

Appendix 2 (as supplied by authors)

eTable 1. Summary of Quantitative Results

Outcome		No. of studies	No. of South Asians/No. of White Caucasians	M.D/O.R*	C.I	p-value	I <sup>2</sup>	P <sub>Het</sub>
BMI, kg/m <sup>2</sup>	Men	5 cross-sectional	496/1788	-0.52	-1.51,0.47	0.31	76%	<0.001
	Women	5 cross-sectional	457/2561	-0.14	-0.99,0.74	0.77	59%	0.02
%Body fat	Men	3 cross-sectional	191/154	3.23	0.83,5.62	0.008	87%	<0.001
	Women	3 cross-sectional	155/183	4.09	3.46,4.72	<0.0001	6%	0.35
WHR	Men	5 cross-sectional	412/346	0.02	-0.01,0.04	0.20	82%	<0.001
	Women	5 cross-sectional	400/407	0.02	0.01,0.04	0.006	59%	0.04
Obesity Prevalence		3 Database reviews	3507/155237	0.62	0.40,0.96	0.03	40%	0.19
Waist Circumference, cm	Men	7 cross-sectional	578/2024	-0.64	-3.38,2.09	0.65	85%	<0.001
	Women	7 cross-sectional	578/3067	-0.02	-2.32,2.28	0.98	82%	<0.001
Type II Diabetes Prevalence		6 cross-sectional, 9 database reviews	14750/587563	2.24	1.80,2.79	<0.001	92%	<0.001
Fasting Insulin, pmol/L		6 cross-sectional	956/1450	19.16	13.86,24.46	<0.001	96%	<0.001
Fasting Glucose, mmol/L		6 cross-sectional	975/1454	0.02	-0.22,0.26	0.87	98%	<0.001
HOMA-IR		5 cross-sectional	849/1367	0.75	0.33,1.17	<0.001	96%	<0.001
SBP, mmHg		6 cross-sectional	975/1473	-1.96	-3.76,-0.16	0.03	77%	<0.001
DBP, mmHg		6 cross-sectional	975/1454	-0.82	-5.04, 3.39	0.70	100%	<0.001
Hypertension Prevalence		4 cross-sectional 9 database reviews	14916/638424	1.11	1.02,1.22	0.02	70%	<0.001
HDL-C, mmol/L		7 cross-sectional	1054/1534	-0.19	-0.25,-0.13	<0.001	65%	<0.01
LDL-C, mmol/L		5 cross-sectional	919/1402	0.09	-0.13,0.30	0.43	94%	<0.001
TC, mmol/L		6 cross-sectional	998/1482	0.17	-0.09,0.44	0.20	87%	<0.001
TC:HDL-C		6 cross-sectional	927/1418	0.65	0.28,1.01	<0.001	90%	<0.001
Fasting TG, mmol/L		6 cross-sectional	975/1454	0.20	0.02,0.37	0.03	76%	<0.01
CRP, mg/L		4 cross-sectional	679/644	0.76	0.37,1.15	<0.001	3%	0.38
Smoking		7 cross-sectional 9 database reviews 1 case-control	11642/506023	0.38	0.24,0.60	<0.001	97%	<0.001

\*Mean Difference (M.D.) were reported for continuous outcomes and prevalence odds ratio (O.R.) were reported for dichotomous outcomes. BMI: Body Mass Index, WHR: Waist-to-hip ratio, HOMA-IR: Homeostatic Model Assessment- Insulin Resistance, SBP: Systolic Blood Pressure, DBP: Diastolic Blood Pressure, HDL-C: High Density Lipoprotein-Cholesterol, LDL-C: Low Density Lipoprotein-Cholesterol, TC: Total Cholesterol, TC:HDL-C: Ratio of Total Cholesterol to High Density Lipoprotein- Cholesterol, TG: Triglycerides, CRP: C-Reactive Protein

eTable 2. Secondary analyses to examine heterogeneity in results.

Secondary analyses of high quality studies									Secondary analyses by sampling method**					
Outcome		No. of Studies	No. of South Asians/No. of White Caucasians	M.D/ O.R	C.I	p-value	I <sup>2</sup>	P <sub>Het</sub>	I <sup>2</sup> Random Sampling	P <sub>Het</sub>	I <sup>2</sup> Non-Random Sampling	P <sub>Het</sub>	I <sup>2</sup> Between Sub-group	P <sub>Het</sub>
BMI, kg/m <sup>2</sup>	Men	2 cross-sectional	292/258	-1.11	-3.66,1.44	0.39	89%	0.003	N/A	N/A	0	0.45	93.2%	<0.0001
	Women	2 cross-sectional	258/270	-0.52	-1.51,0.48	0.31	0%	0.33						
% Body fat	Men	1 cross-sectional	105/101	4.70	2.88, 6.52	<0.001	N/A	N/A						
	Women	1 cross-sectional	103/101	3.30	1.29,5.31	0.001	N/A	N/A						
WHR	Men	2 cross-sectional	292/258	0	-0.02,0.02	0.93	50%	0.16						
	Women	2 cross-sectional	258/270	0.02	-0.02,0.06	0.33	87%	0.005	N/A	N/A	49%	0.12	61.7 %	0.11
Waist Circumference, cm*	Men	2 cross-sectional	282/255	-2.96	-9.13,3,21	0.35	90%	0.002						
	Women	2 cross-sectional	254/268	0.28	-3.53,4.09	0.89	72%	0.06						
Fasting Insulin, pmol/L		2 cross-sectional	530/523	24.72	17.33, 32.10	<0.001	60%	0.11						
Fasting Glucose, mmol/L		2 cross-sectional	549/527	0.26	0.13, 0.40	<0.001	35%	0.21						
HOMA-IR		2 cross-sectional	516/509	0.84	0.64, 1.05	<0.001	56%	0.13						
SBP, mmHg		2 cross-sectional	549/527	0.26	-1.64,2.15	0.79	0%	0.32						
DBP, mmHg		2 cross-sectional	549/527	2.08	0.13,4.04	0.04	59%	0.12						
HDL-C, mmol/L		2 cross-sectional	549/527	-0.15	-0.18, -0.11	<0.01	0%	0.81						
LDL-C, mmol/L		2 cross-sectional	549/527	0.09	-0.01,0.19	0.09	2%	0.31						
TC, mmol/L*		2 cross-sectional	549/527	0.33	-0.34, 1.01	0.33	91%	<0.001						

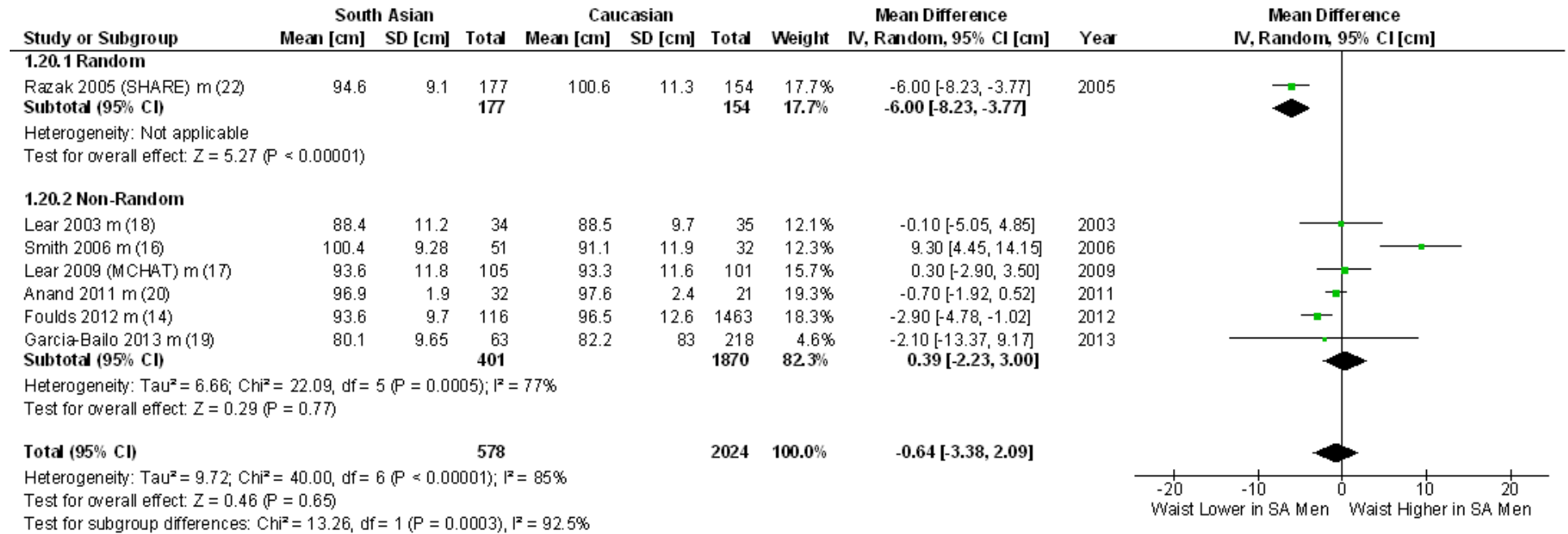
<b>TC:HDL-C</b>	<b>2 cross-sectional</b>	<b>535/522</b>	<b>0.50</b>	<b>0.29, 0.72</b>	<b>&lt;0.001</b>	<b>26%</b>	<b>0.24</b>						
<b>Fasting TG, mmol/L</b>	2 cross-sectional	549/527	0.29	0.14, 0.43	<0.001	0%	0.63						
<b>Smoking Prevalence</b>	2 cross-sectional 1 database review 1 case-control	770/3806	0.28	0.21,0.37	<0.001	0%	0.50						
<b>CRP, mg/L</b>	2 cross-sectional	530/523	0.79	0.29,1.28	0.002	0%	0.75						
								<b>Secondary analyses by study design**</b>					
								<b><i>I</i><sup>2</sup> Datab</b>	<b><i>P</i><sub>Het</sub></b>	<b><i>I</i><sup>2</sup> Cross-sectional</b>	<b><i>P</i><sub>Het</sub></b>	<b><i>I</i><sup>2</sup></b>	<b><i>P</i><sub>Het</sub></b>
<b>Diabetes Prevalence</b>	2 cross-sectional 1 database review 1 case-control	3668/7981 9	2	1.85,2.14	<0.001	0%	0.67	96%	<0.01	0%	0.61	92%	<0.001
<b>Hypertension Prevalence</b>	1 cross-sectional 1 database review	3403/7764 0	1.14	1.06,1.22	<0.001	0%	0.60	70%	<0.01	47%	0.13	58.3	0.12

\*For a detailed explanation on heterogeneity, see Appendix 3.

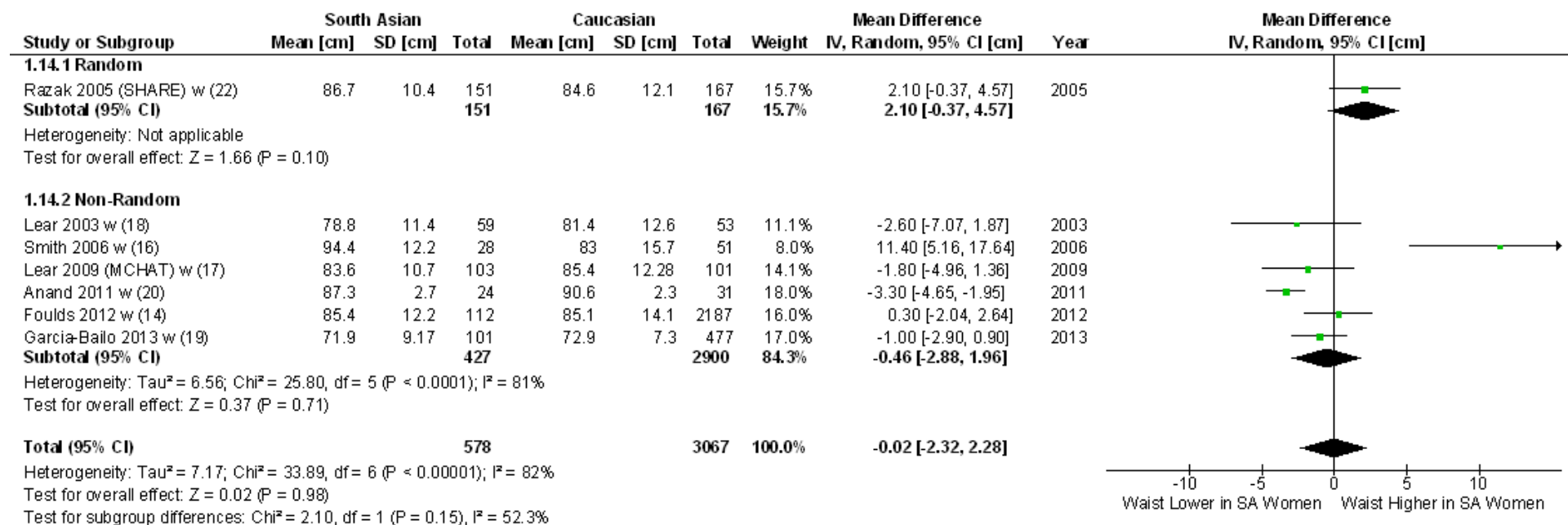
\*\* Secondary sub-groups analyses to explain heterogeneity, if unexplained by analyses of high-quality studies

BMI: Body Mass Index, WHR: Waist-to-hip ratio, HOMA-IR: Homeostatic Model Assessment- Insulin Resistance, SBP: Systolic Blood Pressure, DBP: Diastolic Blood Pressure, HDL-C: High Density Lipoprotein- Cholesterol, LDL-C: Low Density Lipoprotein-Cholesterol, TC: Total Cholesterol, TC:HDL-C: Ratio of Total Cholesterol to High Density Lipoprotein- Cholesterol, TG: Triglycerides, CRP: C-Reactive Protein

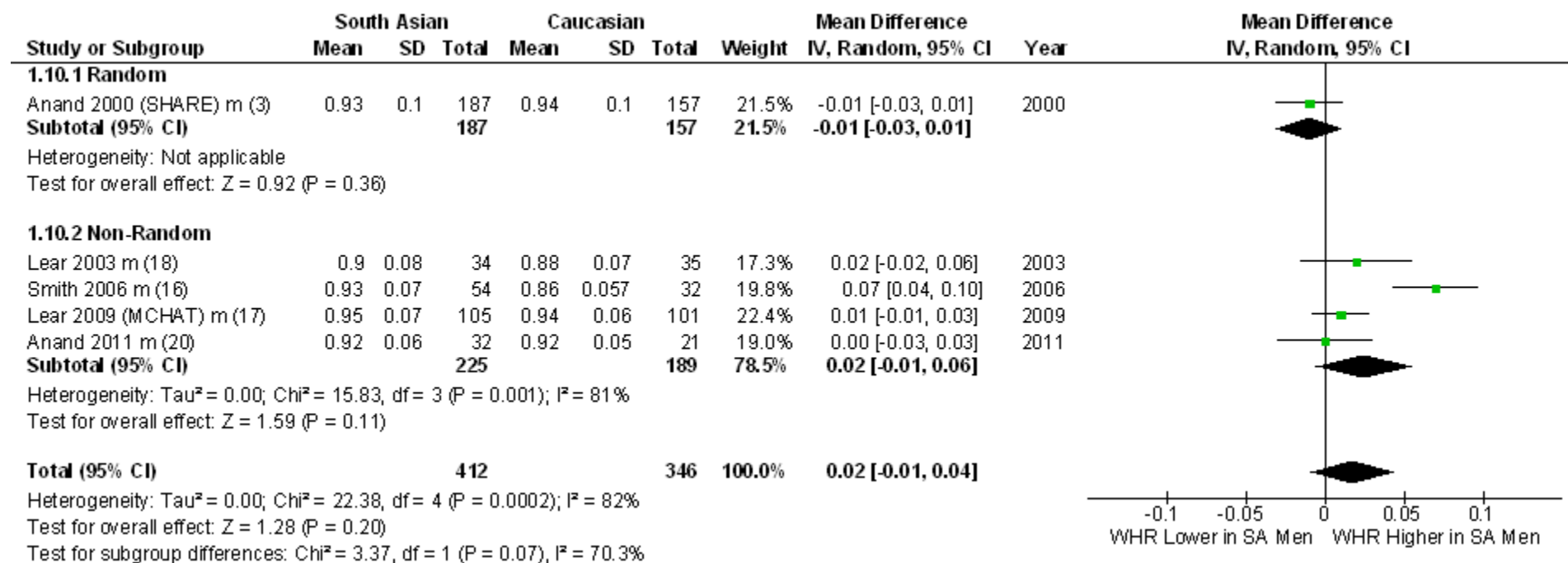
**eFigure 1. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Waist Circumference [cm] men.**



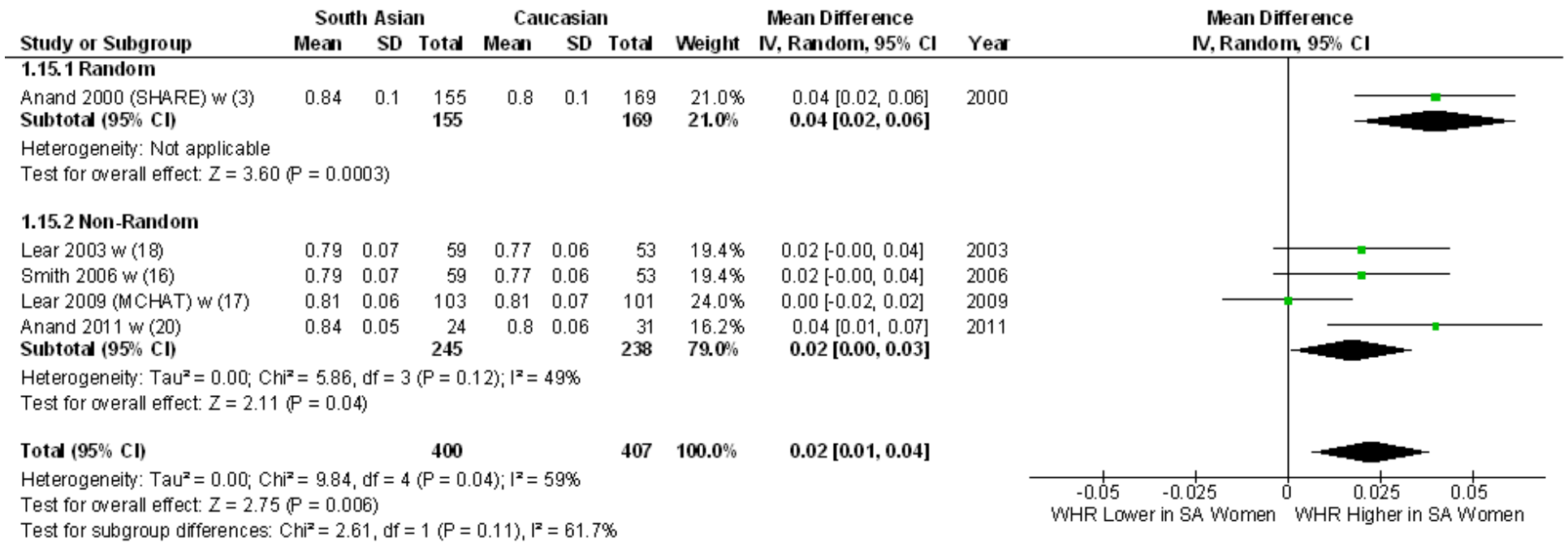
**eFigure 2. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Waist Circumference [cm] women.**



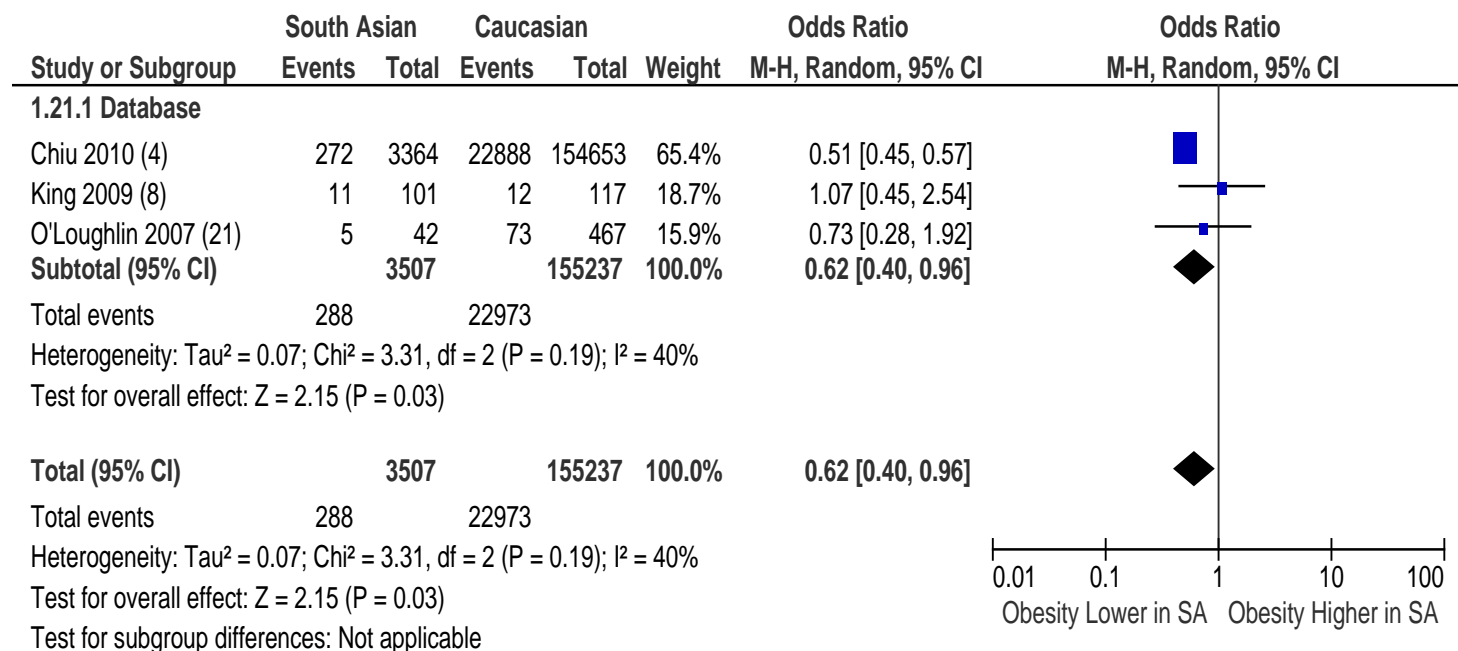
eFigure 3. Forest plot of comparison: South Asians vs. White Caucasians, outcome: WHR men



**eFigure 4. Forest plot of comparison: South Asians vs. White Caucasians, outcome: WHR women**

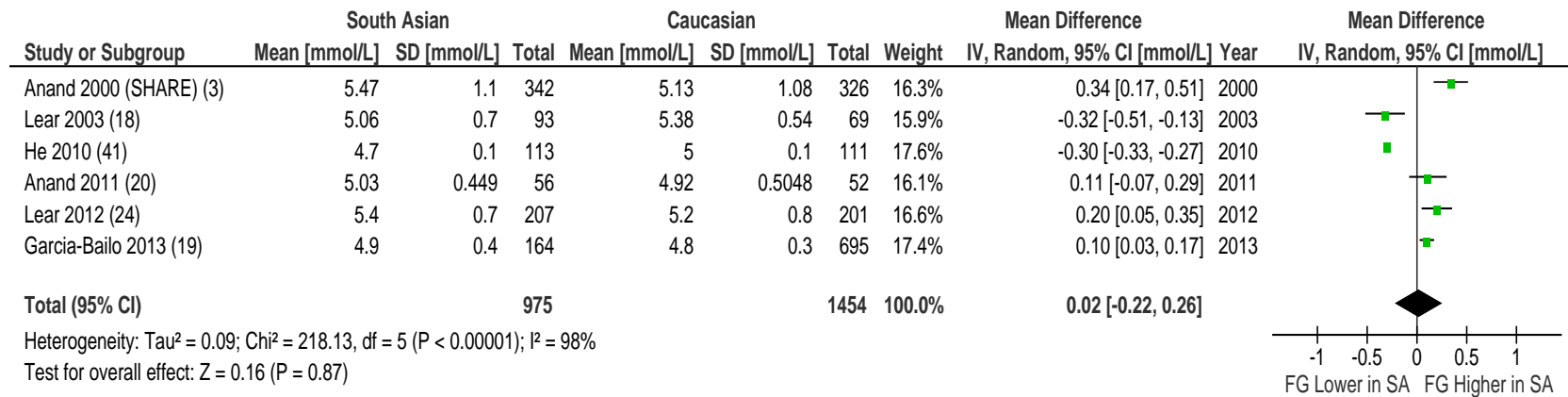


**eFigure 5. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Obesity**

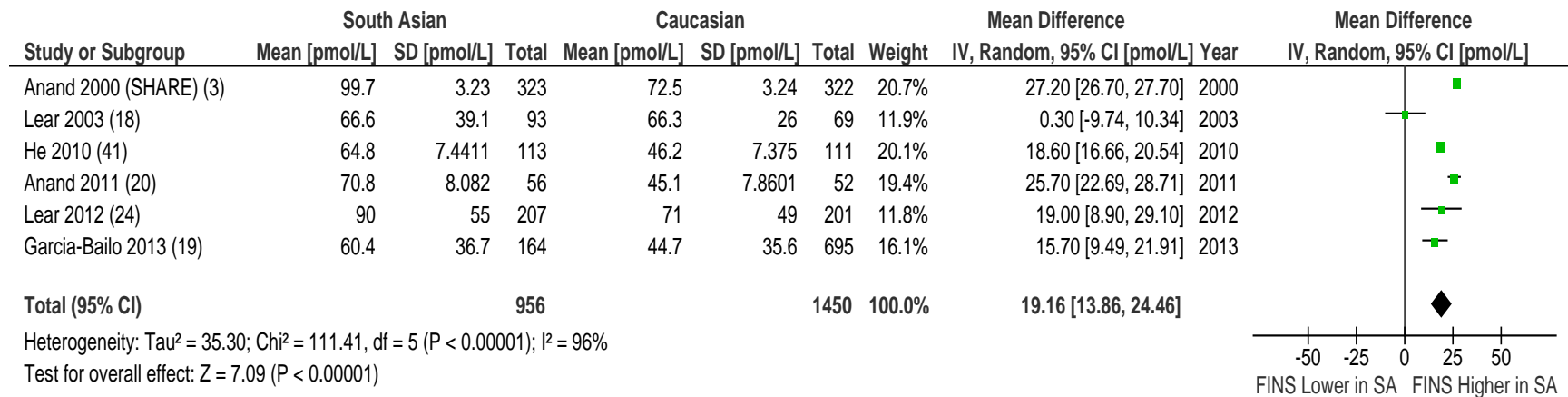




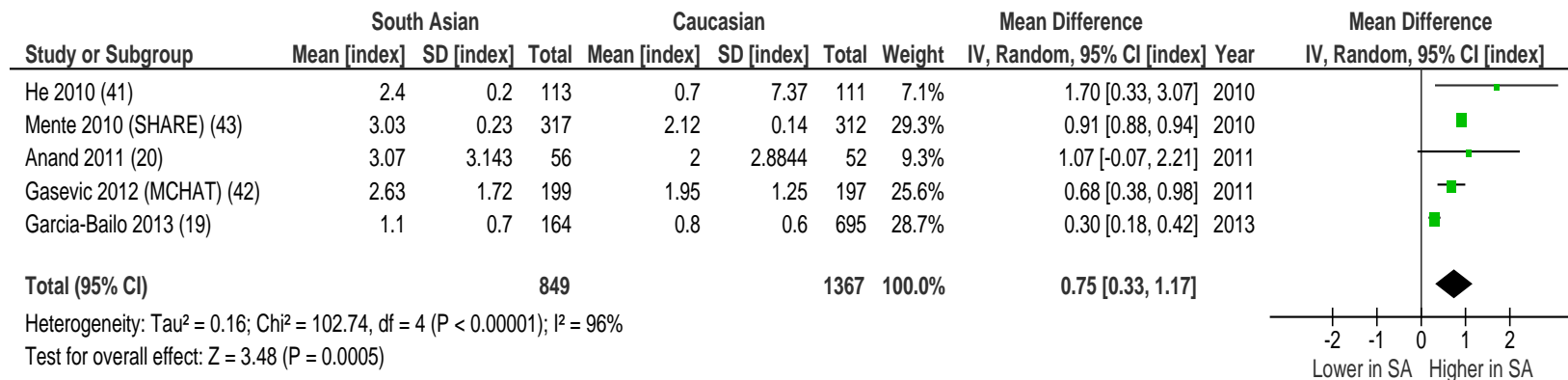
**eFigure 6. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Fasting Blood Glucose [mmol/L].**



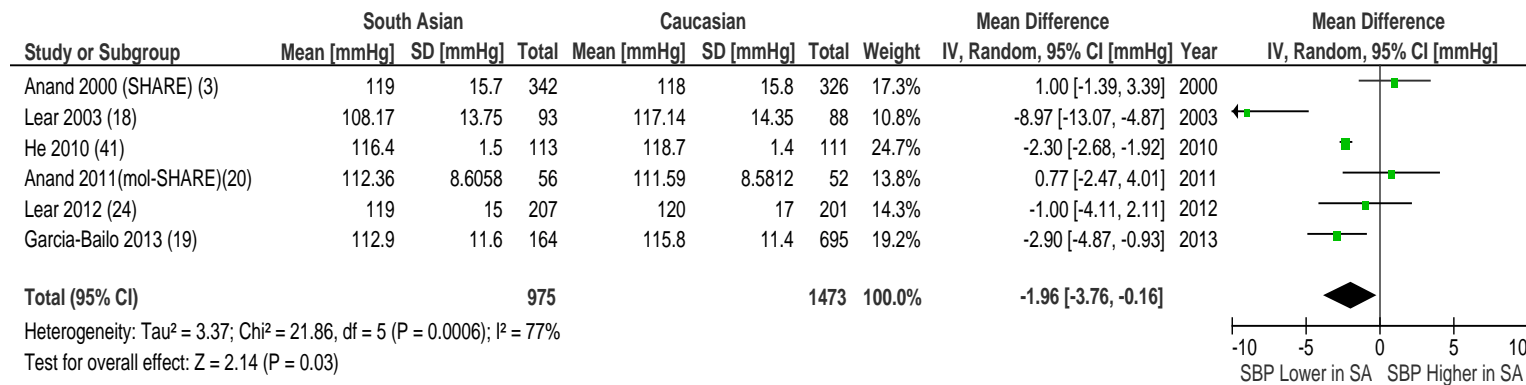
**eFigure 7. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Fasting Insulin [pmol/L].**



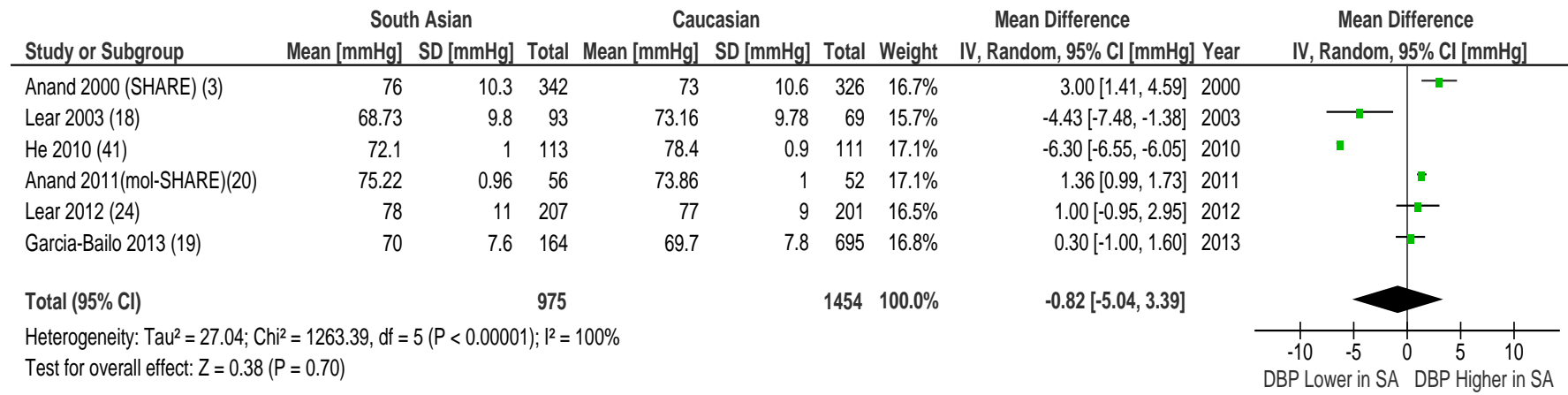
**eFigure 8. Forest plot of comparison: South Asians vs. White Caucasians, outcome: HOMA-IR**



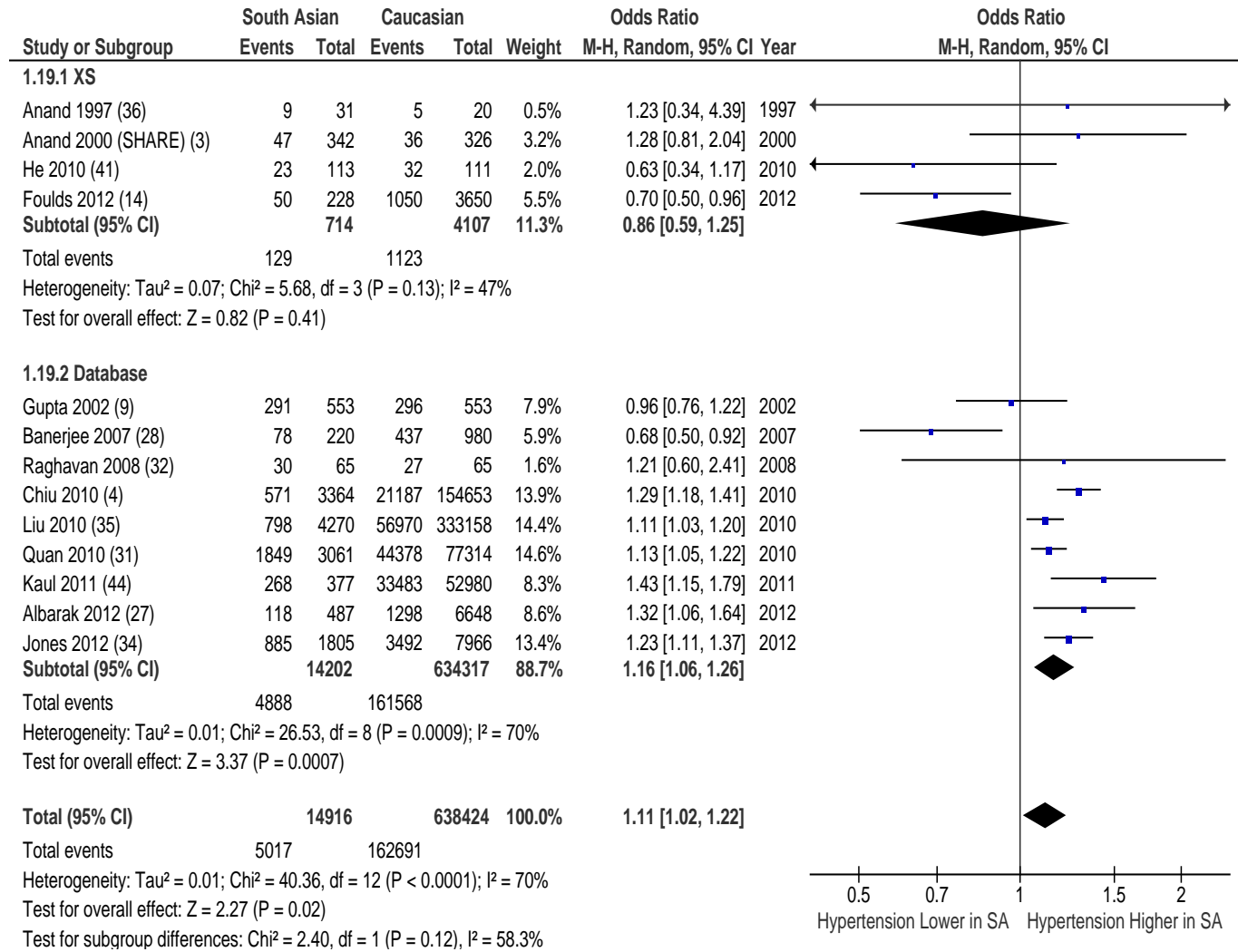
**eFigure 9. Forest plot of comparison: South Asians vs. White Caucasians, outcome: SBP [mmHg].**



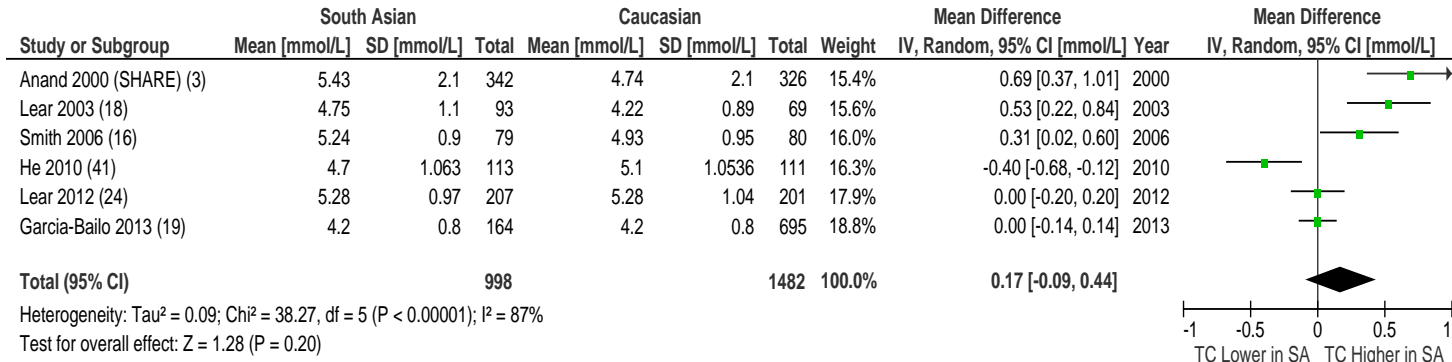
**eFigure 10. Forest plot of comparison: South Asians vs. White Caucasians, outcome: DBP [mmHg].**



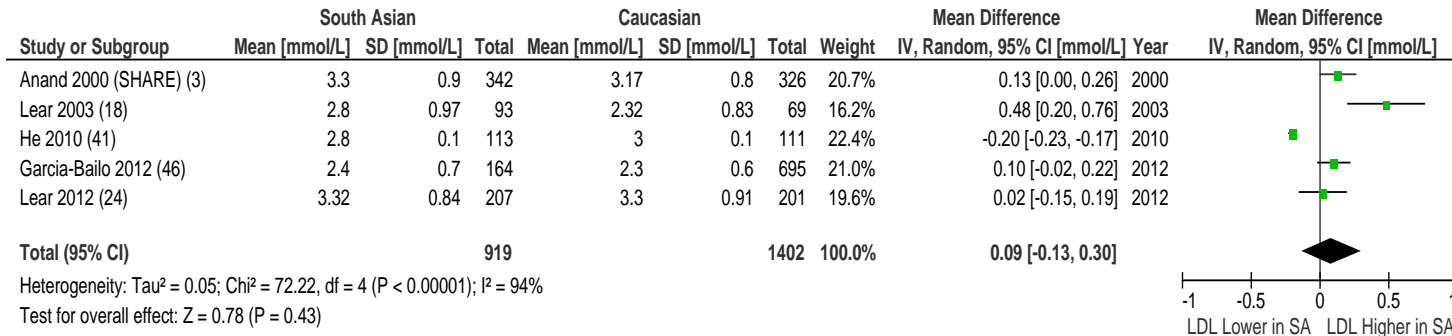
**eFigure 11. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Hypertension.**



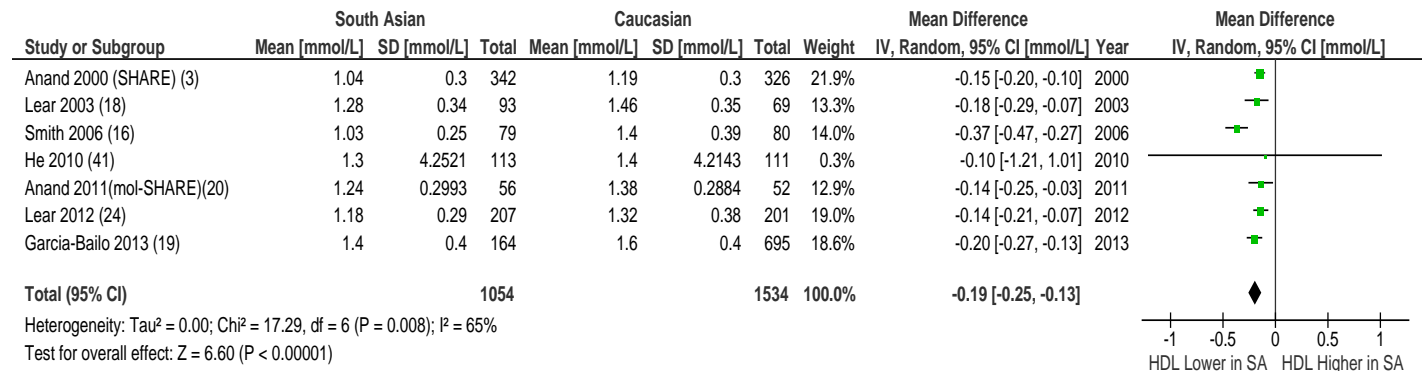
**eFigure 12. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Total Cholesterol [mmol/L].**



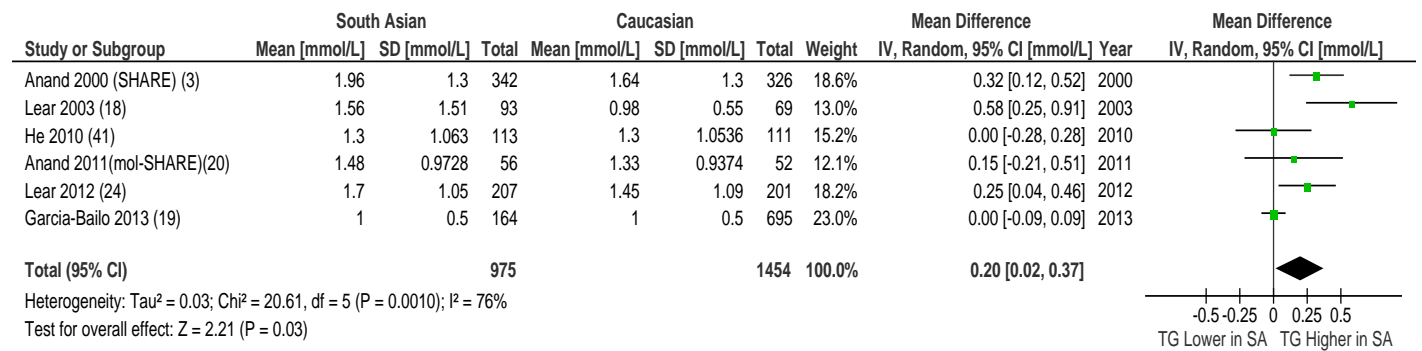
**eFigure 13. Forest plot of comparison: South Asians vs. White Caucasians, outcome: LDL-C [mmol/L].**



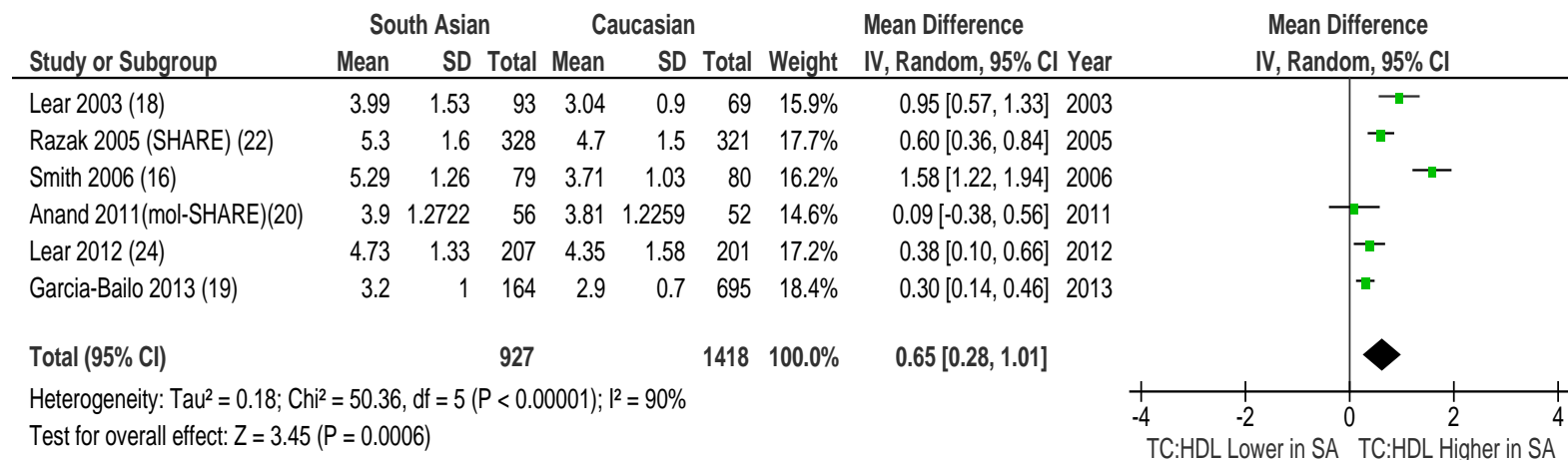
**eFigure 14. Forest plot of comparison: South Asians vs. White Caucasians, outcome: HDL-C [mmol/L].**



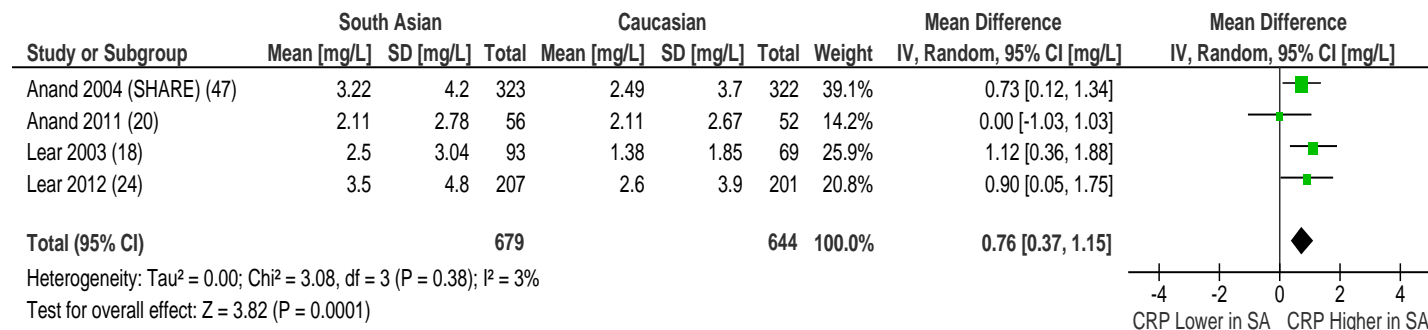
**eFigure 15. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Fasting TG [mmol/L].**



**eFigure 16. Forest plot of comparison: South Asians vs. White Caucasians, outcome: TC:HDL.**



**eFigure 17. Forest plot of comparison: South Asians vs. White Caucasians, outcome: CRP [mg/L].**



**eFigure 18. Forest plot of comparison: South Asians vs. White Caucasians, outcome: Smoking**

