Table S3. Association between case-control status in the WTCCC and an allelic score that proxies for LDL. The left hand side of the table shows results for an allelic score consisting of all SNPs that meet a certain threshold ("All SNPs"), whilst the right side shows results for an allelic score consisting of all SNPs that meet a certain threshold with SNPs from known regions removed from its construction ("Complement"). SNPs have either been weighted according to their effect size from a previous meta-analysis ("Weighted"), or with each SNP getting an equal weighting ("Unweighted"). Results are shown for seventeen different p value thresholds and the number of SNPs that went into construction of the score for each threshold is listed also. Results are shown for seven different diseases. BD = Bipolar Disorder; CHD = Coronary Heart Disease; HT = Hypertension; CD = Crohn's Disease; RA = Rheumatoid Arthritis; T1D = Type 1 Diabetes; T2D = Type 2 Diabetes; Dir = Direction of effect; Pval = P value.

All SNPs					Complement				
	Weighted		Unweighted			Weighted		Unweighted	
	Dir	Pval	Dir	Pval		Dir	Pval	Dir	Pval
$p<5x10^{-8}$ (251 SNPs)					$p<5x10^{-8}$ (0 SNPs)				
BD	-	0.88	-	0.70		+	NA	+	NA
CHD	+	$9.2x10^{-3}$	+	0.047		+	NA	+	NA
HT	-	0.75	-	0.45		+	NA	+	NA
CD	-	0.76	-	0.23		+	NA	+	NA
RA	-	0.25	-	0.048		+	NA	+	NA
T1D	+	0.58	+	0.82		+	NA	+	NA
T2D	-	0.12	-	0.14		+	NA	+	NA
$p<5x10^{-7}$ (310 SNPs)					$p<5x10^{-7}$ (9 SNPs)				
BD	-	0.98	-	0.93		+	0.44	+	0.42
CHD	+	$7.5x10^{-3}$	+	0.034		+	0.62	+	0.59
HT	-	0.73	-	0.45		-	0.83	-	0.85
CD	-	0.79	-	0.30		+	0.65	+	0.65
RA	-	0.26	-	0.076		+	0.32	+	0.30
T1D	+	0.47	+	0.60		+	0.089	+	0.089
T2D	-	0.11	-	0.13		-	0.39	-	0.39

$p<5x10^{-6}$ (417 SNPs)					$p<5x10^{-6}$ (48 SNPs)				
BD	+	0.98	+	0.97		+	0.96	+	0.96
CHD	+	$5.7x10^{-3}$	+	0.021		+	0.86	+	0.85
HT	-	0.68	-	0.44		-	0.99	+	0.95
CD	-	0.96	-	0.60		+	0.071	+	0.067
RA	-	0.24	-	0.098		+	0.62	+	0.63
T1D	+	0.70	-	0.95		+	0.098	+	0.088
T2D	-	0.11	-	0.17		+	0.66	+	0.51
$p<5x10^{-5}$ (647 SNPs)					$p<5x10^{-5}$ (141 SNPs)				
BD	-	0.87	-	0.81		+	0.93	-	0.99
CHD	+	$6.4x10^{-3}$	+	0.023		+	0.44	+	0.40
HT	-	0.34	-	0.11		-	0.86	-	0.92
CD	+	0.84	-	0.99		+	0.011	+	0.011
RA	-	0.21	-	0.12		+	0.83	+	0.88
T1D	-	0.86	-	0.31		+	0.081	+	0.13
T2D	-	0.22	-	0.57		+	0.20	+	0.12
$p<5x10^{-4}$ (1138 SNPs)					$p<5x10^{-4}$ (469 SNPs)				
BD	-	0.97	-	0.94		+	0.89	-	0.94
CHD	+	$1.5x10^{-3}$	+	$3.9x10^{-3}$		+	0.41	+	0.45
HT	-	0.48	-	0.37		+	0.71	+	0.59
CD	+	0.45	+	0.40		+	0.021	+	0.040
RA	-	0.38	-	0.44		+	0.53	+	0.59
T1D	-	0.64	-	0.17		+	0.25	+	0.45

T2D	-	0.60	+	0.62		+	0.039	+	0.027
$p<5x10^{-3}$ (3635 SNPs)					$p<5x10^{-3}$ (2602 SNPs)				
BD	-	0.30	-	0.077		-	0.12	-	0.035
CHD	+	$1.4x10^{-3}$	+	$9.0x10^{-3}$		+	0.66	+	0.77
HT	-	0.21	-	0.12		-	0.21	-	0.16
CD	+	0.63	+	0.74		+	0.40	+	0.64
RA	-	0.19	-	0.25		-	0.79	-	0.87
T1D	-	0.011	-	$1.0x10^{-4}$		-	0.32	-	0.14
T2D	-	0.88	+	0.49		+	0.17	+	0.22
$p<5x10^{-2}$ (21431 SNPs)					$p<5x10^{-2}$ (19414 SNPs)				
BD	-	0.34	-	0.19		-	0.45	-	0.30
CHD	+	$1.2x10^{-4}$	+	$1.6x10^{-3}$		+	0.022	+	0.035
HT	-	0.062	-	0.024		-	0.053	-	0.024
CD	+	0.83	-	0.87		+	0.73	-	0.96
RA	-	0.30	-	0.37		-	0.91	-	0.80
T1D	-	0.092	-	0.076		-	0.87	-	0.74
T2D	+	0.31	+	0.086		+	0.044	+	0.052
p<0.1 (40201 SNPs)					p<0.1 (37522 SNPs)				
BD	-	0.15	-	0.071		-	0.18	-	0.12
CHD	+	$1.8x10^{-4}$	+	$3.0x10^{-3}$		+	0.018	+	0.031
HT	-	0.034	-	0.016		-	0.035	-	0.021
CD	+	0.96	-	0.73		+	0.94	-	0.76
RA	-	0.33	-	0.38		-	0.80	-	0.67

T1D	-	0.026	-	0.018		-	0.45	-	0.34
T2D	+	0.38	+	0.14		+	0.091	+	0.098
p<0.2 (77137 SNPs)					p<0.2 (73366 SNPs)				
BD	-	0.15	-	0.099		-	0.18	-	0.15
CHD	+	$2.1x10^{-4}$	+	$5.4x10^{-3}$		+	0.015	+	0.037
HT	-	0.031	-	0.018		-	0.038	-	0.028
CD	-	0.96	-	0.58		-	0.94	-	0.56
RA	-	0.44	-	0.46		-	0.92	-	0.77
T1D	-	0.031	-	0.036		-	0.43	-	0.35
T2D	+	0.40	+	0.20		+	0.16	+	0.19
p<0.3 (114252 SNPs)					p<0.3 (109551 SNPs)				
BD	-	0.10	-	0.075		-	0.12	-	0.10
CHD	+	$5.0x10^{-4}$	+	0.010		+	0.028	+	0.062
HT	-	0.018	-	0.012		-	0.018	-	0.014
CD	-	0.88	-	0.48		-	0.85	-	0.45
RA	-	0.45	-	0.44		-	0.86	-	0.64
T1D	-	0.049	-	0.11		-	0.50	-	0.50
T2D	+	0.55	+	0.34		+	0.33	+	0.40
p<0.4 (151402 SNPs)					p<0.4 (145758 SNPs)				
BD	-	0.057	-	0.029		-	0.067	-	0.043
CHD	+	$5.9x10^{-4}$	+	0.013		+	0.029	+	0.068
HT	-	0.012	-	$6.0x10^{-3}$		-	0.011	-	$6.5x10^{-3}$
CD	-	0.76	-	0.30		-	0.74	-	0.28

RA	-	0.37	-	0.33		-	0.70	-	0.45
T1D	-	0.041	-	0.074		-	0.41	-	0.31
T2D	+	0.64	+	0.46		+	0.45	+	0.60
p<0.5 (188909 SNPs)					p<0.5 (182382 SNPs)				
BD	-	0.064	-	0.057		-	0.074	-	0.079
CHD	+	$7.2x10^{-4}$	+	0.015		+	0.029	+	0.066
HT	-	0.011	-	$7.0x10^{-3}$		-	0.011	-	$7.8x10^{-3}$
CD	-	0.77	-	0.28		-	0.74	-	0.26
RA	-	0.32	-	0.29		-	0.60	-	0.37
T1D	-	0.035	-	0.062		-	0.32	-	0.21
T2D	+	0.61	+	0.37		+	0.44	+	0.50
p<0.6 (226525 SNPs)					p<0.6 (219111 SNPs)				
BD	-	0.057	-	0.053		-	0.067	-	0.078
CHD	+	$1.1x10^{-3}$	+	0.032		+	0.039	+	0.12
HT	-	$9.1x10^{-3}$	-	$6.0x10^{-3}$		-	$9.3x10^{-3}$	-	$7.2x10^{-3}$
CD	-	0.74	-	0.23		-	0.72	-	0.21
RA	-	0.32	-	0.37		-	0.59	-	0.45
T1D	-	0.023	-	0.030		-	0.24	-	0.11
T2D	+	0.64	+	0.41		+	0.45	+	0.52
p<0.7 (263835 SNPs)					p<0.7 (255616 SNPs)				
BD	-	0.051	-	0.057		-	0.061	-	0.087
CHD	+	$1.3x10^{-3}$	+	0.036		+	0.044	+	0.12
HT	-	$8.9x10^{-3}$	-	$9.1x10^{-3}$		-	$9.5x10^{-3}$	-	0.012

CD	-	0.72	-	0.20		-	0.70	-	0.19
RA	-	0.30	-	0.37		-	0.56	-	0.46
T1D	-	0.019	-	0.029		-	0.21	-	0.11
T2D	+	0.67	+	0.45		+	0.49	+	0.56
p<0.8 (301224 SNPs)					p<0.8 (292163 SNPs)				
BD	-	0.051	-	0.058		-	0.060	-	0.085
CHD	+	$1.4x10^{-3}$	+	0.045		+	0.044	+	0.14
HT	-	$9.9x10^{-3}$	-	0.013		-	0.011	-	0.016
CD	-	0.70	-	0.14		-	0.68	-	0.13
RA	-	0.29	-	0.30		-	0.54	-	0.39
T1D	-	0.020	-	0.024		-	0.21	-	0.092
T2D	+	0.66	+	0.44		+	0.48	+	0.55
p<0.9 (338229 SNPs)					p<0.9 (328349 SNPs)				
BD	-	0.047	-	0.047		-	0.056	-	0.078
CHD	+	$1.5x10^{-3}$	+	0.072		+	0.046	+	0.19
HT	-	0.011	-	0.018		-	0.012	-	0.024
CD	-	0.69	-	0.13		-	0.68	-	0.13
RA	-	0.28	-	0.25		-	0.53	-	0.35
T1D	-	0.019	-	0.016		-	0.22	-	0.075
T2D	+	0.65	+	0.45		+	0.47	+	0.55
All (375112 SNPs)					All (364387 SNPs)				
BD	-	0.049	-	0.054		-	0.059	-	0.086
CHD	+	$1.7x10^{-3}$	+	0.094		+	0.049	+	0.24

HT	-	0.011	-	0.025		-	0.012	-	0.032
CD	-	0.73	-	0.23		-	0.71	-	0.22
RA	-	0.26	-	0.18		-	0.50	-	0.25
T1D	-	0.018	-	0.014		-	0.20	-	0.059
T2D	+	0.66	+	0.54		+	0.48	+	0.64