# Respiratory system mechanics and electrical impedance tomography measurements during mechanical ventilation with heliox in infants with respiratory syncytial virus (RSV) lower respiratory tract disease (LRTD).

No registrations found.

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

## Summary

### ID

NL-OMON29286

**Source**
NTR

**Brief title**
N/A

### Sponsors and support

**Primary sponsor:** None
**Source(s) of monetary or material Support:** None

### Intervention

### Outcome measures

**Primary outcome**

Respiratory system mechanics (compliance and resistance).

### Secondary outcome

Arterial pCO2.

## Study description

### Background summary

N/A

### Study objective

First, mechanical ventilation with a gas mixture composed of helium and oxygen is only beneficial in patients with obstructive RSV LRTD. Hence correct identification of the clinical phenotype is necessitated. This can be done with lung function testing, including compliance and resistance.
Second, the beneficial effect of heliox can be detected with repeated EIT measurements.

### Intervention

Mechanical ventilation with heliox.

## Contacts

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# Eligibility criteria

## Inclusion criteria

Mechanically ventilated infants younger than 12 months of age with a virologically proven RSV infection.

## Exclusion criteria

Older than 12 months of age, no informed consent, prior use of corticosteroids, infants on high-frequency oscillatory ventilation and infant wit a haemodynamically significant congenital heart defect.

# Study design

## Design

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

## Recruitment

NL

| | |
|---|---|
| Recruitment status: | Recruitment stopped |
| Start date (anticipated): | 01-10-2005 |
| Enrollment: | 15 |
| Type: | Actual |

# Ethics review

Positive opinion

| | |
|---|---|
| Date: | 06-09-2005 |

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 | NL198 |
| NTR-old | NTR235 |
| Other | : N/A |
| ISRCTN | ISRCTN98152468 |

# Study results

**Summary results**
N/A