

# The effect of isomaltulose enriched and mineral and vitamin fortified growing-up milk on cognitive performance in young children (5-6 years old).

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Isomaltulose reduces the decline in working memory and attention span in older children. This reduction in decline is also seen when lower amounts of isomaltulose are combined with a mix of minerals and vitamins.

<b>Ethische beoordeling</b>	Positief advies
<b>Status</b>	Werving gestart
<b>Type aandoening</b>	-
<b>Onderzoekstype</b>	Interventie onderzoek

## Samenvatting

### ID

NL-OMON25200

### Bron

NTR

### Aandoening

memory, attention span.

### Ondersteuning

**Primaire sponsor:** Fakultas Kedokteran Universitas Indonesia

Dept of Child Health Medical School

Jl Salemba Raya 6

Jakarta Pusat

Indonesia

**Overige ondersteuning:** FrieslandCampina

P. Stuyvesantweg 1

8937 AC Leeuwarden

The Netherlands

## Onderzoeksproduct en/of interventie

### Uitkomstmaten

#### Primaire uitkomstmaten

Scores on memory and attention span during the first 180 minutes following the consumption of the test product.

## Toelichting onderzoek

#### Achtergrond van het onderzoek

There is much evidence to support positive effects of breakfast on cognitive performance of children. Sofar this is especially related to the glycemic index of the meals, the carbohydrates in particular. This study intends to show the particular acute effect of two doses of isomaltulose (5 and 2.5 g per serving), with a glycemic index of 32, as added to minerals and vitamins enriched growing up milk on cognitive performance (working memory and attention span in particular). The study will be performed in indonesian children aged 5-6 years recruited in Jakarta.

#### Doeleinden van het onderzoek

Isomaltulose reduces the decline in working memory and attention span in older children.

This reduction in decline is also seen when lower amounts of isomaltulose are combined with a mix of minerals and vitamins.

#### Onderzoeksopzet

Cognitive performance tests will be done at baseline and 60, 120 and 180 minutes postdose. Cognitive performance tests will be done on the last day of the intervention period.

The cognitive performance is measured by the CDR System, a cognitive performance test battery, from United Biosource Corporation, Wayne, USA.

## Onderzoeksproduct en/of interventie

1. A: Regular Growing up milk (GUM);

2 - The effect of isomaltulose enriched and mineral and vitamin fortified growing-up ... 5-05-2025

2. B: A + Isomaltulose;
3. C: A + Isomaltulose and lowered protein;
4. D: A + Isomaltulose (half the dose of B) + mix of vitamins and minerals.

Each test product will be consumed for 14 days.

## Contactpersonen

### Publiek

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### Wetenschappelijk

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## Deelname eisen

### Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Normal score on Wechsler Scales;
2. Hb within the normal range;
3. Average height;
4. Normal body weight;

5. Normal dietary pattern (food questionnaire);
6. Regular and easy milk consumption (2\*200 ml per day).

## **Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)**

Symptoms of or diagnosed for allergy, chronic infections, thyroid disorders, diabetes or lactose intolerance, and mental disturbances or retarded development.

## **Onderzoeksopzet**

### **Opzet**

Type:	Interventie onderzoek
Onderzoeksmodel:	Cross-over
Toewijzing:	Gerandomiseerd
Blindering:	Dubbelblind
Controle:	Placebo

### **Deelname**

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-06-2010
Aantal proefpersonen:	50
Type:	Verwachte startdatum

## **Ethische beoordeling**

Positief advies	
Datum:	04-05-2010
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	NL2189
NTR-old	NTR2313
Ander register	FrieslandCampina Innovation International : Nutr-AS-002-2010
ISRCTN	ISRCTN wordt niet meer aangevraagd.

# Resultaten

## Samenvatting resultaten

N/A