# Relationship between maternal diet, breast milk composition and offspring's microbiome and nutritional status in Malaysia

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Observational non invasive

# **Summary**

### ID

**NL-OMON20005** 

Source NTR

#### **Health condition**

maternal diet; breast milk composition; infants; microbiome

### **Sponsors and support**

**Primary sponsor:** International Medical University **Source(s) of monetary or material Support:** FrieslandCampina

### Intervention

### **Outcome measures**

#### **Primary outcome**

link(s) between maternal diet and breast milk composition

#### Secondary outcome

1 - Relationship between maternal diet, breast milk composition and offspring's micr ... 4-05-2025

# **Study description**

#### **Background summary**

It is well established that breast milk composition differs from mother to mother. There is compiling evidence that the maternal diet (life long and short term) has an enormous effect on breast milk composition. Since breast milk is a strong determinant for the type of intestinal microbiome to develop in the infant during the breastfeeding period, and this developed microbiome is considered to have a relevant impact on the microbiome at older age, this study will examine faecal samples from the breast fed infants. As maternal diet exerts a strong influence on the composition of breast milk and the child's intestinal microbiome, maternal and child dietary intakes will be investigated.

#### **Study objective**

Does maternal diet influence the child's intestinal microbiome via breast milk?

#### Study design

Each mother-infant couple will be included for 4-6 weeks. There will be 3 collections time points: t1=0, t2=2-3 weeks, and t3=5-6 weeks.

#### Intervention

Breast milk samples will be collected at three different times and will be analyzed for minerals, vitamins, protein, fat, lactose and fiber.

Fecal samples for metabolic profiling will be collected from the infant around the same period of the breast milk collection.

Info on dietary intake of the mother will be collected through food frequency questionnaire and a 24 h food recall interview. Weight, length, and head circumference of the infant will be measured.

# Contacts

#### Public

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2 - Relationship between maternal diet, breast milk composition and offspring's micr ... 4-05-2025

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# **Eligibility criteria**

### **Inclusion criteria**

Malay mothers aged 20-40 yr of Middle economic status who are Breastfeeding infants (from 2 wks onwards) Preferably exclusive breastfeeding

### **Exclusion criteria**

Non-Malay III during breastmilk collection Mothers on a special diet

# Study design

# Design

Study type:Observational non invasiveIntervention model:ParallelAllocation:Non controlled trialControl: N/A , unknownVariable

### Recruitment

NL Recruitment status: Recruiting Start date (anticipated): 01-09-2013

3 - Relationship between maternal diet, breast milk composition and offspring's micr ... 4-05-2025

Enrollment:

Type:

40 Anticipated

# **Ethics review**

Positive opinion	
Date:	21-01-2014
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	NL4268
NTR-old	NTR4404
Other	: P827776

# **Study results**