

WEB TABLE I A SUMMARY OF SOME ACELLULAR PERTUSSIS VACCINE EFFICACY TRIALS COMPARING EFFICACY WITH WHOLE-CELL VACCINES

Study site	Year	aP Vaccines			wP vaccine		Case definition	Ref.
		Brand	aP Antigens	Absolute VE % (95% CI)	Brand	Absolute VE % (95% CI)		
Stockholm, Sweden	1986	LPF toxoid 2-component	PT, FHA	54% (26-72%) 69% (47-82)	None	-	≥21 days cough and ≥9 coughing spasms on at least 1 day and positive culture	Lancet 1988; 1(8592): 955-60.
Stockholm, Sweden	1992	SKB-2 Tripacel	PT, FHA, PT, FHA, PRN, FIM2, FIM3	59 (51–66) 85 (81–89)	Connaught DTP	48 (37–58)	≥21 days paroxysmal cough and either: positive culture, confirmed by serologic assay or PCR; twofold PT or FHA IgG rise; or epidemiological link to culture-positive case	N Engl J Med 1996; 334:349-55.
Italy	1992	Infanrix Acelluvax	PT, FHA, PRN, PT, FHA, PRN	84 (76–89) 84 (76–90)	Connaught DPT	36 (14–52)	≥21 days paroxysmal cough and either: positive culture, confirmed by serologic assay or PCR	N Engl J Med 1996; 334:341-48.
Goteborg, Sweden	1991	Certiva	PT	71 (63–78)	None		≥21 days paroxysmal cough and either: positive culture confirmed by serologic assay or PCR; threefold PT or FHA IgG rise	N Engl J Med. 1995; 333:1045-50.
Senegal	1990	Triavax PMC	PT, FHA	74 (51–86)	PMC-Fr DPT	92 (81–97)	≥21 days paroxysmal cough and confirmation by culture, serology or epidemiological link	Vaccine, 1997, 15:1606–12.
Erlangen, Germany	1991	ACEL-IMUNE	PT, FHA, PRN, FIM2	83 (76-88),	Lederle DPT	93 (89-96)	≥21 days cough with paroxysm, whoop, or vomiting and confirmation	Pediatrics 1998; 101: 1-11.
Mainz, Germany	1992	Infanrix	PT, FHA, PRN	89 (77–95)	Behring, SKB DPT	98 (83–100)	≥21 days paroxysmal cough and either: positive culture, or serology in households	JAMA 1996;275: 37-41.
Munich, Germany	1993	Tripedia	PT, FHA	82 (68- 90),	Behring, DPT	96 (78- 99)	≥21 days paroxysmal cough and either: positive culture or household contact with laboratory confirmation	Pediatr Infect Dis J 1997; 16:1038-44.

DTaP: Diphtheria–tetanus toxoid acellular pertussis vaccine; PT: Pertussis toxoid; FHA: Filamentous hemagglutinin; PRN: Pertactin; FIM: Fimbriae; LPF: lymphocytosis promoting factors.