MELC study

No registrations found.

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

Summary

ID

NL-OMON27539

Source
NTR

Brief title
MELC

Health condition

Energy metabolism
Lipid metabolism

Sponsors and support

Primary sponsor: Wageningen University (WUR)
Source(s) of monetary or material Support: FrieslandCampina

Intervention

Outcome measures

Primary outcome

diet-induced thermogenesis

Secondary outcome

lipid profile

chylomicron formation

satiety

Study description

Background summary

Bovine milk fat contains a different triglyceride structure and fatty acid profile compared to vegetable fat. This might influence energy and lipid metabolism differently. The main objective is to investigate whether different fat sources have a different influence on diet-induced thermogenesis.

Study objective

Bovine milk fat contains a different triglyceride structure and fatty acid profile compared to vegetable fat. Therefore, energy metabolism and lipid metabolism might be affected differently by the different fat sources.

Study design

various measurements for 5 hours postprandial

Intervention

high-fat milkshake, containing either vegetable fats or a mixture of bovine milk fat and vegetable fats

Contacts

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Eligibility criteria

Inclusion criteria

Caucasian male

18-28 years old

Body Mass Index: 20-25 kg/m2

Regular consumption of milk (products)

Haemoglobin level >8.4 mmol/L

Exclusion criteria

(symptoms of) cow's milk allergy

lactose intolerance

metabolic diseases

(known symptoms of) (auto)immune diseases, like diabetes

(known symptoms of) gastro-intestinal diseases

cardiovascular diseases

vegetarian/vegan

smoking

usage of over the counter drugs, such as antacids and laxatives

abuse of drugs

consumption of >21 glasses of alcohol per week

more than 5 hours of strenuous exercise (>6.0 METS) every week

high level of restraint eating

claustrophobia

unsuitable veins for blood sampling

blood donation during the two months before the start of the study and during the study

current participation in other scientific studies

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	26-03-2018
Enrollment:	20
Type:	Anticipated

Ethics review

Positive opinion

Date:	12-03-2018
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 46784
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL6896
NTR-old	NTR7083
CCMO	NL63894.081.17
OMON	NL-OMON46784

Study results