# Blackcurrant juice study: a study to investigate the biokinetics and effects of a blackcurrant juice on endothelial function

Submission date	Recruitment status  No longer recruiting	Prospectively registered	
06/08/2010		Protocol	
Registration date	Overall study status	Statistical analysis plan	
18/08/2010	Completed	[X] Results	
Last Edited	Condition category	[] Individual participant data	
14/11/2011	Nutritional. Metabolic. Endocrine		

## Plain English summary of protocol

Not provided at time of registration

# Contact information

## Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

Protocol serial number RDGJUICE08

# Study information

#### Scientific Title

A double blind, randomised, placebo controlled, cross-over study to investigate the biokinetics and effects of a blackcurrant juice on endothelial function

#### **Study objectives**

Consumption of 250 ml of a 20% blackcurrant juice drink provides phytochemicals that are absorbed and improve endothelial function in an acute study

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

The Research Ethics Committee of the University of Reading approved on the 12th of July 2007 (ref: Project 07/26)

#### Study design

Randomised double blind placebo controlled crossover acute meal study

#### Primary study design

Interventional

#### Study type(s)

Quality of life

#### Health condition(s) or problem(s) studied

Absorption of phytochemicals and effects on endothelial function

#### Interventions

One dose of 250 ml of a 20% blackcurrant juice drink in comparison with a control drink lacking flavonoids.

The washout period between the intervention and control dose was 1 month.

#### Intervention Type

Other

#### Phase

**Not Specified** 

#### Primary outcome(s)

Endothelial function/vascular reactivity assessed by laser doppler iontophoresis at 0 and 120 minutes.

#### Key secondary outcome(s))

Phytochemical composition (phenolic acids and flavonoids) of plasma and urine was measured at 0.5 hour intervals for the first 4 hours, then 1 hour intervals up to 8 hours. A 24 hour urine sample was also analysed.

#### Completion date

05/06/2008

# **Eligibility**

#### Key inclusion criteria

- 1. Men and women between the ages of 30-70 years
- 2. Normal weight
- 3. Drink no more than 15 units of alcohol (i.e. not more than 7 pints) per week
- 4. Not regularly undertaking vigorous exercise or fitness training (i.e. not more than 3, 20 minute aerobic sessions per week)

#### Participant type(s)

Patient

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Sex

All

#### Key exclusion criteria

- 1. Diabetes
- 2. Heart disease
- 3. Gall bladder problems
- 4. Phenylketonuria (PKU)
- 5. Known food allergies or intolerances or abnormalities of fat metabolism
- 6. Trying to lose weight or following other diets
- 7. Taking dietary supplements
- 8. Hormone abnormalities or liver disease
- 9. Regularly use certain types of medication
- 10. Pregnant, lactating or, if female and of reproductive age, not using a reliable form of contraception (including abstinence)

#### Date of first enrolment

04/12/2007

#### Date of final enrolment

05/06/2008

# Locations

#### Countries of recruitment

United Kingdom

England

#### Study participating centre

**Hugh Sinclair Unit of Human Nutrition,** Reading United Kingdom RG6 6AP

# Sponsor information

## Organisation

GlaxoSmithKline Nutritional Healthcare (UK)

#### ROR

https://ror.org/01xsqw823

# Funder(s)

## Funder type

Industry

#### Funder Name

SmithKline Beecham plc (UK)

# **Results and Publications**

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type	Details	Date created Date added	Peer reviewed?	Patient-facing?
Results article	results	01/07/2011	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2025	No	Yes