Dietary proteins and blood pressure-related mechanisms.

No registrations found.

Ethical review	Positive opinion
Status	Pending
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON20220

Source
Nationaal Trial Register

Brief title
AAPRES

Health condition

Hypertension
High blood pressure
Proteins
Hoge bloeddruk
Hypertensie
Eiwitten

Sponsors and support

Primary sponsor: Maastricht University
Source(s) of monetary or material Support: TI Food and Nutrition

Intervention

Outcome measures

Primary outcome

Acute TPR response (derived according to the equation; MAP = CO x TPR) on each clinical investigation day during first 4 hours after consumption of supplements. Mean Arterial Pressure (MAP) and Cardiac Output (CO) will be measured.

Secondary outcome

Acute responses on renal sodium excretion, vasodilating factors and vascular function changes on each clinical investigation day during first four hours after consumption of supplements.

Study description

Background summary

AAPRES is a human intervention study with a randomized crossover design that investigates the acute effects of several dietary proteins on blood pressure-related mechanisms.

Study objective

Different dietary proteins have a different effect on blood pressure-related mechanisms.

Study design

6 clinical investigation days with 1 week wash-out on which every hour postprandial measurements will be performed.

Intervention

First 2 weeks weight maintaining standardized diet (15 en% protein, 30 en% fat and 55 en% carbohydrates). Next 6 weeks weekly clinical investigation days on which the acute postprandial effects of different types of protein supplements and different types of carbohydrate supplements will be investigated.

Contacts

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Eligibility criteria

Inclusion criteria

1. Men and women;

2. BMI 25-35 kg/m2;

3. High normal BP or untreated grade 1 hypertension (SBP 130-159 mm Hg and/or DBP 85-99 mm Hg);

4. Age between 20 - 70 years;

5. No smoking;

6. Stable weight in last 3 months (+/- 2 kg).

Exclusion criteria

1. Presence of urinary protein;

2. eGFR < 60 ml/min/1.73 m2;

3. Fasting glucose > 7 mmol/l;

4. Use of prescription medication that could influence BP or vascular function;

5. Gastrointestinal, cardiovascular, pulmonary, liver or renal disease;

6. Food allergies, a special diet or vegetarian;

7. Unwillingness to stop use of vitamin or dietary supplements.

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Placebo

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-01-2011
Enrollment:	50
Type:	Anticipated

Ethics review

Positive opinion

Date:	07-12-2010
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 36655
Bron: ToetsingOnline
Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL2560
NTR-old	NTR2678
CCMO	NL34527.068.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON36655

Study results

Summary results
N/A