

Effect of exposure time in the mouth on the amount eaten.

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A long oral exposure time results in less ad libitum intake.

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON23284

Bron

NTR

Verkorte titel

exposure

Aandoening

Obesity, satiation, ad libitum intake, salt

Ondersteuning

Primaire sponsor: Wageningen University

Overige ondersteuning: NWO-STW

FrieslandCampina, Danone, Unilever, CSM, TIFN

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Ad libitum intake.

Toelichting onderzoek

Achtergrond van het onderzoek

The duration of food in the mouth, the orosensory exposure time, was shown to have an influence on satiation. This was illustrated mostly by using sweet products and not by savoury or salty products. Tasting sweetness causes a cephalic phase response (i.e. the metabolic and endocrine responses directly after the first contact with the food) that is different from salty tastes. In addition, tasting sweetness is considered to be a strong predictor of energy. These influences may have increased the effect of orosensory exposure time on satiation. It is questionable whether orosensory exposure time by itself produces a faster satiation or that it only plays a role with an energy-associating tastant. The objective is to determine the effect of orosensory exposure time, in combination with salt intensity, on satiation in a low energetic tomato soup.

Doel van het onderzoek

A long oral exposure time results in less ad libitum intake.

Onderzoeksopzet

Subjects will consumed ad libitum six times during six week. Once a week during lunch time.

Onderzoeksproduct en/of interventie

Oral exposure time will be manipulated by small vs. large bite sizes. Subjects receive tomato soup low and high in salt, from which they consumed once in a short oral exposure time condition and once in a long oral exposure time condition. In addition there will be 2 conditions (low and high in salt) in which the subject is able to determine bite size by him/herself.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Male;
2. Age between 18 to 35 years;
3. BMI between 18.5 and 25 kg/m²;
4. Healthy (as judged by the participant).

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Smoking (>1 cigarette a day);
2. Current participation in other research from the division of human nutrition (WUR);
3. Participation in the past of “Tomaat & Soep” study or “Tomato-Lunch” study;
4. Pleasantness score of tomato soup < 5, on a 9 point hedonic scale;
5. Thyroid disease;
6. Lack of appetite for any (unknown) reason;
7. Swallowing/eating problems;
8. Energy restricted diet within the last two months;
9. Weight gain or loss of 5 kg or more during the last year;
10. Stomach or bowel disease;

11. Diabetes;
12. Endocrine disorders (other than diabetes and thyroid disease);
13. Kidney disease;
14. Hypertensity;
15. The use of salt-restricted food;
16. Hypersensitivity or allergy to some of the ingredients of the test product;
17. Restraint eating.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Cross-over
Toewijzing:	N.v.t. / één studie arm
Blindering:	Enkelblind
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	19-04-2010
Aantal proefpersonen:	60
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	01-02-2010
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 35037

Bron: ToetsingOnline

Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL2074
NTR-old	NTR2191
CCMO	NL31123.081.09
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON35037

Resultaten

Samenvatting resultaten

N/A