

## Radiotherapy reduced salivary flow rate and might induced c. albicans infection

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### Abstrak

Radiotherapy has impact in oral health especially on the secretion capacity of the salivary glands. Another impact is the increase of *Candida albicans* colony. Objectives: To evaluate salivary flow rate in relation with *Candida albicans* colony in head and neck cancer patients during and after radiotherapy. Methods: Twenty-four head and neck cancer patients in Dharmais Cancer hospital, Jakarta who were undergoing radiotherapy or had undergone radiotherapy and 24 match healthy volunteers were included in the study. Clinical observation carried out by collecting unstimulated salivary flow rate and followed by culture of *Candida* in Sabouraud agar medium. Data were analyzed statically by Chi-square. Results: Nasopharynx cancer was the most frequent type of head and neck cancers (87.5%) followed by tongue cancer (12.5%) and found in 41-50 years old patients and 51-60 years old patients, respectively with male predilection compare to female (17:7). Approximately 87.5% of subjects showed decreased salivary flow rate (0-1.5mL/10min) and 12.5% showed a normal salivary flow rate (1.01-1.50mL/10min) during and after radiotherapy. However, 91.7% of cancer patients has increased in *C.albicans* colony during and after radiotherapy compared to control ( $p=0.00$ ). Conclusion: This study showed that radiotherapy induced hyposalivation and might increase the *C.albicans* colony.