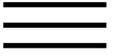


Receptor 1 gene amplification in oral tongue squamous cell carcinomas and associations with clinical features and patient.

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## Oral Oncology

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Frequency of *Fibroblast Growth Factor Receptor 1* gene amplification in oral tongue squamous cell carcinomas and associations with clinical features and patient outcome

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### Summary

#### Objectives

Novel therapies are required for patients with recurrent or metastatic oral tongue squamous cell carcinoma (OTSCC). *Fibroblast Growth Factor Receptor 1* (*FGFR1*) amplification frequently occurs in squamous cell carcinoma of the lung and represents a novel druggable therapeutic target in this and other malignancies. This study examined the frequency and clinical associations of *FGFR1* amplification in OTSCC.

#### Materials and methods

The frequency of *FGFR1* amplification determined by fluorescence *in situ* hybridization was evaluated in a cohort of 123 OTSCC patients. Associations of *FGFR1* amplification with clinical characteristics and outcome were determined.

## Results

*FGFR1* gene amplification was present in 9.3% (10/107) of cases and was significantly associated with smoking status ( $P = 0.03$ ). *FGFR1* amplification was seen more commonly in males (9/10 amplified cases male,  $P = 0.16$ ) and there were no associations with age, stage, T stage, nodal status, alcohol history or performance status (all  $P > 0.05$ ). Outcome was not significantly different between *FGFR1* amplified and non-amplified patients.

## Conclusions

Copy number variations of the *FGFR1* gene occur in a subset of OTSCC with approximately 10% of cases showing amplification of the gene. *FGFR1* amplification may represent a therapeutic target in OTSCC.



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## Keywords

*Fibroblast Growth Factor Receptor 1*; *FGFR1*; Oral tongue squamous cell carcinoma; Oral cancer; Fluorescence *in situ* hybridisation; FISH; Gene amplification; Outcome

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