

Evidence Table for blood culture in pneumonia

Clinical question: What is the rate of positive blood culture in pneumonia in infancy

Study authors and year	Study Design	Participants	Exposure/ Comparison	Outcomes	Results					Quality Scores
					EER	CER	RR	RD	NNT	
Djeretic, 1998	Cohort	251, 173 < 2yrs, all < 5 yrs, UK admissions		Blood culture results in CAP (92% tested)	6%					Φ
Wubbell, 1999	Clinical trial	174 patients, age 6 months to 16 years, ambulatory patients with CXR and clinical community acquired pneumonia; Dallas		Blood culture- all patients	0%					Φ
Davies, 1996	Cohort	Age less than 6 months admitted to Hospital for sick children, Toronto, Included 68 patients with pneumonia		Blood culture	1.5 % = 1 patient- strep pneumoniae					+
Drummond, 2000	Cohort	136 patients admitted with CAP, NE England, age 0-16 years		Blood culture	1/163 Gp A strep Probable pathogen found in 51%, 37% viral					+
Hickey, 1996	Retrospective cohort	939 ED patients with radiographic pneumonia , 409 blood cultures		Blood culture positive for pathogen	11 (2.7%) positive for pathogens- 10 strep pneumoniae, 1 H influ no management changes					Φ
Juven 2000	3 yr prospective study of CAP in hospitalised in Finland	254 patients, 125 had blood cultures		Etiology of pneumonia	1 positive blood culture for S pneumoniae. 62% were viral infections					+
Grant, 2001	Auckland	Retrospective cohort, Starship admissions with pneumonia		Blood culture result	359/387 pneumonia admissions had bl cult. 10 positive (3%), 6 pathogenic, all strep pneumoniae					+

Tsarouhas, 1998	USA	RCT, routine blood culture as part of study, age 6 mo to 18 yrs, CXR diagnosis of pneumonia, outpatients seen in ED		Blood culture result	5/166 tested out of population of 170 grew organism, only 2 regarded as causative, both Strep pneumoniae						+
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