Supplementary Table 3: Percent reduction and probability of an increased burden from continual vaccination for an annual vaccination campaign in the baseline scenario, 60% of vaccinees delaying SARS CoV-2

Meas	ura	Population -	Baseline		28-day delay		Summer peak is largest		Single peak occurring in winter	
ivicas	uie		Single-dose	Two-doses 50+	Single-dose	Two-doses 50+	Single-dose	Two-doses 50+	Single-dose	Two-doses 50+
	Hospitalizati Incidence	Total	-1.1% (-8.4%–1.4%)	-0.5% (-6.0%-3.1%)	-0.1% (-0.5%–1.2%)		-0.5% (-10.3%–6.1%)	-0.1% (-5.7%–12.9%)	0.5% (-1.7%-3.3%)	0.6% (-1.5%-3.4%)
0		0–49	0.0% (-7.2%-3.0%)	0.4% (-5.4%-4.0%)	-0.1% (-0.4%-1.4%)		0.5% (-8.5%-8.2%)	0.8% (-5.2%-13.3%)	1.4% (-0.9%-4.4%)	1.4% (-0.8%-4.5%)
		50-64	-2.4% (-9.1%0.5%)	-1.5% (-6.4%-1.1%)	-0.1% (-0.5%-0.9%)		-1.6% (-10.9%-3.6%)	-1.0% (-5.5%-11.3%)	-0.8% (-2.0%-1.4%)	-0.7% (-1.8%–1.5%)
p-		65+	-5.8% (-15.2%1.8%)	-3.4% (-9.8%-2.5%)	-0.1% (-1.1%-1.1%)		-5.3% (-20.1%-0.7%)	-3.1% (-10.3%-12.1%)	-1.8% (-5.7%-2.3%)	-1.4% (-5.2%-2.6%)
tus		Total	1.3% (-5.8%-7.6%)	2.9% (-2.9%-10.0%)	-0.9% (-2.8%-0.3%)		1.0% (-8.2%-10.4%)	2.5% (-3.2%-17.7%)	5.6% (-0.1%-12.3%)	5.9% (0.1%-12.5%)
sta		0–49	6.4% (-1.2%-12.4%)	6.9% (0.2%-13.0%)	-0.6% (-1.6%-0.7%)		6.4% (-1.9%-15.5%)	6.8% (0.5%-19.8%)	9.0% (3.7%-15.1%)	9.1% (3.8%–15.1%)
ШC		50-64	0.3% (-5.5%-5.8%)	1.2% (-3.2%-7.2%)	-0.9% (-2.5%-0.1%)		0.0% (-7.1%-8.5%)	0.9% (-2.9%-15.0%)	3.5% (0.1%-9.8%)	3.6% (0.3%-9.9%)
Ţ		65+	-2.9% (-11.8%-5.6%)	-0.0% (-6.8%-9.9%)	-1.2% (-4.1%-0.3%)		-3.4% (-16.6%-6.6%)	-0.7% (-7.9%-16.2%)	3.1% (-3.6%-12.4%)	3.5% (-3.0%-12.9%)
ţior	Direct costs Deaths	Total	3.5% (-4.2%-12.3%)	5.7% (-1.7%-14.9%)	-2.4% (-5.8%0.6%)		1.9% (-7.6%-13.0%)	4.2% (-3.6%-21.1%)	10.8% (3.8%–19.6%)	11.2% (4.2%–19.9%)
ong		0–49	8.6% (1.6%-15.6%)	9.1% (2.8%-16.0%)	-1.0% (-2.3%-0.2%)		8.2% (1.2%-18.3%)	8.7% (2.8%-21.9%)	12.0% (6.4%–19.2%)	12.0% (6.5%-19.2%)
Percent reduction from status-quo		50-64	3.0% (-2.9%-9.8%)	3.9% (-1.4%-11.5%)	-1.6% (-3.9%0.5%)		1.9% (-4.1%-12.1%)	2.9% (-2.1%-18.4%)	8.2% (3.1%-15.6%)	8.2% (3.2%–15.7%)
ent		65+	2.4% (-7.4%-14.2%)	5.4% (-4.1%-18.3%)	-3.0% (-7.5%0.8%)		0.2% (-12.0%-13.6%)	3.4% (-6.5%-22.1%)	11.4% (2.0%-22.6%)	11.8% (2.5%-23.0%)
o e c		Total	2.6% (-5.0%-16.1%)	2.6% (-5.0%-16.1%)	-7.7% (-17.0%2.1%)		5.0% (-3.3%-13.9%)	5.0% (-3.3%-13.9%)	0.7% (-3.4%-10.3%)	0.7% (-3.4%-10.3%)
ъ.		0–49	6.4% (-1.2%-12.4%)	6.9% (0.2%-13.0%)	-0.6% (-1.6%-0.7%)		6.4% (-1.9%-15.5%)	6.8% (0.5%-19.8%)	9.0% (3.7%–15.1%)	9.1% (3.8%–15.1%)
	rect	50-64	0.3% (-5.5%-5.8%)	1.2% (-3.2%-7.2%)	-0.9% (-2.5%-0.1%)		0.1% (-7.1%-8.5%)	0.9% (-2.9%-15.0%)	3.5% (0.1%-9.8%)	3.6% (0.3%-9.9%)
	Ē	65+	-2.8% (-11.7%–5.7%)	0.0% (-6.7%–9.9%)	-1.2% (-4.2%–0.3%)		-3.4% (-16.4%–6.6%)	-0.6% (-7.9%–16.2%)	3.2% (-3.5%–12.5%)	3.6% (-2.8%-13.0%)
	Hospitalizati Incidence	Total	0.77	0.62	0.69		0.69	0.52	0.33	0.29
_		0–49	0.49	0.41	0.68		0.35	0.28	0.13	0.12
onb		50-64	0.99	0.94	0.78		0.95	0.86	0.84	0.81
-Sn		65+	0.99	0.93	0.63		0.97	0.88	0.87	0.81
stat		Total	0.32	0.14	0.95		0.35	0.17	0.03	0.02
Ē		0–49	0.04	0.02	0.91		0.04	0.02	0.00	0.00
ţ.		50–64	0.44	0.29	0.97		0.49	0.33	0.02	0.01
Probability of increase from status-quo		65+	0.77	0.50	0.95		0.82	0.57	0.20	0.15
	Deaths	Total	0.20	0.07	0.99		0.33	0.16	0.00	0.00
.⊑		0–49	0.01	0.00	0.96		0.02	0.01	0.00	0.00
o >:		50-64	0.16	0.09	0.99		0.25	0.14	0.00	0.00
bilit	Direct costs	65+	0.35	0.17	0.99		0.48	0.28	0.00	0.00
ba		Total	0.31	0.14	0.95		0.34	0.16	0.02	0.01
Pro		0–49	0.04	0.02	0.91		0.04	0.02	0.00	0.00
		50-64	0.44	0.29	0.97		0.49	0.33	0.02	0.01
		65+	0.77	0.50	0.95		0.81	0.56	0.19	0.13