### S2 Table. Detailed information on the underlying disease of subjects

| Underlying diseases                | Upfront LPS (n=59) | Upfront RT (n=126) | p-value |
|-----------------------------------|--------------------|--------------------|---------|
| Hypertension                      | 19                 | 36                 |         |
| Diabetes                          | 6                  | 22                 |         |
| Cerebrovascular disease           | 1                  | 5                  |         |
| Heart disease                     | 2                  | 7                  |         |
| Renal disease                     | 2                  | 5                  |         |
| Liver disease                     | 0                  | 4                  |         |
| Endocrine disease                 | 0                  | 1                  |         |
| Infectious disease                | 1                  | 1                  |         |
| **Total**                         | **31 (52.5)**      | **81 (64.3)**      | **0.148** |

Values are presented as number (%). LPS, larynx-preserving surgery; RT, radiation therapy.