

## Radiotherapy for Laryngeal Cancer

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External beam radiotherapy is an effective treatment for the laryngeal cancer. The retrospective study for laryngeal cancers was carried out. For the early glottic cancers (T1-2N0), localized field to the glottis were used ( $5 \times 5$  to  $6 \times 6$  cm<sup>2</sup>). For the early supraglottic cancers (T1-2N0), larger treatment fields more than 50 cm<sup>2</sup> including regional lymph nodes were applied. For the advanced laryngeal cancers, doctors in charge decided radiation field based on nodal status and primary site.

The five-year local control rates of T1, T2 glottic cancers and T1, T2 supraglottic cancers were 79%, 70%, 69% and 59%, respectively. The corresponding figures of 5-year cause-specific survival rates were 94%, 96%, 91% and 78%. The 5-year local control rates of T3 and T4 laryngeal cancers were 48% and 24%, and the 5-year cause-specific survival rates of those cancers were 48% and 52%, respectively.

We carried out the surrogate survey of the treatment for the laryngeal cancer. These results will be also discussed.