

Untitled

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Efficacy estimates

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Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
	M	Primary series (no prior infection)	Pre-Omicron	97.4 (93.0 - 99.0)	Adult/Elderly	4 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	97.8 (83.7 - 99.7)	Adult/Elderly	8 to 13 weeks
		Primary series (no prior infection)	Pre-Omicron	100.0 (55.0 - 100.0)	Adult/Elderly	13 to 17 weeks
		Primary series (no prior infection)	Pre-Omicron	91.5 (60.8 - 98.1)	Adult/Elderly	17 to 21 weeks
		Primary series (no prior infection)	Pre-Omicron	93.8 (53.6 - 99.2)	Adult/Elderly	21 to 26 weeks
		Primary series (no prior infection)	Pre-Omicron	67.6 (-165.6 - 96.0)	Adult/Elderly	26 to 30 weeks
		Primary series (no prior infection)	Pre-Omicron	100.0 (-146.7 - 100.0)	Adult/Elderly	30 to 34 weeks
		Primary series (no prior infection)	Pre-Omicron	100.0 (-194.4 - 100.0)	Adult/Elderly	34+ weeks
	S	Primary series (no prior infection)	Pre-Omicron	88.5 (87.2 - 89.7)	Adult/Elderly	4 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	90.6 (88.7 - 92.1)	Adult/Elderly	8 to 13 weeks
		Primary series (no prior infection)	Pre-Omicron	86.5 (83.8 - 88.8)	Adult/Elderly	13 to 17 weeks
		Primary series (no prior infection)	Pre-Omicron	80.7 (77.0 - 83.8)	Adult/Elderly	17 to 21 weeks
		Primary series (no prior infection)	Pre-Omicron	72.1 (66.7 - 76.7)	Adult/Elderly	21 to 26 weeks
		Primary series (no prior infection)	Pre-Omicron	70.6 (62.7 - 76.8)	Adult/Elderly	26 to 30 weeks
		Primary series (no prior infection)	Pre-Omicron	29.9 (13.1 - 43.5)	Adult/Elderly	30 to 34 weeks
		Primary series (no prior infection)	Pre-Omicron	3.5 (-33.2 - 30.2)	Adult/Elderly	34+ weeks
		Primary series (no prior infection)	Pre-Omicron	79.9 (75.5 - 83.4)	Adult/Elderly	4 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	81.8 (75.2 - 86.6)	Adult/Elderly	8 to 13 weeks
		Primary series (no prior infection)	Pre-Omicron	66.1 (52.7 - 75.7)	Adult/Elderly	13 to 17 weeks
		Primary series (no prior infection)	Pre-Omicron	63.6 (48.8 - 74.2)	Adult/Elderly	17 to 21 weeks

Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
	P	Primary series (no prior infection)	Pre-Omicron	33.7 (3.7 - 54.4)	Adult/Elderly	21 to 26 weeks
		Primary series (no prior infection)	Pre-Omicron	30.8 (-13.0 - 57.6)	Adult/Elderly	26 to 30 weeks
		Primary series (no prior infection)	Pre-Omicron	-46.6 (-115.6 - 0.2)	Adult/Elderly	30 to 34 weeks
		Primary series (no prior infection)	Pre-Omicron	-28.4 (-129.3 - 28.1)	Adult/Elderly	34+ weeks
Adams_2022	M	Primary series (no prior infection)	Omicron	41.0 (25.0 - 54.0)	Adult/Elderly	2+ weeks
		Primary series (no prior infection)	Omicron	36.0 (21.0 - 48.0)	Adult/Elderly	2+ weeks
		Primary series (no prior infection)	Omicron	34.0 (21.0 - 45.0)	Adult/Elderly	151+ days
		Primary series (no prior infection)	Omicron	53.0 (33.0 - 67.0)	Adult/Elderly	14 to 150 days
		Primary series + booster dose (no prior infection)	Omicron	65.0 (55.0 - 73.0)	Adult/Elderly	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	68.0 (17.0 - 88.0)	Adult/Elderly	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	64.0 (55.0 - 72.0)	Adult/Elderly	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	73.0 (44.0 - 87.0)	Adult/Elderly	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	76.0 (69.0 - 81.0)	Adult/Elderly	7 to 120 days
		Primary series + booster dose (no prior infection)	Omicron	39.0 (22.0 - 53.0)	Adult/Elderly	121+ days
		Primary series + booster dose (no prior infection)	Omicron	62.0 (35.0 - 78.0)	Adult/Elderly	7 to 120 days
		Prior pre-Omicron infection	Pre-Omicron	91.0 (34.5 - 98.8)	Adult/Elderly	36 to 56 weeks
		Prior pre-Omicron infection	Pre-Omicron	89.4 (22.6 - 98.5)	Adult/Elderly	12 to 32 weeks
	S	Prior pre-Omicron infection	Pre-Omicron	93.4 (87.6 - 96.5)	Adult/Elderly	12 to 32 weeks
		Prior pre-Omicron infection	Pre-Omicron	91.1 (83.3 - 95.3)	Adult/Elderly	36 to 56 weeks
		Prior pre-Omicron infection	Pre-Omicron	87.1 (59.4 - 95.9)	Adult/Elderly	60+ weeks
		Prior pre-Omicron infection	Omicron	59.6 (50.7 - 67.0)	Adult/Elderly	60+ weeks
		Prior pre-Omicron infection	Omicron	64.0 (54.7 - 71.4)	Adult/Elderly	12 to 32 weeks
		Prior pre-Omicron infection	Omicron	47.2 (37.5 - 55.4)	Adult/Elderly	36 to 56 weeks
	M	Prior pre-Omicron infection	Pre-Omicron	69.4 (-143.6 - 96.2)	Adult/Elderly	2+ weeks
		Prior pre-Omicron infection	Pre-Omicron	100.0 (43.3 - 100.0)	Adult/Elderly	2+ weeks
		Prior pre-Omicron infection	Omicron	87.8 (47.5 - 97.1)	Adult/Elderly	2+ weeks
		Prior pre-Omicron infection	Pre-Omicron	95.3 (66.0 - 99.3)	Adult/Elderly	2+ weeks
		Prior pre-Omicron infection	Pre-Omicron	90.2 (81.9 - 94.6)	Adult/Elderly	2+ weeks

Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
Altarawneh_2022_3	M	Prior pre-Omicron infection	Omicron	61.9 (48.2 - 72.0)	Adult/Elderly	2+ weeks
		Prior pre-Omicron infection	Omicron	100.0 (15.1 - 100.0)	Adult	2+ weeks
	D	Prior pre-Omicron infection	Omicron	73.4 (0.2 - 92.9)	Adult	2+ weeks
		Prior pre-Omicron infection	Omicron	46.1 (39.5 - 51.9)	Adult	2+ weeks
		Prior pre-Omicron infection	Omicron	50.2 (38.1 - 59.9)	Adult	2+ weeks
		Primary series (no prior infection)	Omicron	-1.1 (-7.1 - 4.6)	Adult	2+ weeks
		Primary series (no prior infection)	Omicron	-4.9 (-16.4 - 5.4)	Adult	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	52.2 (48.1 - 55.9)	Adult	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	59.6 (52.9 - 65.3)	Adult	2+ weeks
		Primary series (prior pre-Omicron infection)	Omicron	55.1 (50.9 - 58.9)	Adult	2+ weeks
		Primary series (prior pre-Omicron infection)	Omicron	51.7 (43.5 - 58.7)	Adult	2+ weeks
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	77.3 (72.4 - 81.4)	Adult	2+ weeks
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	74.4 (63.4 - 82.2)	Adult	3+ weeks
		Primary series (no prior infection)	Omicron	76.8 (58.0 - 87.1)	Adult	2+ weeks
		Primary series (no prior infection)	Omicron	96.8 (71.1 - 99.0)	Adult	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	98.2 (91.9 - 99.6)	Adult	2+ weeks
		Primary series + booster dose (no prior infection)	Omicron	97.5 (71.7 - 99.8)	Adult	2+ weeks
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	100.0 (82.6 - 100.0)	Adult	2+ weeks
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	100.0 (30.6 - 100.0)	Adult	2+ weeks
		Primary series (prior pre-Omicron infection)	Omicron	97.8 (82.6 - 99.7)	Adult	2+ weeks
		Primary series (prior pre-Omicron infection)	Omicron	96.2 (37.7 - 99.8)	Adult	2+ weeks
	S	Prior pre-Omicron infection	Omicron	33.5 (29.3 - 37.5)	Adult	2+ weeks
		Prior Omicron infection	Omicron	80.2 (78.7 - 81.7)	Adult	2+ weeks
		Prior pre-Omicron infection	Omicron	38.1 (27.7 - 46.9)	Adult	2+ weeks
		Prior Omicron infection	Omicron	84.5 (81.1 - 87.2)	Adult	2+ weeks

Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
S		Prior pre-Omicron infection	Pre-Omicron	76.0 (73.0 - 79.0)	Adult	30+ weeks
		Prior pre-Omicron infection	Pre-Omicron	92.0 (86.0 - 95.0)	Adult	120 to 149 days
		Prior pre-Omicron infection	Pre-Omicron	93.0 (84.0 - 97.0)	Adult	90 to 119 days
		Prior pre-Omicron infection	Pre-Omicron	95.0 (85.0 - 99.0)	Adult	60 to 89 days
		Prior pre-Omicron infection	Pre-Omicron	86.0 (76.0 - 91.0)	Adult	150 to 179 days
		Prior pre-Omicron infection	Pre-Omicron	84.0 (74.0 - 90.0)	Adult	180 to 209 days
		Prior pre-Omicron infection	Pre-Omicron	70.0 (50.0 - 83.0)	Adult	30 to 59 days
		Prior pre-Omicron infection	Omicron	34.0 (31.0 - 38.0)	Adult	30+ weeks
		Prior pre-Omicron infection	Omicron	52.0 (45.0 - 58.0)	Adult	180 to 209 days
		Prior pre-Omicron infection	Omicron	55.0 (46.0 - 62.0)	Adult	120 to 149 days
		Prior pre-Omicron infection	Omicron	53.0 (43.0 - 60.0)	Adult	150 to 179 days
		Prior Omicron infection	Omicron	63.0 (58.0 - 67.0)	Adult	60 to 89 days
		Prior Omicron infection	Omicron	57.0 (52.0 - 62.0)	Adult	90 to 119 days
		Prior Omicron infection	Omicron	73.0 (66.0 - 79.0)	Adult	30 to 59 days
		Prior pre-Omicron infection	Pre-Omicron	77.0 (74.0 - 80.0)	Adult	30+ weeks
		Prior pre-Omicron infection	Pre-Omicron	92.0 (86.0 - 95.0)	Adult	120 to 149 days
		Prior pre-Omicron infection	Pre-Omicron	98.0 (86.0 - 100.0)	Adult	60 to 89 days
		Prior pre-Omicron infection	Pre-Omicron	94.0 (83.0 - 98.0)	Adult	90 to 119 days
		Prior pre-Omicron infection	Pre-Omicron	88.0 (78.0 - 93.0)	Adult	180 to 209 days
		Prior pre-Omicron infection	Pre-Omicron	84.0 (73.0 - 90.0)	Adult	150 to 179 days
		Prior pre-Omicron infection	Pre-Omicron	70.0 (48.0 - 83.0)	Adult	30 to 59 days
		Prior pre-Omicron infection	Omicron	37.0 (33.0 - 40.0)	Adult	30+ weeks
		Prior pre-Omicron infection	Omicron	53.0 (45.0 - 59.0)	Adult	180 to 209 days
		Prior pre-Omicron infection	Omicron	54.0 (44.0 - 62.0)	Adult	150 to 179 days
		Prior pre-Omicron infection	Omicron	51.0 (41.0 - 60.0)	Adult	120 to 149 days
		Prior Omicron infection	Omicron	62.0 (57.0 - 67.0)	Adult	60 to 89 days
		Prior Omicron infection	Omicron	55.0 (48.0 - 60.0)	Adult	90 to 119 days
		Prior Omicron infection	Omicron	73.0 (66.0 - 80.0)	Adult	30 to 59 days
		Primary series (prior Omicron infection)	Omicron	86.0 (81.0 - 90.0)	Adult	30 to 59 days
		Primary series (prior Omicron infection)	Omicron	82.0 (73.0 - 87.0)	Adult	60 to 89 days
		Primary series (prior pre-Omicron infection)	Omicron	63.0 (54.0 - 70.0)	Adult	30+ weeks

Study	Outcome	Type of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
Andeweg_2022	O	Primary series (prior pre-Omicron infection)	Omicron	68.0 (56.0 - 77.0)	Adult	90 to 119 days
		Primary series (prior pre-Omicron infection)	Omicron	52.0 (39.0 - 62.0)	Adult	180 to 209 days
		Primary series (prior pre-Omicron infection)	Omicron	52.0 (32.0 - 66.0)	Adult	150 to 179 days
		Primary series (prior pre-Omicron infection)	Omicron	53.0 (32.0 - 67.0)	Adult	120 to 149 days
		Primary series + booster dose (prior Omicron infection)	Omicron	81.0 (79.0 - 83.0)	Adult	30 to 59 days
		Primary series + booster dose (prior Omicron infection)	Omicron	76.0 (72.0 - 79.0)	Adult	60 to 89 days
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	70.0 (50.0 - 82.0)	Adult	90 to 119 days
	S	Primary series (prior Omicron infection)	Omicron	88.0 (86.0 - 89.0)	Adult	60 to 89 days
		Primary series (prior Omicron infection)	Omicron	88.0 (85.0 - 91.0)	Adult	30 to 59 days
		Primary series (prior pre-Omicron infection)	Omicron	85.0 (82.0 - 87.0)	Adult	90 to 119 days
		Primary series (prior pre-Omicron infection)	Omicron	81.0 (75.0 - 86.0)	Adult	120 to 149 days
		Primary series (prior pre-Omicron infection)	Omicron	66.0 (53.0 - 75.0)	Adult	150 to 179 days
		Primary series (prior pre-Omicron infection)	Omicron	67.0 (52.0 - 77.0)	Adult	180 to 209 days
		Primary series (prior pre-Omicron infection)	Omicron	68.0 (50.0 - 79.0)	Adult	30+ weeks
		Primary series + booster dose (prior Omicron infection)	Omicron	81.0 (79.0 - 82.0)	Adult	30 to 59 days
		Primary series + booster dose (prior Omicron infection)	Omicron	77.0 (73.0 - 80.0)	Adult	60 to 89 days
		Primary series + booster dose (prior pre-Omicron infection)	Omicron	66.0 (46.0 - 79.0)	Adult	90 to 119 days
		Primary series (no prior infection)	Pre-Omicron	91.3 (83.8 - 95.4)	All	2+ weeks
		Primary series (no prior infection)	Pre-Omicron	86.4 (79.3 - 91.1)	All	30+ days
		Primary series (no prior infection)	Pre-Omicron	81.5 (74.7 - 86.6)	All	60+ days
		Primary series (no prior infection)	Pre-Omicron	76.4 (68.6 - 82.4)	All	90+ days
		Primary series (no prior infection)	Pre-Omicron	70.8 (60.4 - 78.6)	All	150+ days

Andrejko_2022Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
		Primary series (no prior infection)	Pre-Omicron	64.7 (49.6 - 75.4)	All	120+ days
		Primary series (no prior infection)	Pre-Omicron	58.0 (36.1 - 72.4)	All	180+ days
		Primary series (no prior infection)	Pre-Omicron	53.2 (23.6 - 71.2)	All	28+ weeks
		Primary series (no prior infection)	Pre-Omicron	50.8 (19.7 - 69.8)	All	30+ weeks
		Primary series (no prior infection)	Pre-Omicron	42.9 (-0.1 - 67.1)	All	240+ days
		Primary series (no prior infection)	Pre-Omicron	38.4 (-11.9 - 65.6)	All	270+ days
		Primary series + booster dose (no prior infection)	Pre-Omicron	95.0 (82.8 - 98.6)	All	1+ weeks
	D	Primary series (no prior infection)	Pre-Omicron	89.5 (89.3 - 89.7)	Adult	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	92.4 (92.1 - 92.7)	Adult	7 to 13 days
		Primary series (no prior infection)	Pre-Omicron	84.3 (83.7 - 84.8)	Adult	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	88.3 (76.6 - 78.0)	Adult	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	72.1 (71.2 - 72.9)	Adult	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	72.9 (71.5 - 74.1)	Adult	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	69.2 (67.7 - 70.6)	Adult	20+ weeks
		Primary series (no prior infection)	Pre-Omicron	87.7 (86.0 - 89.2)	Adult	7 to 13 days
		Primary series (no prior infection)	Pre-Omicron	79.6 (77.0 - 81.8)	Elderly	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	69.4 (66.7 - 71.8)	Elderly	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	63.1 (60.2 - 65.9)	Elderly	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	54.9 (51.1 - 58.5)	Elderly	140 to 174 days
		Primary series (no prior infection)	Pre-Omicron	51.8 (45.4 - 57.4)	Elderly	25+ weeks
		Primary series (no prior infection)	Pre-Omicron	69.8 (52.4 - 80.8)	Adult	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	60.0 (25.4 - 78.6)	Elderly	7 to 13 days
		Primary series (no prior infection)	Pre-Omicron	93.8 (93.4 - 94.1)	All	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	94.9 (93.6 - 95.9)	All	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	94.8 (88.4 - 97.7)	All	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	100.0 (NA - NA)	Adult	1+ weeks
		Primary series (no prior infection)	Pre-Omicron	100.0 (NA - NA)	Elderly	1+ weeks
		Primary series (no prior infection)	Pre-Omicron	100.0 (NA - NA)	Adult	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	98.7 (96.3 - 97.3)	All	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	96.8 (96.3 - 97.3)	All	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	98.6 (97.9 - 99.1)	Adult	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	99.2 (98.3 - 99.6)	Adult	14 to 69 days

Study	Outcome	Type of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
M		Primary series (no prior infection)	Pre-Omicron	97.7 (96.9 - 98.3)	Adult	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	94.9 (94.1 - 95.5)	All	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	96.5 (95.3 - 97.4)	Adult	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	95.8 (94.4 - 96.9)	Elderly	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	99.2 (96.9 - 99.8)	Adult	7 to 13 days
		Primary series (no prior infection)	Pre-Omicron	93.4 (91.6 - 94.7)	Elderly	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	98.0 (95.9 - 99.1)	Elderly	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	90.5 (87.6 - 92.7)	Elderly	20+ weeks
		Primary series (no prior infection)	Pre-Omicron	93.8 (87.5 - 96.9)	Adult	20+ weeks
		Primary series (no prior infection)	Pre-Omicron	97.7 (90.8 - 99.4)	All	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	92.6 (81.6 - 97.0)	Elderly	14 to 69 days
		Primary series (no prior infection)	Pre-Omicron	87.8 (-15.4 - 98.7)	Elderly	10+ weeks
		Primary series (no prior infection)	Pre-Omicron	90.9 (89.6 - 92.0)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Pre-Omicron	85.5 (84.5 - 86.5)	Adult/Elderly	35 to 69 days
		Primary series (no prior infection)	Pre-Omicron	78.7 (78.0 - 79.4)	Adult/Elderly	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	74.4 (73.8 - 74.9)	Adult/Elderly	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	67.4 (66.5 - 68.2)	Adult/Elderly	140 to 174 days
		Primary series (no prior infection)	Pre-Omicron	62.7 (61.6 - 63.7)	Adult/Elderly	25+ weeks
		Primary series (no prior infection)	Pre-Omicron	94.5 (90.5 - 96.9)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Pre-Omicron	91.8 (89.6 - 93.6)	Adult/Elderly	35 to 69 days
		Primary series (no prior infection)	Pre-Omicron	84.1 (82.7 - 85.3)	Adult/Elderly	70 to 104 days
		Primary series (no prior infection)	Pre-Omicron	82.8 (81.8 - 83.7)	Adult/Elderly	105 to 139 days
		Primary series (no prior infection)	Pre-Omicron	76.2 (74.7 - 77.7)	Adult/Elderly	140 to 174 days
		Primary series (no prior infection)	Pre-Omicron	80.4 (67.3 - 88.2)	Adult/Elderly	25+ weeks
		Primary series + booster dose (no prior infection)	Pre-Omicron	92.3 (91.6 - 92.9)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	95.1 (94.8 - 95.4)	Adult/Elderly	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	91.8 (91.4 - 92.1)	Adult/Elderly	35 to 69 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	89.9 (89.2 - 90.5)	Adult/Elderly	10+ weeks
		Primary series + booster dose (no prior infection)	Pre-Omicron	93.7 (92.7 - 94.6)	Adult/Elderly	7 to 13 days

Study	Outcome	Type of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
		Primary series + booster dose (no prior infection)	Pre-Omicron	96.6 (96.0 - 97.1)	Adult/Elderly	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	94.9 (93.0 - 96.2)	Adult/Elderly	35 to 69 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	95.5 (92.5 - 97.3)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	94.7 (89.3 - 97.3)	Adult/Elderly	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	95.3 (92.1 - 97.2)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	96.4 (91.4 - 98.5)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Omicron	65.5 (63.9 - 67.0)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Omicron	48.7 (47.1 - 50.2)	Adult/Elderly	35 to 69 days
		Primary series (no prior infection)	Omicron	30.1 (28.7 - 31.5)	Adult/Elderly	70 to 104 days
		Primary series (no prior infection)	Omicron	15.4 (14.2 - 16.6)	Adult/Elderly	105 to 139 days
		Primary series (no prior infection)	Omicron	11.5 (10.1 - 12.9)	Adult/Elderly	140 to 174 days
		Primary series (no prior infection)	Omicron	8.8 (7.0 - 10.5)	Adult/Elderly	25+ weeks
		Primary series (no prior infection)	Omicron	75.1 (70.8 - 78.7)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Omicron	52.8 (48.2 - 57.1)	Adult/Elderly	35 to 69 days
		Primary series (no prior infection)	Omicron	35.6 (32.7 - 38.4)	Adult/Elderly	70 to 104 days
		Primary series (no prior infection)	Omicron	25.3 (23.2 - 27.4)	Adult/Elderly	105 to 139 days
		Primary series (no prior infection)	Omicron	15.0 (11.6 - 18.2)	Adult/Elderly	140 to 174 days
		Primary series (no prior infection)	Omicron	14.9 (3.9 - 24.7)	Adult/Elderly	25+ weeks
		Primary series + booster dose (no prior infection)	Omicron	66.9 (66.1 - 67.6)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Omicron	67.2 (66.5 - 67.8)	Adult/Elderly	14 to 34 days
		Primary series + booster dose (no prior infection)	Omicron	55.0 (54.2 - 55.8)	Adult/Elderly	35 to 69 days
		Primary series + booster dose (no prior infection)	Omicron	45.7 (44.7 - 46.7)	Adult/Elderly	10+ weeks
		Primary series + booster dose (no prior infection)	Omicron	74.0 (73.1 - 74.9)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Omicron	73.9 (73.1 - 74.6)	Adult/Elderly	14 to 34 days

Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
		Primary series + booster dose (no prior infection)	Omicron	64.4 (62.6 - 66.1)	Adult/Elderly	35 to 69 days
		Primary series + booster dose (no prior infection)	Omicron	64.3 (61.7 - 66.8)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Omicron	64.9 (62.3 - 67.3)	Adult/Elderly	14 to 34 days
		Primary series + booster dose (no prior infection)	Omicron	68.1 (65.6 - 70.5)	Adult/Elderly	7 to 13 days
		Primary series + booster dose (no prior infection)	Omicron	66.3 (63.7 - 68.8)	Adult/Elderly	14 to 34 days
		Primary series (no prior infection)	Pre-Omicron	65.3 (64.7 - 65.9)	Adult	2+ weeks
		Primary series (no prior infection)	Pre-Omicron	61.2 (59.8 - 62.5)	Adult	2+ weeks
		Primary series + booster dose (no prior infection)	Pre-Omicron	93.9 (93.6 - 94.2)	Adult	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	94.4 (94.1 - 94.7)	Adult	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	92.9 (92.5 - 93.3)	Adult	35 to 69 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	92.1 (91.6 - 92.5)	Adult	35 to 69 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	92.1 (91.5 - 92.7)	Adult	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	88.9 (88.2 - 89.5)	Adult	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	93.0 (88.8 - 95.6)	Adult	10+ weeks
		Primary series + booster dose (no prior infection)	Pre-Omicron	92.0 (87.5 - 94.8)	Adult	10+ weeks
		Primary series + booster dose (no prior infection)	Pre-Omicron	94.8 (92.7 - 96.3)	Adult	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	96.7 (94.4 - 98.1)	Adult	14 to 34 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	89.9 (87.3 - 92.0)	Adult	7 to 13 days
		Primary series + booster dose (no prior infection)	Pre-Omicron	91.9 (89.0 - 94.0)	Adult	7 to 13 days
		Primary series (no prior infection)	Pre-Omicron	92.1 (90.8 - 93.2)	Adult	2+ weeks
		Primary series (no prior infection)	Pre-Omicron	94.8 (93.3 - 96.0)	Adult	2+ weeks

Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
M	Primary series + booster dose (no prior infection)	Pre-Omicron	98.6 (98.0 - 99.0)	Adult	14 to 34 days
	Primary series + booster dose (no prior infection)	Pre-Omicron	98.5 (97.6 - 99.0)	Adult	7 to 13 days
	Primary series + booster dose (no prior infection)	Pre-Omicron	98.7 (97.8 - 99.2)	Adult	35 to 69 days
	Primary series + booster dose (no prior infection)	Pre-Omicron	98.8 (97.2 - 99.5)	Adult	14 to 34 days
	Primary series + booster dose (no prior infection)	Pre-Omicron	99.1 (96.4 - 99.8)	Adult	35 to 69 days
	Primary series + booster dose (no prior infection)	Pre-Omicron	98.9 (95.8 - 99.7)	Adult	7 to 13 days
D	Primary series (no prior infection)	Pre-Omicron	88.0 (82.0 - 93.0)	Adult/Elderly	2 to 12 weeks
	Primary series (no prior infection)	Pre-Omicron	87.0 (38.0 - 97.0)	Adult/Elderly	12 to 24 weeks
	Primary series (no prior infection)	Omicron	52.0 (40.0 - 62.0)	Adult/Elderly	2 to 12 weeks
	Primary series (no prior infection)	Omicron	49.0 (34.0 - 61.0)	Adult/Elderly	12 to 24 weeks
	Primary series + booster dose (no prior infection)	Omicron	74.0 (62.0 - 83.0)	Adult/Elderly	2+ weeks
S	Primary series (no prior infection)	Pre-Omicron	74.0 (65.0 - 82.0)	All	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	86.0 (79.0 - 91.0)	Adult/Elderly	2 to 5 weeks
	Primary series (no prior infection)	Pre-Omicron	53.0 (47.0 - 59.0)	Adult/Elderly	22 to 25 weeks
	Primary series (no prior infection)	Pre-Omicron	45.0 (39.0 - 51.0)	Adult/Elderly	26+ weeks
	Primary series (no prior infection)	Pre-Omicron	77.0 (69.0 - 83.0)	Adult/Elderly	6 to 13 weeks
	Primary series (no prior infection)	Pre-Omicron	57.0 (50.0 - 64.0)	Adult/Elderly	18 to 21 weeks
	Primary series (no prior infection)	Pre-Omicron	60.0 (48.0 - 69.0)	Adult/Elderly	14 to 17 weeks
M	Primary series (no prior infection)	Pre-Omicron	93.5 (86.0 - 97.0)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	89.8 (89.2 - 90.5)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	78.0 (69.0 - 84.4)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	84.3 (83.6 - 84.9)	Adult/Elderly	2+ weeks
D	Primary series (no prior infection)	Pre-Omicron	89.8 (NA - NA)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	76.7 (NA - NA)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	91.5 (90.3 - 92.4)	Adult/Elderly	2+ weeks
	Primary series (no prior infection)	Pre-Omicron	80.3 (80.1 - 80.6)	Adult/Elderly	2+ weeks

Study	Outcome	Tye of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
Berec_2022	S	Prior pre-Omicron infection	Pre-Omicron	97.0 (97.0 - 97.0)	All	8 to 16 weeks
		Prior pre-Omicron infection	Pre-Omicron	91.0 (90.0 - 91.0)	All	20 to 24 weeks
		Prior pre-Omicron infection	Pre-Omicron	83.0 (82.0 - 84.0)	All	4 to 8 weeks
		Prior pre-Omicron infection	Pre-Omicron	72.0 (65.0 - 78.0)	All	68 to 72 weeks
	M	Primary series (no prior infection)	Pre-Omicron	96.0 (91.0 - 98.0)	All	0 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	88.0 (82.0 - 92.0)	All	32+ weeks
		Primary series (no prior infection)	Pre-Omicron	92.0 (90.0 - 93.0)	All	0 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	83.0 (81.0 - 86.0)	All	28 to 32 weeks
		Primary series (no prior infection)	Pre-Omicron	94.0 (92.0 - 96.0)	All	0 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	81.0 (78.0 - 84.0)	All	28 to 32 weeks
		Primary series (no prior infection)	Pre-Omicron	90.0 (89.0 - 91.0)	All	0 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	75.0 (73.0 - 76.0)	All	28 to 32 weeks
		Primary series (no prior infection)	Pre-Omicron	90.0 (89.0 - 91.0)	All	0 to 8 weeks
		Primary series (no prior infection)	Pre-Omicron	65.0 (63.0 - 67.0)	All	28 to 32 weeks
	S	Prior pre-Omicron infection	Pre-Omicron	83.0 (80.0 - 88.0)	All	14 to 50 days
		Prior pre-Omicron infection	Pre-Omicron	64.0 (61.0 - 65.0)	All	150 to 200 days
		Prior pre-Omicron infection	Pre-Omicron	79.0 (74.0 - 83.0)	All	14 to 50 days
		Primary series (no prior infection)	Pre-Omicron	82.0 (79.0 - 84.0)	All	14 to 50 days
		Primary series (no prior infection)	Pre-Omicron	72.0 (70.0 - 74.0)	All	14 to 50 days
		Primary series (prior pre-Omicron infection)	Pre-Omicron	87.0 (NA - NA)	All	0 to 50 days
		Primary series (prior pre-Omicron infection)	Pre-Omicron	82.0 (81.0 - 83.0)	All	150 to 200 days
		Primary series (no prior infection)	Pre-Omicron	95.1 (91.8 - 97.1)	Adult	14 to 60 days
Braeye_2022_2	D	Prior pre-Omicron infection	Omicron	23.0 (21.0 - 26.0)	Adult/Elderly	2 to 74 weeks
		Prior pre-Omicron infection	Omicron	14.0 (12.0 - 17.0)	Adult/Elderly	26 to 126 weeks
		Prior pre-Omicron infection	Omicron	39.0 (37.0 - 48.0)	Adult/Elderly	2 to 22 weeks
		Prior Omicron infection	Omicron	75.0 (72.0 - 80.0)	Adult/Elderly	2 to 48 weeks
		Primary series (no prior infection)	Pre-Omicron	89.2 (85.4 - 92.0)	Adult	61 to 90 days
		Primary series (no prior infection)	Pre-Omicron	86.2 (80.9 - 90.1)	Adult	91 to 120 days
		Primary series (no prior infection)	Pre-Omicron	80.4 (71.7 - 86.4)	Adult	121 to 150 days
		Primary series (no prior infection)	Pre-Omicron	80.0 (70.2 - 86.6)	Adult	151 to 180 days
		Primary series (no prior infection)	Pre-Omicron	80.0 (70.2 - 86.6)	Adult	151 to 180 days

	Study	Outcome	Type of Immunity (vs naive)	Strain	Estimate	Age range	Time since immune conferring event
Bruxvoort	S		Primary series (no prior infection)	Pre-Omicron	79.4 (68.8 - 86.3)	Adult	151 to 180 days
			Primary series (no prior infection)	Pre-Omicron	52.9 (0.0 - 86.6)	Elderly	14 to 60 days
			Primary series (no prior infection)	Pre-Omicron	85.7 (57.9 - 95.1)	Elderly	61 to 90 days
			Primary series (no prior infection)	Pre-Omicron	85.8 (68.9 - 93.5)	Elderly	91 to 120 days
			Primary series (no prior infection)	Pre-Omicron	62.3 (32.4 - 79.0)	Elderly	121 to 150 days
			Primary series (no prior infection)	Pre-Omicron	90.8 (25.6 - 98.9)	Elderly	151 to 180 days
Buchan_2022	M		Primary series + booster dose (no prior infection)	Pre-Omicron	100.0 (98.0 - 100.0)	Adult/Elderly	1+ weeks
			Primary series + booster dose (no prior infection)	Pre-Omicron	99.0 (98.0 - 99.0)	Adult/Elderly	1+ weeks
			Primary series (no prior infection)	Pre-Omicron	99.0 (98.0 - 99.0)	Adult/Elderly	120 to 179 days
			Primary series (no prior infection)	Pre-Omicron	97.0 (96.0 - 98.0)	Adult/Elderly	180 to 239 days