

Supplementary Table S1. Clinicopathologic features of 21 oral cavity cancer patients with early treatment failure

| Case | Age | TNM stage, site | Hist. grade | PS | HN-CCI ^b | Smoking | Alcohol | Betel nut | LBMI ^c | ASMI ^d | Radiotherapy | Cisplatin dose ^e | Failure pattern | Time to treatment failure (months) |
|------|-----|-----------------------------|-------------|----|---------------------|---------|---------|-----------|-------------------|-------------------|---------------|-----------------------------|-----------------|------------------------------------|
| 1 | 58 | T4aN0M0, IVA tongue | 3 | 2 | 0 | No | No | No | 13.7 | 4.99 | 62 Gy, 31 frx | 240 | PD | 3.03 |
| 2 | 49 | T4aN0M0, IVA mouth floor | 3 | 2 | 0 | Yes | Yes | Yes | 13.9 | 5.88 | 66 Gy, 33 frx | 180 | PD | 2.50 |
| 3 | 65 | T4aN0M0, IVA tongue | 2 | 2 | 1 | Yes | Yes | Yes | 13.9 | 5.17 | 56 Gy, 28 frx | 240 | PD | 4.57 |
| 4 | 54 | T4aN0M0, IVA buccal mucosa | 3 | 1 | 0 | Yes | Yes | Yes | 14.0 | 5.25 | 60 Gy, 30 frx | 300 | PD | 5.97 |
| 5 | 39 | T4aN2bM0, IVA buccal mucosa | 2 | 2 | 0 | Yes | Yes | Yes | 12.1 | 5.53 | 62 Gy, 31 frx | 240 | PD | 3.63 |
| 6 | 51 | T4aN2cM0, IVA tongue | 3 | 1 | 0 | Yes | Yes | Yes | 15.5 | 7.04 | 66 Gy, 33 frx | 240 | CD | 0.87 |
| 7 | 61 | T4aN2cM0, IVA buccal mucosa | 2 | 1 | 1 | Yes | Yes | Yes | 15.0 | 6.09 | 62 Gy, 31 frx | 160 | NCD (sepsis) | 3.57 |
| 8 | 61 | T3N1M, III buccal mucosa | 2 | 1 | 1 | Yes | Yes | Yes | 17.8 | 7.74 | 60 Gy, 30 frx | 240 | PD | 3.73 |
| 9 | 49 | T3N0M, III gingiva | 3 | 1 | 0 | Yes | Yes | No | 14.8 | 5.45 | 64 Gy, 32 frx | 240 | CD | 2.20 |
| 10 | 53 | T4aN1M0, IVA buccal mucosa | 2 | 1 | 0 | Yes | Yes | Yes | 13.3 | 5.37 | 64 Gy, 32 frx | 240 | CD | 0.76 |
| 11 | 47 | T4aN2cM0, IVA tongue | 3 | 1 | 0 | Yes | Yes | Yes | 16.5 | 7.20 | 66 Gy, 33 frx | 280 | PD | 4.83 |
| 12 | 67 | T4aN2cM0, IVA buccal mucosa | 3 | 1 | 1 | No | Yes | No | 15.8 | 6.02 | 66 Gy, 33 frx | 240 | PD | 4.07 |
| 13 | 44 | T4aN2cM0, IVA gingiva | 3 | 1 | 0 | Yes | Yes | Yes | 16.5 | 7.33 | 64 Gy, 32 frx | 240 | PD | 5.93 |
| 14 | 65 | T4aN1M0, IVA tongue | 2 | 2 | 1 | Yes | Yes | Yes | 13.8 | 5.37 | 64 Gy, 36 frx | 280 | PD | 4.23 |
| 15 | 56 | T4bN2bM0, IVB buccal mucosa | 1 | 1 | 0 | Yes | Yes | Yes | 16.7 | 6.88 | 72 Gy, 36 frx | 240 | CD | 1.03 |

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|----|----|--------------------------------|---|---|---|-----|-----|-----|-------|------|---------------|-----|-----------------|------|
| 16 | 56 | T4bN2bM0, IVB buccal mucosa | 3 | 1 | 0 | Yes | Yes | Yes | 15.9 | 7.09 | 66 Gy, 33 frx | 240 | PD | 5.23 |
| 17 | 49 | T4aN3M0, IVB buccal mucosa | 3 | 0 | 0 | Yes | Yes | Yes | 15.3 | 6.75 | 72 Gy, 36 frx | 240 | PD | 4.63 |
| 18 | 41 | T3N2bM0, IVA buccal mucosa | 3 | 1 | 1 | Yes | Yes | Yes | 16.9 | 8.01 | 66 Gy, 33 frx | 240 | PD | 4.03 |
| 19 | 49 | T3N3M0, IVB tongue | 2 | 1 | 1 | Yes | Yes | Yes | 14.0 | 5.46 | 66 Gy, 33 frx | 240 | PD | 3.27 |
| 20 | 59 | T4aN1M0, IVA tongue | 2 | 1 | 1 | Yes | No | Yes | 14.4 | 5.89 | 66 Gy, 33 frx | 240 | NCD (sepsis) | 1.23 |
| 21 | 43 | T4aN2aM0, IVA tongue | 2 | 1 | 0 | Yes | No | Yes | 13.74 | 4.25 | 64 Gy, 32 frx | 240 | PD | 5.20 |

PS, Eastern Cooperative Oncology Group performance status; HN-CCI, head and neck Charlson Comorbidity Index; LBMI, lean body mass index; ASMI, appendicular skeletal muscle index; frx, fraction; Time to treatment failure, the time period to develop treatment failure after CCRT ends; PD, disease in progression; CD, cancer death; NCD, non-cancer death

^aHistological grade ^b0, no comorbidity; 1, having comorbidity ^cunit, kg/m² ^dunit, kg/m² ^eunit, mg/m²