# The role and effect of limited formula use on breastfeeding and its discontinuation

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
26/08/2015		[X] Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
07/09/2015		[X] Results		
Last Edited	Condition category	[X] Individual participant data		
10/10/2023	Other			

## Plain English summary of protocol

Background and study aims

It has long been thought that breastfeeding is the best way to feed new babies, as it provides hormones and disease-fighting substances that protect babies from illness. Producing enough milk for a new baby puts a great deal of strain on the mother's body and, often, new mothers are often unable to produce enough milk to meet all of their baby's needs during the first few months after birth. Breast milk is therefore sometimes accompanied with small amounts of formula, in order to make sure that babies are gaining enough weight. The pros and cons of supplementing breast milk with formula are widely debated, as some experts believe that bottle-feeding too early can lead to babies refusing to breastfeed. This study aims to find out whether giving babies very small amounts of formula at the same time as breast feeding will have an effect on the amount of babies who are being breastfed in the short and long term.

#### Who can participate?

Healthy babies with a normal birth weight, whose mothers are planning on breast feeding for a long time.

### What does the study involve?

Mother and infant pairs are randomly allocated into two groups. The babies in the first group (intervention group) are given a set volume of 10ml of formula after each breastfeed until the mother is able to produce enough milk. The babies in the second group (control group) are exclusively breastfed, and receive no additional formula, unless the baby has lost more than 10% of its body weight since birth, is irritable, or if the mother specifically requests that the baby receive extra formula. Information about the babies' feeding habits, as well as any weight changes are recorded by a nurse at 3 and 6 months after birth.

### What are the possible benefits and risks of participating?

Comparing the two groups will help to find out if giving controlled amounts of formula may help support mothers and their babies in establishing breastfeeding and keeping the rates of breastfeeding up in longer term (3 months and 6 months). There are no known risks to participating as the comparison is with a standard approach to breastfeeding and formula feeding during hospitalisation after birth.

Where is the study run from? Institute for the Care of Mother and Child (Czech Republic)

When is the study starting and how long is it expected to run for? December 2013 to June 2015

Who is funding the study?
The Charles University Research Development Schemes (Czech Republic)

Who is the main contact? Professor Zbynek Stranak

## Contact information

## Type(s)

Scientific

#### Contact name

Prof Zbynek Stranak

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#### Contact details

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# Additional identifiers

Clinical Trials Information System (CTIS)

Nil known

ClinicalTrials.gov (NCT)

Nil known

Protocol serial number

Nil known

# Study information

#### Scientific Title

A prospective, randomized trial comparing the use of controlled limited formula (CLF) to a standard approach (SA) for efficiency and duration of breastfeeding in neonates

## **Study objectives**

We hypothesize that early limited formula feeds in infants with early weight loss will not adversely affect the rate of breastfeeding in the short and long term.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Institute for the Care of Mother and Child, 19/12/2013, ref: 2013-12-19-3

## Study design

Single-centre randomized controlled trial

## Primary study design

Interventional

## Study type(s)

Other

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

Breastfeeding

#### **Interventions**

Infants in the CLF group (intervention group) are given a set volume of 10 ml of formula after each breastfeed until adequate milk production begins. Infants in the SA group (control group) are exclusively breastfed. In the SA group supplemental feeds are administered only in indicated cases (excessive weight loss of more than 10%, irritability of the newborn and on the mother's specific request).

Duration of intervention: formula administration from enrolment (see inclusion criteria) until the onset of lactation.

Follow-up for all treatment arms is the same: at point of discharge, at 3 months and at 6 months of the infant's age

## Intervention Type

Other

## Primary outcome(s)

Breastfeeding rate at 3 month of age (value: Yes or No or to some extent)

## Key secondary outcome(s))

- 1. Exclusive breastfeeding at 3 months of age (value: Yes or Not)
- 2. Breastfeeding at 6 months of age (value: Yes or No or to some extent)
- 3. Exclusive breastfeeding at 6 months of age (value: Yes or Not)
- 4. Weight loss the loss of weight during birth hospitalization (calculated as actual weight/birth weight x 100)
- 5. Weight loss the loss of weight during birth hospitalization (calculated as actual weight/birth weight x 100)

## Completion date

01/06/2015

# **Eligibility**

## Key inclusion criteria

- 1. Healthy term neonates with weight loss ≥5 per cent between 24th and 48th hour of life
- 2. Singleton
- 3. Eutrophic with birth weight between 2500 4000 grams
- 4. Born after uncomplicated pregnancy and delivery
- 5. No severe congenital defects
- 6. Mothers are planning to breastfeed for a long time

## Participant type(s)

**Patient** 

## Healthy volunteers allowed

No

## Age group

Neonate

## Lower age limit

1 days

## Upper age limit

2 days

### Sex

All

## Key exclusion criteria

- 1. Mother-infant pairs with serious maternal complications (hypertension, diabetes, systemic diseases, drug abuse)
- 2. Mothers using therapy that might affect breastfeeding, e.g. antidepressants

### Date of first enrolment

01/01/2014

#### Date of final enrolment

01/12/2014

## Locations

### Countries of recruitment

Czech Republic

# Study participating centre Institute for the Care of Mother and Child

Podolske nabrezi 157 Prague Czech Republic 147 00

# Sponsor information

## Organisation

Institute for the Care of Mother and Child

#### **ROR**

https://ror.org/03zd7qx32

# Funder(s)

## Funder type

University/education

## Funder Name

The Charles University Research Development Schemes (PRVOUK32)

## **Results and Publications**

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Stored in publicly available repository

## **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	26/02/2016		Yes	No
<u>Dataset</u>		26/02/2016			No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Protocol (other)		26/02/2016	10/10/2023	No	No