Bag and mattress or bag for preterm infants in the delivery room: The Bambino Trial

Submission date	Recruitment status No longer recruiting	Prospectively registered		
31/01/2011		☐ Protocol		
Registration date 03/03/2011	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	[] Individual participant data		
04/09/2013	Pregnancy and Childbirth			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Should exothermic mattresses be used in combination with polyethylene bags to prevent heat loss in preterm infants at birth? (bag and mattress or bag in the delivery room): a randomised controlled trial

Acronym

The Bambino Trial

Study objectives

For newborn infants less than 31 weeks nursed in polyethylene bags under radiant heat, the use of exothermic mattresses results in more infants with admission temperatures outside the normal range (core temperature 36.5 - 37.5°C).

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee of The National Maternity Hospital, Dublin, approved on the 22nd December 2010

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Prematurity/prevention of hypothermia in newborns

Interventions

Infants in both groups will be placed in a polyethylene bag and placed under radiant heat after birth. Infants randomised to the "bag" group will receive no additional measures to provide heat. Infants randomised to "mattress group" will, in addition, be placed on an exothermic chemical mattress (TransWarmer® Infant Transport Mattress, Cooper Surgical Inc., Trumbull CT, USA) which will be activated before delivery.

The primary outcome for this trial is the infant's core (rectal) temperature on admission to the neonatal intensive care unit. All infants will be followed until hospital discharge.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

Core temperature 36.5 - 37.5°C on admission to the Neonatal Intensive Care Unit (NICU)

Secondary outcome measures

- 1. Apgar scores at 5 and 10 minutes
- 2. Positive pressure ventilation (PPV) in the delivery room (DR)
- Intubation and mechanical ventilation in the DR
- 4. Supplemental oxygen in the DR
- 5. Chest compressions in the DR
- 6. Use of adrenaline and volume resuscitation in the DR
- 7. Time to NICU admission
- 8. Intubation and mechanical ventilation during hospital stay
- 9. Duration of oxygen therapy (hours and days)
- 10. Oxygen therapy at 28 days
- 11. Oxygen therapy at 36 weeks' corrected gestational age
- 12. Sepsis early and late onset
- 13. Patent ductus arteriosus
- 14. Intraventricular haemorrhage
- 15. Periventricular leukomalacia
- 16. Necrotising Enterocolitis
- 17. Hospital days
- 18. Death before hospital discharge

Overall study start date

11/01/2011

Completion date

30/06/2012

Eligibility

Key inclusion criteria

Infants born at the National Maternity Hospital (NMH) at less than 31 weeks gestation by best obstetric estimate

Participant type(s)

Patient

Age group

Neonate

Sex

Both

Target number of participants

116

Key exclusion criteria

Known congenital anomaly with an open lesion (e.g. gastroschisis or myelomeningocele)

Date of first enrolment

11/01/2011

Date of final enrolment

30/06/2012

Locations

Countries of recruitment

Ireland

Study participating centre Neonatal Intensive Care Unit

Dublin Ireland

Sponsor information

Organisation

The National Children's Research Centre (Ireland)

Sponsor details

Our Lady's Children's Hospital Crumlin Dublin Ireland 12

Sponsor type

Research organisation

Website

http://www.nmh.ie/iopen24/index.php

ROR

Funder(s)

Funder type

Research organisation

Funder Name

The National Children's Research Centre (Ireland)

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

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/07/2013		Yes	No