

Sensory specific satiety and flavour intensity - Differential effects in children and adults

Published: 02-10-2006

Last updated: 21-05-2024

To determine the differential effect of age (children vs. adults) on the development of sensory specific satiety (SSS) in relation to intensity of drinks (both sweetness and flavour). To compare two methods of assessing SSS.

Ethical review	Approved WMO
Status	Pending
Health condition type	Other condition
Study type	Observational invasive

Summary

ID

NL-OMON29981

Source

ToetsingOnline

Brief title

SSS in children and adults

Condition

- Other condition

Synonym

n.a.

Health condition

geen aandoening

Research involving

Human

Sponsors and support

Primary sponsor: Wageningen Universiteit

Source(s) of monetary or material Support: Ministerie van OC&W, Unilever, Unilever; Olivier van Noortlaan 120; P.O. Box 114; 3130 AC Vlaardingen

Intervention

Keyword: age, intensity, methodology, sensory specific satiety

Outcome measures

Primary outcome

The development of SSS through consumption of the test products. This will be assessed in two ways. First, by comparing the decrease in palatability ratings of the test foods from before to after consumption of a fixed amount with the mean decrease in liking of the other, non-eaten, foods. Secondly, by comparing the amount eaten ad libitum of the test foods.

Secondary outcome

n.a.

Study description

Background summary

Scientific literature points out that differences in sensory characteristics of products, e.g. flavour intensity, might have an effect on sensory specific satiety. Moreover, these characteristics might differentially affect sensory specific satiety in children and adults.

Study objective

To determine the differential effect of age (children vs. adults) on the development of sensory specific satiety (SSS) in relation to intensity of drinks (both sweetness and flavour). To compare two methods of assessing SSS.

Study design

The study is a randomized, crossover, intervention study, in which the development of SSS of two test products will be tested. For each of the products, development of SSS will be tested in two different ways (ad libitum and fixed consumption), on separate test days. For the subjects, the four sessions take place on separate test days, separated by at least 72hrs.

Intervention

Each participant will undergo 4 sessions. During these sessions he/she will taste and rate a small amount of 5 different foods. Next, he/she will eat a larger amount of one of these 5 foods (test food), either ad libitum, or a fixed amount (300ml). Finally, he/she will taste and rate the same 5 foods again.

There are 2 test foods, and 2 conditions (ad libitum and fixed consumption). Each subject will test both foods in both conditions.

The test foods vary in intensity (both taste and sweetness). The foods contain soy and dairy. All ingredients are suitable for human consumption and microbiologically safe.

Study burden and risks

The intervention is non-therapeutic to the subject. The risk associated with participation is negligible and the burden can be considered as minimal. Subjects (and/or their parents in the case of the under aged participants) will sign informed consent upon participation.

Contacts

Public

Wageningen Universiteit

Postbus 8129
6700 EV Wageningen
Nederland

Scientific

Wageningen Universiteit

Postbus 8129
6700 EV Wageningen
Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Children (2-11 years)

Elderly (65 years and older)

Inclusion criteria

healthy, BMI between 18.5 and 30

Exclusion criteria

dieting, restrained eaters, allergy to the test foods, use of medication that might influence taste

Study design

Design

Study type:	Observational invasive
Intervention model:	Crossover
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Other

Recruitment

NL	
Recruitment status:	Pending

Start date (anticipated):	01-06-2006
Enrollment:	110
Type:	Anticipated

Ethics review

Approved WMO	
Application type:	First submission
Review commission:	METC Wageningen Universiteit (Wageningen)

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	NL12489.081.06