

Salivary mucins in patients with salivary gland tumors

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In this project the expression, glycosylation and sialylation of mucins will be determined in tissue specimens of salivary gland tumors and in parallel, in the saliva of patients with a salivary gland tumor to determine whether altered mucin...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Miscellaneous and site unspecified neoplasms malignant and unspecified
Study type	Observational non invasive

Summary

ID

NL-OMON33922

Source

ToetsingOnline

Brief title

Salivary mucins in patients with salivary gland tumors

Condition

- Miscellaneous and site unspecified neoplasms malignant and unspecified

Synonym

salivary gland neoplasia; salivary gland tumor

Research involving

Human

Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: mucin, saliva, salivary gland tumor

Outcome measures

Primary outcome

Expression and glycosylation and sialylation of mucines in salivary gland tumors, correlated to the presence of these mucins in saliva.

Mucin in saliva of patients with salivary gland tumors, in comparison with normal controls.

Secondary outcome

none

Study description

Background summary

Salivary gland tumors are very heterogenous. Classification only relies upon histopathology. More than 40 subtypes are recognized by the WHO classification (2005). Malignant salivary gland tumors are mostly adenocarcinomas. Most adenocarcinomas produce mucins. In breast and colon cancer, it has been shown that expression and glycosylation of mucins in tumor is altered compared to normal tissue. Cellular and humoral immune responses against mucins, in particular MUC1 have been described in patients with these adenocarcinomas. In patients with breast cancer, the presence of a humoral response against MUC1 can prevent disease progression.

At present, nothing is known about expression and glycosylation of mucins in salivary gland tumors.

Study objective

In this project the expression, glycosylation and sialylation of mucins will be determined in tissue specimens of salivary gland tumors and in parallel, in the saliva of patients with a salivary gland tumor to determine whether altered mucin expression in saliva can be used as a diagnostic tool in pre-operative management of patients.

Study design

1. in specimens of salivary gland tumors, available at the archives of the department of (oral) pathology, expression and glycosylation and sialylation of mucins will be determined by immunohistochemistry with monoclonal and polyclonal antibodies.
2. saliva will be collected from patients who visit the departments of Oral and Maxillofacial Surgery and Head and Neck Surgery with a salivary gland tumor. The saliva will be tested for the presence and composition of mucins, in parallel with the tumorbiopsies and excisions, taken for diagnostic and treatment purposes.
3. as a control, saliva of normal healthy controls will be investigated.

Study burden and risks

none

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

patients with a salivary gland tumor

Exclusion criteria

none

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Basic science

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	21-07-2009
Enrollment:	130
Type:	Actual

Ethics review

Approved WMO

Date:	10-06-2009
Application type:	First submission
Review commission:	METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL24869.029.09