

Authors [reference number]	Risk of bias 2 tool assessment					
	Bias arising from the randomization process	Bias due to deviations from intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported result	Overall risk of bias
Zhang [30]						
Jamali [35]						
Mirmiran [36]						
Liou [43]						

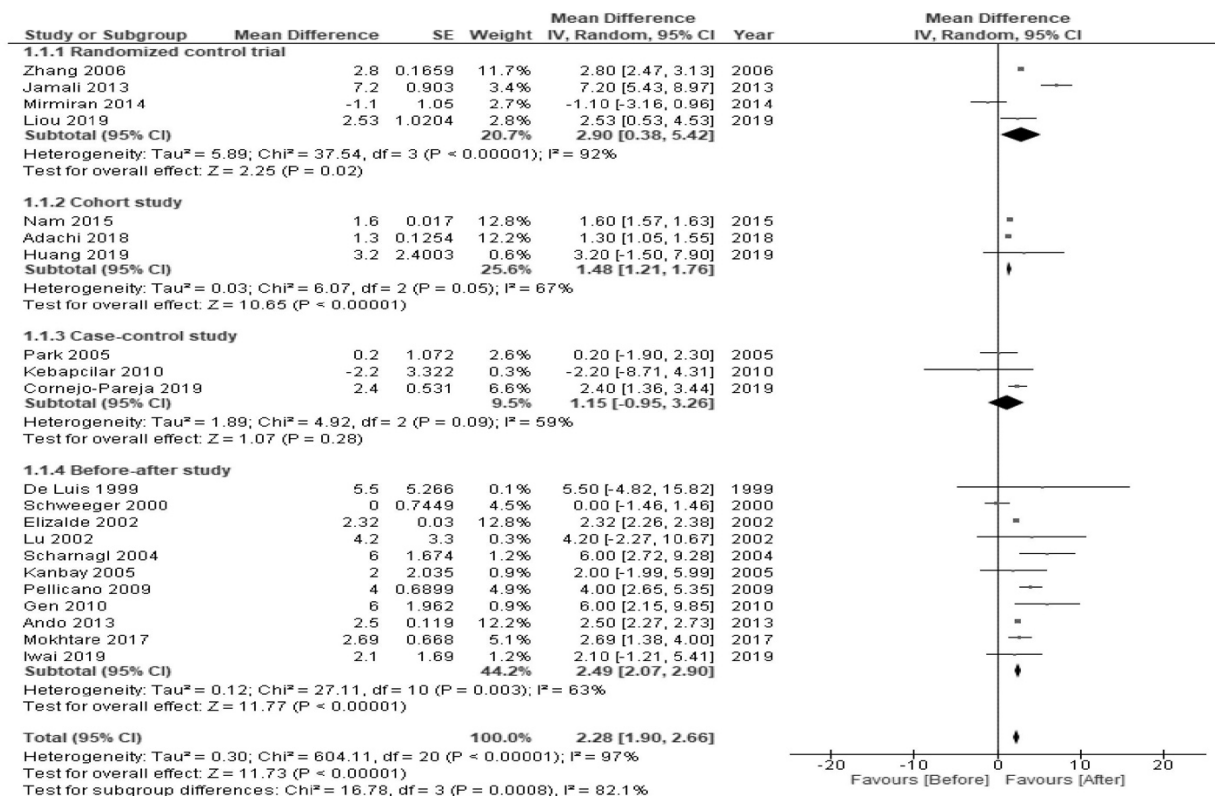
Low risk      Some concerns      High risk

**Supplementary Figure S1.** Quality scores for the reviewed randomized studies

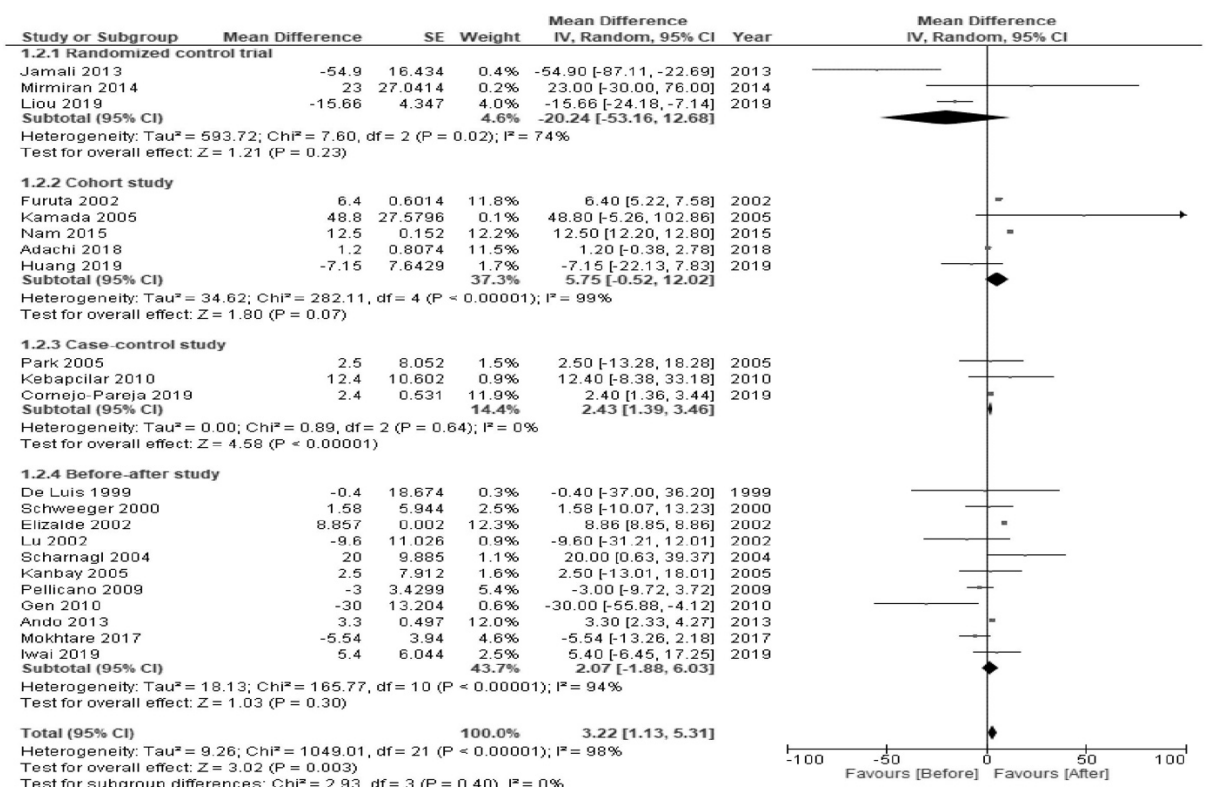
Authors [ref no.]	The Newcastle-Ottawa Quality Assessment Scale								Total Score
	Selection		Comparability			Outcome		Adequacy of follow-up of cohorts	
	Representatives of the exposed cohort/adequate case definition	Selection of the non-exposed cohort/representative of cases	Ascertainment of exposure/selection of controls	Demonstration that outcome of interest was not present at start of study/definition of controls	Comparability on the basis of design or analysis	Assessment of outcome/exposure	Was follow-up long enough for outcomes to occur		
De Luis [20]	★	-	★	-	-	★	-	★	4
Schweeger [21]	★	★	★	★	★	★	-	★	7
Azuma [22]	★	★	★	-	-	★	★	★	6
Elizalde [23]	★	★	★	-	-	★	-	★	5
Furuta [24]	★	★	★	-	-	★	★	★	6
Lu [25]	★	★	★	-	-	★	-	★	5
Scharnagl [26]	★	★	★	-	-	★	-	★	5
Kamada [27]	★	-	★	-	-	★	★	★	5
Kanbay [28]	★	★	★	★	★	★	-	★	7
Park [29]	★	★	★	-	-	★	-	★	5
Pellicano [31]	★	★	★	-	-	★	★	★	6
Gen [32]	★	-	★	★	★	★	★	★	7
Kebapcilar [33]	★	★	★	★	★	★	-	-	6
Ando [34]	★	★	★	-	-	★	-	-	4
Nam [37]	★	★	★	-	-	★	-	★	5
Mokhtare [38]	★	★	★	-	-	★	-	★	5
Adach [39]	★	★	★	-	-	★	★	-	5
Iwai [40]	★	★	★	-	-	★	-	★	5
Cornejo-Pareja [41]	★	★	★	-	-	★	-	★	5
Hung [42]	★	-	★	-	-	★	★	★	5

★ was awarded when the respective information was available.

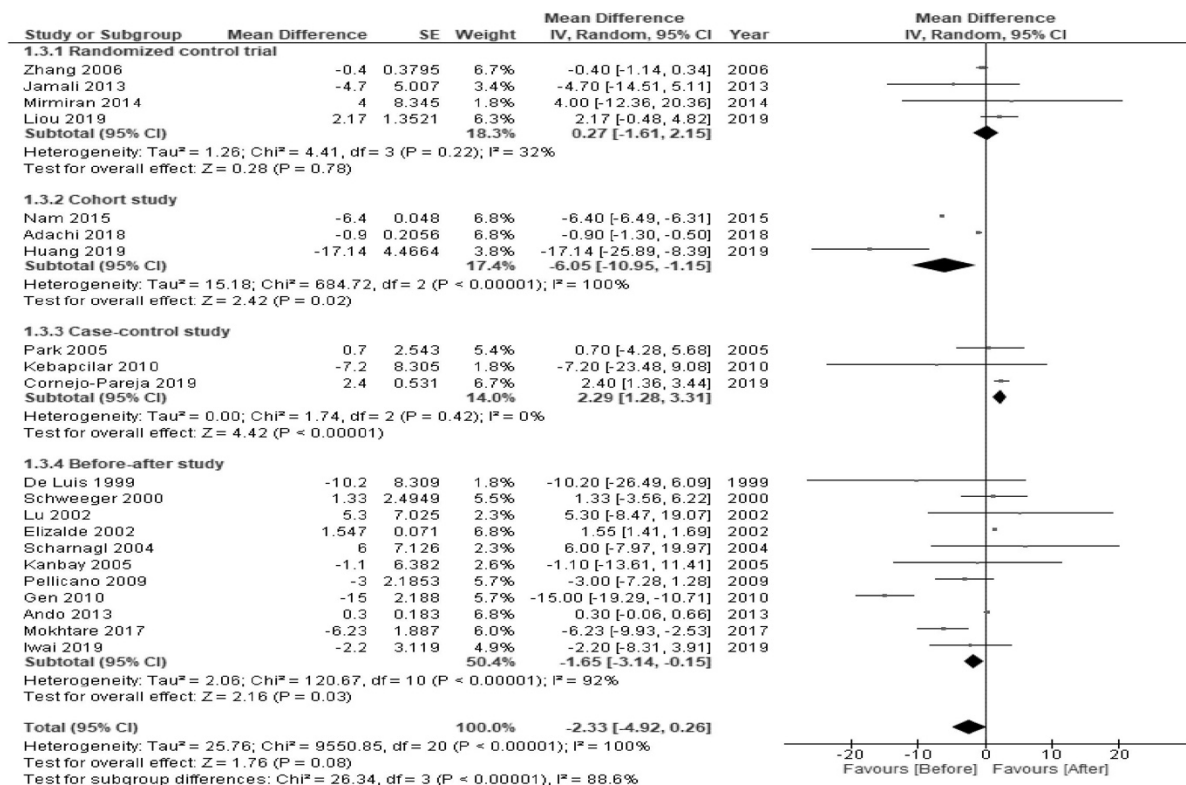
**Supplementary Figure S2.** Quality scores for the reviewed non-randomized studies



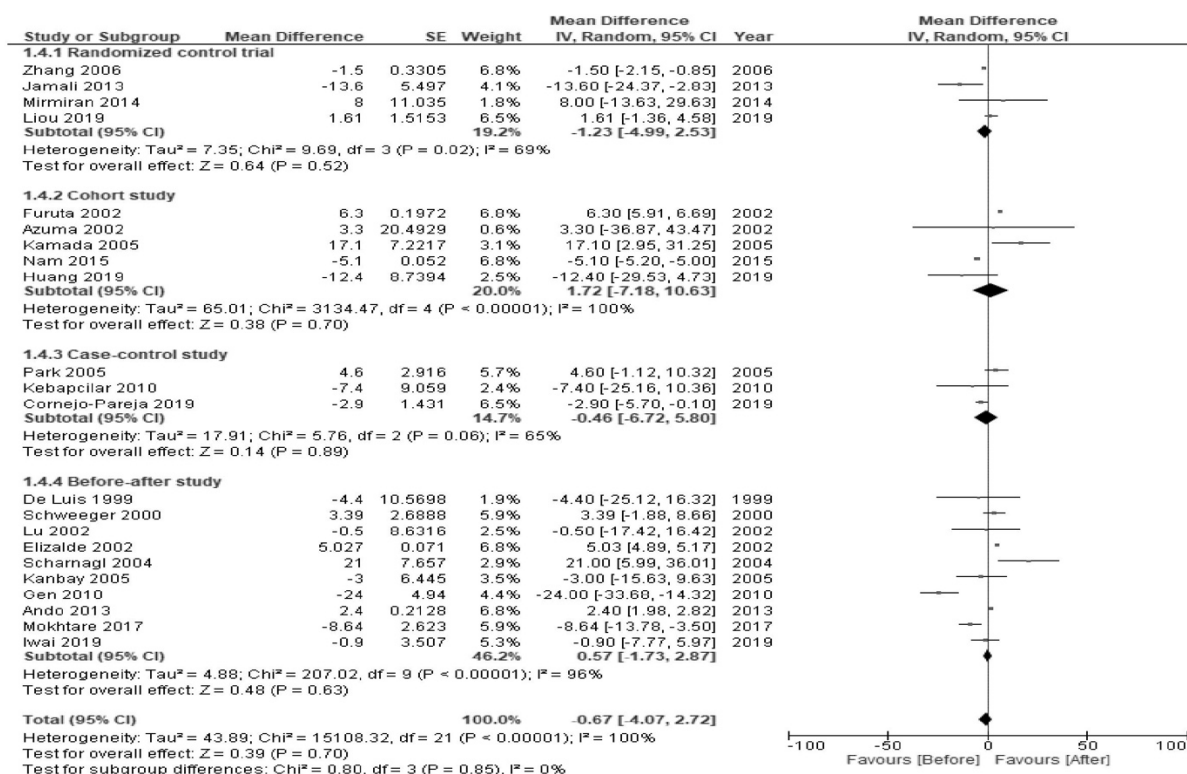
**Supplementary Figure S3.** Forest plot of the mean changes in high-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication for each study design



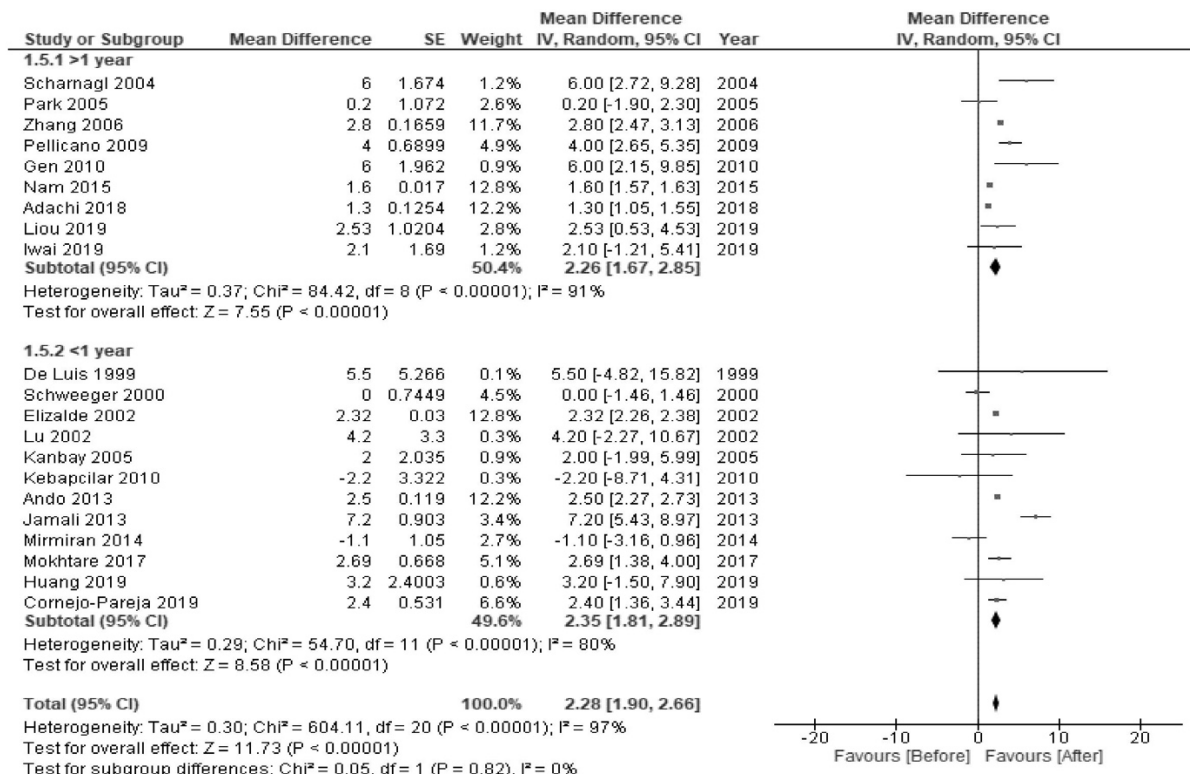
**Supplementary Figure S4.** Forest plot of the mean changes in triglyceride levels before and after *Helicobacter pylori* eradication for each study design



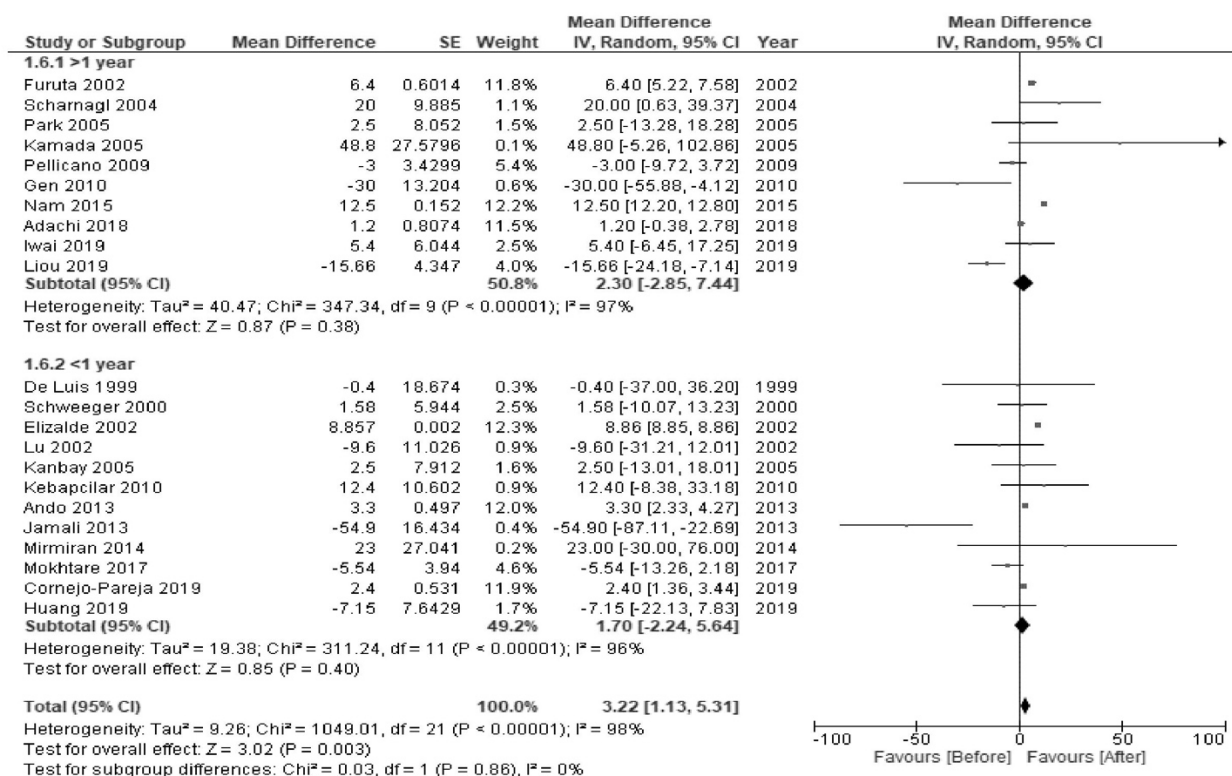
Supplementary Figure S5. Forest plot of the mean changes in low-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication for each study design



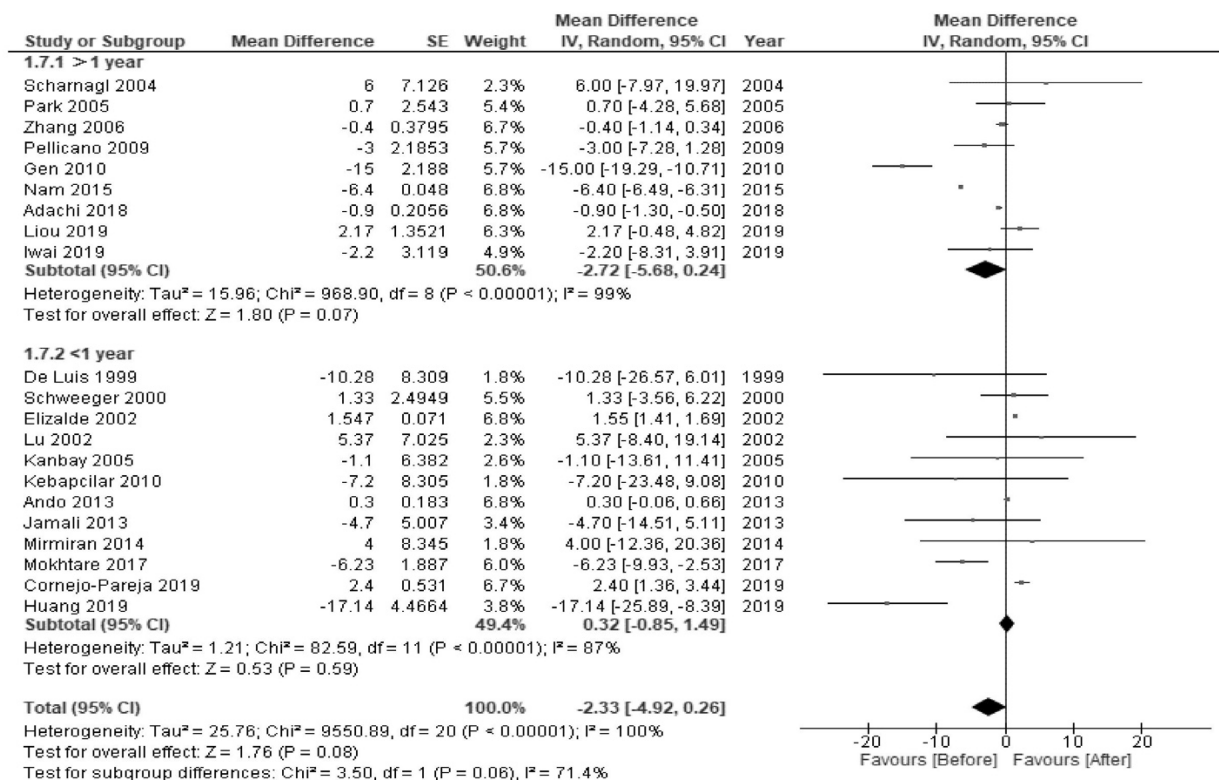
Supplementary Figure S6. Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication for each study design



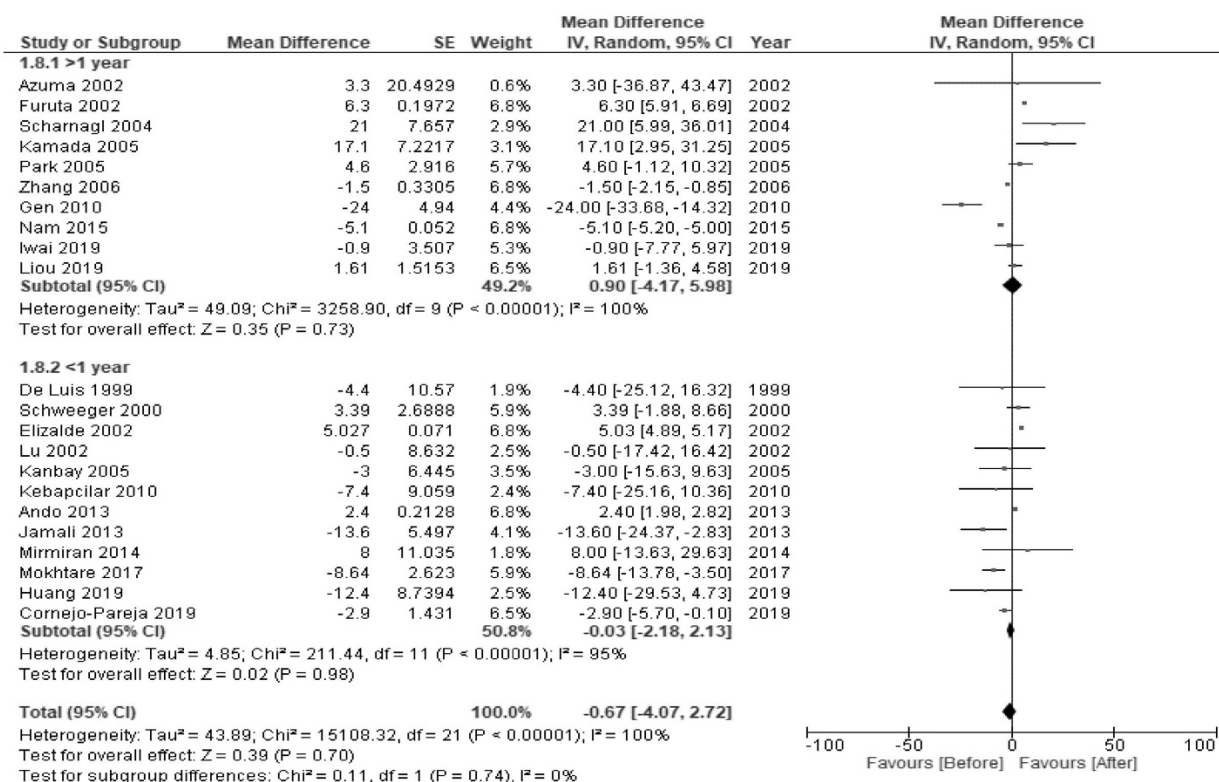
Supplementary Figure S7. Forest plot of the mean changes in high-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication during < 1- or ≥ 1-year follow-up



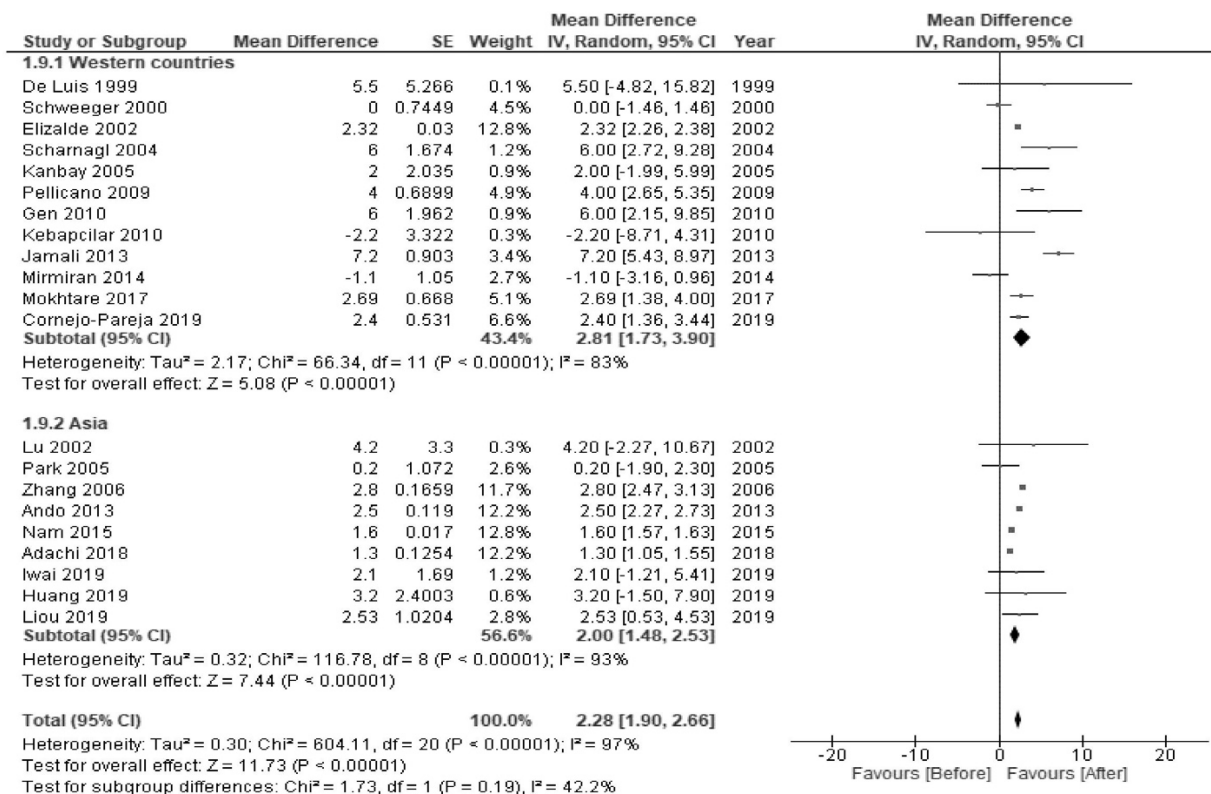
Supplementary Figure S8. Forest plot of the mean changes in triglyceride levels before and after *Helicobacter pylori* eradication during < 1- or ≥ 1-year follow-up



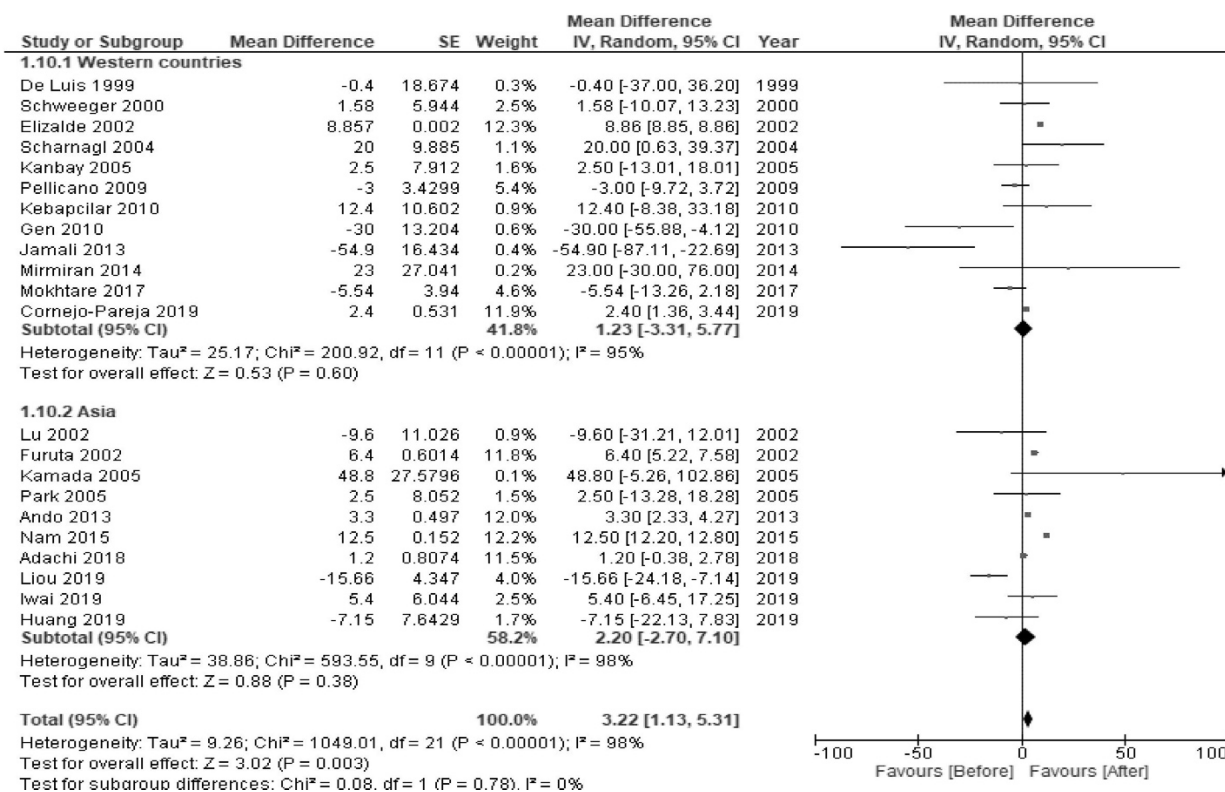
**Supplementary Figure S9.** Forest plot of the mean changes in low-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication during <1- or ≥1-year follow-up



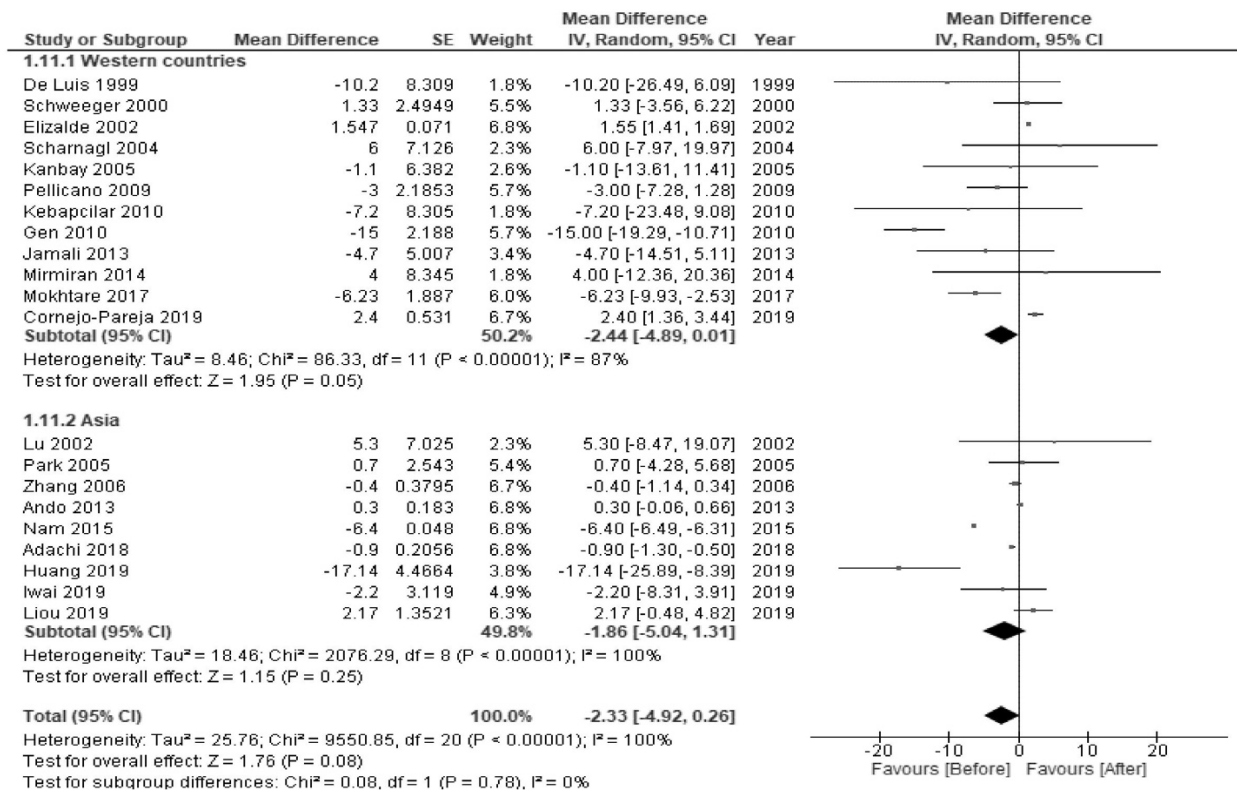
**Supplementary Figure S10.** Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication during <1- or ≥1-year follow-up



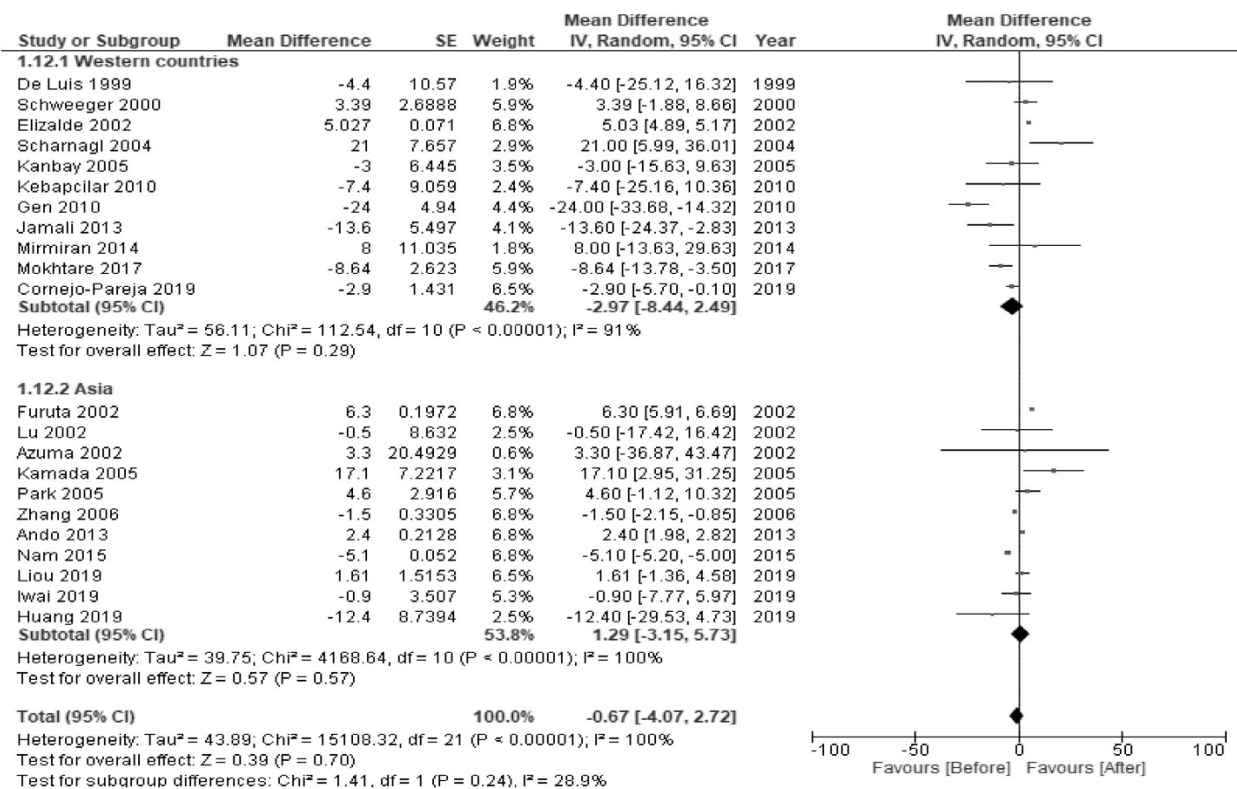
**Supplementary Figure S11.** Forest plot of the mean changes in high-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication in Western countries or Asia



**Supplementary Figure S12.** Forest plot of the mean changes in triglyceride levels before and after *Helicobacter pylori* eradication in Western countries or Asia

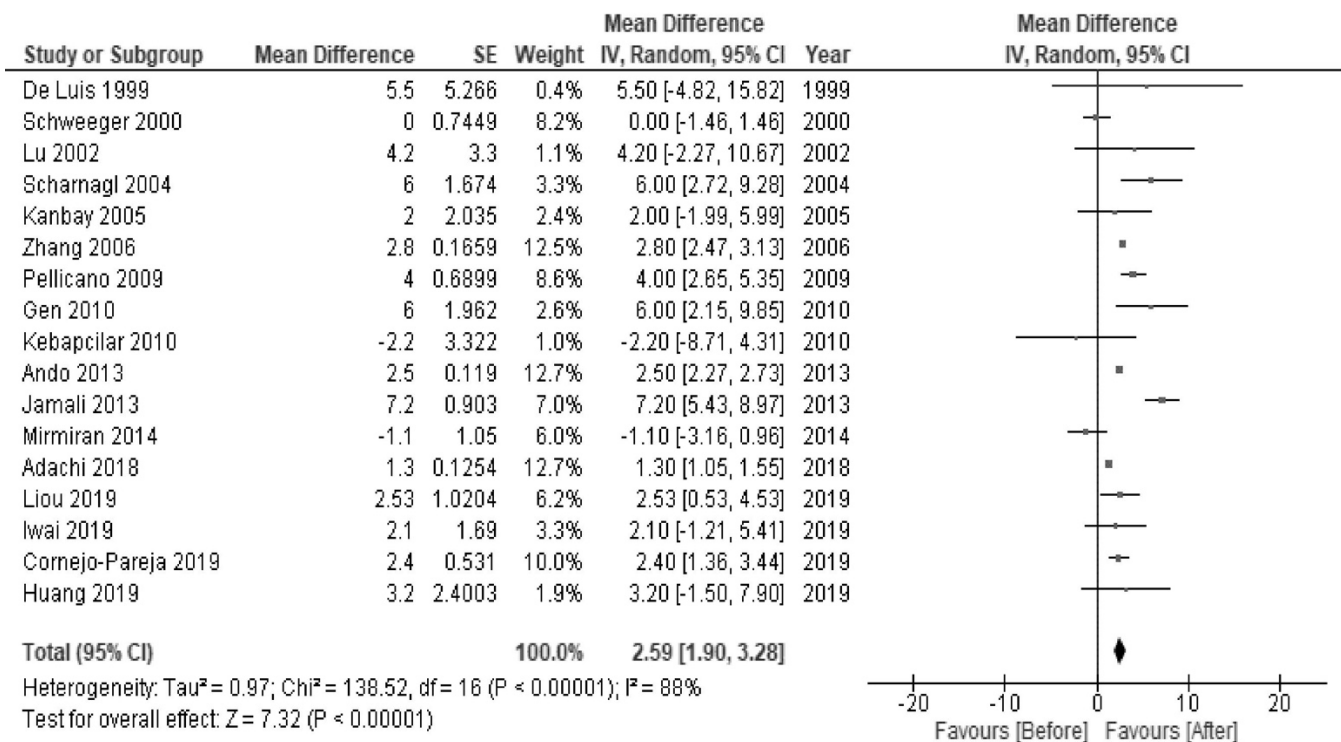


Supplementary Figure S13. Forest plot of the mean changes in low-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication in Western countries or Asia

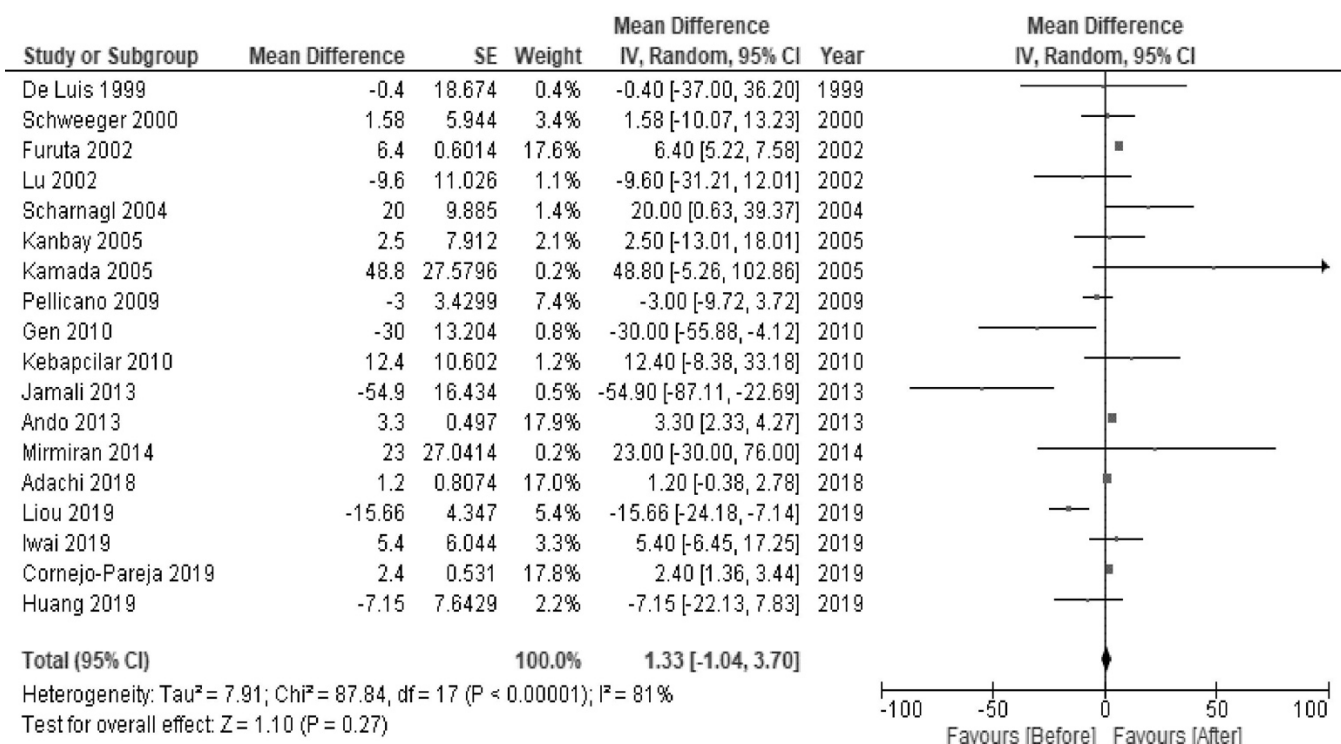




**Supplementary Figure S14.** Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication excluding studies which did not show the levels of HDL-C, TG, LDL-C and TC before *H. pylori* eradication



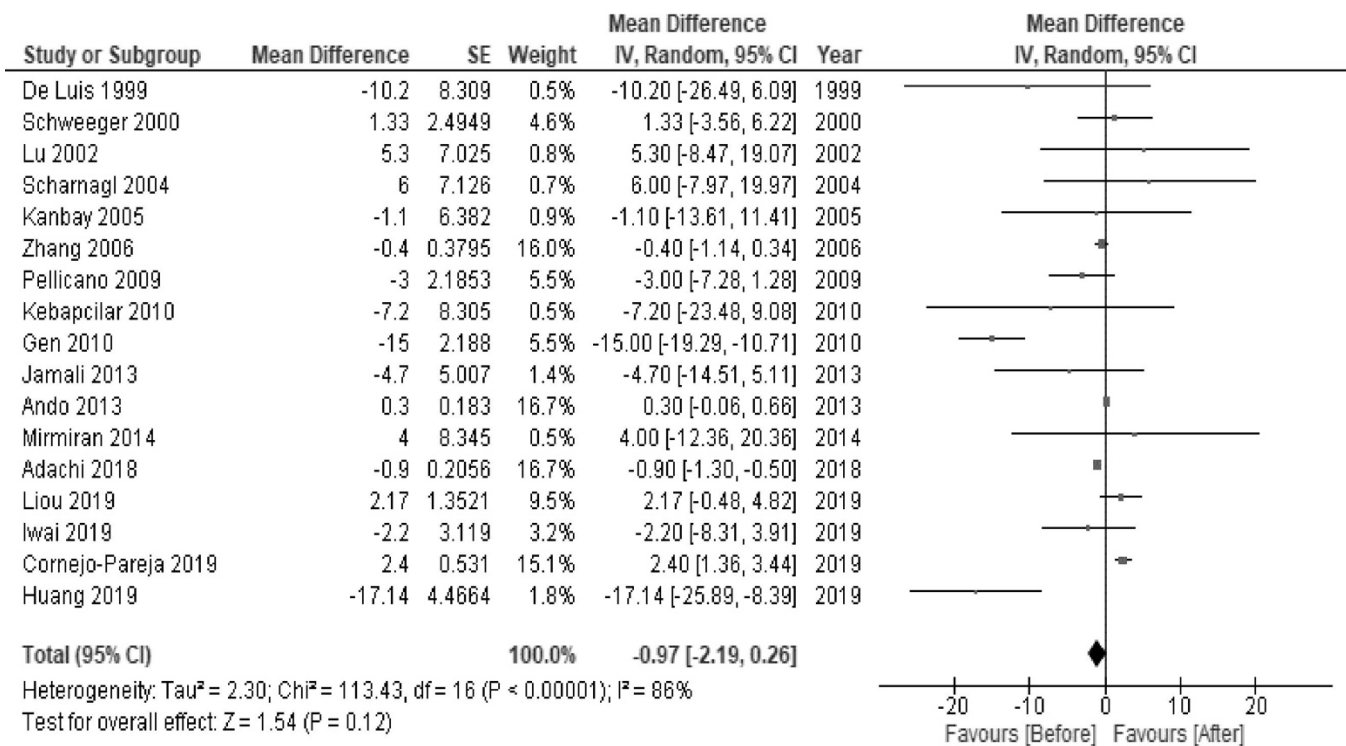
**Supplementary Figure S15.** Forest plot of the mean changes in high-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication excluding studies which did not show the levels of high-density lipoprotein cholesterol before *H. pylori* eradication



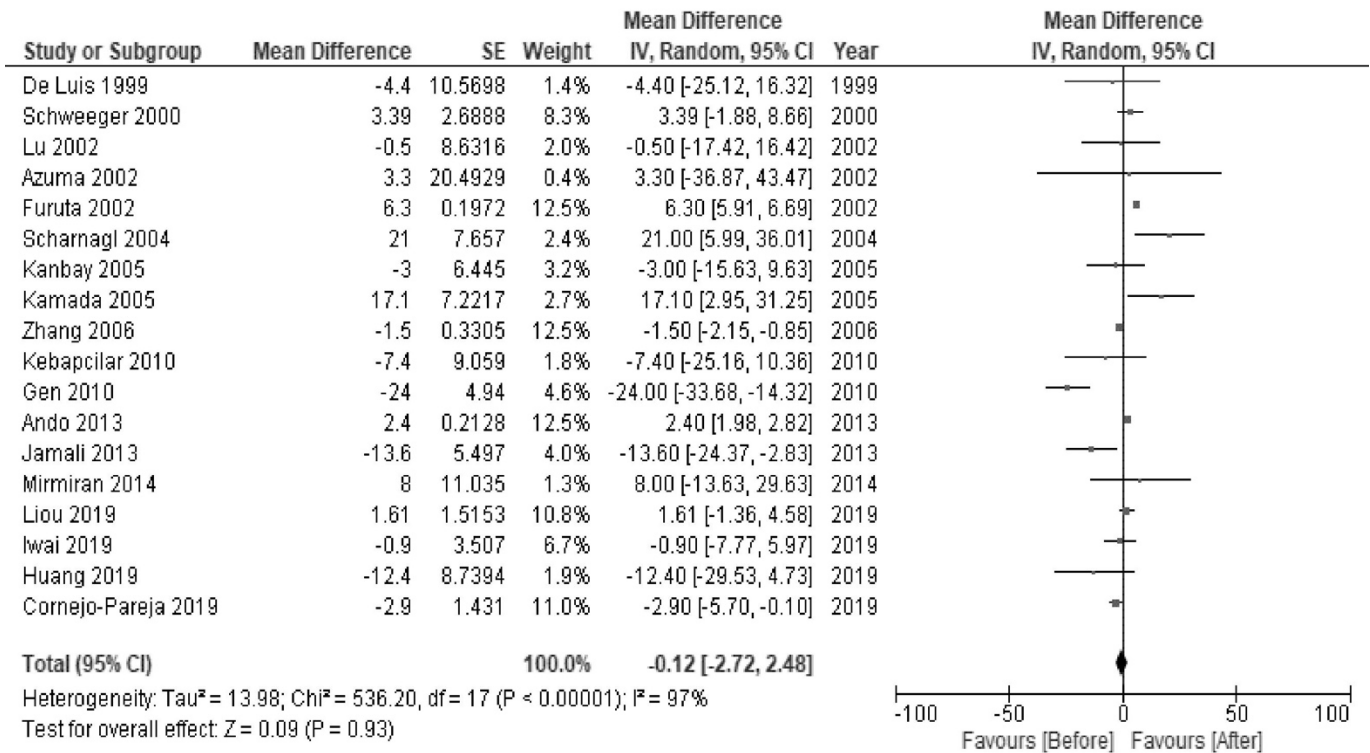




**Supplementary Figure S16.** Forest plot of the mean changes in triglyceride levels before and after *Helicobacter pylori* eradication excluding studies which did not show the levels of triglycerides before *H. pylori* eradication



**Supplementary Figure S17.** Forest plot of the mean changes in low-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication excluding studies which did not show the levels of low-density lipoprotein cholesterol before *H. pylori* eradication



**Supplementary Figure S18.** Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication excluding studies which did not show the levels of total cholesterol before *H. pylori* eradication