Breath Taking!

No registrations found.

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

Summary

ID

NL-OMON27769

Source NTR

Health condition

breath, exhaled air, VOC (volatile organic compound), lipid metabolism, fat

Sponsors and support

Primary sponsor: Wageningen University **Source(s) of monetary or material Support:** Koninklijke FrieslandCampina N.V.

Intervention

Outcome measures

Primary outcome

postprandial change in VOCs (volatile organic compounds) in exhaled air

Secondary outcome

Study description

Background summary

Exhaled air contains large numbers of volatile organic compounds (VOCs) that may be derived from the body's internal metabolism. The main ovjective of this study is to investigate whether it is possible to use VOCs in exhaled air as a parameter of lipid metabolism.

Study objective

Currently, the effects of nutrition or specific food components, including those on absorption or metabolism, are mostly studied via parameters in blood samples. To reduce the burden for participants of nutritional intervention studies, there is a high need for non-invasive methods. Exhaled air contains large numbers of volatile organic compounds (VOCs) that may be derived from the body's internal metabolism. So this might be an interesting, non-invasive parameter.

Study design

various measurements for 5 hours postprandial

Intervention

low-fat milk (0.1% fat) vs high-fat milk (10% fat)

Contacts

Public

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Eligibility criteria

Inclusion criteria

- Caucasian male
- 18-35 years old
- Body mass index between 22-25 kg/m2
- Fat percentage between 8-15%
- Regular consumption of milk (products)

Exclusion criteria

- (symptoms of) cow's milk allergy
- lactose intolerance
- metabolic diseases
- (known symptoms of) (auto)immune diseases, like diabetes

- (known symptoms of) intestinal diseases, like: irritable bowel syndrome, intestinal malabsorption, diagnosed with celiac disease, Chron's disease, coliltis ulcerosa, short bowel syndrome or surgical bowel interventions leading to malabsorption

- usage of medication
- usage or hard drugs
- history of smoking
- claustrophobia
- unsuitable veins for blood sampling
- blood donation during the two months before the start of the study
- current participation in other scientific studies

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Other
Start date (anticipated):	30-05-2016
Enrollment:	12
Туре:	Unknown

Ethics review

Positive opinion	
Date:	20-07-2016
Application type:	First submission

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
NTR-new	NL5819
NTR-old	NTR5974
Other	METC WUR : 16/05

Study results