 vs. < 400 copies/ml	4.798 (1.416-16.255)	0.012	4.699 (1.432-15.421)	0.011	4.457 (1.331-14.920)	0.015
GTVnx, > 78 vs. ≤ 78 cm ³	4.387 (1.475-13.046)	0.008	3.904 (1.373-11.100)	0.011	-	-
GTVnx, per 10 cm ³ increase	-	-	-	-	1.106 (1.006-1.216)	0.038

The main analysis used the 78 cm³ cutoff for GTVnx determined by time-dependent ROC analysis. Model 1 further adjusted for N stage based on the main model. Model 2 replaced T stage with overall clinical stage. Model 3 included GTVnx as a continuous variable, with HR calculated per 10 cm³ increase. '-' indicates that the variable was not included in the multivariable model. CI, confidence interval; EBV DNA, Epstein-Barr virus DNA; GTVnx, gross tumor volume of the primary nasopharyngeal tumor; HR, hazard ratio; ROC, receiver operating characteristic.