

The impact of Implementation Intentions (II) in changing complex health-related behaviors in order to prevent weight gain: the case of diet

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Registration date 22/11/2006	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 08/08/2008	Condition category Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Acronym

Diet in Action (Voeding in Actie)

Study objectives

In weight management, avoidance of energy dense (i.e. rich in fat and/or sugar) and choosing energy poor, dietary-fibre-rich food is advocated. Small modifications in intake of energy-dense foods can prevent weight gain and induce modest weight loss. However, even when motivated to make small changes to the diet, it is often difficult to make and maintain these changes. This so-called intention-behaviour gap is likely to be reduced with Implementation Intentions (IIs).

IIs are specific action plans, defining where, and when to perform a particular action. With these action plans people are more likely to turn their intended behaviour into action. Effects of IIs have been found for relatively simple and singular behaviours. The present study will test the effects of implementation intentions for making changes in energy intake, a more complex behaviour. The IIs are added to a computer-tailored advice delivered in web-based format.

Questions addressed in this study are:

1. Can IIs contribute to making actual changes in energy intake?
2. Are IIs better suited to induce new healthy behaviours (e.g. increase intake of low energy products), avoid unhealthy behaviours (e.g. decrease intake of high energy products) or exchange unhealthy practices for healthy ones?
3. Which factors (e.g. cognitions, values, personality traits) distinguish people who put IIs into action from those who do not?

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approval received from local ethics committee (Medisch Ethische Toetsings Commissie, Erasmus MC) on 1 April, 2006 (reference number: MEC 221.141/2002/260).

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Weight management

Interventions

The intervention consisted of a web-based computer-tailored program aiming at reducing calorie intake. In the first part of the program the most important energy sources in the diet were identified based on the answers on an extensive food frequency questionnaire and personal feedback about these energy sources and suggestions to change was provided.

In the second part of the intervention, respondents had to make IIs defining how, where and when to perform a particular action. There were four different versions of the second part of the program; participants were randomly allocated by a computer to one of the conditions:

1. IIs to reduce the intake of high calorie products
2. IIs to replace high calorie products by low calorie products
3. IIs to increase intake of low calorie products
4. Control group, no II

Respondents were exposed to the intervention in a laboratory setting. All the intervention materials were provided once.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Height, weight and waist circumference measured by a trained research assistant. Energy intake (total and of specific food groups) measured by a self-administered validated food frequency questionnaire developed by Wageningen University.

Key secondary outcome(s))

Psychosocial variables.

Completion date

24/05/2006

Eligibility

Key inclusion criteria

1. 18 to 65 years
2. Motivated to work on weight (prevention of weight gain and/or losing weight)
3. Body Mass Index (BMI) more than 25
4. Sufficient understanding of the Dutch language

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

Prescribed diet from dietician or physician

Date of first enrolment

01/09/2005

Date of final enrolment

24/05/2006

Locations

Countries of recruitment

Netherlands

Study participating centre

Erasmus MC, University Medical Center

Rotterdam

Netherlands

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Sponsor information

Organisation

Erasmus Medical Center (Netherlands)

ROR

<https://ror.org/018906e22>

Funder(s)

Funder type

Research organisation

Funder Name

The Netherlands Organization for Health Research and Development (ZonMw) (Netherlands)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration