# Effects of feeding during the first months of life in post-natal health in babies born small for gestational age (SGA)

Recruitment status	<ul><li>Prospectively registered</li></ul>
No longer recruiting	Protocol
Overall study status	Statistical analysis plan
Completed	Results
Condition category	[] Individual participant data
Pregnancy and Childbirth	<ul><li>Record updated in last year</li></ul>
	Overall study status Completed Condition category

# Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

Prof Lourdes Ibanez

#### Contact details

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# Additional identifiers

**EudraCT/CTIS** number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

# Study information

#### Scientific Title

Influence of early feeding in subsequent cardiovascular risks in infants born small for gestational age: a randomised controlled trial

#### **Acronym**

**PSO** 

#### Study objectives

- 1. Breastfed small for gestational age (SGA) babies will gain more lean mass and less fat mass over the first 4 months of life
- 2. SGA babies will have more vsiceral fat at age 24 months as compared to babies born appropriate for gestational age (AGA)
- 3. SGA babies fed enriched formula will be more insulin resistant, have higher levels of insulinlike growth factor 1 (IGF-1) and altered levels of adipokines, as compared to breastfed SGA babies and SGA babies fed with regular formula

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Committee of Hospital Sant Joan de Déu, Esplugues have given approval on the 15th May 2008

#### Study design

Randomised controlled trial

## Primary study design

Interventional

# Secondary study design

Randomised controlled trial

# Study setting(s)

Hospital

# Study type(s)

Quality of life

#### Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

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

Small for gestational age (SGA), adipokines, cardiovascular risk factors

#### Interventions

Newborns born SGA who will not be breastfed will be randomised to receive a regular or an enriched formula for 4 months. Assessments at birth, 15 days, 4, 12 and 24 months (sampling, dual energy X-ray absorptiometry [DXA] and ultrasound).

Regular formula: Fat: 28.9 g%; carhohydrates: 55.0 g%; proteins: 11.7 g% Enriched formula: Fat: 24.7 g%; carbohydrates: 54.9 g%; proteins: 14.5 g% Feeding is ad libitum and following the recommendations of the primary care paediatricians. This is usually every 3 hours the first month, and every 4 hours thereafter. No additional food is allowed until after month 4.

#### Intervention Type

Other

#### Phase

Not Applicable

#### Primary outcome measure

Body composition at age 15 days and at age 4, 12 and 24 months (DXA).

### Secondary outcome measures

- 1. Insulin
- 2. IGF-1
- 3. Adipokines
- 4. Visceral fat

Measured in cord blood, and in fasting samples at age 4, 12 and 24 months.

#### Overall study start date

10/06/2008

#### Completion date

10/08/2010

# **Eligibility**

#### Key inclusion criteria

- 1. Maternally uncomplicated pregnancy (no gestational diabetes, no pre-eclampsia, no use of alcohol, drugs or illicit substances), with delivery at Hospital Sant Joan de Déu in Barcelona
- 2. Birthweight AGA (between -1 and +1 SD) or SGA (between 1.8 kg and -2 SD) after a term gestation (37 42 weeks)
- 3. Availability of cord serum
- 4. Ethnically Catalan background

#### Participant type(s)

Patient

#### Age group

Neonate

#### Sex

#### Both

# Target number of participants

90 (SGA), 50 (AGA)

# Key exclusion criteria

- 1. Dysmorphic features
- 2. 10-minute Apgar score below 7

## Date of first enrolment

10/06/2008

#### Date of final enrolment

10/08/2010

# Locations

#### Countries of recruitment

Spain

# Study participating centre

Endocrinology Unit

ESplugues Spain 08950

# Sponsor information

## Organisation

Hospital Sant Joan de Deu (Spain)

# Sponsor details

Passeig de Sant Joan de Deu 2 Esplugues Spain 08950 +34 93 28 04 000 libanez@hsjdbcn.org

#### Sponsor type

Hospital/treatment centre

#### Website

http://www.hsjdbcn.org/index.jsp

#### **ROR**

https://ror.org/001jx2139

# Funder(s)

#### Funder type

Research organisation

#### Funder Name

The Carlos III Health Institute (Instituto de Salud Carlos III) (Spain) (ref: PI080443)

# **Results and Publications**

## Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration