Randomized Trial of Heat Recovery Ventilators (HRVs) for the Prevention of Severe Lower Respiratory Tract Infection (LRTI) in Inuit Infants in Baffin Region, Nunavut, Canada

Submission date	Recruitment status No longer recruiting	Prospectively registered		
15/08/2005		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
04/11/2005	Completed	[X] Results		
Last Edited 09/05/2019	Condition category Respiratory	[] Individual participant data		

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

Protocol serial number PERD-089

Study information

Scientific Title

Randomized Trial of Heat Recovery Ventilators (HRVs) for the Prevention of Severe Lower Respiratory Tract Infection (LRTI) in Inuit Infants in Baffin Region, Nunavut, Canada

Study objectives

Heat Recovery Ventilators, by improving indoor air ventilation and indoor air quality will reduce the incidence of severe lower respiratory tract infection requiring admission to hospital in Inuit infants in Baffin Region, Nunavut.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Prevention

Health condition(s) or problem(s) studied

Bronchiolitis, Pneumonia

Interventions

Heat Recovery Ventilator versus placebo Heat Recovery Ventilator

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Admission to hospital for severe lower respiratory tract infection

Key secondary outcome(s))

Effect of Heat Recovery Ventilators on indoor CO2, Air change rate, respiratory symptoms, occupant comfort, and visits to the nursing station for respiratory illness.

Completion date

15/09/2008

Eligibility

Key inclusion criteria

Inuit infants 0-2 years of age living in eligible communities in Baffin Region, Nunavut, Canada

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

0 years

Upper age limit

2 years

Sex

All

Total final enrolment

68

Key exclusion criteria

Children with underlying congenital malformations known to increase the risk of LRTI, including congenital lung malformations and congenital heart disease will be excluded from the study, as well as children with underlying conditions known to increase the risk of LRTI, including cystic fibrosis, severe developmental delay, and immunodeficiency. Houses where it is technically impossible to install the HRV will be excluded from the study. Only households providing informed consent will be allowed to participate in the trial.

Date of first enrolment

15/09/2005

Date of final enrolment

15/09/2008

Locations

Countries of recruitment

Canada

Study participating centre Children's Hospital of Eastern Ontario

Ottawa Canada K1H 8L1

Sponsor information

Organisation

Program of Energy Research and Development (Canada)

Funder(s)

Funder type

Government

Funder Name

Program of Energy Research and Development (PERD) PERD-089

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	01/12/2009	09/05/2019	Yes	No