

**Table S1** The correlations between histopathology and nSUVmax, PLN metastasis in training cohort (n=241)

Histopathologic index	N (%)	P value	
		nSUVmax	PLN metastasis
Squamous type		0.281	0.932
Keratinizing	57 (23.7)		
Non-keratinizing	162 (67.2)		
NA	22 (9.1)		
Ki-67, median (range)	80% (10–95%)	0.211	1.000
<27.5%	5 (2.1)		
≥27.5%	181 (75.1)		
NA	55 (22.8)		
Cyclin D1		0.973	0.822
Positive	24 (10.0)		
Negative	114 (47.3)		
NA	103 (42.7)		
P53		0.633	0.912
Positive	72 (29.9)		
Negative	110 (45.6)		
NA	59 (24.5)		

nSUVmax, SUVmax of pelvic lymph node; SUVmax, maximum standardized unit volume; PLN, pelvic lymph node.