

Irostat.

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON22896

Source

NTR

Brief title

Irostat

Health condition

iron deficiency
iron deficiency anaemia
young healthy children from the Netherlands

Sponsors and support

Primary sponsor: Haga ziekenhuis / Juliana Kinderziekenhuis

Source(s) of monetary or material Support: Haga ziekenhuis / Juliana Kinderziekenhuis

Intervention

Outcome measures

Primary outcome

1. Iron status;
2. Serum haemoglobin;
3. Mean cell volume and serum ferritin;

4. Reticulocyte hemoglobin content.

Secondary outcome

To define whether following factors contribute to iron deficiency during childhood:

1. Iron status at birth (maternal iron status/anaemia, smoking during pregnancy, preeclampsia, lower gestational age and lower birth weight);
2. Postnatal needs for iron (more rapid growth);
3. Bioavailable iron (more cow milk);
4. Sex;
5. Ethnicity (European versus non-European);
6. Socioeconomic status;
7. BMI;
8. Attending day-care.

Study description

Background summary

Rationale:

No data are available about the iron status of children in the Netherlands. Recently a large food consumption survey showed low iron intake among these children. Our hypothesis is that the iron status in young healthy children from the Netherlands might be insufficient.

Objective:

To assess the iron status in young healthy children living in the Netherlands.

Study design:

National, multi centre, descriptive, observational study.

Study population:

Healthy children living in the Netherlands aged 0,5-3 years old undergoing elective surgery.

Intervention:

During insertion of a peripheral intravenous catheter, 2 cc of whole blood will be collected for analysis of the iron status. Demographic, dietary and medical information will be collected.

Main study parameters/endpoints:

Serum haemoglobin, mean cell volume and serum ferritin and reticulocyte hemoglobin content.

13-02-2013: Additional information:

In the same blood sample obtained for assessment of the iron status we additionally assessed hepcidin and transferrin receptor to get more insight in the iron status.

Study objective

Our hypothesis is that the iron status in young healthy children from the Netherlands might be insufficient.

Study design

During insertion of a peripheral intravenous catheter, 2 cc of whole blood will be collected for analysis of the iron status.

Intervention

During insertion of a peripheral intravenous catheter, 2 cc of whole blood will be collected for analysis of the iron status. Demographic, dietary and medical information will be collected.

Contacts

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Eligibility criteria

Inclusion criteria

1. Male and female subjects, aged 6-36 months undergoing elective surgery;
2. General anaesthesia induced by intravenous injection;
3. Stable health status and expected to remain stable;
4. Written informed consent from parents/guardian.

Exclusion criteria

1. Known infection in the last 4 weeks;
2. Oncologic disorder;
3. Acute or chronic illness;
4. Congenital malformations;
5. Chronic or inherited metabolic disease;
6. Premature at birth (<32 weeks);
7. Hemoglobinopathies;
8. Use of iron supplementation less than 6 weeks prior to operation;
9. Blood transfusion in the last 6 months.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Factorial
Allocation:	Non controlled trial
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-01-2011
Enrollment:	400
Type:	Actual

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Positive opinion	
Date:	02-12-2010
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL2516
NTR-old	NTR2634
Other	METC : 2010-284
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results

N/A