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**Supplementary Table 1: test**

Characteristic	65+ years			16-64 years and clinically vulnerable			40-64 years			18-39 years		
	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	Unvaccinated	Unvaccinated
History of												
Chronic heart disease	202,309 (31%)	197,117 (23%)	36,791 (23%)	88,518 (24%)	147,068 (23%)	57,280 (17%)	107 (0%)	2,820 (0%)	825 (0%)	263 (0%)	703 (0%)	
Chronic kidney disease	114,926 (18%)	81,204 (10%)	19,183 (12%)	21,861 (6%)	33,327 (5%)	10,007 (3%)	18 (0%)	484 (0%)	101 (0%)	25 (0%)	58 (0%)	
Chronic liver disease	19,288 (3%)	28,213 (3%)	4,605 (3%)	28,874 (8%)	62,393 (10%)	37,322 (11%)	77 (0%)	1,386 (0%)	515 (0%)	366 (0%)	552 (0%)	
Chronic neurological disease	72,123 (11%)	70,827 (8%)	15,263 (9%)	59,845 (16%)	103,934 (16%)	53,881 (16%)	30 (0%)	765 (0%)	260 (0%)	191 (0%)	424 (0%)	
Chronic respiratory disease	69,423 (11%)	79,803 (9%)	13,071 (8%)	31,643 (8%)	56,725 (9%)	19,647 (6%)	21 (0%)	712 (0%)	245 (0%)	78 (0%)	147 (0%)	
Diabetes	119,048 (18%)	138,650 (16%)	28,891 (18%)	126,680 (34%)	186,384 (29%)	76,752 (23%)	143 (0%)	3,763 (0%)	1,167 (0%)	763 (0%)	2,832 (0%)	
Immunosuppression	66,843 (5%)	43,226 (5%)	5,273 (3%)	43,765 (12%)	75,855 (12%)	27,628 (8%)	27 (0%)	797 (0%)	229 (0%)	243 (0%)	440 (0%)	
Learning disability	731 (0%)	1,385 (0%)	418 (0%)	12,776 (3%)	23,395 (4%)	12,246 (4%)	- (-%)	29 (0%)	9 (0%)	61 (0%)	120 (0%)	
Serious mental illness	5,545 (1%)	8,921 (1%)	3,904 (2%)	17,155 (5%)	32,180 (5%)	33,972 (10%)	81 (0%)	2,362 (0%)	2,631 (0%)	279 (0%)	2,223 (0%)	
JCVI group												
02	229,030 (35%)	26,945 (3%)	37,397 (23%)									
03	42,938 (7%)	27,838 (3%)	30,285 (19%)									
04	289,584 (44%)	559,786 (67%)	44,149 (27%)	63,494 (17%)	132,841 (20%)	32,546 (10%)						
05	92,039 (14%)	227,050 (27%)	51,625 (32%)									
06				310,829 (83%)	519,058 (80%)	297,617 (90%)						
07							8,659 (14%)	344,386 (24%)	54,607 (8%)			
08							4,158 (7%)	452,233 (31%)	87,516 (13%)			
09							3,320 (5%)	301,860 (21%)	117,765 (18%)			
10							46,533 (74%)	365,627 (25%)	389,037 (60%)			

Characteristic	65+ years			16-64 years and clinically vulnerable			40-64 years			18-39 years		
	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	ChAdOx	Unvaccinated	BNT162b2	Unvaccinated	Unvaccinated
11										355,923 (52%)	695,132 (50%)	
12										327,958 (48%)	698,522 (50%)	
Region												
East	126,300 (19%)	197,813 (24%)	36,217 (22%)	81,613 (22%)	151,574 (23%)	67,813 (21%)	13,493 (22%)	375,836 (26%)	145,237 (22%)	164,216 (24%)	309,262 (22%)	
East Midlands	129,665 (20%)	141,086 (17%)	25,209 (15%)	64,650 (17%)	133,633 (20%)	56,298 (17%)	11,753 (19%)	247,843 (17%)	99,213 (15%)	118,482 (17%)	228,431 (16%)	
London	23,486 (4%)	16,350 (2%)	22,127 (14%)	14,689 (4%)	28,242 (4%)	37,055 (11%)	3,613 (6%)	63,577 (4%)	109,085 (17%)	53,002 (8%)	198,586 (14%)	
North East	36,364 (6%)	42,764 (5%)	6,884 (4%)	19,076 (5%)	32,590 (5%)	17,915 (5%)	1,743 (3%)	63,218 (4%)	26,208 (4%)	26,890 (4%)	64,000 (5%)	
North West	70,534 (11%)	90,501 (11%)	10,916 (7%)	45,327 (12%)	59,346 (9%)	26,357 (8%)	6,424 (10%)	147,596 (10%)	41,811 (6%)	59,579 (9%)	93,039 (7%)	
South East	44,000 (7%)	62,902 (7%)	11,348 (7%)	20,720 (6%)	43,334 (7%)	17,347 (5%)	5,794 (9%)	101,723 (7%)	39,036 (6%)	38,266 (6%)	81,155 (6%)	
South West	115,759 (18%)	142,827 (17%)	20,064 (12%)	63,071 (17%)	89,627 (14%)	31,743 (10%)	12,725 (20%)	232,023 (16%)	63,983 (10%)	118,269 (17%)	130,559 (9%)	
West Midlands	17,675 (3%)	25,829 (3%)	8,893 (5%)	14,088 (4%)	26,349 (4%)	20,328 (6%)	1,334 (2%)	39,474 (3%)	32,648 (5%)	23,185 (3%)	78,623 (6%)	
Yorkshire and The Humber	89,808 (14%)	121,547 (14%)	21,798 (13%)	51,089 (14%)	87,204 (13%)	55,307 (17%)	5,791 (9%)	192,816 (13%)	91,704 (14%)	81,992 (12%)	209,999 (15%)	
Resident in long-term residential home												
yes	214 (0%)	351 (0%)	111 (0%)	671 (0%)	2,499 (0%)	1,092 (0%)	- (-%)	85 (0%)	149 (0%)	17 (0%)	247 (0%)	
N	653,591	841,619	163,456	374,323	651,899	330,163	62,670	1,464,106	648,925	683,881	1,393,654	