Nifedipine versus Atosiban in the treatment of threatened preterm labour: APOSTEL III.

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON20652

Source NTR

Brief title APOSTEL III

Health condition

Tocolysis Atosiban Nifedipine Preterm Labour

Tocolyse Vroeggeboorte

Sponsors and support

Primary sponsor: AMC Amsterdam **Source(s) of monetary or material Support:** Consortium for women's health and reproductivity studies Obstetric research consortium AMC

Intervention

Outcome measures

Primary outcome

The primary outcome measure will be a composite poor neonatal outcome, including broncho pulmonary dysplasia (BPD), periventricular leucomalacia (PVL) > grade 1, intracerebral haemorrhage > grade 2, necrotising enterocolitis (NEC) > stage 1, proven sepsis and inhospital death.

Secondary outcome

Secondary outcomes will be time to delivery, gestational age at delivery, number of days on ventilation support, in NICU, total days of the baby alive outside the hospital counted from a gestational age of 37 weeks and maternal side effects.

Study description

Background summary

Rationale:

Preterm labour is one of the most important obstetric problems throughout the Western world and occurs in approximately 10% of all deliveries. Preterm birth is the leading cause of perinatal mortality (70 %) and accounts for 40 % of severe neurological morbidity. Tocolysis for a period of two days is crucial in the treatment of threatened preterm labour, in order to allow for corticosteroids to exert their optimal effect on fetal lung development. The optimal tocolytic drug however, is subject to controversy. We hypothesize that Nifedipine as compared to Atosiban will result in an improved neonatal outcome.

Objective:

To compare the effectiveness of the tocolytic agents Nifedipine (a calcium channel blocking agent) versus Atosiban (an oxytocin receptor antagonist) in the improvement of neonatal outcome in women with threatened preterm labour (25-34 weeks gestation).

Study design:

Multicenter randomized controlled trial.

Study population:

500 pregnant women with threatened preterm labour between 25 and 34 weeks gestational age.

Intervention:

Nifedipine (dosage: 4 dd 20 mg orally for 48 hours) versus Atosiban (dosage: bolus injection of 6,75 mg i.v. in 1 minute, followed by 18 mg/hour for 3 hours followed by a maintenance dosage of 6 mg/hour for 45 hours) for 48 hours.

Main study parameters/endpoints:

The primary outcome measure will be a composite poor neonatal outcome, including broncho pulmonary dysplasia (BPD), periventricular leucomalacia (PVL) > grade 1, intracerebral haemorrhage > grade 2, necrotising enterocolitis (NEC) > stage 1, proven sepsis and inhospital death.

Secondary outcomes will be time to delivery, gestational age at delivery, number of days on ventilation support, in NICU and total days of the baby alive outside the hospital counted from a gestational age of 37 weeks and maternal side effects.

Nature and extent of the burden and risks associated with participation, benefit and group relatedness:

As we compare two strategies that are already applied in current practice, no additional risks or burden are expected from the study.

Study objective

The aim of the study is to compare the effectiveness of tocolysis with Nifedipine or Atosiban in pregnant women with threatened preterm labour with a gestational age between 25 – 34 weeks. We will look at neonatal mortality and morbidity, duration of pregnancy and to maternal side effects.

Study design

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The outcomes will be registered at time of discharge home or at 36 weeks of corrected GA in case of BPD.

Intervention

1. In the Nifedipine group, the initial dose will be 20 mg orally in the first hour, followed by 20 mg per 6 hours for the next 47 hours;

2. In the Atosiban group, a Bolus injection of 6,75 mg i.v. in 1 minute, followed by a 18 mg/hour for 3 hours followed by a maintenance dosage of 6 mg/hour for 45 hours.

Contacts

Public

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Eligibility criteria

Inclusion criteria

Women \geq 18 years old with a singleton pregnancy with a gestational age of 25-34 weeks in threatened preterm labour, as defined by:

Uterine contractions, at least 3 contractions per 30 minutes, and one of the following:

- 1. Cervical length of \leq 10 mm ór;
- 2. Cervical length of 11-30 mm ánd a positive Fibronectin test ór;
- 3. Ruptured amniotic membranes.

Exclusion criteria

- 1. Vaginal bleeding;
- 2. Cerclage;
- 3. Cervical dilatation > 30 mm;
- 4. Previous treatment for preterm contractions;
- 5. Hypertension / anti-hypertensiva;
- 6. Myocard infarction (<1 month);
- 7. Unstable angina pectoris.

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	21-06-2011
Enrollment:	500
Туре:	Actual

Ethics review

Positive opinion Date:

20-06-2011

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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	NL2806
NTR-old	NTR2947
Other	METC AMC : 09/258
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results N/A