

STATINS EFFECT ON ONCOLOGIC OUTCOME IN LARYNX SQUAMOUS CELL CARCINOMA: A COMMENTARY ON OUR CLINICAL EXPERIENCE

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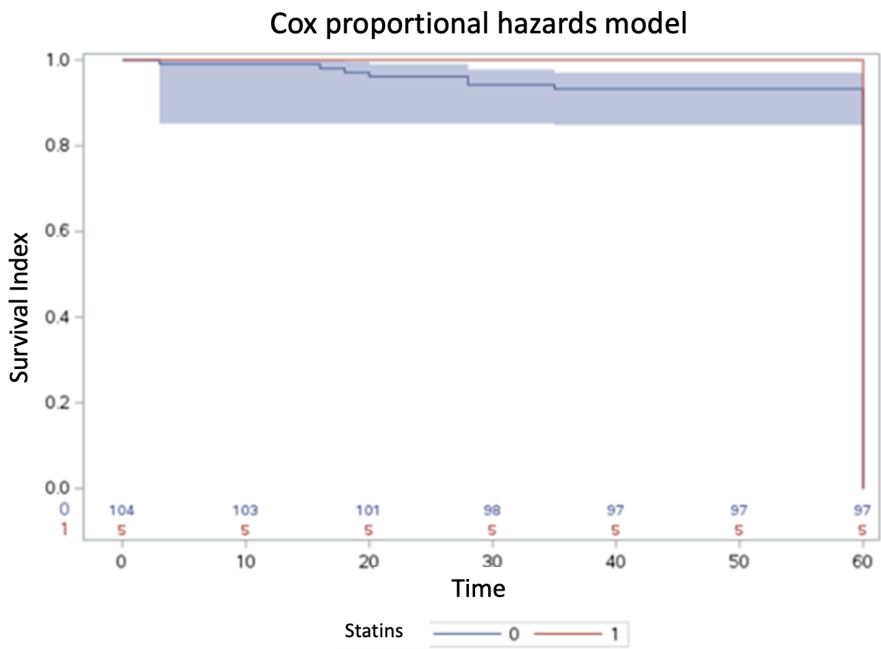
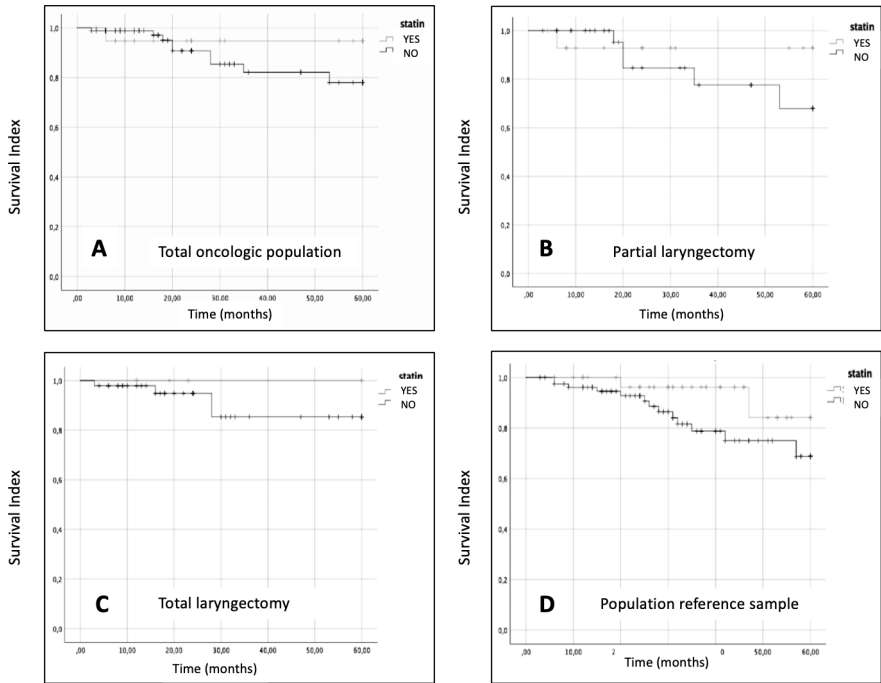
August 29, 2022

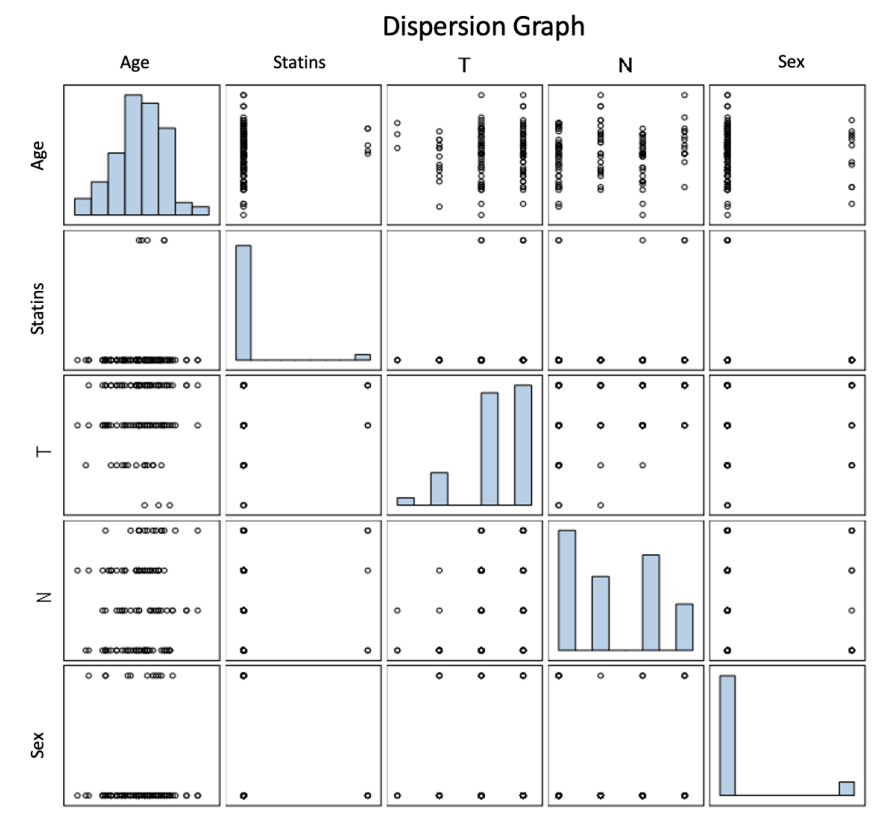
Abstract

Purpose: Some studies have suggested a protective role of statins in Head and Neck Squamous Cell Carcinoma (HNSCC) even though the real contribution of statins to morbidity and survival remains unclear. **Study Design:** Retrospective case-control **Methods:** The aim of this review is to retrospectively evaluate the oncological protection and the outcome of the statin intake in a population of patients affected by larynx squamous cell carcinoma that underwent total or partial laryngectomy. We analyzed 109 patients with a focus on the percentage of statin intake. Overall survival (OS) was compared between patients underwent total or partial laryngectomy assuming statin or not. Furthermore, we compare statin intake in cancer patients with a population of non-cancer patients. We analyzed if statin intake could be statistically significant in increasing the overall survival. **Results:** The Kaplan-Meier survival curves for oncologic population assuming statins was 94,7% and 78% for patients that were not assuming statins. The Cox multivariate regression analysis didn't identify a statistically significant OS benefit with statin intake **Conclusion:** Statin intake at the time of diagnosis of squamous cell carcinoma of the larynx has shown an improved OS even though statin consumption didn't appear as a statistically significant variable probably due to the small number of patients analyzed. Another probable cause is the feedback of a medium delay of about ten years in statin assumption compared to the onset of the tumor and the emerged data of a smaller percentage of people assuming statins from the population analyzed, compared to the national medium.

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Table 1. decision flow chart.docx available at <https://authorea.com/users/504452/articles/583798-statins-effect-on-oncologic-outcome-in-larynx-squamous-cell-carcinoma-a-commentary-on-our-clinical-experience>

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tabella_2 Demographics.docx available at <https://authorea.com/users/504452/articles/583798-statins-effect-on-oncologic-outcome-in-larynx-squamous-cell-carcinoma-a-commentary-on-our-clinical-experience>

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tabella_3 Cox proportional.doc available at <https://authorea.com/users/504452/articles/583798-statins-effect-on-oncologic-outcome-in-larynx-squamous-cell-carcinoma-a-commentary-on-our-clinical-experience>

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tabella_4.doc available at <https://authorea.com/users/504452/articles/583798-statins-effect-on-oncologic-outcome-in-larynx-squamous-cell-carcinoma-a-commentary-on-our-clinical-experience>