

On-line Table 1: Comparison of variables between local control and failure in the prospective study (n = 17)

Variable		Local Control	Local Failure	P
Age (yr)		66.1 ± 5.08	64.4 ± 4.00	NS ^a
Tumor volume before treatment (mm ³)		6736 ± 1623	9930 ± 1825	NS
Tumor volume at early-phase treatment (mm ³)		5681 ± 1943	8240 ± 1697	NS
Volume reduction ratio		0.217 ± 0.084	0.174 ± 0.108	NS
Dose (Gy)		67.4 ± 0.79	66.3 ± 0.71	NS
Overall treatment time (days)		60.8 ± 3.84	65.3 ± 5.04	NS
T2-before treatment (ms)		90.8 ± 4.69	84.1 ± 2.54	NS
T2-at early-phase treatment (ms)		86.9 ± 5.15	83.8 ± 2.60	NS
T2 increase ratio		-0.028 ± 0.030	-0.018 ± 0.019	NS
Low ADC before treatment (×10 ⁻³ mm ² /s)		1.48 ± 0.150	1.50 ± 0.205	NS
Low ADC at early-phase treatment (×10 ⁻³ mm ² /s)		1.88 ± 0.181	1.90 ± 0.216	NS
Low ADC increase ratio		0.392 ± 0.208	0.330 ± 0.142	NS
High ADC before treatment (×10 ⁻³ mm ² /s)		0.731 ± 0.047	1.046 ± 0.086	.0049
High ADC at early-phase treatment (×10 ⁻³ mm ² /s)		1.015 ± 0.092	1.036 ± 0.058	NS
High ADC increase ratio		0.395 ± 0.102	0.019 ± 0.078	.0116
Location	Hypopharynx	4	4	NS
	Other	5	4	
T stage	T 12	5	2	NS
	T 34	4	6	
N stage	N 01	2	3	NS
	N 23	7	5	
Treatment method	Chemoradiotherapy	9	4	.0294
	Radiotherapy alone	0	4	

Note:—Data are shown as means ± SEs.
^a NS indicates $P \geq .05$.

On-line Table 2: Comparison of variables between local control and failure in the validation study (n = 40)

Variable		Local Control	Local Failure	P
Age (yr)		65.2 ± 2.06	63.8 ± 2.97	NS ^a
Tumor volume before treatment (mm ³)		7457 ± 1295	13506 ± 2371	.0196
Dose (Gy)		66.5 ± 0.37	66.6 ± 0.54	NS
Overall treatment time (days)		65.8 ± 2.29	65.3 ± 3.70	NS
Low ADC before treatment (×10 ⁻³ mm ² /s)		1.670 ± 0.114	1.412 ± 0.136	NS
High ADC before treatment (×10 ⁻³ mm ² /s)		0.713 ± 0.021	1.006 ± 0.058	.0002
Location	Hypopharynx	12	7	NS
	Other	15	6	
T stage	T 12	19	2	.0019
	T 34	8	11	
N stage	N 01	9	5	NS
	N 23	18	8	
Treatment method	Chemoradiotherapy	27	8	.002
	Radiotherapy alone	0	5	

Note:—Data are shown as means ± SEs.
^a NS indicates $P \geq .05$.