

Clinical question: Do bronchodilators improve clinical outcome compared with placebo in acute bronchiolitis

Study authors and year	Study Design	Participants	Exposure/ Comparison	Outcomes	Results					Quality Scores
					EER	CER	OR	RD	NNT	
Kellner 1998	Metaanalysis- 8 trials	211 183	Bronchodilator Placebo	Improved vs not improved clinical score	98/211	137/183	0.29 [0.19, 0.45]	45.6%		+
Kellner 1998	Metaanalysis-98 trials	250 191	Nebulised bronchodilator Placebo	Average clinical score				-0.21 [-0.41, -0.02]		+
Kellner 1998	Metaanalysis- 3 trials	58 62	Oral bronchodilator Placebo	Average clinical score				-0.23 [-0.45, 0.00]		+
Kellner 1998	Metaanalysis-13 trials	316 281	Nebulised bronchodilator Placebo	Average oximetry score				0.67 [0.49, 0.86] (favours control)		+

Kellner 1998	Metaanalysis- 2 trials	47 54	Oral bronchodilator Placebo	Average oximetry score				0.44 [-0.68, 1.55]		+
Kellner 1998	Metaanalysis-4 trials	97 90	Nebulised bronchodilator Placebo	Admission	19/97	22/90	0.76 [0.38, 1.53]			+
Gadomski 1994	<b>RCT</b>	15 22	Oral bronchodilator <b>Placebo</b>	Admission	1/15	4/22	0.38 [0.06, 2.55]			+
Kellner 1998	Metaanalysis-3 trials	130 47	Nebulised bronchodilator Placebo	Duration of hospitalisation				0.12 [-0.31, 0.55]		+
Can, 1998	<b>RCT</b>	158	Salbutamol Saline Mist	Mean Respiratory distress score 30 mins 60 mins Percent with RDS >5 at 30 mins	7.0+-3.1 5.2 28	11.3+- 3.6 10.2 3%		P<0.0001 P<0.0001		Φ
Hickey 1994	<b>RCT- crossover</b>	42	Albuterol vs placebo	Improvement in wheezing scores Improvement in retraction scores Mean RR at baseline, 40 mins and 80 mins Mean HR at baseline, 40 mins and 80 mins Mean oxygen saturation at baseline, 40 mins and 80 mins				No sig diff No sig diff No diffs No diffs No diffs		+

Patel, 2003	RCT	64 65	Oral albuterol Placebo	Time to resolution of illness Time to normal feeding Time to normal sleeping Quiet breathing Resolved cough Resolved coryza	9.0 (8-13)	8.0 (7-9)		P=0.3 No differences in any outcomes		+