# Assessment of Amnioninfusion for improving perinatal outcomes after midtrimester preterm prelabour rupture of membranes (PPROMEXIL III)

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This study will answer the question if (repeated) abdominal amnioninfusion after midtrimester PPROM with associated oligohydramnios improves perinatal survival and prevents pulmonary hypoplasia and other neonatal morbidities. Moreover, it will...

Ethical review	-
Status	Recruitment stopped
Health condition type	Neonatal and perinatal conditions
Study type	Interventional

# Summary

### ID

NL-OMON39269

**Source** ToetsingOnline

Brief title PPROMEXIL III

### Condition

- Neonatal and perinatal conditions
- Congenital respiratory tract disorders

#### Synonym

Perinatal mortality. The number of stillbirths and deaths in the first week of life

#### **Research involving**

Human

### **Sponsors and support**

#### Primary sponsor: Academisch Medisch Centrum Source(s) of monetary or material Support: Ministerie van OC&W

### Intervention

**Keyword:** Amnioinfusion, Midtrimester, Perinatal outcome, Preterm prelabour rupture of fetal membranes (PPROM)

### **Outcome measures**

#### **Primary outcome**

Primary outcome is perinatal mortality.

#### Secondary outcome

Secondary outcomes are: Lethal pulmonary hypoplasia, non-lethal pulmonary

hypoplasia, survival till discharge from NICU, neonatal mortality, chronic

lung disease (CLD), number of days ventilatory support, necrotizing

enterocolitis (NEC) more tha stage I, periventricular leucomalacia (PVL) more

than grade I, severe intraventricular hemorrhage (IVH) more than grade II,

proven neonatal sepsis, gestational age at delivery, time to delivery,

indication for delivery, succesfull amnioninfusion, placental abruption, cord

prolaps, chorioamnionitis, fetal trauma due to puncture.

# **Study description**

#### **Background summary**

Babies born after midtrimester preterm prelabour rupture of membranes (PPROM) are prone to neonatal pulmonary hypoplasia. Perinatal mortality after this complication is high. Oligohydramnios in the midtrimester following PPROM is considered to cause a delay in lung development. Repeated transabdominal amnioninfusion with the objective to alleviate oligohydramnios might prevent this complication and might improve neonatal outcome in general.

### **Study objective**

This study will answer the question if (repeated) abdominal amnioninfusion after midtrimester PPROM with associated oligohydramnios improves perinatal survival and prevents pulmonary hypoplasia and other neonatal morbidities. Moreover, it will assess the risks associated with this procedure.

### Study design

Randomized controlled trial (multicentre).

#### Intervention

Random allocation to (repeated) abdominal amnioninfusion (intervention) or expectant management (control).

### Study burden and risks

Women with PPROM before 24 weeks with oligohydramnion participating in the trial and being allocated to the intervention group will undergo weekly amnioninfusion in a tertiary centre. They will undergo twice weekly ultrasound assessment, and if oligohydramnion re-occurs or persists, weekly transabdominal amnion infusion. This procedure consists of infusion of a sterile solution through a large bore needle inserted through the abdominal wall under ultrasound guidance. This procedure is not different from amniocentesis except fluid is instilled rather than removed. Risks described by this procedure are premature labour and delivery, fetal loss, fetal trauma, infection, uterine perforation, placental abruption. Patients allocated to the conservative group will be managed according to the strategy applied in the current practice. Patients with midtrimester PPROM are usually hospitalized after 24 weeks in a tertiary center. All patients will undergo weekly assessment of ultrasound parameters used in prediction of pulmonary hypoplasia.

# Contacts

#### **Public** Academisch Medisch Centrum

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# **Trial sites**

### **Listed location countries**

Netherlands

# **Eligibility criteria**

Age Adults (18-64 years) Elderly (65 years and older)

### **Inclusion criteria**

All women with a singleton pregnancy who were first diagnosed between 16 and 24 weeks gestational age with oligohydramnios secondary to PPROM, at least 72 hours after PPROM was diagnosed, but no longer than 21 days after the diagnosis of oligohydramnion, are eligible for the trial.

### **Exclusion criteria**

Women having signs of premature uterine contractions, intra uterine infection, or women having a maternal disease (hypertension, HELLP syndrome, preeclampsia or other) as reason for delivery. Placental or major structural fetal anomalies. Signs of cervical incompetence. Women whose child has signs of fetal distress (abnormal biophysical profile).

# Study design

### Design

Study type:

Interventional

Intervention model:	Other
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)

Primary purpose: Prevention

### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	15-06-2012
Enrollment:	56
Туре:	Actual

# **Ethics review**

Approved WMO Date:	26-04-2013
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO Date:	11-07-2014
Application type:	Amendment
Review commission:	METC Amsterdam UMC

# **Study registrations**

### Followed up by the following (possibly more current) registration

No registrations found.

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

ID: 26522 Source: Nationaal Trial Register Title:

# In other registers

Register	ID
ССМО	NL36645.018.11
OMON	NL-OMON26522