

Effect of probiotic yoghurt (L. plantarum strain INDUCIA) on healthy volunteers

Submission date 24/01/2011	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 04/03/2011	Overall study status Completed	☐ Statistical analysis plan ☐ Results
Last Edited 07/02/2022	Condition category Digestive System	☐ Individual participant data ☐ 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
199/T6 from 20.12.2010

Study information

Scientific Title
Effect of probiotic yoghurt comprising L. plantarum strain INDUCIA on blood indices and intestinal microflora of healthy volunteers: a randomised controlled crossover trial

Acronym

Study objectives

The consumption of yoghurt containing probiotic *L. plantarum* strain has positive impact on blood indices of healthy volunteers.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Review Committee on Human Research of the University of Tartu approved on the 20th December 2010 (ref: 199/T6)

Primary study design

Interventional

Study design

Randomised double-blind dietary cross-over intervention study

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Blood indices, intestinal microflora

Interventions

The consumption once a day 150 g of probiotic yoghurt versus regular yoghurt for 3 weeks. Probiotic yoghurt containing either *Lactobacillus plantarum* strain INDUCIA (10^9 colony forming units [CFU]/g) After two-week washout period, volunteers are crossed over to another three weeks of probiotic yoghurt or control yoghurt administration. Fasting blood samples are collected.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

1. The health indices of study participants (weight, body mass index, blood pressure) assessed at the recruitment, after 3 weeks of probiotic treatment, after washout and after 3-week placebo treatment
2. The self-reported questionnaire containing questions on welfare, and habitual gastrointestinal symptoms (abdominal pain, flatulence, bloating, and stool frequency), measured once a week during the trial
3. Haematological indices (haemoglobin, white blood cell count, red blood cells, platelets), plasma glucose, albumin, total cholesterol, LDL-cholesterol, HDL-cholesterol, triglycerides, hs-CRP and IL-6 measured at the recruitment, after 3 weeks of probiotic treatment, after washout and after 3-week placebo treatment

Key secondary outcome(s)

Circulation of polyamines in host

Completion date

04/04/2011

Eligibility

Key inclusion criteria

1. Wish to participate in the study
2. Aged 18 years and over, either sex
3. Healthy (i.e. no known health problems and no medical conditions that require drug therapy)
4. Signed informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 Years

Sex

All

Key exclusion criteria

1. History of any gastrointestinal disease
2. Use of any antimicrobial drug within last month
3. Use of any regular concomitant medication, including medical preparations
4. Food allergy
5. Pregnancy or breastfeeding

Date of first enrolment

07/02/2011

Date of final enrolment

04/04/2011

Locations

Countries of recruitment

Estonia

Study participating centre

Ravila 19

Tartu

Estonia

50411

Sponsor information

Organisation

BioCC OÜ

Funder(s)

Funder type

Industry

Funder Name

Bio-Competence Centre of Healthy Dairy Products LLC (Estonia)

Results and Publications

Individual participant data (IPD) sharing plan

Not provided at time of registration

IPD sharing plan summary

Not provided at time of registration