

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

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

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON20005

Bron

NTR

Aandoening

maternal diet; breast milk composition; infants; microbiome

Ondersteuning

Primaire sponsor: International Medical University

Overige ondersteuning: FrieslandCampina

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

link(s) between maternal diet and breast milk composition

Toelichting onderzoek

Achtergrond van het onderzoek

It is well established that breast milk composition differs from mother to mother. There is compelling 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.

Doel van het onderzoek

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

Onderzoeksopzet

Each mother-infant couple will be included for 4-6 weeks. There will be 3 collections time points: $t_1=0$, $t_2=2-3$ weeks, and $t_3=5-6$ weeks.

Onderzoeksproduct en/of interventie

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.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

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

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

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

Onderzoeksopzet

Opzet

Type: Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel: Parallel
Toewijzing: N.v.t. / één studie arm
Controle: N.v.t. / onbekend

Deelname

Nederland
Status: Werving gestart

(Verwachte) startdatum: 01-09-2013
Aantal proefpersonen: 40
Type: Verwachte startdatum

Ethische beoordeling

Positief advies
Datum: 21-01-2014
Soort: Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4268
NTR-old	NTR4404
Ander register	: P827776

Resultaten