

## Supplementary material

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**Supplementary table S1. Paediatric health professionals who responded 'late', 'doubts', or 'no' to vaccinating their own children, survey about vaccine knowledge, attitudes and beliefs, Barcelona, 2016/17 (n=277)**

	<b>Late N (%)</b>	<b>No N (%)</b>	<b>Doubts N (%)</b>	<b>Missing values N (%)</b>
Diphtheria	3 (1.1)	0	0	10 (3.6)
Tetanus	3 (1.1)	0	0	9 (3.2)
Whooping cough	2 (0.7)	0	1 (0.4)	10 (3.6)
Polio	1 (0.4)	1 (0.4)	0	10 (3.6)
<i>H. Influenzae b</i>	2 (0.7)	2 (0.7)	0	11 (4.0)
Hepatitis B	9 (3.2)	3 (1.1)	0	12 (4.3)
<i>Meningococcus C</i>	2 (0.7)	3 (1.1)	0	10 (3.6)
Hepatitis A	13 (4.7)	5 (1.8)	1 (0.4)	9 (3.2)
Measles	1 (0.4)	1 (0.4)	0	10 (3.6)
Rubella	2 (0.7)	1 (0.4)	0	10 (3.6)
Parotitis	1 (0.4)	1 (0.4)	0	10 (3.6)
HPV	7 (2.5)	28 (10.1)	8 (2.9)	12 (4.3)
Varicella	13 (4.7)	19 (6.9)	10 (3.6)	13 (4.7)
<i>Pneumococcus</i>	7 (2.5)	10 (3.6)	1 (0.4)	9 (3.2)

**Supplementary table S2. Disease susceptibility perceived by paediatric health professionals, survey about vaccine knowledge, attitudes and beliefs, Barcelona, 2016/17 (n = 277)**

	<b>Impossible N (%)</b>	<b>Unlikely N (%)</b>	<b>Neither probable nor improbable N (%)</b>	<b>Probable N (%)</b>	<b>Very probable N (%)</b>	<b>DK/NR N (%)</b>
Diphtheria	2 (0.7)	152 (54.9)	20 (7.2)	77 (27.8)	16 (5.8)	10 (3.6)
Tetanus	3 (1.1)	88 (31.8)	35 (12.6)	104 (37.5)	36 (13.0)	11 (4.0)
Whooping cough	1 (0.4)	16 (5.8)	16 (5.8)	131 (47.3)	105 (37.9)	8 (2.9)
Polio	13 (4.7)	170 (61.4)	22 (7.9)	52 (18.8)	8 (2.9)	12 (4.3)
<i>H. Influenzae b</i>	2 (0.7)	58 (20.9)	47 (17.0)	127 (45.9)	25 (9.0)	18 (6.5)
Hepatitis B	2 (0.7)	79 (28.5)	41 (14.8)	120 (43.3)	24 (8.7)	11 (4.0)
<i>Meningococcus C</i>	0	93 (33.6)	50 (18.1)	109 (39.4)	12 (4.3)	12 (4.3)
Hepatitis A	1 (0.4)	65 (23.5)	48 (17.3)	112 (40.4)	36 (13.0)	15 (5.4)
Measles	1 (0.4)	64 (23.1)	38 (13.7)	132 (47.7)	35 (12.6)	7 (2.5)
Rubella	5 (1.8)	90 (32.5)	44 (15.9)	100 (36.1)	28 (10.1)	10 (3.6)
Parotitis	1 (0.4)	48 (17.3)	33 (11.9)	146 (52.7)	40 (14.4)	9 (3.3)
HPV	2 (0.7)	27 (9.7)	32 (11.5)	129 (46.6)	69 (24.9)	18 (6.5)
Varicella	2 (0.7)	5 (1.8)	3 (1.1)	68 (24.5)	193 (69.7)	6 (2.2)
<i>Pneumococcus</i>	0	32 (11.5)	44 (15.9)	141 (50.9)	50 (18.1)	10 (3.6)

DK/NR = Don't know/No Response

**Supplementary table S3. Disease severity perceived by paediatric health professionals, survey about vaccine knowledge, attitudes and beliefs, Barcelona, 2016/17 (n = 277)**

	<b>Not at all severe N (%)</b>	<b>Not severe N (%)</b>	<b>Somewhat severe N (%)</b>	<b>Severe N (%)</b>	<b>Very severe N (%)</b>	<b>DK/NR N (%)</b>
Diphtheria	0	4 (1.4)	25 (9.0)	88 (31.8)	153 (55.2)	7 (2.5)
Tetanus	0	2 (0.7)	15 (5.4)	83 (30.0)	168 (60.6)	9 (3.2)
Whooping cough	3 (1.1)	74 (26.7)	89 (32.1)	75 (27.1)	30 (10.8)	6 (2.2)
Polio	0	5 (1.8)	15 (5.4)	75 (27.1)	172 (62.1)	10 (3.6)
<i>H. Influenzae b</i>	2 (0.7)	24 (8.7)	82 (29.6)	104 (37.5)	52 (18.8)	13 (4.7)
Hepatitis B	1 (0.4)	12 (4.3)	57 (20.6)	131 (47.3)	68 (24.5)	8 (2.9)
<i>Meningococcus C</i>	0	3 (1.1)	18 (6.5)	74 (26.7)	174 (62.8)	8 (2.9)
Hepatitis A	4 (1.4)	85 (30.7)	109 (39.4)	56 (20.2)	16 (5.8)	7 (2.5)
Measles	2 (0.7)	49 (17.7)	101 (36.5)	90 (32.5)	28 (10.1)	6 (2.2)
Rubella	7 (2.5)	86 (31.0)	98 (35.4)	52 (18.8)	23 (8.3)	11 (4.0)
Parotitis	4 (1.4)	93 (33.6)	112 (40.4)	49 (17.7)	11 (4.0)	8 (2.9)
Varicella	15 (5.4)	157 (56.7)	73 (26.4)	21 (7.6)	5 (1.8)	6 (2.2)
<i>Pneumococcus</i>	2 (0.7)	19 (6.9)	74 (26.7)	103 (37.2)	71 (25.6)	8 (2.9)

DK/NR = Don't know/No Response

**Supplementary table S4. Vaccine safety perceived by paediatric health professionals, survey about vaccine knowledge, attitudes and beliefs, Barcelona, 2016/17 (n=277)**

	<b>Dangerous N (%)</b>	<b>Unsafe N (%)</b>	<b>Safe N (%)</b>	<b>Very safe N (%)</b>	<b>Totally safe N (%)</b>	<b>DK/NR N (%)</b>
Diphtheria	0	0	55 (19.9)	123 (44.4)	87 (31.4)	12 (4.3)
Tetanus	0	0	56 (20.2)	123 (44.4)	88 (31.8)	10 (3.6)
Whooping cough	0	5 (1.8)	63 (22.7)	121 (43.7)	78 (28.2)	10 (3.6)
Polio	0	0	54 (19.5)	128 (46.2)	83 (30.0)	12 (4.3)
<i>H. Influenzae b</i>	0	0	62 (22.4)	119 (43.0)	84 (30.3)	12 (4.3)
Hepatitis B	0	0	59 (21.3)	124 (44.8)	83 (30.0)	11 (4.0)
<i>Meningococcus C</i>	0	1 (0.4)	56 (20.2)	124 (44.8)	80 (28.9)	16 (5.8)
Hepatitis A	0	1 (0.4)	56 (20.2)	122 (44.0)	82 (29.6)	16 (5.8)
Measles	0	1 (0.4)	66 (23.8)	123 (44.4)	76 (27.4)	11 (4.0)
Rubella	0	0	66 (23.8)	122 (44.0)	77 (27.8)	12 (4.3)
Parotitis	0	2 (0.7)	65 (23.5)	120 (43.3)	76 (27.4)	14 (5.1)
HPV	1 (0.4)	14 (5.1)	81 (29.2)	103 (37.2)	55 (19.9)	23 (8.3)
Varicella	0	5 (1.8)	73 (26.4)	120 (43.3)	67 (24.2)	12 (4.3)
<i>Pneumococcus</i>	0	0	63 (22.7)	120 (43.3)	79 (28.5)	15 (5.4)

DK/NR = Don't know/No Response

**Supplementary table S5. Vaccine effectiveness perceived by paediatric health professionals, survey about vaccine knowledge, attitudes and beliefs, Barcelona, 2016/17 (n=277)**

	<b>No protection N (%)</b>	<b>Little protection N (%)</b>	<b>Some protection N (%)</b>	<b>Protects N (%)</b>	<b>Protects A lot N (%)</b>	<b>DK/NR N (%)</b>
Diphtheria	0	0	3 (1.1)	139 (50.2)	126 (45.5)	9 (3.2)
Tetanus	0	0	1 (0.4)	133 (48.0)	134 (48.4)	9 (3.2)
Whooping cough	0	22 (7.9)	93 (33.6)	117 (42.2)	36 (13.0)	9 (3.2)
Polio	0	1 (0.4)	1 (0.4)	128 (46.2)	137 (49.5)	10 (3.6)
<i>H. Influenzae b</i>	0	1 (0.4)	13 (4.7)	159 (57.4)	90 (32.5)	14 (5.1)
Hepatitis B	0	1 (0.4)	17 (6.1)	149 (53.8)	101 (36.5)	9 (3.2)
<i>Meningococcus C</i>	0	0	10 (3.6)	162 (58.5)	89 (32.1)	16 (5.8)
Hepatitis A	0	1 (0.4)	10 (3.6)	159 (57.4)	95 (34.3)	11 (4.0)
Measles	0	1 (0.4)	22 (7.9)	157 (56.7)	88 (31.8)	8 (2.9)
Rubella	0	1 (0.4)	14 (5.1)	155 (56.0)	96 (34.7)	11 (4.0)
Parotitis	0	2 (0.7)	51 (18.4)	150 (54.2)	64 (23.1)	10 (3.6)
HPV	0	6 (2.2)	59 (21.3)	155 (56.0)	28 (10.1)	29 (10.5)
Varicella	0	6 (2.2)	59 (21.3)	157 (56.7)	44 (15.9)	11 (4.0)
<i>Pneumococcus</i>	0	1 (0.4)	19 (6.9)	187 (67.5)	59 (21.3)	11 (4.0)

DK/NR = Don't know/No response