

# Immune effects of acidic and neutral oligosaccharides in the nutrition of preterm infants: CARROT study

<b>Submission date</b> 08/02/2007	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
		<input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 08/02/2007	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
<b>Last Edited</b> 06/05/2014	<b>Condition category</b> Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

### Contact name

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## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

## Study information

### Scientific Title

### Acronym

CARROT study

### Study objectives

Acidic and neutral oligosaccharides supplemented enteral nutrition has a positive effect on infectious morbidity, modulation of the immune response, postnatal adaptation of the gut, feeding tolerance and short-term outcome in Very Low Birth Weight (VLBW) infants.  
2006 literature review on <http://www.ncbi.nlm.nih.gov/pubmed/16677741>.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Medical Ethics Committee VU Medical Centre, 15/02/2007

### Study design

Randomised placebo-controlled factorial double-blinded trial

### Primary study design

Interventional

### Secondary study design

Randomised controlled trial

### Study setting(s)

Not specified

### Study type(s)

Treatment

### Participant information sheet

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

Prebiotics, gastrointestinal tract, preterm infants, immune effects

### Interventions

Enteral supplementation of acidic and neutral oligosaccharides (20%/80% mixture) in a maximum dose of 1.5 g/kg/day during the first month of life.

### Intervention Type

Supplement

### Phase

Not Specified

**Drug/device/biological/vaccine name(s)**

Enteral supplementation of acidic and neutral oligosaccharides

**Primary outcome measure**

1. The effect of acidic and neutral oligosaccharides supplemented enteral feeding on infectious morbidity
2. The incidence of serious infections, using the previously described criteria for serious infections in preterm infants at high risk for serious infections, are prospectively documented from birth until discharge home

**Secondary outcome measures**

The effect of acidic and neutral oligosaccharides supplemented enteral nutrition on feeding tolerance, short-term outcome, postnatal adaptation of the gut and modulation of the immune response

**Overall study start date**

01/04/2007

**Completion date**

01/04/2010

## **Eligibility**

**Key inclusion criteria**

Infants born with a gestational age of less than 32 weeks and/or a birthweight of less than 1500g

**Participant type(s)**

Patient

**Age group**

Neonate

**Sex**

Not Specified

**Target number of participants**

108

**Key exclusion criteria**

1. Severe congenital disorders, like cardiac disorders, syndromal disorders, immunodeficiency disorders
2. Congenital disorders of the gastrointestinal tract

**Date of first enrolment**

01/04/2007

**Date of final enrolment**

01/04/2010

# Locations

## Countries of recruitment

Netherlands

## Study participating centre

VU University Medical Centre

Amsterdam

Netherlands

1007 MB

# Sponsor information

## Organisation

VU University Medical Centre (VUMC) (Netherlands)

## Sponsor details

Department of Paediatrics and Neonatology

De Boelelaan 1117

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+31 (0)20 444 4444

w.fetter@vumc.nl

## Sponsor type

Hospital/treatment centre

## Website

<http://www.vumc.nl/english/#http://www.vumc.nl/english/>

## ROR

<https://ror.org/00q6h8f30>

# Funder(s)

## Funder type

Industry

## Funder Name

Numico Research B.V. (Netherlands)

# Results and Publications

## Publication and dissemination plan

Not provided at time of registration

## Intention to publish date

## 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?
<a href="#">Protocol article</a>	protocol	23/10/2008		Yes	No
<a href="#">Results article</a>	results	01/03/2010		Yes	No
<a href="#">Results article</a>	external supplementation results	01/01/2011		Yes	No
<a href="#">Results article</a>	results	08/08/2013		Yes	No