

# Canadian Bronchiolitis Epinephrine Steroid Trial

<b>Submission date</b> 26/09/2005	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 26/09/2005	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 19/05/2025	<b>Condition category</b> Respiratory	<input type="checkbox"/> Individual participant data

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

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Amy Catherine Plint

**Contact details**  
Children's Hospital of Eastern Ontario  
401 Smyth Road  
Ottawa  
Canada  
K1H 8L1  
+1 8 737 7600 ext. 3237  
plint@cheo.on.ca

## Additional identifiers

**EudraCT/CTIS number**  
Nil known

**IRAS number**

**ClinicalTrials.gov number**  
Nil known

**Secondary identifying numbers**  
MCT-67276

# Study information

## Scientific Title

A randomised controlled trial of nebulised epinephrine and oral dexamethasone in the treatment of outpatients with bronchiolitis

## Acronym

CanBEST

## Study objectives

We hypothesise that children presenting to the Emergency Department (ED) with bronchiolitis and who are treated with nebulised epinephrine and/or oral dexamethasone will have fewer hospitalisations and a shorter, less severe illness.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Children's Hospital of Easter Ontario Research Ethics Board gave approval in May 2004.

## Study design

Randomized controlled trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Hospital

## Study type(s)

Treatment

## Participant information sheet

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

Bronchiolitis

## Interventions

1. Oral dexamethasone
2. Nebulised epinephrine

Trial details received: 12 Sept 2005

## Intervention Type

Drug

## Phase

Not Applicable

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

Dexamethasone, epinephrine

**Primary outcome measure**

Admission to hospital up to 7 days after enrolment

**Secondary outcome measures**

1. Time to discharge
2. Length and severity of symptoms
3. Change in RDAI
4. Economic costs
5. Change in oxygen saturation from baseline at times 60, 120, 180 and 240 minutes
6. Co-interventions
7. Return to be evaluated by health care provider for on-going symptoms related to bronchiolitis
8. Adverse events

**Overall study start date**

01/04/2004

**Completion date**

31/03/2008

## **Eligibility**

**Key inclusion criteria**

1. Age 6 weeks to 12 months, either sex
2. Respiratory distress assessment instrument (RDAI) score of greater than 3 and less than 15
3. Diagnosis of bronchiolitis

**Participant type(s)**

Patient

**Age group**

Child

**Lower age limit**

6 Weeks

**Upper age limit**

12 Months

**Sex**

Both

**Target number of participants**

800

**Total final enrolment**

**Key exclusion criteria**

1. Asthma or any previous episode of wheezing treated with bronchodilators
2. Chronic cardiopulmonary disease
3. Presence of varicella or recent close contact
4. Severe respiratory distress
5. Recent treatment with oral or inhaled steroids
6. Insurmountable language barrier
7. Any child born at less than 37 weeks gestation who is less than 6 weeks corrected age

**Date of first enrolment**

01/04/2004

**Date of final enrolment**

31/03/2008

**Locations****Countries of recruitment**

Canada

**Study participating centre**

Children's Hospital of Eastern Ontario

Ottawa

Canada

K1H 8L1

**Sponsor information****Organisation**

Children's Hospital of Eastern Ontario (Canada)

**Sponsor details**

401 Smyth Road

Ottawa

Canada

K1H 8L1

+1 8 737 7600

webmaster@cheo.on.ca

**Sponsor type**

Hospital/treatment centre

ROR

# Funder(s)

**Funder type**  
Research organisation

**Funder Name**  
Canadian Institutes of Health Research (CIHR) (Canada) - <http://www.cihr-irsc.gc.ca> (ref: MCT-67276)

# 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?
<a href="#">Results article</a>	results	14/05/2009		Yes	No
<a href="#">Results article</a>		16/05/2025	19/05/2025	Yes	No