

# The effect of choice-offering on children's vegetable consumption

**Submission date**  
02/06/2009

**Recruitment status**  
No longer recruiting

☐ Prospectively registered

☐ Protocol

**Registration date**  
31/07/2009

**Overall study status**  
Completed

☐ Statistical analysis plan

☒ Results

**Last Edited**  
25/01/2010

**Condition category**  
Nutritional, Metabolic, Endocrine

☐ Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**  
ABR form NL 25334.081.08

# Study information

## Scientific Title

The effect of choice-offering on children's vegetable consumption: a between-subject randomised controlled trial

## Acronym

KIK-study

## Study objectives

We hypothesise that children's vegetable liking and consumption will be higher in the choice-offering condition compared to the no-choice condition.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

The Medical Ethical Committee of Wageningen University approved on the 16th December 2008 (ref: 08/20)

## Study design

Multicentre between-subject three-arm randomised controlled trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Other

## Study type(s)

Quality of life

## Participant information sheet

Not available in web format, please use the contact details below to request a participant information sheet

## Health condition(s) or problem(s) studied

Healthy eating in children and related health status

## Interventions

Three treatments during a dinner situation:

1. No-choice condition: the child is not allowed to choose; the child is randomly assigned one of the two target vegetables
2. Choice-condition: the child is allowed to choose which of the two target vegetables he or she wants to eat for dinner
3. Variety-condition: the child receives both target vegetables for dinner

Duration of treatment per participant for each arm/condition = 1 day; no follow-up.

## **Intervention Type**

Other

## **Phase**

Not Applicable

## **Primary outcome measure**

Vegetable consumption: consumption will be assessed by subtracting the amount of vegetable left on the plate from the pre-weight, measured after the intervention (post-treatment).

## **Secondary outcome measures**

1. Liking of the vegetables: the children will make a preference rank order for various vegetables, with the use of three categories (smileys) of liking. This preference rank-order will be performed twice. The first time is before the start of the study at school, in order to select the target vegetables. The second rank-order will be performed at the Restaurant of the Future, after the meal, to assess how the offering of the vegetables influences the pleasantness of the vegetables. We focus on the vegetable that the child ate (choose self versus no choice), but also for the vegetable that the child had seen but was not allowed to eat (choose self versus no choice). Measured before and after the intervention (pre + post- treatment).
2. Perceived choice and autonomy: to be able to check if the children experienced more choice when they were in a choice condition, we will ask the children and their parents a few questions related to choice and autonomy (Based on Intrinsic Motivation Inventory). Measured after the intervention (post-treatment).
3. Intrinsic motivation, reactance and experience of meal context: various questions will be asked to understand the process of reactance, the whole meal experience and children's intrinsic motivation. For the children, these questions will be very simple and concrete, so they can answer them reliably. The answers of the parents may help us understand how the child and his /her parent experienced the situation (Based on Intrinsic Motivation Inventory). Measured after the intervention (post-treatment).
4. Consumption of the other meal components: the consumption of potatoes and meat can influence children's vegetable consumption. Consumption will be measured by weighing before and after the meal. Measured after the intervention (post-treatment).
5. Parental consumption: we will measure parental consumption of potatoes, meat and vegetables as a measure of modelling: do parent and child eat similar portions? Do they finish the same items on the plate? Measured after the intervention (post-treatment).

## **Overall study start date**

05/01/2009

## **Completion date**

06/03/2009

# **Eligibility**

## **Key inclusion criteria**

1. Healthy children aged 4 - 6 years old (girls and boys) and their parents
2. Children whose parents signed an informed consent
3. Parents who gave their consent to participate

**Participant type(s)**

Patient

**Age group**

Child

**Lower age limit**

4 Years

**Upper age limit**

6 Years

**Sex**

Both

**Target number of participants**

300

**Key exclusion criteria**

1. Children without signed informed consent of their parents
2. Children with vegetable allergy
3. Children who refuse to eat target vegetables of the study

**Date of first enrolment**

05/01/2009

**Date of final enrolment**

06/03/2009

**Locations****Countries of recruitment**

Netherlands

**Study participating centre**

**Wageningen University**

Wageningen

Netherlands

6700 EV

**Sponsor information****Organisation**

Wageningen University (Netherlands)

## Sponsor details

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## Sponsor type

University/education

## Website

<http://www.wageningenuniversiteit.nl/UK/>

## ROR

<https://ror.org/04qw24q55>

# Funder(s)

## Funder type

University/education

## Funder Name

Wageningen University (Netherlands) - Graduate Schools VLAG and Graduate School Mansholt

# Results and Publications

## Publication and dissemination plan

Not provided at time of registration

## Intention to publish date

## Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	01/02/2010		Yes	No