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Evidence Table Template for Meta Analysis

Clinical Area: wheeze in children less than 2yrs of age.

Keywords: Anticholinergic Drugs.

Reference: Everard ML, Bara A, Kurian M, Elliott TM, Ducharme F.
Cochrane Database of Systematic Reviews (1)
CD001279, 2002

Design/Grade: Meta-analysis – grade depends on the primary studies used for meta-analysis

Outcomes: Primary: effect on symptom scores
Effect on oxygenation.
Secondary dependent on site of study

Design

- Randomised controlled trials in children less than two years of age treated with anticholinergic for wheeze
Excluded infants with chronic lung diseased or born prematurely.
- **Literature search** Cochrane Airways Group Database
Medline, Cinghl, Ovid, Embase
Contacted authors of identified trials.
Boehringer Ingelheium contacted
- **Methodological Standards** under two years of age treated for airway obstruction with wheeze. Recruited from emergency room (3) hospitalized patients (3) and outpatients (1), variety of delivery systems, doses and dosing regimens.
Varied outcomes.
- **Demographics** children <2

Validity Is study type appropriate for the question being asked
Yes (question relates to children <1yo)
Date tested for homography Yes

Results

ED: IB does not confer significant benefit when treating wheezing infants.

Hospital: IB alone does **not** reduce stay in hospital compared with placebo.
IB plus beta agonist did not reduce hospital stay compared with beta agonist alone.
IB plus beta agonist leads to more rapid improvement in clinical score at 24hrs compared with placebo.

Home Study: parents preferred nebulized IB to water and able to identify a more immediate improvement.

Conclusion

There is **not** enough evidence to support the routine use of IB for wheezing infants.

Evidence Table
for Anticholergics in Wheezy Infants
Clinical question: Are inhaled anticholinergics useful in treating the wheezy infant?

Study authors and year	Study Design	Participants	Exposure/ Comparison	Outcomes	Results					Quality Scores
					EER	CER	RR	RD	NNT	
Everard 2002	Cochrane Database Meta-analysis of RCT's	Wheezy children less than 2yrs old. Excluded children with acute bronchiolitis and chronic lung disease	6 trials (total of 12 relevant trials identified). Variable outcome measures.	321 Children. No clear evidence supporting use of IB in wheezy infant						