HXB2 Position	Seq Feature	No. of Cases (V vs. P) (Incidence per 100 PYRs)	VE/9/, VOE9/ CIV		Two-sided	Two-sided Differential VE  FWER  P-value  Q-value		
			VE(%)(95% CI)		P-value		P-value	
60	N	111 (2.7) vs. 103 (2.6)	-6.5 (-39.3, 18.5)	<del></del>	0.64	0.31	1	0.82
0.4	Not N	8 (0.2) vs. 12 (0.3)	34.1 (-61.2, 73.1)	=	0.36	0.54		0.00
61	A	22 (0.5) vs. 25 (0.6)	13.0 (–54.2, 51.0)	-	0.63	0.54	1	0.92
	Not A	97 (2.4) vs. 90 (2.2)	-6.6 (-42.0, 20.0)	<del></del>	0.66			
61	I	14 (0.3) vs. 21 (0.5)	34.0 (–29.7, 66.5)		0.23	0.17	1	0.65
	Not I	105 (2.6) vs. 94 (2.3)	-10.4 (-45.8, 16.4)	<b>←=</b>	0.49			
61	Т	52 (1.3) vs. 44 (1.1)	-16.9 (-74.6, 21.8)		0.45	0.4	1	0.85
	Not T	67 (1.6) vs. 71 (1.8)	6.7 (-30.2, 33.2)	<b>←</b>	0.68			
61	V	00 (0 5) 00 (0 5)	0.7 ( 00.4, 40.7)		0.70	0.83	1	0.96
	V Not V	22 (0.5) vs. 20 (0.5) 97 (2.4) vs. 95 (2.4)	-8.7 (-99.1, 40.7) -1.0 (-34.0, 23.9)	<b>—</b>	0.79 0.95			
64	_					0.055	0.99	0.57
	E Not E	104 (2.6) vs. 109 (2.7) 15 (0.4) vs. 6 (0.1)	5.7 (-23.4, 27.9) -147.0 (-536.6, 4.2)	<del></del>	0.67 0.061			
65			,			0.31	1	0.82
	l Not l	49 (1.2) vs. 55 (1.4) 70 (1.7) vs. 60 (1.5)	12.0 (–29.4, 40.1) –15.4 (–62.9, 18.3)		0.52 0.42			
65		· , ,	·			0.17	1	0.66
	L Not L	56 (1.4) vs. 44 (1.1) 63 (1.5) vs. 71 (1.8)	-25.9 (-86.8, 15.2) 12.3 (-23.1, 37.5)		0.25 0.45			
65	NOLE	03 (1.3) vs. 71 (1.0)	12.5 (-25.1, 57.5)	<u>-</u>	0.43	0.36	1	0.82
	V Not V	11 (0.3) vs. 15 (0.4)	27.5 (-57.9, 66.7)		0.42			
66	NOL V	108 (2.6) vs. 100 (2.5)	-6.8 (-40.1, 18.7)		0.64	0.12	1	0.65
	K	17 (0.4) vs. 9 (0.2)	-86.2 (-317.8, 17.0)		0.13			
66	Not K	102 (2.5) vs. 106 (2.6)	4.8 (-24.9, 27.5)		0.72	0.0049	0.28	0.14*
	R	88 (2.2) vs. 102 (2.5)	14.7 (-13.5, 35.8)	-	0.28			
68	Not R	31 (0.8) vs. 13 (0.3)	-135.3 (-349.7, -23.1)	4	0.0096	0.92	1	0.96
	K	104 (2.6) vs. 101 (2.5)	-1.8 (-33.8, 22.6)	-	0.9	0.02	·	0.00
68	Not K	15 (0.4) vs. 14 (0.3)	-6.1 (-119.8, 48.8)	<del></del>	0.87	0.92	1	0.96
00	R	14 (0.3) vs. 14 (0.3)	1.0 (-107.7, 52.8)	<del></del>	0.98	0.92	•	0.90
70	Not R	105 (2.6) vs. 101 (2.5)	-2.8 (-35.0, 21.8)	-	0.85	0.4		0.05
70	K	52 (1.3) vs. 44 (1.1)	-16.9 (-74.7, 21.7)	<b>←■</b>	0.45	0.4	1	0.85
	Not K	67 (1.6) vs. 71 (1.8)	6.8 (-30.2, 33.2)	<del></del>	0.68			
70	Q	38 (0.9) vs. 36 (0.9)	-4.4 (-64.6, 33.8)	<b>←■</b>	0.85	0.92	1	0.96
	Not Q	81 (2) vs. 79 (2)	-1.4 (-38.2, 25.7)		0.93			
70	R	14 (0.3) vs. 21 (0.5)	34.3 (-29.2, 66.6)		0.22	0.17	1	0.65
	Not R	105 (2.6) vs. 94 (2.3)	-10.5 (-45.9, 16.4)	<b>←■</b>	0.48			
71	K	69 (1.7) vs. 77 (1.9)	11.4 (–22.6, 36.0)		0.47	0.16	1	0.65
	Not K	50 (1.2) vs. 38 (0.9)	-30.0 (-98.2, 14.7)	<b>-</b>	0.47			
71	N	0 (0 0) - 7 (0 0)	10.0 / 011.0 50.1)		0.00	0.84	1	0.96
	N Not N	8 (0.2) vs. 7 (0.2) 111 (2.7) vs. 108 (2.7)	-12.8 (-211.2, 59.1) -1.6 (-32.4, 22.0)		0.82 0.91			
71	_					0.14	1	0.65
	Q Not Q	23 (0.6) vs. 14 (0.3) 96 (2.4) vs. 101 (2.5)	-62.5 (-215.9, 16.4) 6.0 (-24.2, 28.9)	-	0.15 0.66			
71			,,			0.82	1	0.96
	R Not R	7 (0.2) vs. 6 (0.1) 112 (2.7) vs. 109 (2.7)	-15.4 (-243.3, 61.2) -1.6 (-32.2, 22.0)		0.8 0.91			
72	NOUN	112 (2.1) vs. 109 (2.1)	-1.0 (-32.2, 22.0)		0.91	0.77	1	0.95
	A Not A	25 (0.6) vs. 26 (0.6)	5.0 (-64.5, 45.1)		0.86			
72	NOLA	94 (2.3) vs. 89 (2.2)	-4.4 (-39.5, 21.9)		0.77	0.15	1	0.65
	E	51 (1.3) vs. 60 (1.5)	16.0 (-22.1, 42.1)	-	0.36			
72	Not E	68 (1.7) vs. 55 (1.4)	-22.2 (-74.4, 14.3)	<b>48</b>	0.27	0.25	1	0.78
	Q	5 (0.1) vs. 9 (0.2)	45.1 (-63.9, 81.6)	•	0.28			
72	Not Q	114 (2.8) vs. 106 (2.6)	-6.3 (-38.5, 18.4)		0.65	0.18	1	0.68
-	V	22 (0.5) vs. 14 (0.3)	-55.4 (-203.7, 20.5)	-	0.2	0110	·	0.00
73	Not V	97 (2.4) vs. 101 (2.5)	5.1 (-25.4, 28.1)	-	0.71	0.15	1	0.65
73	Н	11 (0.3) vs. 5 (0.1)	-117.3 (-525.3, 24.5)	<del></del>	0.15	0.15	ı	0.05
70	Not H	108 (2.6) vs. 110 (2.7)	2.9 (-26.6, 25.6)	-	0.83	0.040	0.04	0.00
73	Υ	85 (2.1) vs. 98 (2.4)	14.2 (–14.7, 35.8)	-	0.3	0.012	0.61	0.23
	Not Y	34 (0.8) vs. 17 (0.4)	-97.4 (-253.4, -10.3)	<b>←</b>	0.022			
75	L	110 (2.7) vs. 108 (2.7)	-0.7 (-31.3, 22.8)	<del></del>	0.96	0.66	1	0.95
	Not L	9 (0.2) vs. 7 (0.2)	-27.0 (-241.1, 52.7)	-	0.63			
78	K	44 (1.1) vs. 46 (1.1)	5.3 (-43.1, 37.4)	<b>—</b>	0.79	0.63	1	0.94
	Not K	75 (1.8) vs. 69 (1.7)	-7.4 (-48.9, 22.6)	<b>←■</b>	0.67			
78	R	67 (1.6) vs. 61 (1.5)	-8.6 (-53.6, 23.3)		0.64	0.62	1	0.94
	Not R	52 (1.3) vs. 54 (1.3)	4.8 (-39.4, 34.9)	<	0.64			
79	1		45.0 ( .00.0 .15.5)		0.40	0.31	1	0.82
	L Not L	70 (1.7) vs. 60 (1.5) 49 (1.2) vs. 55 (1.4)	-15.3 (-62.8, 18.3) 11.9 (-29.4, 40.1)		0.42 0.52			
79						0.24	1	0.78
	P Not P	16 (0.4) vs. 22 (0.5) 103 (2.5) vs. 93 (2.3)	28.0 (-37.0, 62.2) -9.5 (-44.9, 17.3)	-	0.32 0.53			
79						0.92	1	0.96
	_	15 (0.4) vs. 14 (0.3)	-5.8 (-119.1, 49.0)	<b>←</b>	0.88			
	S Not S	104 (2.6) vs. 101 (2.5)	-1.8 (-33.9, 22.6)	<b>←</b>	0.9			