# 'Early selective treatment of RDS with Curosurf guided by lamellar body counts

| Submission date   | Recruitment status   | [X] Prospectively registered |
|-------------------|----------------------|------------------------------|
| 28/03/2006        | No longer recruiting | ☐ Protocol                   |
| Registration date | Overall study status | Statistical analysis plan    |
| 08/05/2006        | Completed            | Results                      |
| Last Edited       | Condition category   | Individual participant data  |
| 28/06/2011        | Respiratory          | Record updated in last year  |
|                   |                      |                              |

# Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

Dr Henrik Verder

#### Contact details

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# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers

Prot-Cur 3

# Study information

Scientific Title

Early selective treatment with Curosurf. Treatment of respiratory distress syndrome with Curosurf guided by lamellar body counts on gastric aspirate compared to treatment at arterial to alveolar oxygen tension ratio (a/APO2) <0.36. A Danish-Swedish randomised controlled study in infants at 24-29 weeks of gestation.

## **Study objectives**

Early treatment with surfactant betters the outcome of respiratory distress syndrome (RDS). However, only about half of preterm infants less than 30 week-gestation need surfactant when supported by early nasal continuous positive airway pressure (CPAP) or mechanical ventilation. Therefore, there is a need for a rapid and easily accessible method to predict RDS. Lamellar body counts (LBC) on gastric aspirate using automatic blood cell counters have been shown to fulfil this condition.

## Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Research Ethics Committee of the Videnskabsetiske Committee for Bornhoms Regionskommune and Frederiksborg, Roskilde, Storstroms and Vestsjaelands Amter on 31/01/2006, (ref: Ø-2006-2-02G). All suction procedures for gastric aspirate were secure and tested. There were no serious adverse effects of Curosurf. All infants with RDS will receive Curosurf later as in our classical regiment and we have had very good results with this regiment.

### Study design

Phase IV international multicenter randomised controlled study

## Primary study design

Interventional

# Secondary study design

Randomised controlled trial

# Study setting(s)

Hospital

# Study type(s)

Treatment

## Participant information sheet

Please use the contact details below to request a patient information sheet

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

Respiratory distress syndrome (RDS) and gestational age less than 30 weeks

#### **Interventions**

Randomisation to:

- 1. Selective treatment with Curosurf 200 mg/kg (intubation and extubation) 1-2 h after birth, quided by LBC
- 2. Classical Scandinavian regimen i.e. treatment with Curosurf 200 mg/kg (intubation and extubation) 5-6 h after birth when a/APO2 decreases below 0.36

Trial start and end dates were amended on 24/09/09 (used to be 01/09/06 to 01/03/08). As of 28/06/2011 the end date has again been extended from 31/12/2010 to 01/08/2011.

#### Intervention Type

Drug

#### **Phase**

Phase IV

## Drug/device/biological/vaccine name(s)

Curosurf

#### Primary outcome measure

Mechanical ventilation or death within the first 5 days of life

#### Secondary outcome measures

- 1. Mortality before discharge
- 2. a/APO2 after 6 days
- 3. Mechanical ventilation before discharge
- 4. Pneumothorax
- 5. Lung haemorrhage
- 6. Diastolic arterial pressure (DAP)
- 7. Necrotising enterocolitis (NEC)
- 8. Chronic lung disease (CLD) or bronchopulmonary dysplasia (BPD)
- 9. Intraventricular hemorrhage (IVH)
- 10. Periventricular leukomalacia (PVL)
- 11. Retinopathy of prematurity (ROP)
- 12. Duration of oxygen treatment (days)
- 13. Duration of nasal CPAP (days)
- 14. Duration of mechanical ventilation (days)

#### Overall study start date

22/03/2007

#### Completion date

01/08/2011

# **Eligibility**

#### Key inclusion criteria

- 1. Gastric aspirate (GA) 24 + 0 to 29 + 9 weeks
- 2. Early nasal CPAP
- 3. Gastric aspirate obtained not later than 45 min after birth
- 4. Informed consent before birth or latest 1 h after birth

#### Participant type(s)

**Patient** 

#### Age group

Neonate

#### Sex

Both

#### Target number of participants

Prior to 24/09/09: 260. Interim calculation after 130 patients Amended 24/09/09: 380. Interim calculation after 190 patients Last Patient included on 26/04/2011

#### Key exclusion criteria

- 1. Prolonged rupture of the membranes >3 weeks
- 2. Therapeutic infusions in the amniotic cave
- 3. Lethal malformations
- 4. Intubation in the delivery room or before randomisation
- 5. Meconium or pus contamination of the gastric aspirate
- 6. The neonatal ward too busy with other patients
- 7. No gastric aspirate

#### Date of first enrolment

22/03/2007

#### Date of final enrolment

01/08/2011

# Locations

#### Countries of recruitment

Denmark

Sweden

# Study participating centre Department of Pediatrics

Holbaek Denmark 4300

# Sponsor information

### Organisation

Individual Sponsor (Denmark)

#### Sponsor details

Henrik Verder MD, PhD Head of the Neonatal Ward Department of Pediatrics Holbaek University Hospital Smedelundsgade 60 Holbaek Denmark 4300

# Sponsor type

University/education

# Funder(s)

## Funder type

Industry

#### Funder Name

Danish Medical Research Foundation for Region 3 (Denmark)

#### **Funder Name**

Cheisi Farmaceutici (Italy)

#### Funder Name

Nycomed (Denmark)

# **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