

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

Gepubliceerd: 04-05-2010 Laatste bijgewerkt: 18-08-2022

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.

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON25200

Bron

Nationaal Trial Register

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. So far 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.

Doel 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 ... 29-05-2025

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
Blinding:	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