

S2 Table. Pooled estimates for coverage of hypothetical regional and global vaccine formulations.

		HS1/44	HS2	HS3c	HS4c	HS5/31	HS6/7	HS8/17	HS9	HS10	HS15	HS19	HS23/36	HS37	HS41	HS53	Including Non-Typable Strains					Excluding Non-Typable Strains				
		Global	Africa	Americas	Asia	Europe	Global	Africa	Americas	Asia	Europe	Global	Africa	Americas	Asia	Europe										
Monovalent	Global																10.6 (8.4, 13.2)	9.3 (6.2, 13.7)	13.4 (11.1, 16.0)	8.9 (5.9, 13.4)	13.4 (7.5, 22.8)	12.6 (10.2, 15.6)	11.3 (7.3, 17.2)	14.5 (12.1, 17.3)	11.0 (7.7, 15.4)	16.5 (9.5, 27.1)
Bivalent	Global, Af, As, E																19.1 (15.4, 23.4)	16.8 (11.5, 23.8)	19.5 (16.9, 22.4)	16.3 (10.6, 24.1)	28.8 (21.2, 37.8)	23.6 (19.4, 28.4)	20.6 (13.4, 30.2)	21.1 (18.4, 23.9)	20.9 (14.7, 28.7)	36.4 (28.4, 45.2)
	Americas																16.1 (13.3, 19.4)	18.6 (16.0, 21.4)	21.5 (18.9, 24.3)	13.6 (9.0, 20.1)	16.0 (9.8, 25.1)	20.4 (17.6, 23.6)	22.4 (19.4, 25.7)	23.2 (20.5, 26.2)	18.1 (13.3, 24.3)	19.8 (12.9, 29.3)
Quadrivalent	Global, Af, As																32.8 (28.1, 37.8)	31.8 (25.1, 39.2)	35.0 (30.9, 39.4)	30.2 (20.7, 41.6)	37.0 (30.0, 44.5)	40.9 (35.8, 46.2)	40.8 (32.4, 49.9)	38.3 (34.7, 42.1)	38.7 (28.5, 49.9)	45.8 (37.6, 54.2)
	Europe																30.9 (25.9, 36.4)	31 (26.8, 35.5)	29.6 (23.7, 36.3)	24.9 (16.3, 35.9)	41.8 (32.0, 52.4)	38.3 (32.5, 44.3)	38.4 (31.5, 45.9)	32.3 (25.6, 39.8)	31.7 (22.5, 42.6)	51.8 (40.0, 63.5)
	Americas																26.8 (23.2, 30.8)	26.1 (20.8, 32.2)	36.9 (33.3, 40.7)	25.6 (19.1, 33.5)	24.6 (17.9, 32.7)	34.0 (30.6, 37.6)	33.3 (27.1, 40.0)	40.1 (36.8, 43.4)	33.9 (28.0, 40.4)	30.2 (23.2, 38.2)
Hexavalent	Global																45.4 (39.0, 51.9)	47.0 (40.1, 54.0)	45.0 (38.9, 51.2)	39.4 (26.4, 54.2)	52.5 (41.9, 62.8)	56.6 (49.3, 63.6)	58.8 (47.7, 69.0)	48.9 (42.8, 55.0)	50.5 (36.5, 64.5)	65.7 (52.3, 77.0)
	Africa																43.8 (38.7, 49.0)	46.1 (38.8, 53.6)	41.9 (37.3, 46.5)	40.3 (30.3, 51.1)	47.8 (37.4, 58.3)	53.5 (48.6, 58.4)	56.6 (51.1, 62.0)	45.5 (41.4, 49.7)	51.2 (42.1, 60.3)	58.9 (47.3, 69.5)
	Asia																43.0 (37.9, 48.2)	41.3 (32.6, 50.5)	44.8 (41.1, 48.5)	43.2 (32.6, 54.6)	42.5 (37.7, 47.4)	53.5 (48.6, 58.2)	53.5 (44.2, 62.5)	48.4 (45.1, 51.8)	54.7 (45.3, 63.7)	53.8 (44.6, 62.8)
	Europe																42.4 (35.6, 49.5)	40.9 (35.6, 46.4)	38.7 (35.3, 42.2)	37.0 (22.0, 55.0)	55.8 (45.4, 65.7)	53.5 (45.3, 61.6)	49.5 (40.2, 58.8)	42.0 (38.7, 45.4)	46.6 (30.6, 63.4)	69.1 (56.9, 79.1)
	Americas																42.3 (37.1, 47.6)	38.1 (30.3, 46.5)	49.0 (44.6, 53.3)	41.3 (30.7, 52.7)	45.5 (37.8, 53.5)	52.7 (47.5, 57.8)	49.3 (39.3, 59.3)	53.3 (49.6, 56.9)	52.2 (42.6, 61.7)	57.1 (46.3, 67.3)
Octavalent	Global, Af, As																53.8 (47.7, 59.7)	53.5 (43.0, 63.6)	52.4 (48.3, 56.4)	54.1 (41.8, 66.0)	54.0 (43.9, 63.7)	66.9 (61.1, 72.2)	69.0 (59.3, 77.3)	56.8 (53.4, 60.1)	67.9 (56.9, 77.1)	67.6 (54.6, 78.4)
	Europe																50.9 (43.1, 58.5)	46.8 (39.1, 54.7)	46.9 (40.2, 53.8)	47.6 (29.3, 66.6)	63.4 (51.4, 73.9)	65.2 (56.4, 73.0)	60.3 (50.7, 69.2)	52.8 (43.5, 61.9)	59.9 (41.3, 76.1)	79.9 (64.7, 89.6)
	Americas																46.4 (40.8, 52.1)	41.4 (32.6, 50.9)	58.0 (51.1, 64.5)	45.4 (34.0, 57.3)	48.0 (41.5, 54.5)	57.7 (52.5, 62.7)	53.9 (43.2, 64.3)	63.3 (57.7, 68.6)	57.1 (47.3, 66.4)	59.9 (51.3, 68.0)
Decavalent	Global																60.1 (53.4, 66.4)	56.8 (46.3, 66.8)	64.9 (60.0, 69.5)	62.0 (48.1, 74.1)	59.0 (47.0, 70.1)	74.2 (68.6, 79.2)	73.2 (64.4, 80.6)	70.6 (66.9, 74.1)	76.7 (65.8, 84.9)	74.1 (59.5, 84.9)
	Africa																59.6 (52.6, 66.2)	59.4 (48.5, 69.4)	59.4 (54.6, 64.0)	60.8 (45.5, 74.2)	58.4 (47.3, 68.6)	73.9 (67.7, 79.3)	76.9 (66.9, 84.6)	64.4 (60.3, 68.3)	75.2 (62.4, 84.8)	72.7 (59.9, 82.7)
	Asia																60.1 (53.4, 66.4)	56.8 (46.3, 66.8)	64.9 (60.0, 69.5)	62.0 (48.1, 74.1)	59.0 (47.0, 70.1)	74.2 (68.6, 79.2)	73.2 (64.4, 80.6)	70.6 (66.9, 74.1)	76.7 (65.8, 84.9)	74.1 (59.5, 84.9)
	Europe																56.3 (48.3, 64.0)	49.7 (41.3, 58.2)	55.3 (47.5, 62.8)	54.1 (34.4, 72.6)	69.1 (57.8, 78.6)	71.9 (63.4, 79.1)	64.2 (54.1, 73.2)	61.8 (52.9, 70.0)	67.8 (48.6, 82.5)	86.0 (73.8, 93.0)
	Americas																53.8 (48.3, 59.2)	46.9 (37.4, 56.6)	65.7 (57.9, 72.8)	54.9 (44.1, 65.3)	52.0 (46.6, 57.3)	66.5 (61.9, 70.9)	61.1 (50.3, 71.0)	71.7 (65.4, 77.3)	68.3 (60.4, 75.2)	65.9 (58.7, 72.4)

Based on pooled prevalence estimates, different formulations for broadest possible coverage were assessed for each region (Af = Africa, As = Asia, E = Europe), as well as cumulatively (global). Shaded squares indicate inclusion of a capsule type in each respective formulation.