

Supplementary Tables

Supplementary Table 1.

List of abbreviations and explanations of tested *S. aureus* and *S. pneumoniae* virulence factors.

<i>S. aureus</i> (n=40)		<i>S. pneumoniae</i> (n=18)	
Abbreviation	Explanation	Abbreviation	Explanation
α-toxin	Alpha- toxin (alpha-hemolysin)	CbpA	Pneumococcal cell-surface proteins choline binding protein A
CHIPS	Chemotaxis inhibitory protein	ENO	Enolase
ClfA	Clumping factor A	Hyl	Hyaluronidase
ClfB	Clumping factor B	IgA-1	IgA-1 protease
Efb	Extracellular fibrinogen binding protein	NanA	Neuraminidase A
ET (A, B)	Exfoliative toxins (A,B)	PbdB	Double mutant of pneumolysin
FnbpA	Fibronectin-binding protein A	Pht-D	Pneumococcal histidine triad protein D
FnbpB	Fibronectin-binding protein B	Pht-E	Pneumococcal histidine triad protein E
HlgB	Gamma hemolysin	Pilus-A	Pilus hair like structure A
IsdA	Iron-responsive surface determinant A	PLY	Pneumolysin
IsdH	Iron-responsive surface determinant H	PpmA	Putative protease maturation protein A
LuK D, E, F, S	Leukocidin (D, E, F, S)	PsaA	Pneumococcal surface adhesin A
SasG	<i>S. aureus</i> surface protein G	PspA	Pneumococcal surface protein A
SCIN	Staphylococcal complement inhibitor	SlrA	Streptococcal lipoprotein rotamase A
Sdr D, E	Serine–aspartate dipeptide repeat protein D, E	Sp0189	<i>Streptococcus pneumoniae</i> protein 0189
SE -X	Staphylococcal enterotoxins	Sp0376	<i>S. Pneumoniae</i> protein 0376
SSL	Staphylococcal superantigen-like	Sp1633	<i>S. Pneumoniae</i> protein 1633
TSST-1	Toxic shock syndrome toxin 1	Sp1651	<i>S. Pneumoniae</i> protein 1651

Supplementary Table 2.

Interquartile range of titers (in MFI) to pneumococcal proteins and percentage of children responsive to each protein at the age of 12 and 24 months.

Proteins	12 months (n=56)			Responsive in ^A (%)	24 months (n=56)			Responsive in ^A (%)
	25 th (Q1)	Median	75th(Q3)		25th(Q1)	Median	75th(Q3)	
PLY	1995	3859	6986	100	6616	10116	14263	100
CbpA	780	9895	22362	100	22375	24667	25445	100
PspA	80	379	1074	90	497	1038	5726	94
PpmA	0	477	3259	64	775	3860	10579	96
SlrA	0	16	305	58	169	425	1108	100
PsaA	9805	16144	22050	100	17447	21977	23359	100
Hyl	604	7544	15813	94	13390	20532	23366	100
NanA	102	326	1217	94	974	2177	3124	100
Pht-E	76	891	6354	90	4380	11469	17470	100
Pht-D	1760	9227	21431	100	20325	24182	24852	100
Pilus-A	0	0	0	10	1	18	41	87
ENO	0	41	219	75	142	251	368	100
IgA-1	6	63	236	81	103	423	2321	100
Sp0189	905	3161	6483	100	5923	9168	11211	100
Sp0376	43	75	142	94	105	157	254	100
Sp1633	1012	2150	2952	100	2594	3019	4501	100
Sp1651	52	126	330	92	104	167	299	100

Median antibody titers are given. ^A Defined as percentage of children with measurable titers (MFI>0). n.a.: not applicable

Supplementary Table 3.

Interquartile range of titers (in MFI) to *S. aureus* proteins and percentage of children responsive to each protein at the age of 12 and 24 months.

Proteins	12 months (n=60)			Responsive in ^A (%)	24 months (n=60)			Responsive in ^A (%)
	25 th (Q1)	Median	75th(Q3)		25th(Q1)	Median	75th(Q3)	
ClfA	190	443	1651	100	88	365	1480	95
ClfB	108	393	2506	100	35	480	2308	78
SasG	52	85	194	100	0	0	38	37
IsdA	155	845	1845	100	213	767	1545	87
IsdH	132	210	844	100	0	74	698	68
FnbpA	98	152	245	100	0	73	247	68
FnbpB	203	297	502	100	59	167	766	83
SdrD	42	79	136	100	0	0	58	32
SdrE	48	68	459	100	0	27	488	53
SEA	118	156	264	100	0	69	276	72
SEB	37	54	102	100	0	0	0	18
SEC	149	242	705	100	0	64	2244	63
SED	124	211	354	100	39	93	219	80
SEE	34	49	60	100	0	0	0	17
SEG	60	74	111	100	0	4	52	52
SEH	39	46	82	100	0	0	0	18
SEI	47	62	85	100	0	0	2	25
SEJ	206	347	523	100	95	198	412	87
SEM	51	66	95	100	0	0	0	23
SEN	24	31	41	100	0	0	0	13
SEO	60	75	89	100	0	0	14	37
SEQ	20	30	44	100	0	0	0	7
SER	23	32	44	100	0	0	0	8
SSL-1	68	160	1220	100	0	51	986	62
SSL-3	n.a.	n.a.	n.a.	100	0	63	2576	55
SSL-5	95	496	1500	100	16	553	1806	82
SSL-9	n.a.	n.a.	n.a.	100	158	2124	6996	90
SSL-11	47	66	122	100	0	0	55	38
TSST-1	136	209	630	100	0	42	154	63
ETA	96	142	220	100	0	0	11	30
ETB	27	37	48	100	0	0	0	45
LukD	324	1741	4685	100	197	1321	5138	95
LukE	824	3257	8652	100	595	2686	10381	90
LukS	908	3766	5493	100	669	2400	6194	0
LukF	216	316	535	100	194	273	565	97
HlgB	n.a.	n.a.	n.a.	100	446	2689	7362	95
α -toxin	436	5093	9454	100	915	5931	11053	93
SCIN	146	1839	4389	100	24	1292	5513	83
CHIPS	108	1362	8706	100	0	2148	10329	73
Efb	296	484	1451	100	214	649	3537	95

Median antibody titers are given. ^A Defined as percentage of children with measurable titers (MFI>0). n.a.: not applicable