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# Creating and maintaining functional residual capacity in preterm neonates with Respiratory Distress Syndrome (RDS)

**Submission date**
20/12/2005

**Recruitment status**
No longer recruiting

**Registration date**
20/12/2005

**Overall study status**
Completed

**Last Edited**
03/08/2007

**Condition category**
Respiratory

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

**Plain English summary of protocol**
Not provided at time of registration

## Contact information

**Type(s)**
Scientific

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## Additional identifiers

## Study information

**Scientific Title**

**Acronym**
EFURCI

### Study objectives
A sustained inflation with a mechanical device and early nasal continuous positive airway pressure is a more effective management strategy for RDS in preterm infants than conventional intervention with a self-inflating mask and bag, and reduces the requirement for mechanical ventilation and surfactant treatment.

### Ethics approval required
Old ethics approval format

### Ethics approval(s)
Not provided at time of registration

### Primary study design
Interventional

### Study design
Randomised controlled trial

### Study type(s)
Not Specified

### Health condition(s) or problem(s) studied
Respiratory Distress Syndrome, Preterm neonates

### Interventions
Resuscitation at birth when necessary:
Group A: Prolonged inflation of 10 seconds with a mechanical device (Neopuff t-piece resuscitator) and early CPAP treatment.
Group B: Inflation with self-inflating mask and bag conform international resuscitation guidelines.

### Intervention Type
Other

### Phase
Not Specified

### Primary outcome(s)
Need of endotracheal intubation within 3 days after birth.

### Key secondary outcome(s)
1. Death
2. Bronchopulmonary Dysplasia (BPD)

### Completion date
01/07/2007

## Eligibility

### Key inclusion criteria

1. Preterm neonates
2. Gestational age range 25 - 32 weeks (more than 24 weeks and 6 days and not more than 32 weeks and 6 days)

### Participant type(s)
Patient

### Healthy volunteers allowed
No

### Age group
Neonate

### Sex
Not Specified

### Key exclusion criteria
Antenatal diagnosed congenital anomalies of the cardio or respiratory system or anomalies incompatible with survival.

### Date of first enrolment
01/04/2005

### Date of final enrolment
01/07/2007

## Locations

### Countries of recruitment
Netherlands

### Study participating centre
**Department of Pediatrics, Leiden University Medical Center, J6-S, P.O. Box 9600**
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## Sponsor information

### Organisation
Leiden University Medical Centre (LUMC) (Netherlands)

### ROR
https://ror.org/027bh9e22

# Funder(s)

### Funder type
Hospital/treatment centre

### Funder Name
Leiden University Medical Centre (The Netherlands)

# Results and Publications

### Individual participant data (IPD) sharing plan

### IPD sharing plan summary
Not provided at time of registration

### Study outputs

| Output type | Details | Date created | Date added | Peer reviewed? | Patient-facing? |
|---|---|---|---|---|---|
| Results article | Results | 01/08/2007 | | Yes | No |