

EVIDENCE TABLE

Antibiotics in LRI

Clinical question: which antibiotic, in what dose is best for ALRI in infants

Study authors and year	Study Design	Participants	Exposure/ Comparison	Outcomes	Results					Quality Scores
					EER	CER	RR	RD	NNT	
Catchup, 2002	RCT	1471, non severe pneumonia, 2-59 mths, Pakistan	24 mg/kg cotrimoxazole 25mg/kg amoxil both bd x5	Time to clinical improvement Clinical failure	81.1% success	83.9%	0.83 (0.06-1.08)			+
Strauss 1988	RCT	595: 2-59 mths, OP pneumonia, Pakistan, CXR +ve in 26%	24 mg/kg cotrim bd amoxicillin 15mg/kg tds	Inpatient therapy reqd Evidence pneumonia at fu	23% failure Under 1yr 29%	15% 19%	1.83 (1.06 to 3.14)	10%		+
Harris, 1998	RCT	456, 197< 5yrs, US	Azithromycin 10mg/kg then 5 mg/kgX5 days vs Amoxil-clav 40mg/kg/d for < 5 yrs	Clinical resolution at 15-19 days Clinical success at 4-6 weeks Adverse effects	< 5 yrs 67.2% cure 85.1%	66.7% 85.4%				Φ
Amir, 1996	RCT, non blinded	62, 6 mo to 6 yrs, Israel, 55% admitted	All 2 doses ceftriaxone, then Cefixime 50/mg/kg/d od	Clinical response after 48 hrs oral abs	28/29	29/33				Φ
MASCOT, 2002	RCT	2000, 2-59 months, Pakistan outpatients, WHO defined non severe pneumonia	Amoxicillin 15mg/kg 3 days vs 5 days	Treatment failure Relapse rate				0.7% (-1.8-3.2) 0.1% (-0.6 to 0.8)		+
ISCAP, 2004	RCT	2188, 2-59 months, India, outpatients, WHO defined non severe pneumonia	Amoxicillin 125 mg 3 days vs 5 days	Treatment success Relapse rate	89.5% 5.3%	89.9% 4.4%		0.4 (-2.1 to 3.0)		+
Tsarouhas, 1998	RCT, single blind	170, 6 mo to 18 yrs, US, outpatients, seen in ED, radiological pneumonia	Amoxicillin 50mg/kg/day in 3 dose vs IM procaine penicillin G 50,000u/kg	Temperature >= 38.5 at fu Ill appearance Increased RR Failed all 3 criteria Hospitalised	10% 13% 26% 4% 6%	13% 12% 22% 5% 6%		P=0.63 P=0.76 P=0.53 P=1.00 P=1.00		+
Friis B 1984	RCT open label	136, 1 month to 6 years, Denmark, 1980s, mixture of bronchiolitis and pneumonia, 53% viral confirmed	ampicillin 100mg/kg/d orally in 3 doses for 6 days for those < 2 years or penicillin V for those over 2 yrs vs no antibiotics	Mean LOS (SE) Pulmonary healthy day 3	4.9(0.2) 40%	5.6(0.4) 43%		NS NS		Φ