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| **TableS1. Patients and clinic-pathologic characteristics** |
| Characteristics | Tumor Samples  |
| Cases (%) |
| (N=158) |
| Age, Median, Y | 57 (17-80) |
|  | ≤ 57Y | 80 (50.6%) |
|  | > 57Y | 78 (49.4%) |
| Sex |  |
|  | Male | 93 (58.9%) |
|  | Female | 65 (41.1%) |
| Smoking |  |
|  | Smoking | 65 (41.1%) |
|  | Non-smoking | 93 (58.9%) |
| Drinking |  |
|  | Drinking | 59 (37.3%) |
|  | Non-drinking | 99 (62.7%) |
| Site |  |
|  | Oral Cavity | 118 (74.7%) |
|  | Oropharynx | 40 (25.3%) |
| Type |  |
|  | SCC | 129 (81.6%) |
|  | Others | 29 (18.4%) |
| Size |  |
|  | ≤ 2.2 cm | 81 (51.3%) |
|  | > 2.2 cm | 77 (48.7%) |
| Lymph Node |  |
|  | Positive | 59 (37.3%) |
|  | Negative | 99 (62.7%) |
| TNM Stage\* |  |
|  | Stage I-II | 85 (53.8%) |
|  | Stage III-IV | 73 (46.2%) |
| Chemoradiotherapy |  |
|  | Either or Both | 70 (44.3%) |
|  | None | 88 (55.7%) |
| Differentiation§ |  |
|  | High | 53 (33.5%) |
|  | Medium | 59 (37.3%) |
| 　 | Low | 17 (10.8%) |

\*TNM definition and clinical stage classification are defined according to American Joint Committee on Cancer Stage (Seventh Edition).

§ Differentiation is applied for the patients with squamous cell carcinoma (n=129).