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Supplementary Information

Supplementary Table 1. Quality assessment of individual studies of the meta-analysis

Author	Year	Selection				Comparability	Exposure			Total Score
		Adequate definition of cases	Representativeness of cases	Selection of control subjects	Definition of control subjects	Comparability of cases and controls based on the design or analysis	Exposure assessment	The same method of ascertainment for all subjects	Nonresponse rate	
Du et al. [47]	2021	★	★	☆	★	★★	★	★	★	8
Kamdee et al. [34]	2021	★	★	★	☆	☆★	★	★	★	7
Zhao et al. [49]	2019	★	★	★	★	★★	★	★	★	9
Indumathi et al. [21]	2019	★	★	☆	☆	★★	★	★	★	7
Chen et al. [73]	2018	★	★	★	☆	★★	★	★	★	8
Shabana et al. [10]	2018	★	★	★	★	★★	★	★	★	9
Chen et al. [11]	2018	★	★	★	★	★★	★	★	★	9
Hameed et al. [42]	2018	★	★	☆	★	★☆	★	★	★	7
Mastana et al. [23]	2017	★	★	☆	★	☆★	★	★	★	7
Ansari et al. [12]	2017	★	★	☆	★	★★	★	★	★	8
Dar et al. [39]	2017	★	☆	☆	★	☆★	★	★	★	6
Neelofar et al. [43]	2017	★	★	☆	★	☆★	★	★	★	7
Kavitha et al. [44]	2017	★	☆	☆	★	☆★	★	★	★	6
Hongmei et al. [28]	2016	★	★	☆	★	★★	★	★	★	8
Mao et al. [19]	2016	★	★	☆	★	★☆	★	★	★	7

Bao et al. [50]	2015	★	★	★	★	★★	★	★	★	9
Chi et al. [51]	2015	★	★	★	★	★★	★	★	★	9
Yang et al. [13]	2015	★	★	☆	★	★★	★	★	★	8
Wang et al. [14]	2015	★	★	★	☆	★★	★	★	★	8
Li et al. [18]	2015	★	★	☆	☆	★★	★	★	★	7
Wang et al. [56]	2015	★	★	☆	★	★★	★	★	★	8
Sun et al. [15]	2014	★	★	★	☆	★☆	★	★	★	7
Galimudi et al. [17]	2014	★	★	★	★	☆★	★	★	★	8
Biswas et al. [22]	2014	★	★	☆	☆	★★	★	★	★	7
Galimudi et al. [17]	2014	★	★	☆	★	☆★	★	★	★	7
Li et al. [36]	2014	★	★	☆	★	★☆	★	★	★	7
Li et al. [37]	2014	★	★	☆	★	★☆	★	★	★	7
Shafia et al. [38]	2014	★	★	☆	★	☆★	★	★	★	7
Saxena et al. [41]	2014	★	★	☆	★	☆☆	★	★	★	6
Tong et al. [24]	2013	★	★	★	☆	★☆	★	★	★	7
Bhanushali et al. [27]	2013	★	☆	☆	☆	☆★	★	★	★	5
Satti et al. [16]	2013	★	☆	★	☆	☆★	★	★	★	6
Zhang et al. [56]	2013	★	★	☆	★	★★	★	★	★	8
Mishra et al. [31]	2013	★	★	☆	★	★★	★	★	★	8
Chakraborty et al. [32]	2013	★	★	☆	★	☆★	★	★	★	7
You et al. [40]	2013	★	★	☆	★	★★	★	★	★	8
Babu et al. [29]	2012	★	★	☆	☆	★★	★	★	★	7
Fan et al. [26]	2011	★	☆	☆	★	☆★	★	★	☆	5
Liu et al. [56]	2011	★	★	☆	★	☆★	★	★	★	7
Zhang et al. [45]	2011	★	★	☆	★	★★	★	★	★	8
Banerjee et al. [25]	2009	★	★	☆	☆	☆★	★	★	★	6

Chen et al. [61]	2009	★	☆	☆	★	☆ ★	★	★	★	6
Tong et al. [33]	2009	★	★	☆	★	★ ★	★	★	★	8
Xiao et al. [46]	2009	★	★	★	★	☆ ☆	★	★	★	7
Xiaomin et al. [48]	2008	★	★	☆	★	☆ ★	★	★	★	7
Maitra et al. [20]	2008	★	★	★	★	☆ ☆	★	★	★	7
Kuo et al. [30]	2008	★	☆	☆	☆	☆ ★	★	★	★	5
Banerjee et al. [35]	2008	★	★	☆	☆	☆ ★	★	★	★	6
Chen et al. [52]	2007	★	★	★	★	☆ ★	★	★	★	8
Yang et al. [56]	2004	★	☆	☆	★	☆ ★	★	★	★	6

Supplementary Table 2. Heterogeneity analysis of the *IL6* gene rs1800795 polymorphism for Asians

Types of Diseases	**Genetic Model**	**Study Number**	**Model**	**OR (95% CI)**	**Z-val**	***p*-value**	**Q**	**d.f**	***p*(Q)**	**Tau 2**	**I2 %**	**p-AD**	**p-CvM**	**p-SW**
Overall	C vs. G	50	REM	1.36 [1.19; 1.55]	4.56	5.18E-06	172.29	49	1.26E-15	0.14	71.56	0.0607	0.0652	0.135
	CC vs. GG	50	REM	1.75 [1.44; 2.12]	5.68	1.35E-08	83.17	49	0.001665	0.14	41.08	0.0881	0.1084	0.1535
	CG vs. GG	50	REM	1.32 [1.16; 1.51]	4.16	3.19E-05	131.66	49	1.70E-09	0.12	62.78	0.1232	0.1205	0.2036
	CC + CG vs. GG	50	REM	1.39 [1.22; 1.59]	4.88	1.05E-06	141.53	49	6.44E-11	0.13	65.38	0.3676	0.3741	0.4228
	CC vs. CG + GG	50	REM	1.57 [1.3; 1.9]	4.63	3.64E-06	98.01	49	4.05E-05	0.15	50.01	0.0607	0.0652	0.135
Acute pancreatitis (AP)	C vs. G	3	FEM	1.22 [1.01; 1.48]	2.05	0.0405	0.33	2	0.8496	0	0	-	-	-
	CC vs. GG	3	FEM	1.69 [1.03; 2.78]	2.06	0.0389	0.16	2	0.9217	0	0	-	-	-
	CG vs. GG	3	FEM	1.13 [0.88; 1.44]	0.97	0.3341	0.35	2	0.8397	0	0	-	-	-
	CC + CG vs. GG	3	FEM	1.2 [0.95; 1.51]	1.53	0.126	0.33	2	0.8483	0	0	-	-	-
	CC vs. CG + GG	3	FEM	1.63 [1; 2.66]	1.94	0.0521	0.13	2	0.9372	0	0	-	-	-
Bronchial asthma	C vs. G	2	FEM	1.76 [1.47; 2.1]	6.18	6.23E-10	0.04	1	0.8324	0	0	-	-	-
	CC vs. GG	2	FEM	2.79 [1.77; 4.38]	4.45	8.49E-06	0.27	1	0.6017	0	0	-	-	-
	CG vs. GG	2	FEM	1.78 [1.41; 2.25]	4.87	1.10E-06	0.26	1	0.6125	0	0	-	-	-

	CC + CG vs. GG	2	FEM	1.91 [1.53; 2.38]	5.72	1.09E-08	0.08	1	0.7748	0	0	-	-	-
	CC vs. CG + GG	2	FEM	2.25 [1.45; 3.49]	3.62	0.0003	0.26	1	0.6101	0	0	-	-	-
CAD	C vs. G	27	REM	1.4 [1.29; 1.53]	8.05	8.30E-16	46.34	26	0.0084	0.02	43.89	0.7624	0.73	0.8402
	CC vs. GG	27	REM	2.04 [1.78; 2.35]	10.19	2.10E-25	35.67	26	0.0978	0	27.12	0.4897	0.5022	0.5579
	CG vs. GG	27	REM	1.28 [1.13; 1.46]	3.75	0.0002	53.5	26	0.0012	0.06	51.4	0.9337	0.8896	0.9327
	CC + CG vs. GG	27	REM	1.41 [1.25; 1.58]	5.76	8.47E-09	49.31	26	0.0038	0.04	47.27	0.9564	0.9185	0.9735
	CC vs. CG + GG	27	REM	1.83 [1.61; 2.08]	9.25	2.00E-20	37.1	26	0.0732	0	29.92	0.3736	0.3477	0.504
Ischemic stroke (IS)	C vs. G	4	FEM	1.03 [0.78; 1.36]	0.22	0.8267	2.78	3	0.4276	0	0	-	-	-
	CC vs. GG	4	FEM	0.86 [0.36; 2.04]	-0.35	0.7254	1.94	3	0.5858	0	0	-	-	-
	CG vs. GG	4	FEM	1.1 [0.8; 1.51]	0.57	0.5669	3.37	3	0.3387	0	10.85	-	-	-
	CC + CG vs. GG	4	FEM	1.07 [0.78; 1.46]	0.42	0.6731	3.06	3	0.3828	0	1.89	-	-	-
	CC vs. CG + GG	4	FEM	0.82 [0.35; 1.93]	-0.45	0.6544	1.98	3	0.5759	0	0	-	-	-
Rheumatoid arthritis (RA)	C vs. G	5	REM	3.01 [1.14; 7.96]	2.22	0.0263	51.84	4	1.49E-10	1.08	92.28	-	-	-
	CC vs. GG	5	REM	3.68 [0.79; 17.13]	1.66	0.0964	7.99	4	0.092	1.49	49.93	-	-	-
	CG vs. GG	5	REM	2.9 [0.94; 8.97]	1.85	0.0647	45.07	4	3.85E-09	1.39	91.12	-	-	-
	CC + CG vs. GG	5	REM	3.05 [1.09; 8.54]	2.12	0.0343	48.16	4	8.76E-10	1.19	91.69	-	-	-
	CC vs. CG + GG	5	FEM	4.62 [2.01; 10.61]	3.61	0.0003	7.47	4	0.1131	1.29	46.44	-	-	-
T2D	C vs. G	6	REM	0.89 [0.57; 1.41]	-0.48	0.6292	12.28	5	0.0311	0.13	59.29	-	-	-
	CC vs. GG	6	REM	0.62 [0.21; 1.86]	-0.85	0.3932	13.94	5	0.016	0.87	64.14	-	-	-
	CG vs. GG	6	FEM	1.3 [1.02; 1.66]	2.16	0.031	1.77	5	0.8803	0	0	-	-	-
	CC + CG vs. GG	6	FEM	1.16 [0.93; 1.45]	1.33	0.1823	4.52	5	0.4777	0.05	0	-	-	-
	CC vs. CG + GG	6	REM	0.59 [0.2; 1.76]	-0.94	0.3449	13.59	5	0.0185	0.85	63.2	-	-	-
Other	C vs. G	3	FEM	1.08 [0.94; 1.25]	1.11	0.2688	0.44	2	0.8022	0	0	-	-	-
	CC vs. GG	3	FEM	1.3 [0.83; 2.03]	1.13	0.2578	0.16	2	0.9232	0	0	-	-	-
	CG vs. GG	3	FEM	1.06 [0.77; 1.47]	0.38	0.705	2.17	2	0.3374	0	7.96	-	-	-
	CC + CG vs. GG	3	FEM	1.11 [0.81; 1.52]	0.66	0.508	1.39	2	0.4983	0	0	-	-	-
	CC vs. CG + GG	3	FEM	1.1 [0.92; 1.31]	1.02	0.3089	0.54	2	0.7646	0	0	-	-	-
Eastern Asia	C vs. G	29	REM	1.44 [1.17; 1.77]	3.47	0.0005	108.78	28	1.82E-11	0.2	74.26	0.1691	0.1634	0.2409
	CC vs. GG	29	REM	2.03 [1.75; 2.37]	9.79	0	23.45	28	0.7102	0.01	0	0.9651	0.991	0.8484
	CG vs. GG	29	REM	1.35 [1.08; 1.7]	2.62	0.0089	91.01	28	1.38E-08	0.23	69.24	0.0472	0.0442	0.1083

	CC + CG vs. GG	29	REM	1.46 [1.17; 1.82]	3.32	0.0009	94.28	28	4.19E-09	0.23	70.3	0.1355	0.1333	0.2031
	CC vs. CG + GG	29	REM	1.77 [1.47; 2.12]	6.03	1.61E-09	40.91	28	0.0547	0.06	31.56	0.9189	0.9672	0.789
Southern Asia	C vs. G	21	REM	1.26 [1.08; 1.48]	2.95	0.0031	61.86	20	3.66E-06	0.08	67.67	0.4356	0.3722	0.5891
	CC vs. GG	21	REM	1.4 [0.88; 2.24]	1.4	0.1608	56.31	20	2.61E-05	0.62	64.48	0.1566	0.1439	0.2128
	CG vs. GG	21	REM	1.3 [1.11; 1.52]	3.26	0.0011	40.58	20	0.0042	0.06	50.72	0.3886	0.3473	0.3824
	CC + CG vs. GG	21	REM	1.33 [1.14; 1.55]	3.6	0.0003	45.59	20	0.0009	0.06	56.13	0.7425	0.7823	0.6555
	CC vs. CG + GG	21	REM	1.26 [0.79; 2.03]	0.96	0.336	57.01	20	2.04E-05	0.66	64.92	0.1421	0.1163	0.2066

Supplementary Table 3. Publication bias checking by using Begg's and Egger's test of the *IL6* rs1800795 polymorphism in Asians

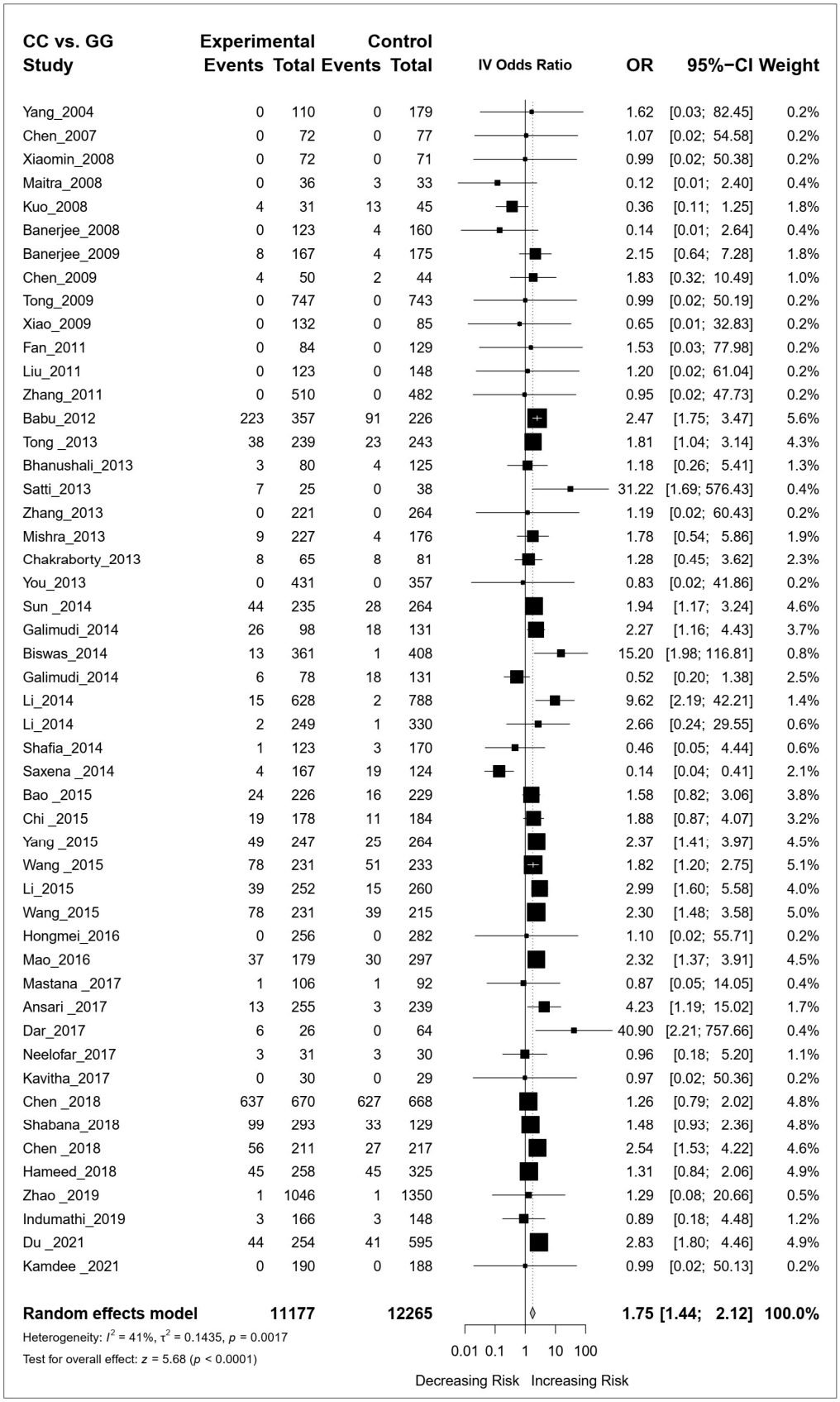
Polymorphisms	**Begg's Test**			**Egger's Test**			
	z-value	***p*-value**	**Comment**	**t-value**	**d.f**	***p*-value**	**Comment**
CC vs. GG	-1.12	0.2625	no publication bias	-1.38	48	0.1727	no publication bias
C vs. G	-0.76	0.4481	no publication bias	-0.35	48	0.7314	no publication bias
Hypothesis testing by *p*-value for checking publication bias							
H_0: Null Hypothesis (Symmetry in the funnel Plot)							
H_1: Alternative Hypothesis (Asymmetry in the funnel Plot)							
For $P \leq 0.05$ we reject Null Hypothesis (H_0)							
For $P > 0.05$ we accept Null Hypothesis (H_0) and reject Alternative Hypothesis (H_1)							

Supplementary Table 4. The allele frequency data of the *IL6* rs1800795 polymorphism in the Asian populations from 1000 genomes project, Phase 3 datasets.

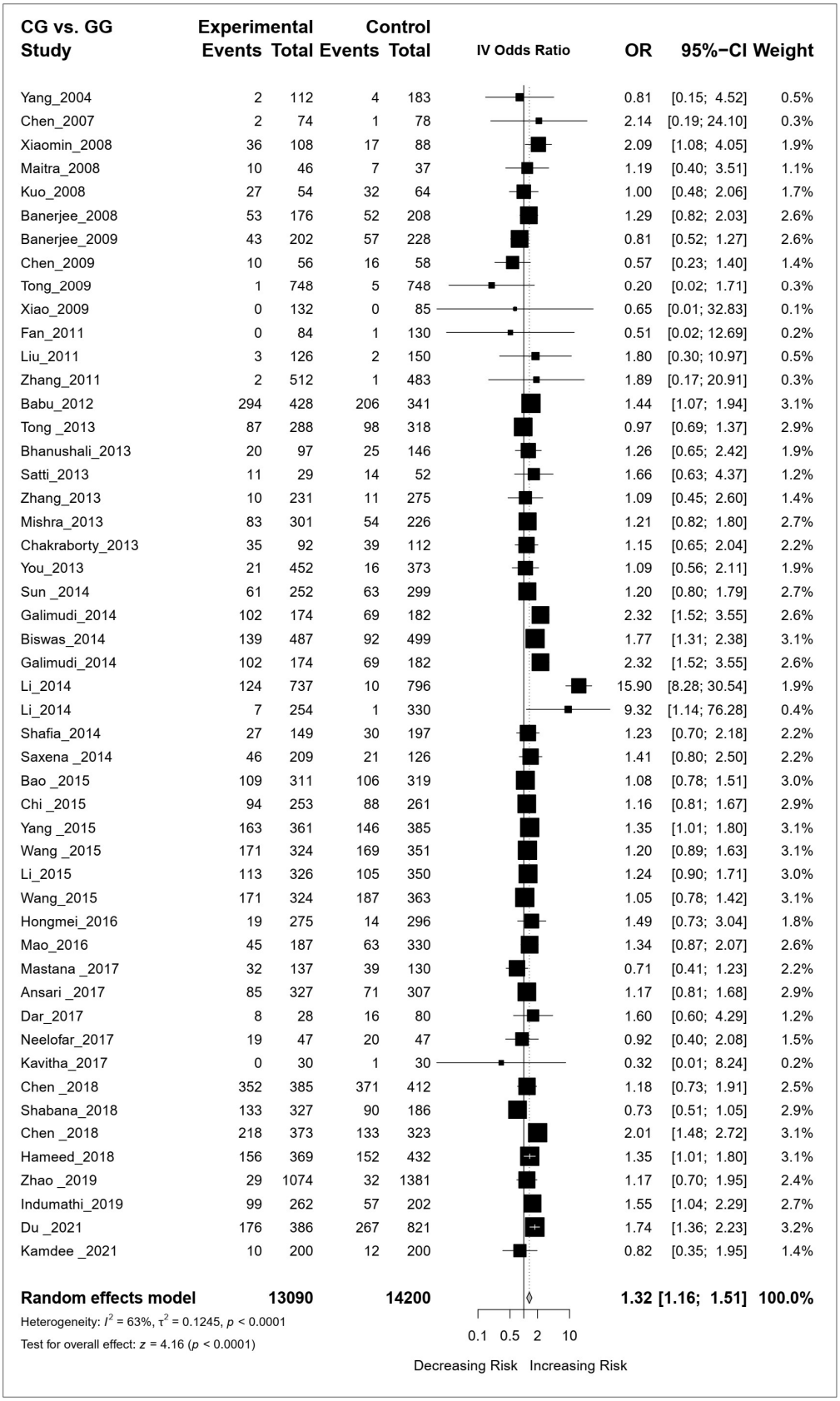
Populations	**Community**	**Country**	**C Allele (%)**	**G Allele (%)**
Overall Asian	Total		6.9 ± 7.06	93.1 ± 7.06
East Asian	Chinese Dai in Xishuangbanna	China	0	100
	Han Chinese in Beijing	China	0	100
	Southern Han Chinese	China	0	100
	Japanese in Tokyo	Japan	0	100
	Kinh in Ho Chi Minh City	Vietnam	0.5	99.5
	Overall		0.1 ± 0.18	99.9 ± 0.18
South Asian	Bengali	Bangladesh	11.6	88.4
	Gujarati	Indian	15.5	84.5
	Telegu	Indian	17.6	82.4
	Punjabi	Pakistan	13	87
	Tamil	Sri Lanka	11.3	88.7
	Overall		13.9 ± 2.41	86.1 ± 2.41

Supplementary Table 5. *IL6* rs1800795 minor allele frequency comparison between East Asians and South Asians with Overall Asians (using 1000 Genomes Project, Phase 3 datasets)

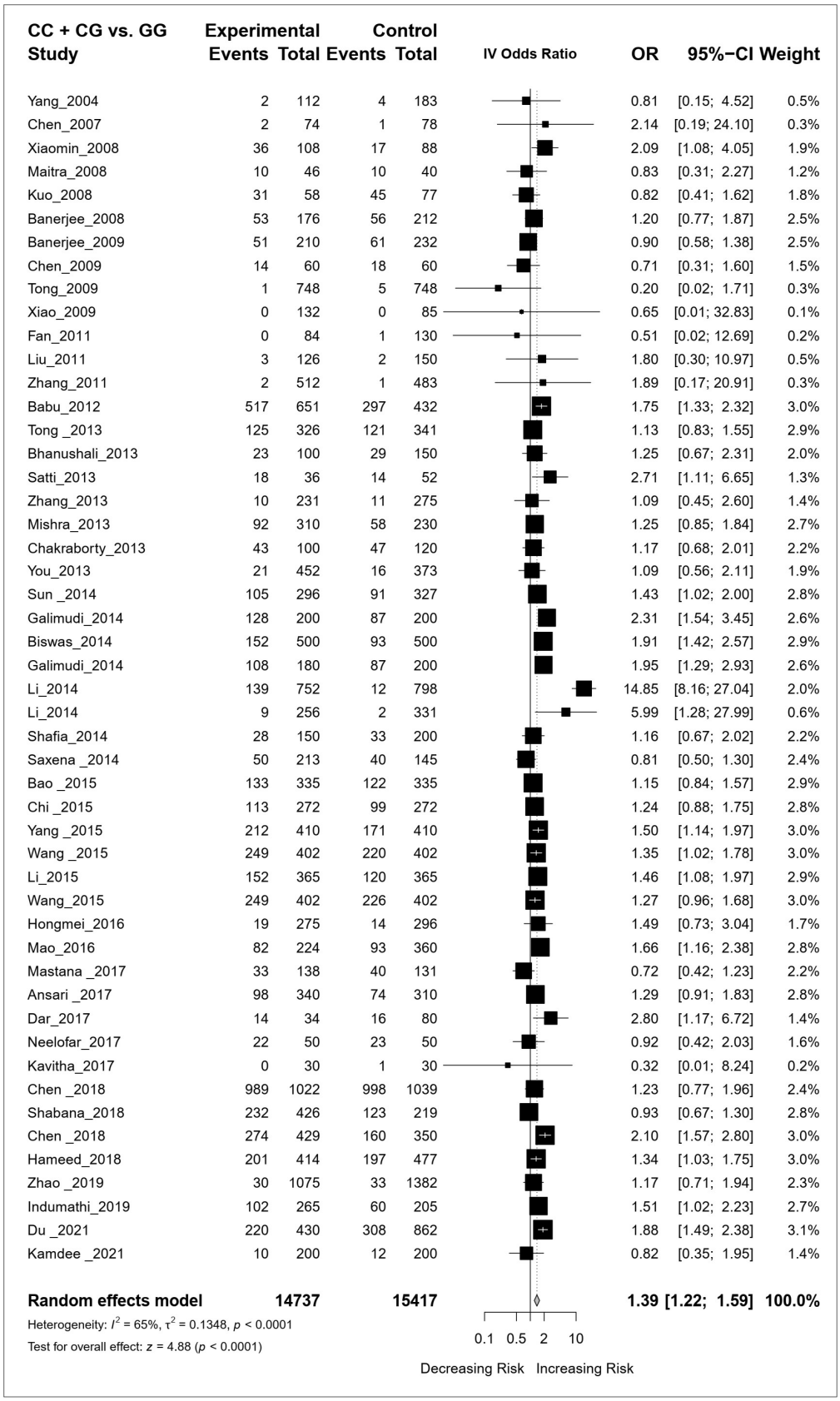
	Allele frequency comparisons among Asians	**Independent Samples with Bonferroni corrections**	
		t-value	***p*-value**
Asian population Comparison	Overall Asian C vs. East Asian C	11.7	0.00002
	Overall Asian C vs. South Asian C	-5.12	0.0081
	Overall Asian G vs. East Asian G	-11.7	0.00002
	Overall Asian G vs. South Asian G	5.12	0.0081
	East Asian C vs. South Asian C	-11.3	0.00003



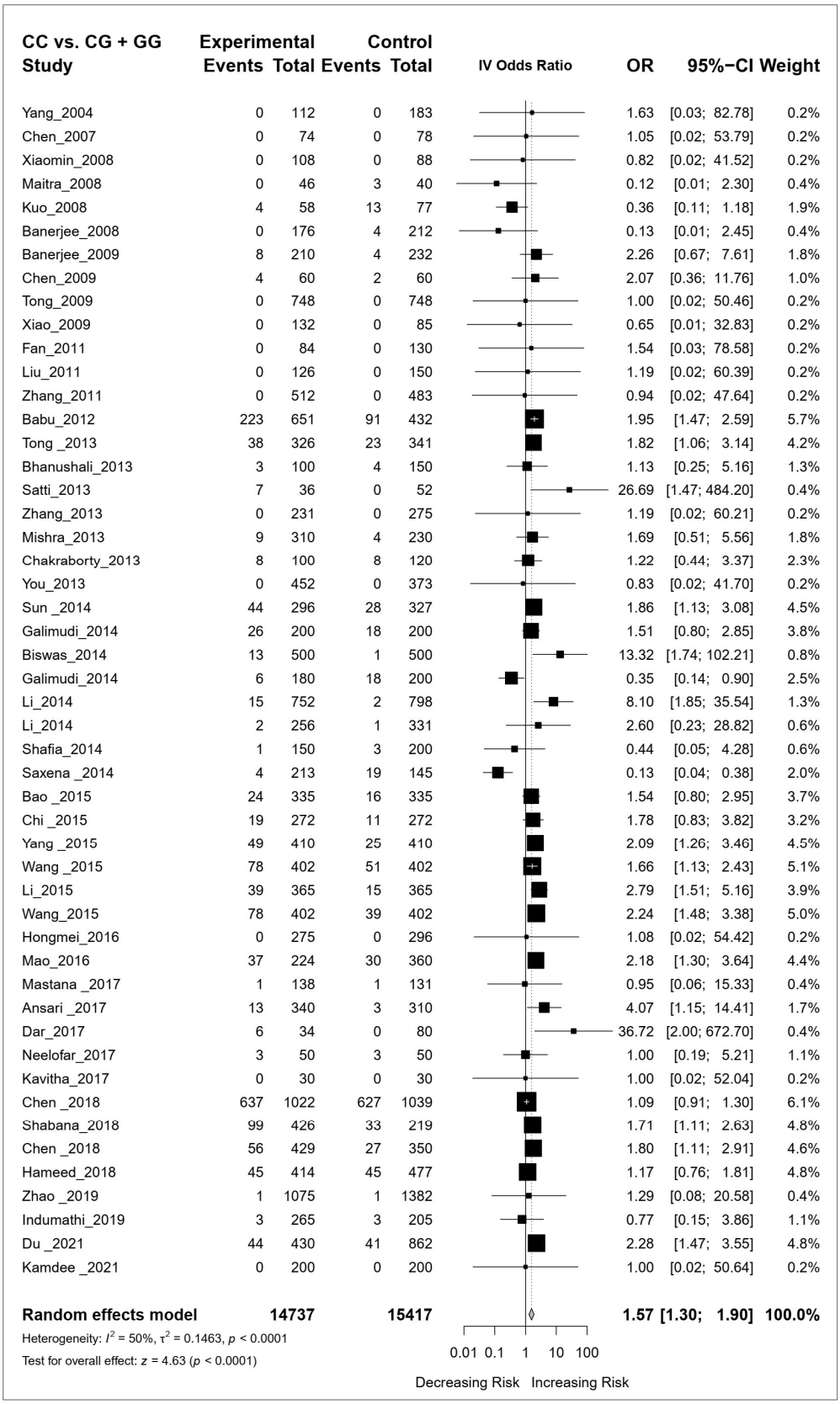
Supplementary Figure 1. Forest plot of the association between the IL-6 gene rs1800795 polymorp hism and overall disease risk under the homozygote model (CC vs. GG) through Asain populations



Supplementary Figure 2. Forest plot of the association between the IL-6 gene rs1800795 polymorphism and overall disease risk under the heterozygote model (CG vs. GG) through Asain populations



Supplementary Figure 3. Forest plot of the association between the IL-6 gene rs1800795 polymorphism and overall disease risk under the recessive model (CC + CG vs. GG) through Asain populations



Supplementary Figure 4. Forest plot of the association between the IL-6 gene rs1800795 polymorphism and overall disease risk under the recessive model (CC vs. CG + GG) through Asain populations