Transoral Laser Microsurgery for T1a glottic cancer - DAHANCA 27


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Purpose or Objective
To evaluate the results of sentinel lymph node biopsy (SLNB) in patients diagnosed with a cT1-T2 oral squamous cell carcinoma and clinically negative (cN0) neck in the Netherlands. An update of this ongoing study will be presented.

Material and Methods
Retrospective analysis of 328 previously untreated patients, who underwent SLNB between 2007 and 2016. The SLNB procedure consisted of preoperative lymphoscintigraphy, intraoperative detection of SLNs using gamma probe guidance and postoperative histopathological examination including step-serial sectioning and additional keratin immunohistochemical staining. A positive SLNB was followed by a neck dissection, while patients with a negative SLNB underwent regular follow-up with ultrasound guided fine-needle aspiration cytology on indication.

Results
The SLN identification rate was 98% (322/328). At least one histopathologically positive SLN was found in 77 of 322 patients (24%). In 15 patients (19%) SLNs contained only isolated tumor cells as largest tumor deposit, in 28 patients (36%) micrometastases and in 34 patients (44%) macrometastases. Median follow-up was 26 months (range 1-104). During follow-up 18 patients developed isolated regional recurrence after a negative SLNB. Therefore, the sensitivity of SLNB was 81% and the negative predictive value was 93%. The SLNB sensitivity of patients with a floor of mouth tumor was lower compared with tumors on other locations (67% vs. 84%, P=0.11). Although the negative predictive value was 93%, the proportion of successful salvage was 550). The proportion of successful salvage was 80% (4 patients /5) in the TLM cohort and 71% (17 patients /24) in the RT cohort. The patient in the TLM cohort with non-cured recurrence initially rejected salvage treatment and was month later evaluated incurable.

Conclusion
SLNB is a safe and reliable diagnostic staging technique for detection of occult lymph node metastasis in patients with early stage (cT1-T2N0) oral cavity cancer, but needs improvement in patients with floor of mouth tumors.

OC-021 Transoral Laser Microsurgery for T1a glottic cancer - DAHANCA 27
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Purpose or Objective
The aim of this study was to evaluate whether treatment with transoral laser microsurgery (TLM) is non-inferior compared to accelerated radiotherapy (RT) in the treatment of T1aN0M0 glottic squamous cell carcinoma (SCC).

The DAHANCA (Danish Head and Neck Cancer) database prospectively register all Danish patients diagnosed with a head and neck cancer. Hence, all patients diagnosed with a T1aN0M0 glottic SCC are registered, allowing for the analyses of potential selection biases into the DAHANCA 27 study cohorts.

Material and Methods
Since 2003 the Danish national standard treatment for T1aN0M0 glottic SCC has been accelerated RT (66Gy, 33 fractions, 6 fractions/week). In 2012 cordectomy type I-III using TLM was introduced as an experimental treatment. The DAHANCA 27 trial is a comparative non-inferiority phase II study comparing two timely separated national patient cohorts. Patients treated with TLM from September 2012 to April 2016 were included in the TLM cohort, and patients treated with accelerated RT from January 2003 to August 2012 were included in the RT cohort. All patients are followed for five years or until death. The study will evaluate whether disease control after treatment with TLM is non-inferior compared to RT. Laryngectomy rate, survival and voice quality will also be analysed.

Results
A total of 94 patients were included in the TLM cohort and 550 patients in the RT cohort. With an observation time of 36 months, the proportion of local recurrence was 5.3% (5 patients /94) in the TLM cohort and 4.4% (24 patients/ 550) in the RT cohort. The proportion of successful salvage was 80% (4 patients /5) in the TLM cohort and 71% (17 patients /24) in the RT cohort. The patient in the TLM cohort with non-cured recurrence initially rejected salvage treatment and was month later evaluated incurable.

Conclusion
Data show non-inferiority in disease control after TLM compared to RT. This study contributes to the international evidence regarding best practice in the treatment of T1aN0M0 glottic cancer due to the large national cohorts. The study outcome will determine whether TLM is implemented as a standard treatment for T1aN0M0 glottic cancer in Denmark.

OC-022 Unexpected drainage patterns and high accuracy of SLNB in OSCC after previous neck treatment
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Purpose or Objective
Patients with oral squamous cell carcinomas (OSCC) suffer a high risk for local recurrences (10-30%) and have an annual risk of 3-4% for developing second primary tumours. In OSCC neck levels at risk for metastasis may be changed due to disruption of lymphatic channels by