Assessing Dutch-language versions of two questionnaires design to assess the impact of side effects of radiotherapy in patients with head and neck cancer

Submission date	Recruitment status No longer recruiting	Prospectively registered		
25/09/2020		☐ Protocol		
Registration date 05/10/2020	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited 12/02/2025	Condition category Cancer	[] Individual participant data		

Plain English summary of protocol

Background and study aims

Radiotherapy uses radiation to kill cancer cells. Along with surgery, it is the most frequently used treatment for patients with head and neck cancer (HNC, cancer in the mouth, nose and throat). Unfortunately, radiotherapy in the head and neck area can also damage healthy tissues. This can reduce people's ability to carry out daily activities of life as they did before, which can then impact on their quality of life (QoL). The most common side effects during radiotherapy are radiation dermatitis (skin irritation and soreness), oral mucositis (mouth irritation and soreness), xerostomia (dry mouth), loss of taste, fatigue, dysphagia (swallowing problems) and dysphonia (problems with speaking).

Oral mucositis tends to be the problem that results in a reduction in radiotherapy dose or frequency. It results in pain, bleeding and infections, which can lead to problems with swallowing and reduction in food intake. Since this side effect has a significant impact on QoL, it is important to assess oral mucositis in patients with HNC during their treatment. All of the radiation-associated side effects can severely affect patients and their social, family and work activities and relationships. They can even harm a person's self-esteem. This means it is also important to assess patients' abilities to perform daily life activities and their quality of life. The aim of this study is to translate from English to Dutch two questionnaires that assess the impact of oral mucositis and the impact of HNC radiotherapy on the patient's ability to speak, diet and ability to eat in public and to assess their usefulness in measuring the impact on the patient.

Who can participate?

Adult HNC patients treated with radiotherapy with or without chemotherapy (drug treatment combined with radiotherapy)

What does the study involve?

All patients are asked to fill out three questionnaires before the start of radiotherapy and during weeks 3, 4 and 5 of radiotherapy. At the same times, a cancer radiotherapy specialist will assess

their side effects and a speech specialist will interview the patient to assess their speech, diet and ability to eat in public.

What are the possible benefits and risks of participating? There are no additional risks or benefits of participating in this study, since the patients will receive their cancer treatment as normal.

Where is the study run from?
Antwerp University Hospital (Belgium)

When is the study starting and how long is it expected to run for? August 2018 to May 2020

Who is funding the study? Kom Op Tegen Kanker (Belgium)

Who is the main contact? Prof. Dr. Gwen Van Nuffelen Gwen.vannuffelen@uza.be

Contact information

Type(s)

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Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

B300201837097

Study information

Scientific Title

The validation and psychometric properties of the Dutch version of the Oral Mucositis Weekly Questionnaire-Head and Neck Cancer (D-OMWQ-HN) and the Performance Status Scale-Head and Neck Cancer (D-PSS-HN)

Study objectives

We hypothesize that the Dutch version of the Oral Mucositis Weekly Questionnaire (D-OMWQ-HN), a questionnaire designed to assess the symptoms of oral mucositis and their impact on patient function and well-being) and the Dutch version of the Performance Status Scale for Head and Neck Cancer (D-PSS-HN), a questionnaire designed to assess function (including understandability of speech, normalcy of diet and eating in public), are valid, reliable and feasible instruments in patients treated with radiotherapy for head and neck cancer.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 14/08/2018, Ethical Committee of the University of Antwerp (Prinsstraat 13, 2000 Antwerpen, Belgium; +32 38213000; ethisch.comite@uza.be), ref: 18/05/056

Study design

Multicenter longitudinal study

Primary study design

Interventional

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Patients treated with (adjuvant) radiotherapy for head and neck cancer

Interventions

This is a multicenter, longitudinal study with the aim of validating the Dutch version of the Oral Mucositis Weekly Questionnaire and the Performance Status Scale for Head and Neck Cancer patients.

The D-OMWQ-HN and D-PSS-HN are first translated according to the cross-cultural adaptation process described in international guidelines.

The D-OMWQ-HN is filled in together with the Functional Assessment of Cancer Therapy - Head & Neck cancer (FACT-HN) and the Dutch version of the dysphagia-related quality of life assessment tool D-SWAL-QOL. The RTOG/EORTC grading of radiation-inmduced morbidity is completed by the radiation oncologist. The Functional Oral Intake Scale (FOIS) and D-PSS-HN are completed by a speech and language pathologist based on a short interview with the patient. All instruments are administered at baseline and during week 3, 4 and 5 of radiotherapy treatment. This data is used to assess the validity and reliability of the D-OMWQ-HN and D-PSS-HN.

During week 4, the D-OMWQ-HN and D-PSS-HN are filled in twice within 24-48 h for test-retest reliability evaluation.

Data collected during week 5 is used to assess reliability and validity.

This is a multicentre trial: the University Hospital of Anwerp and the University Hospital of Ghent are participating in this trial.

Intervention Type

Other

Primary outcome(s)

1. D-OMWQ-HN (Dutch Oral Mucositis Weekly Questionnaire Head and Neck Cancer): mucositisspecific questionnaire assessing patient well-being and function

Method of measurement: patient questionnaire

Timepoint: baseline, week 3, 4 (twice within 24-48 hours) and 5 of radiotherapy.

2. D-PSS-HN (Dutch Performance Status Scale Head and Neck Cancer): clinician-rated instrument consisting of three subscales addressing areas of diet, speech and eating in public Method of measurement: patient interview

Timepoint: baseline, week 3, 4 (twice within 24-48 hours) and 5 of radiotherapy.

3. FACT-HN (Functional Assessment of Cancer Therapy Head and Neck Cancer): multidimensional quality of life instrument developed specifically for the oncologic population Method of measurement: patient questionnaire

Timepoint: baseline, week 3, 4 and 5 of radiotherapy.

Measure: used to assess the discriminant validity of the D-PSS-HN and the D-OMWQ-HN and the convergent validity of the D-OMWO-HN

4. SWAL-QOL (Swallowing Quality of Life Questionnaire): is a dysphagia-specific patient questionnaire evaluating domains of dysphagia related to quality of life: general burden, eating duration, eating desire, food selection, communication, fear of eating, social functioning, mental health, sleep and fatigue

Method of measurement: patient questionnaire

Timepoint: baseline, week 3, 4 and 5 of radiotherapy.

Measure: used to assess the convergent validity of the D-PSS-HN and the discriminant validity of the D-OMWQ-HN

5. RTOG/EORTC (the Toxicity criteria of the Radiation Therapy Oncology Group (RTOG)

/European Organization for Research and Treatment of Cancer (EORTC)): the radiation oncologist determines the grade of oral mucositis by means of a clinical examination

Method of measurement: clinical examination

Timepoint: baseline, week 3, 4 and 5 of radiotherapy

Measure: used to assess the convergent validity of the D-OMWQ-HN

6. FOIS (Functional Oral Intake Scale): is a clinican-rated scale, used to assess the current status

and changes in oral intake

Method of measurement: patient interview

Timepoint: baseline, week 3, 4 and 5 of radiotherapy

Measure: used to assess the convergent validity of the D-PSS-HN

Key secondary outcome(s))

There are no secondary outcome measures

Completion date

25/05/2020

Eligibility

Key inclusion criteria

- 1. Patients with head and neck cancer treated with radiotherapy or chemoradiotherapy
- 2. Tumor located in the oral cavity, oropharynx, nasopharynx, hypopharynx or larynx
- 3. Aged 18 years or older

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

- 1. Patients treated with experimental medication used for oral mucositis
- 2. Cognitive problems

Date of first enrolment

11/12/2018

Date of final enrolment

27/04/2020

Locations

Countries of recruitment

Belgium

Study participating centre Univeristy Hospital of Antwerp

Wilrijkstraat 10 Edegem Belgium 2650

Study participating centre University Hospital of Ghent

Corneel Heymanslaan 10 Gent Belgium 900

Sponsor information

Organisation

Antwerp University Hospital

ROR

https://ror.org/01hwamj44

Funder(s)

Funder type

Charity

Funder Name

Kom Op Tegen Kanker

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be stored in a non-publically available repository.

All data will be stored in REDCap, a secure web application for building and managing online surveys and databases. (https://www.project-redcap.org/).

Patient information (no identifying information), surveys and measurements will be shared. The data will be available for all participating study investigators until the end of the study. All data will be anonymised, patient's details will be encoded.

IPD sharing plan summary

Stored in repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	Results for D-OMWQ-HN	01/10/2022	02/11/2022	Yes	No
Results article	Results for D-PSS-HN	15/05/2023	12/02/2025	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes