

Data Sheet 3. Herd immunity thresholds (I_c) values based on a range of basic reproductive number (R_0) values that cover the range reported for Ebolaviruses (numerical data underlying Figure 3A).

R_0	$I_c = 1 - (1/R_0)$
1	0
1.25	20.0
1.5	33.3
1.75	42.9
2	50.0
2.5	60.0
3	66.7
4	75.0
5	80.0
6	83.3
7	85.7
8	87.5
9	88.9
10	90.0
11	90.9
12	91.7
15	93.3
20	95.0

Critical vaccine coverage V_c values based on basic reproductive number (R_0) values that cover the range reported for Ebolaviruses and vaccine efficacies (E) that are in the range of those reported for approved vaccines (numerical data underlying Figure 3B).

R_0	$V_c = I_0/E$							
	$E = 0.5$	$E = 0.6$	$E = 0.7$	$E = 0.8$	$E = 0.9$	$E = 0.95$	$E = 0.99$	$E = 1.0$
1	0	0	0	0	0	0	0	0
1.25	40.0	33.3	28.6	25	22.2	21.1	20.2	20.0
1.5	66.7	55.6	47.6	41.7	37.0	35.1	33.7	33.3
1.75	85.7	71.4	61.2	53.6	47.6	45.1	43.3	42.9
2	100	83.3	71.4	62.5	55.6	52.6	50.5	50.0
2.5	120	100	85.7	75.0	66.7	63.2	60.6	60.0
3	133	111	95.2	83.3	74.1	70.2	67.3	66.7
4	150	125	107	93.8	83.3	78.9	75.8	75.0
5	160	133	114	100.0	88.9	84.2	80.8	80.0
6	167	1389	119	104	92.6	87.7	84.2	83.3
7	171	143	122	107	95.2	90.2	86.6	85.7
8	175	146	125	109	97.2	92.1	88.4	87.5
9	178	148	127	111	98.8	93.6	89.8	88.9
10	180	150	129	113	100	94.7	90.9	90.0
11	182	152	130	114	101	95.7	91.8	90.9
12	183	153	131	115	102	96.5	92.6	91.7
15	187	156	133	117	104	98.2	94.3	93.3
20	190	158	136	119	106	100	96.0	95.0