Changes in smell and taste caused by chemotherapy What can you do as a nurse?



Two out of three patients undergoing chemotherapy are affected by changes in the sense of smell or taste.

Changes in the sense of taste occur more frequently than changes in the sense of smell. Changes in sense of smell and taste are often temporary, and can last a few weeks to months after treatment.

The senses of smell and taste play an essential role in food choice and intake of food. Smell and taste changes may lead to altered food preferences, reduced food intake and food aversions. This may result in weight loss and ultimately malnutrition. Changes in sense of smell and taste may also influence a patient's quality of life.

Reduced nutritional status may influence treatment and the recovery capacity of a patient. It is important to know the cause of smell and taste changes and how they can be treated. This factsheet provides information on smell and taste changes, as well as tips and advice on how to handle these in daily practice.

This factsheet is published by the Science Shop of Wageningen University & Research as part of the project 'Changes in smell and taste in cancer patients', in cooperation with the HungerNdThirst Foundation. If you have any questions, contact the HungerNdThirst Foundation (info@hungerndthirst.org).







- Changes in the sense of smell or taste may occur during chemotherapy. Chemotherapy attacks rapidly dividing cells, such as the receptors for smell and taste. This may result in changes in sense of smell and taste as a side effect of the chemotherapy.
- Changes in smell and taste depend on the type of cancer, the type of chemotherapy treatment and on the individual patient.
- Changes in sense of smell and taste may occur in three different levels:
 - Enhanced, reduced or no sensitivity to smell/taste
 - Disruption to the perception of smell/taste;
 - Smell and/or taste hallucinations (non-present flavors are tasted)

- Discuss within your department including a question on smell and taste changes in the patient's medical history. Smell and taste changes may then be discussed in a uniformed way.
- Track problems with nutritional status and eating behavior.
 Refer to a dietician if help is needed. Ask advice from an oral health care specialist to prevent oral health problems and ensure good oral hygiene.
- No medication is (yet) available for smell and taste disorders.
 Discuss on an effective strategy with the patient for dealing with these disorders. Patient-specific advice is important, because the symptoms and needs of individual patients differ.
- Be aware especially with outpatients that most of the problems occur in the home situation. For this reason, it is important to involve the social network of the patient.
- Search for websites with practical tips, such as recipes, so that
 patients can search for information at home themselves. Look,
 for example, at the Dutch websites www.voedingenkankerinfo.nl
 and www.kanker.nl.

