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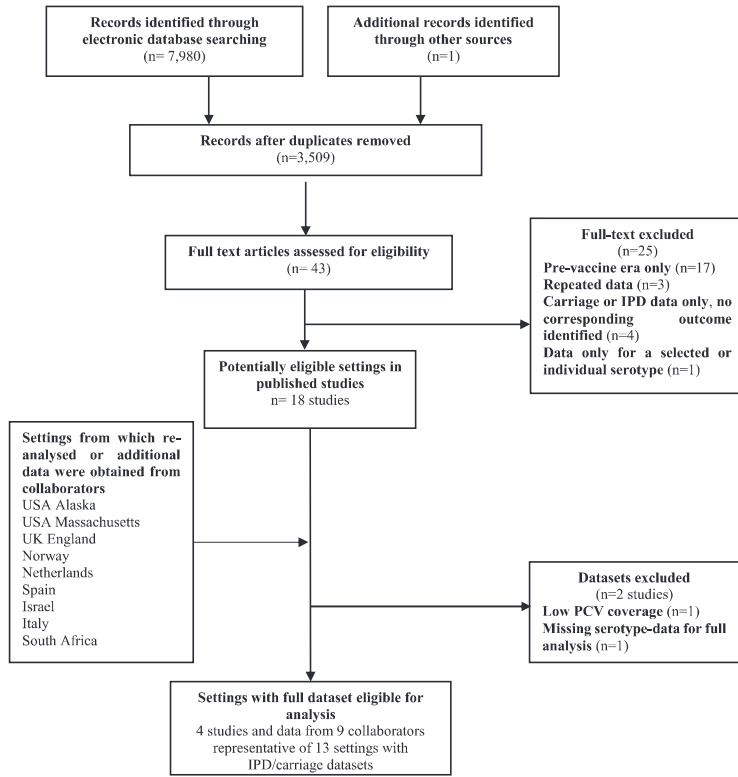
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[Footnote text]



Flowchart illustrating the selection process for the study.

Records identified through electronic database searching (n=7,980) and additional records identified through other sources (n=1) were included. After removing duplicates, 3,509 records remained. 43 full-text articles were assessed for eligibility. 25 articles were excluded for various reasons: 17 were pre-vaccine era only, 3 were repeated data, 4 were carriage or IPD data only with no corresponding outcome identified, and 1 was data only for a selected or individual serotype. 18 studies were potentially eligible. 2 studies were excluded due to low PCV coverage (n=1) and missing serotype-data for full analysis (n=1). 13 settings (4 studies and data from 9 collaborators) were eligible for analysis.

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Settings from which re-analysed or additional data were obtained from collaborators

USA Alaska
USA Massachusetts
UK England
Norway
Netherlands
Spain
Israel
Italy
South Africa

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Table 1. Seroprevalence of pneumococcal carriage in the community

Country	Study	Year	IPD (%)		Carriage (%)		Reference (%)	OR (95% CI) 0-59 months	
			IPD (%)	Carriage (%)	OR (95% CI)	OR (95% CI)			
1*			9.6	0.3	15.1				
5*			0.6	0.2	9.0				
12F			0.6	0.2	5.8				
7F*			4.2	0.5	4.5				
8			0.2	0.2	2.0				
14*			2.6	1.1	1.1				
18C*			0.7	0.4	1.1				
3†			8.8	1.9	1.0				
19A†			13.1	6.9	1.0				
33F			3.8	1.9	1.0				
24F			2.2	1.1	0.7				
22F			3.0	2.5	0.6				
38			1.0	1.3	0.6				
6A†			2.1	2.1	0.4				
6B*			2	1.8	0.4				
10A			2.4	2.4	0.4				
23F*			1.1	2.2	0.4				
10B			0.9	1.0	0.3				
15A			4.3	4.3	0.3				
15BC			9.4	9.4	0.3				
35B			3	4.5	0.3				
16F			7.1	5.1	0.2				
19F*			3.8	3.8	0.2				
NT			4.6	4.6	0.2				
6C			8	8.5	0.1				
23B			5.8	5.8	0.1				

IPD, Invasive pneumococcal disease; Carriage, carriage of pneumococci; Reference, reference pneumococcal carriage; OR, Odds Ratio; 95% CI, 95% Confidence Interval.

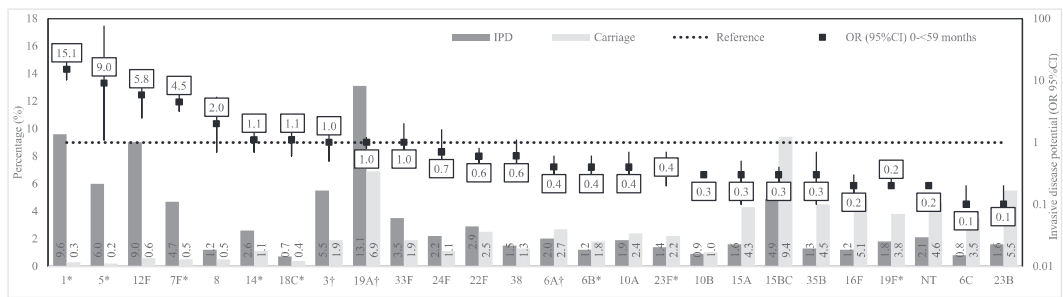


Figure 1. Seroprevalence of pneumococcal carriage in the community. The chart displays the percentage of IPD and carriage for various pneumococcal serotypes, along with the Odds Ratio (OR) and 95% Confidence Interval (CI) for invasive disease potential in children aged 0-59 months.

Table 1. Seroprevalence of pneumococcal carriage in the community. The table provides detailed data for each serotype, including the study name, year, and the percentage of IPD and carriage. The Odds Ratio (OR) and 95% Confidence Interval (CI) for invasive disease potential in children aged 0-59 months are also provided for each serotype.

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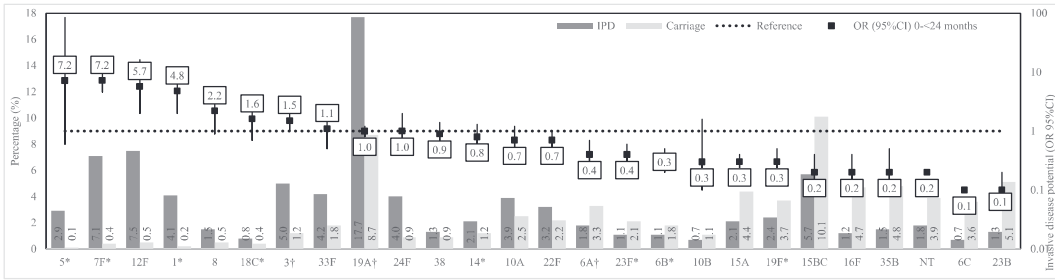


Figure 1. Summary of the results of the meta-analysis. The forest plot displays the percentage of IPD, Carriage, Reference, and OR (95%CI) 0-24 months for various studies. The x-axis lists study identifiers (e.g., 5*, 7F*, 12F, etc.) and the y-axis shows Percentage (%). The reference line is at 9.0%.

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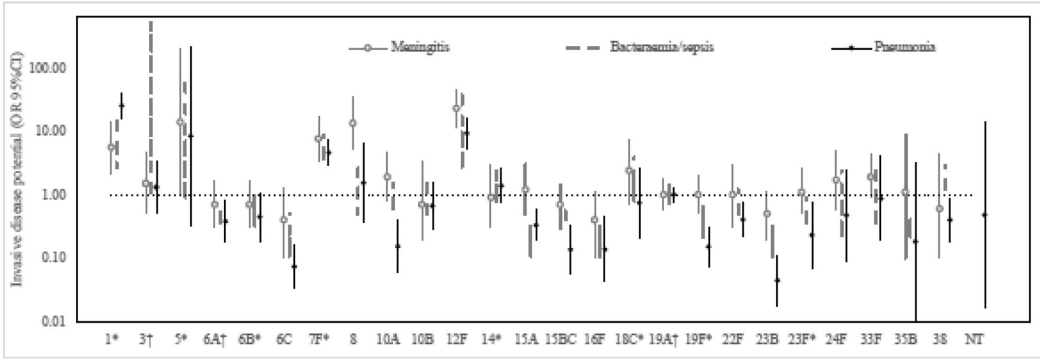


Figure 1: Invasive disease potential (IDP) of *S. pneumoniae* serotypes in the United States, 1998-2007

Figure 1 shows the IDP for 34 pneumococcal serotypes. The y-axis represents IDP on a log scale from 0.01 to 100.00. A horizontal dotted line is at IDP = 1.00. Serotypes are categorized by disease type: Meningitis (open circles), Bacteremia/sepsis (open squares), and Pneumonia (open triangles). Serotypes 1, 3, 5, 7, 12, and 18 are generally high IDP, while many others are near or below 1.00.

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