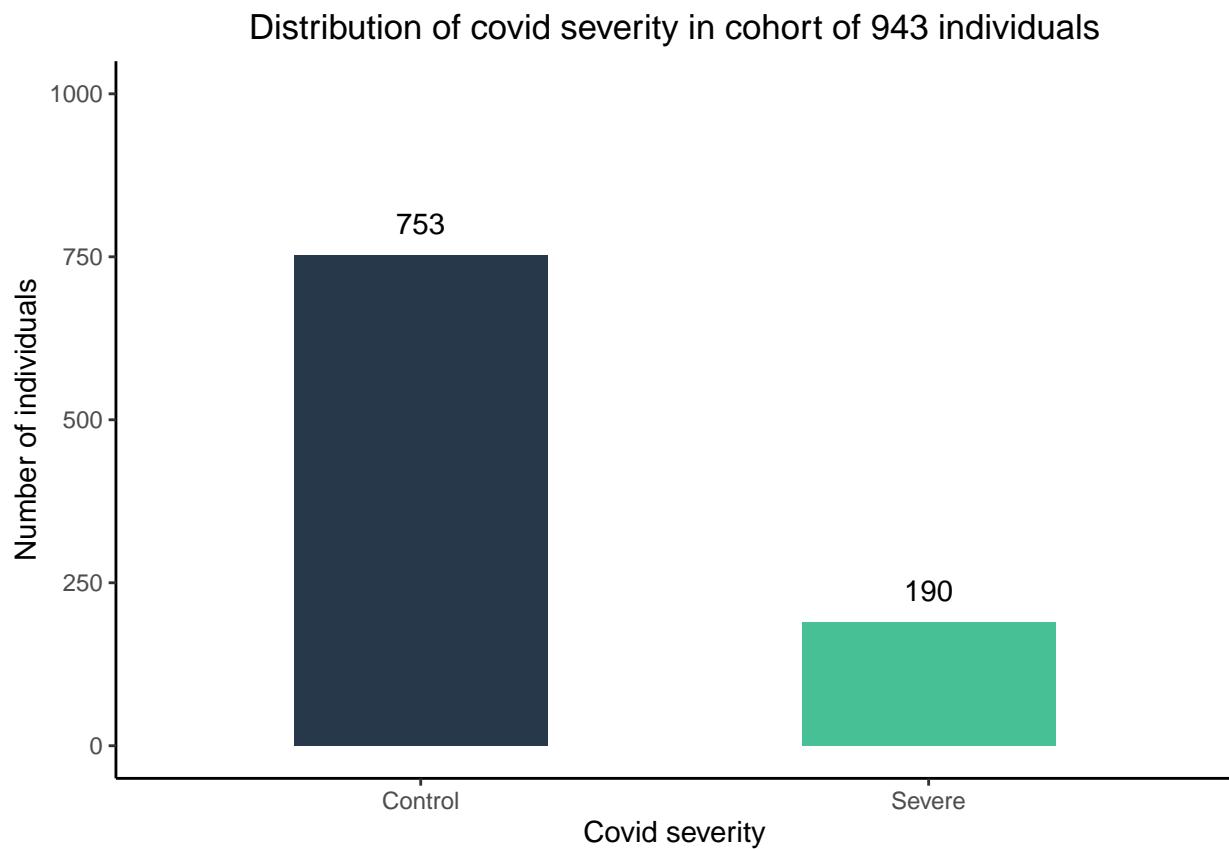


ensembl_cardiac_diseases_panel_20200715

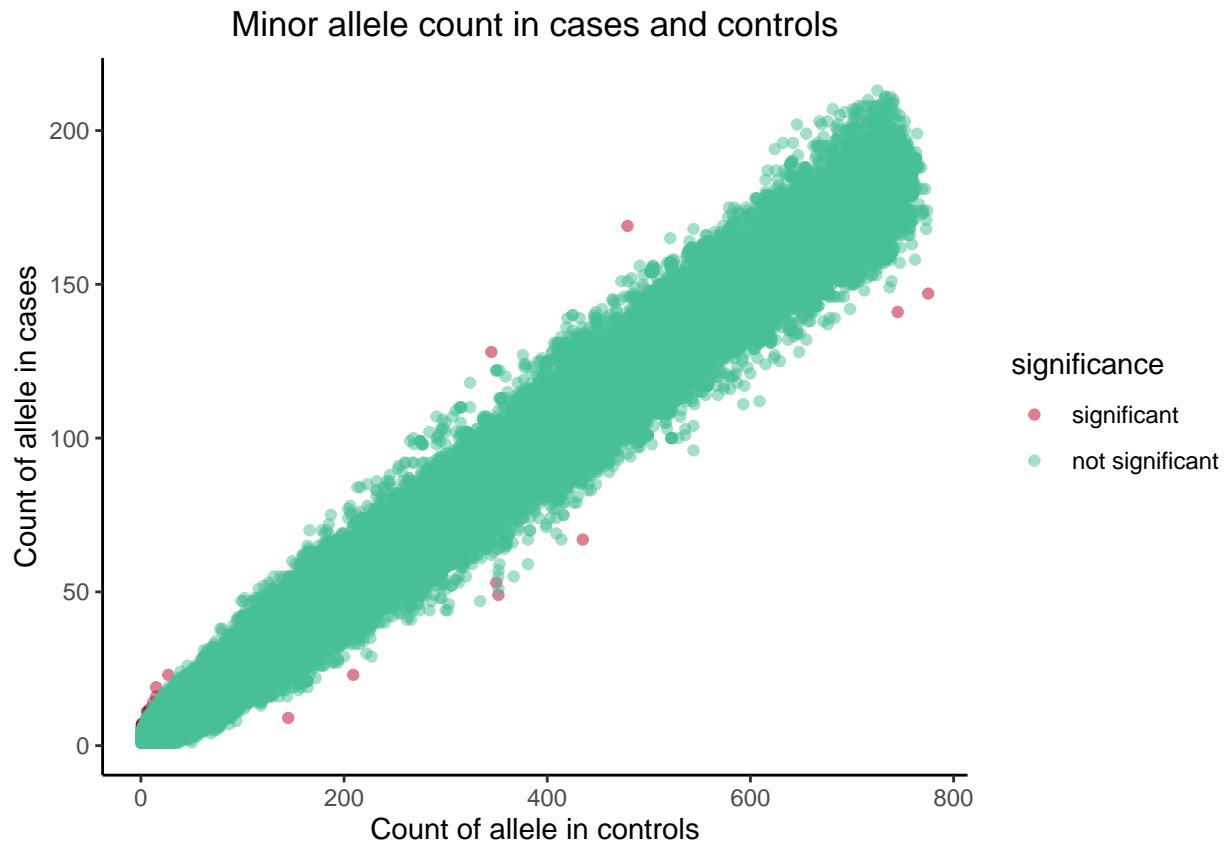
1. Cohort information



Control label include mild benign and resistant response to COVID-19 infection

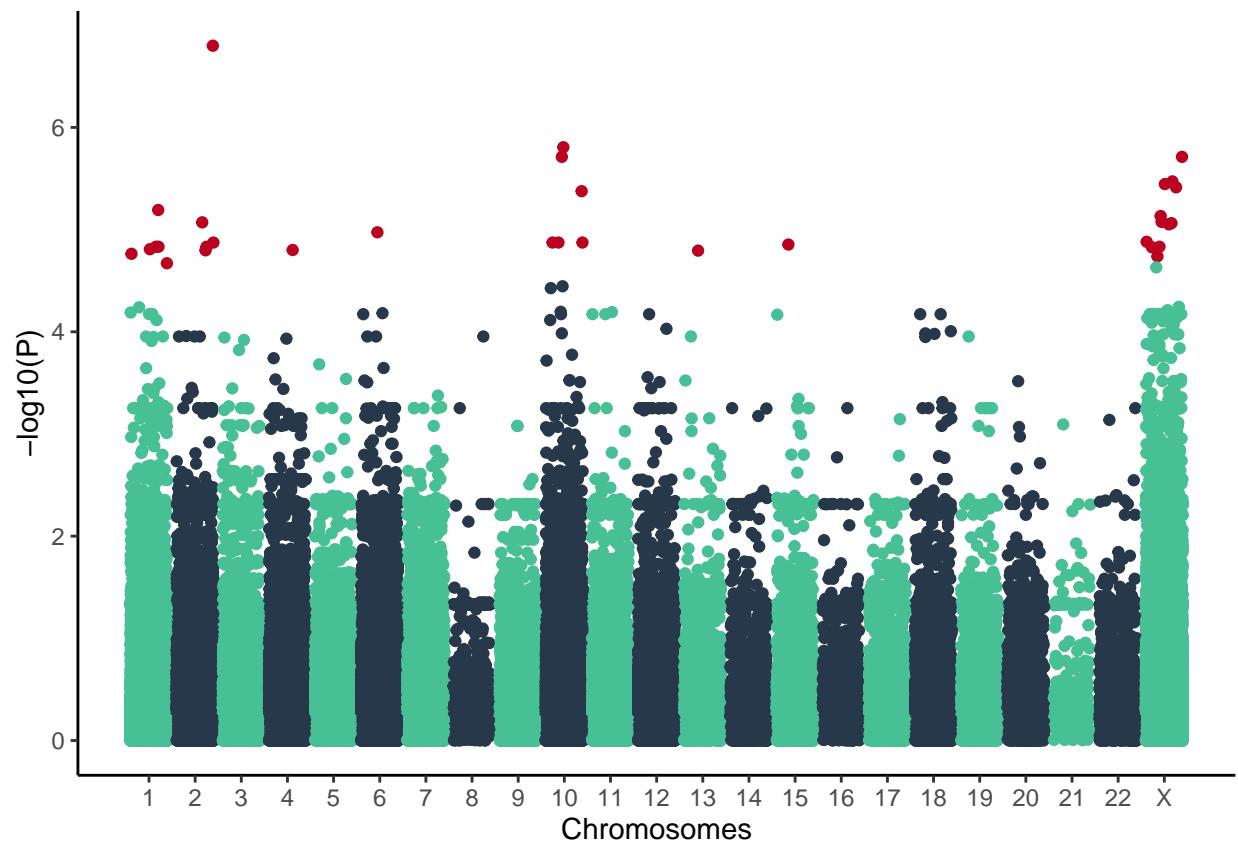
2. Results

Association study was performed by comparison of allele counts in cases and controls with Chi-square test. Significance of variants is expressed in form of q-values which are FDR adjusted p-values.



Manhattan plot

Red points are SNPs with qvalue < 0.1



Estimated odds ratio (OR) of minor allele occurrence

Red dashed line: OR = 1.0

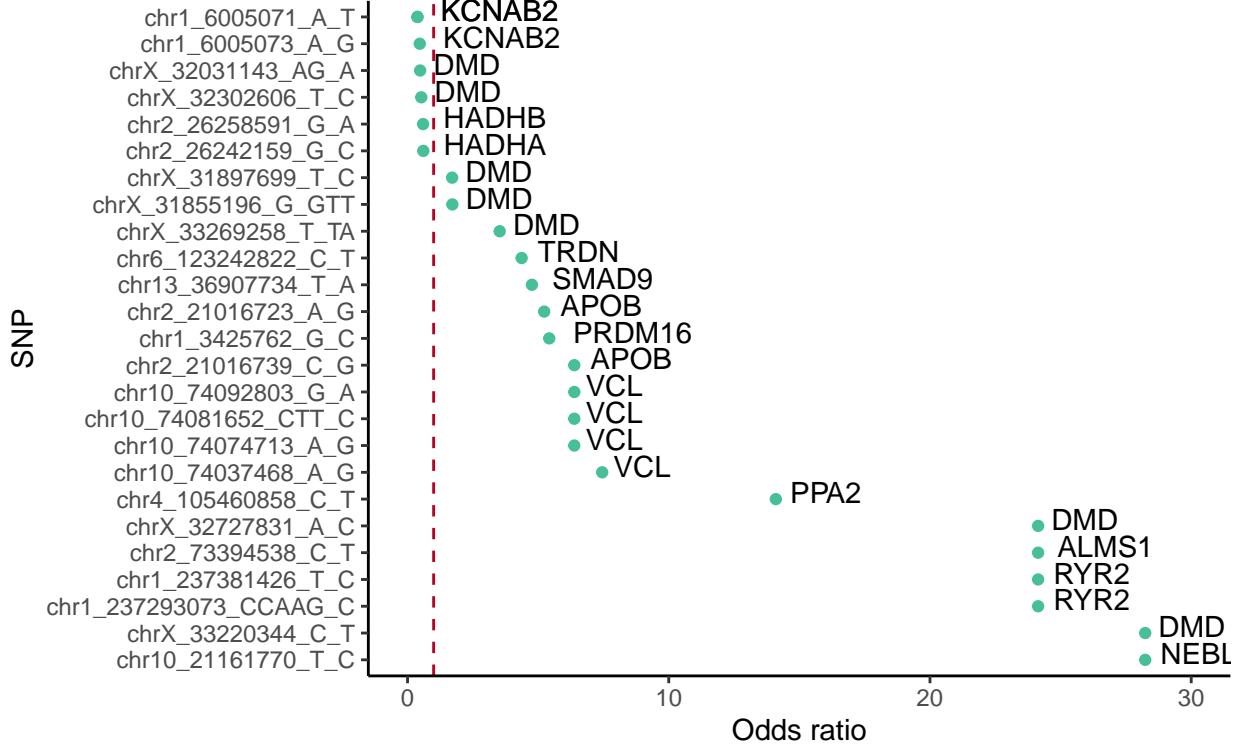


Table 1: Variants with q-value < 0.1

SNP	SYMBOL	A2	A1	case_count	ctrl_count	qvalue	OR
chr2_21016723_A_G	APOB	A	G	19	15	0.0233792	5.2320
chr10_21161770_T_C	NEBL	T	C	7	1	0.0715223	28.2400
chrX_33220344_C_T	DMD	C	T	7	1	0.0715223	28.2400
chr10_74037468_A_G	VCL	A	G	11	6	0.0774518	7.4530
chrX_31855196_G_GTT	DMD	G	GTT	169	479	0.0774518	1.7170
chrX_33269258_T_TA	DMD	T	TA	23	27	0.0774518	3.5290
chr1_6005073_A_G	KCNAB2	A	G	53	350	0.0788635	0.4698
chr1_237293073_CCAAG_C	RYR2	CCAAG	C	6	1	0.0788635	24.1400
chr1_237381426_T_C	RYR2	T	C	6	1	0.0788635	24.1400
chr2_21016739_C_G	APOB	C	G	11	7	0.0788635	6.3840
chr2_26242159_G_C	HADHA	C	G	141	745	0.0788635	0.6026
chr2_26258591_G_A	HADHB	A	G	147	775	0.0788635	0.5951
chr2_73394538_C_T	ALMS1	C	T	6	1	0.0788635	24.1400
chr4_105460858_C_T	PPA2	C	T	7	2	0.0788635	14.1000
chr6_123242822_C_T	TRDN	C	T	16	15	0.0788635	4.3690
chr10_74074713_A_G	VCL	A	G	11	7	0.0788635	6.3840
chr10_74081652_CTT_C	VCL	CTT	C	11	7	0.0788635	6.3840
chr10_74092803_G_A	VCL	G	A	11	7	0.0788635	6.3840
chr13_36907734_T_A	SMAD9	T	A	14	12	0.0788635	4.7620
chrX_31897699_T_C	DMD	T	C	128	345	0.0788635	1.7090
chrX_32031143_AG_A	DMD	AG	A	49	352	0.0788635	0.4836
chrX_32302606_T_C	DMD	T	C	67	435	0.0788635	0.5260
chrX_32727831_A_C	DMD	A	C	6	1	0.0788635	24.1400

SNP	SYMBOL	A2	A1	case_count	ctrl_count	qvalue	OR
chr1_6005071_A_T	KCNAB2	A	T	23	209	0.0819746	0.3807
chr1_6005071_A_T	KCNAB2	A	T	23	209	0.0819746	0.3807
chr1_3425762_G_C	PRDM16	G	C	12	9	0.0953094	5.4240