ISRCTN91680999 https://doi.org/10.1186/ISRCTN91680999

Effects of omega-7 sea buckthorn oil capsule on mucous membranes of post-menopausal women [omega 7-tyrniöljykapseleiden käyttö vaihdevuosioireiden, emättimen ja muiden limakalvojen kuivuuden ja virtsatieoireiden hoidossa]

Submission date
15/08/2008

Recruitment status
No longer recruiting

Registration date
21/08/2008

Overall study status
Completed

Last Edited
21/08/2008

Condition category
Urological and Genital Diseases

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[_] Results
[_] 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
SBRE2008

Study information

Scientific Title

Acronym
SBMUCOS2008

Study objectives
Increased oxidative stress to the secretion glands and the cells of mucous membranes is part of the mechanism of ageing-related dryness and inflammation in the mucous membranes of female subjects. Sea buckthorn oil supports the health of mucous membranes by supplying the body with lipid nutrients required for maintaining the structure and function and for regeneration of mucous membranes. High content of antioxidants in sea buckthorn oil will increase the antioxidant capacity and reduce lipid peroxidation of plasma. Supplementation with sea buckthorn oil will decrease the plasma C-reactive protein (CRP) level indicating reduced inflammation in the body.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Ethics approval received from the Ethical Committee of the Hospital District of Southwest Finland on the 5th August 2008 (ref: 7/2008 § 254).

Primary study design
Interventional

Study design
A randomised, double blind, placebo-controlled, single-centre parallel study

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Mucosa membrane dryness

Interventions
Group one: omega 7 capsules 2 x 2 capsules per day for 4 months
Group two: placebo capsules (medium chain triglycerides), 2 x 2 capsules per day for 4 months

Intervention Type
Drug

Phase
Not Specified

Drug/device/biological/vaccine name(s)
Sea buckthorn oil

Primary outcome(s)
1. Dryness, itching, pain, burning and/or inflammation in the mucosa of the genital tract at baseline, after one and four months of supplementation
2. Vaginal PH at baseline, after one and four months of supplementation
3. Maturation index of vaginal mucosa at baseline, after one and four months of supplementation

Key secondary outcome(s)
1. Plasma total anoxidative capacity at baseline, after one and four months of supplementation
2. Plasma isoprostane level at baseline, after one and four months of supplementation
3. Plasma C-reactive protein level at baseline, after one and four months of supplementation

Completion date
30/03/2009

Eligibility

Key inclusion criteria
1. Healthy post-menopausal females aged 55 - 70 years
2. Dryness, itching, pain, burning and/or inflammation in the mucosa of the genital tract
3. Problem of the genital tract mucosa shall not have clear association with severe diseases

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Senior

Sex
All

Key exclusion criteria
1. Severe diseases and/or receiving systematic medications such as hormone replacement therapy, anti-inflammatory and cholesterol lowering drugs
2. Diabetes
3. Hormonal, renal, haematological, or hepatic dysfunction

Date of first enrolment
18/08/2008

Date of final enrolment
30/03/2009

Locations

Countries of recruitment
Finland

Study participating centre
Aromtech Ltd
Turku
Finland
20520

Sponsor information

Organisation
Turku University Central Hospital (Finland)

ROR
https://ror.org/05dbzj528

Funder(s)

Funder type
Government

Funder Name
Finnish Funding Agency for Technology and Innovation (TEKES) (Finland)

Funder Name
Aromtech Ltd (Finland)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration