



Authors		Risk of bias 2 tool assessment										
[reference number]	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 concer	ns	- High risk	ζ.						

Supplementary Figure S1. Quality scores for the reviewed randomized studies

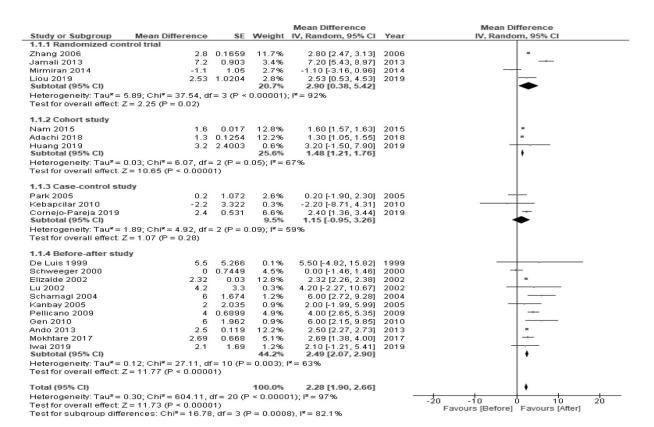
	The Newcastle-Ottawa Quality Assessment Scale											
		Selec	ction		Comparability		Outcome		Total			
Authors [ref no.]	Representatives of the exposed cohort/ adequate case difinition	Selection of the non-exposed cohort/ representative of cases	Ascertainment of exposure/ selection of controls	Demonstration 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	Adequacy of follow-up of cohorts	Score			
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			

 \star was awarded when the respective information was available.

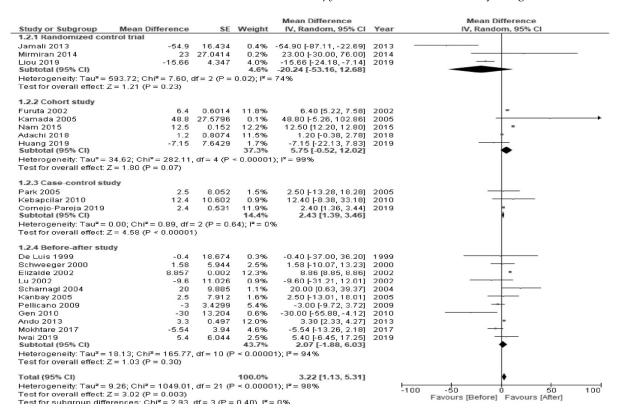
Supplementary Figure S2. Quality scores for the reviewed non-randomized studies







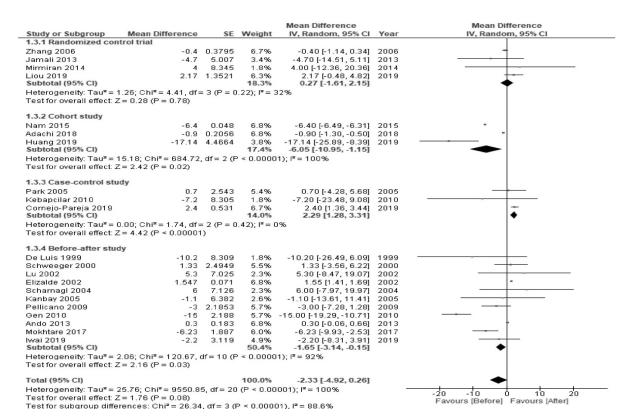
Supplementary Figure S3. Forest plot of the mean changes in high-density lipoprotein cholesterol levels before and after *Helicobacter pylori* eradication for each study design



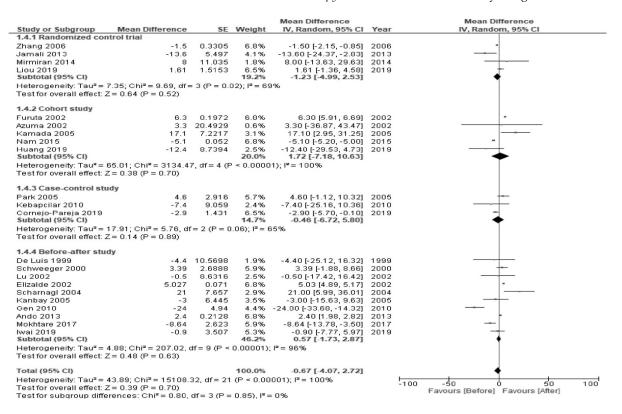
Supplementary Figure S4. Forest plot of the mean changes in triglyceride levels before and after *Helicobacter pylori* eradication for each study design







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



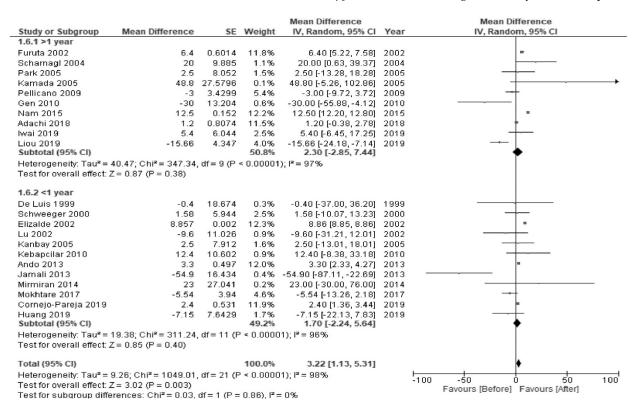
Supplementary Figure S6. Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication for each study design





				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% CI	Year	IV, Random, 95% CI
1.5.1 >1 year						
Scharnagi 2004	6	1.674	1.2%	6.00 [2.72, 9.28]	2004	
Park 2005	0.2	1.072	2.6%	0.20 [-1.90, 2.30]	2005	+-
Zhang 2006	2.8	0.1659	11.7%	2.80 [2.47, 3.13]	2006	
Pellicano 2009	4	0.6899	4.9%	4.00 [2.65, 5.35]	2009	
Gen 2010	6	1.962	0.9%	6.00 [2.15, 9.85]	2010	
Nam 2015	1.6	0.017	12.8%	1.60 [1.57, 1.63]	2015	
Adachi 2018	1.3	0.1254	12.2%	1.30 [1.05, 1.55]	2018	•
Liou 2019	2.53	1.0204	2.8%	2.53 [0.53, 4.53]	2019	
lwai 2019	2.1	1.69	1.2%	2.10 [-1.21, 5.41]	2019	+
Subtotal (95% CI)			50.4%	2.26 [1.67, 2.85]		•
Heterogeneity: Tau² = 0 Test for overall effect: Z			0.00001)	; I² = 91%		
1.5.2 <1 year						
De Luis 1999	5.5	5.266	0.1%	5.50 [-4.82, 15.82]	1999	
Schweeger 2000	0	0.7449	4.5%	0.00 [-1.46, 1.46]	2000	+
Elizalde 2002	2.32	0.03	12.8%	2.32 [2.26, 2.38]	2002	
Lu 2002	4.2	3.3	0.3%	4.20 [-2.27, 10.67]	2002	
Kanbay 2005	2	2.035	0.9%	2.00 [-1.99, 5.99]	2005	
Kebapcilar 2010	-2.2	3.322	0.3%	-2.20 [-8.71, 4.31]	2010	
Ando 2013	2.5	0.119	12.2%	2.50 [2.27, 2.73]	2013	
Jamali 2013	7.2	0.903	3.4%	7.20 [5.43, 8.97]	2013	
Mirmiran 2014	-1.1	1.05	2.7%	-1.10 [-3.16, 0.96]	2014	-+
Mokhtare 2017	2.69	0.668	5.1%	2.69 [1.38, 4.00]	2017	
Huang 2019	3.2	2.4003	0.6%	3.20 [-1.50, 7.90]	2019	+
Cornejo-Pareja 2019	2.4	0.531	6.6%	2.40 [1.36, 3.44]	2019	-
Subtotal (95% CI)			49.6%	2.35 [1.81, 2.89]		•
Heterogeneity: Tau ² = 0).29; Chi ² = 54.70, dt	= 11 (P	< 0.00001); I ² = 80%		
Test for overall effect: Z	= 8.58 (P ≺ 0.00001)				
Total (95% CI)			100.0%	2.28 [1.90, 2.66]		•
Heterogeneity: Tau ² = 0	0.30: Chi ^z = 604 11	if = 20 (F	<pre>< 0.0000</pre>	1); I ² = 97%		
Test for overall effect: Z			2.0000			-20 -10 0 10 20
	rences: Chi ² = 0.05.					Favours [Before] Favours [After]

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



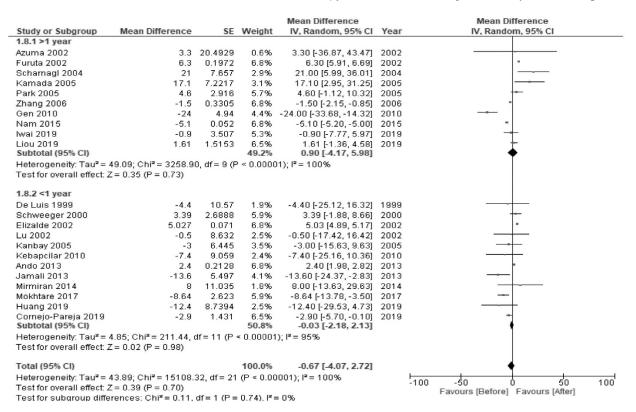


				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% CI	Year	IV, Random, 95% CI
1.7.1 >1 year						
Scharnagi 2004	6	7.126	2.3%	6.00 [-7.97, 19.97]	2004	
Park 2005	0.7	2.543	5.4%	0.70 [-4.28, 5.68]	2005	
Zhang 2006		0.3795	6.7%	-0.40 [-1.14, 0.34]	2006	-
Pellicano 2009	-3	2.1853	5.7%	-3.00 [-7.28, 1.28]	2009	
3en 2010	-15	2.188	5.7%	-15.00 [-19.29, -10.71]	2010	
Nam 2015	-6.4	0.048	6.8%	-6.40 [-6.49, -6.31]	2015	
Adachi 2018	-0.9	0.2056	6.8%	-0.90 [-1.30, -0.50]	2018	-
.iou 2019	2.17	1.3521	6.3%	2.17 [-0.48, 4.82]	2019	+
wai 2019	-2.2	3.119	4.9%	-2.20 [-8.31, 3.91]	2019	
Subtotal (95% CI)			50.6%	-2.72 [-5.68, 0.24]		◆
Heterogeneity: Tau ^z = 1	l 5.96; Chi ^z = 968.90,	df = 8 (F	<pre>0.0000</pre>)1); I² = 99%		
est for overall effect: Z	(= 1.80 (P = 0.07)					
.7.2 <1 year						
De Luis 1999	-10.28	8.309	1.8%	-10.28 [-26.57, 6.01]	1999	
Schweeger 2000	1.33	2.4949	5.5%	1.33 [-3.56, 6.22]	2000	
Elizalde 2002	1.547	0.071	6.8%	1.55 [1.41, 1.69]	2002	
_u 2002	5.37	7.025	2.3%	5.37 [-8.40, 19.14]	2002	
(anbay 2005	-1.1	6.382	2.6%	-1.10 [-13.61, 11.41]	2005	
(ebapcilar 2010	-7.2	8.305	1.8%	-7.20 [-23.48, 9.08]	2010	
ndo 2013	0.3	0.183	6.8%	0.30 [-0.06, 0.66]	2013	ł
lamali 2013	-4.7	5.007	3.4%	-4.70 [-14.51, 5.11]	2013	
/irmiran 2014	4	8.345	1.8%	4.00 [-12.36, 20.36]	2014	
/lokhtare 2017	-6.23	1.887	6.0%	-6.23 [-9.93, -2.53]	2017	
Cornejo-Pareja 2019	2.4	0.531	6.7%	2.40 [1.36, 3.44]	2019	+
Huang 2019	-17.14	4.4664	3.8%	-17.14 [-25.89, -8.39]	2019	
Subtotal (95% CI)			49.4%	0.32 [-0.85, 1.49]		•
leterogeneity: Tau ² = 1	I.21; Chi ^z = 82.59, df	'= 11 (P	< 0.00001); I ^z = 87%		
Fest for overall effect: Z						
Fotal (95% CI)			100.0%	-2.33 [-4.92, 0.26]		•
leterogeneity: Tau ² = 2	25.76; Chi ² = 9550.8	9, df = 20	(P < 0.00	0001); I ² = 100%		-20 -10 0 10 20

Test for overall effect: Z = 1.76 (P = 0.08) Test for subgroup differences: Chi² = 3.50, df = 1 (P = 0.06), i² = 71.4%

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

Favours [Before] Favours [After]



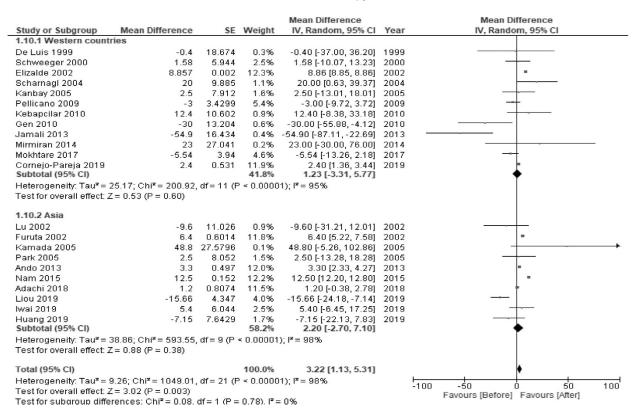
Supplementary Figure S10. Forest plot of the mean changes in total cholesterol levels before and after *Helicobacter pylori* eradication during < 1- or \geq 1-year follow-up





				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% CI	Year	IV, Random, 95% CI
1.9.1 Western countri	es					
De Luis 1999	5.5	5.266	0.1%	5.50 [-4.82, 15.82]	1999	
Schweeger 2000	0	0.7449	4.5%	0.00 [-1.46, 1.46]		-
Elizalde 2002	2.32	0.03	12.8%	2.32 [2.26, 2.38]		-
Scharnagl 2004	6	1.674	1.2%	6.00 [2.72, 9.28]	2004	
Kanbay 2005	2	2.035	0.9%	2.00 [-1.99, 5.99]	2005	<u>+</u>
Pellicano 2009	4	0.6899	4.9%	4.00 [2.65, 5.35]	2009	
Gen 2010	6	1.962	0.9%	6.00 [2.15, 9.85]	2010	
Kebapcilar 2010	-2.2	3.322	0.3%	-2.20 [-8.71, 4.31]	2010	
Jamali 2013	7.2	0.903	3.4%	7.20 [5.43, 8.97]	2013	
Mirmiran 2014	-1.1	1.05	2.7%	-1.10 [-3.16, 0.96]	2014	-+
Mokhtare 2017	2.69	0.668	5.1%	2.69 [1.38, 4.00]	2017	-
Cornejo-Pareja 2019	2.4	0.531	6.6%	2.40 [1.36, 3.44]	2019	
Subtotal (95% CI)			43.4%	2.81 [1.73, 3.90]		•
Heterogeneity: Tau ^z = 3	2.17; Chi ^z = 66.34, d	f = 11 (P	< 0.00001	I); I ^z = 83%		
Test for overall effect: 2	Z = 5.08 (P < 0.0000	1)				
1.9.2 Asia						
Lu 2002	4.2	3.3	0.3%	4.20 [-2.27, 10.67]	2002	
Park 2005	0.2	1.072		0.20 [-1.90, 2.30]		
Zhang 2006	2.8	0.1659	11.7%	2.80 [2.47, 3.13]	2006	
Ando 2013	2.5	0.119	12.2%	2.50 [2.27, 2.73]		-
Nam 2015	1.6	0.017	12.8%	1.60 [1.57, 1.63]	2015	
Adachi 2018	1.3	0.1254	12.2%	1.30 [1.05, 1.55]	2018	
lwai 2019	2.1	1.69	1.2%	2.10 [-1.21, 5.41]	2019	
Huang 2019	3.2	2.4003	0.6%	3.20 [-1.50, 7.90]	2019	+
Liou 2019	2.53	1.0204	2.8%	2.53 [0.53, 4.53]	2019	
Subtotal (95% CI)			56.6%	2.00 [1.48, 2.53]		•
Heterogeneity: Tau ^z = I	0.32; Chi ^z = 116.78,	df = 8 (P	< 0.00001	I); I ^z = 93%		
Test for overall effect: 2	Z = 7.44 (P ≤ 0.00001	1)				
Total (95% CI)			100.0%	2.28 [1.90, 2.66]		•
Heterogeneity: Tau ² = I	0.30: Chi ² = 604.11.	df = 20 (F	<pre>< 0.0000</pre>			
Test for overall effect: 2			2.0000			-20 -10 0 10 20
			= 0.19) P	² = 42.2%		Favours [Before] Favours [After]
Test for subgroup diffe	rences: Chi ² = 1.73,	df = 1 (P	= 0.19), P	² = 42.2%		(=

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





				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	\$E	Weight	IV, Random, 95% CI	Year	IV, Random, 95% CI
1.11.1 Western count						
De Luis 1999	-10.2	8.309	1.8%	-10.20 [-26.49, 6.09]	1999	
Schweeger 2000		2.4949	5.5%	1.33 [-3.56, 6.22]	2000	
Elizalde 2002	1.547	0.071	6.8%	1.55 [1.41, 1.69]	2002	•
Scharnagl 2004	6	7.126	2.3%	6.00 [-7.97, 19.97]	2004	
Kanbay 2005	-1.1	6.382	2.6%	-1.10 [-13.61, 11.41]	2005	
Pellicano 2009	-3	2.1853	5.7%	-3.00 [-7.28, 1.28]	2009	
Kebapcilar 2010	-7.2	8.305	1.8%	-7.20 [-23.48, 9.08]	2010	
Gen 2010	-15	2.188	5.7%	-15.00 [-19.29, -10.71]	2010	
Jamali 2013	-4.7	5.007	3.4%	-4.70 [-14.51, 5.11]	2013	
Mirmiran 2014	4	8.345	1.8%	4.00 [-12.36, 20.36]	2014	
Mokhtare 2017	-6.23	1.887	6.0%	-6.23 [-9.93, -2.53]	2017	
Cornejo-Pareja 2019	2.4	0.531	6.7%	2.40 [1.36, 3.44]	2019	+
Subtotal (95% CI)			50.2%	-2.44 [-4.89, 0.01]		◆
Heterogeneity: Tau ² = (8.46; Chi ^z = 86.33, dt	'= 11 (P	< 0.00001); I ^z = 87%		
Test for overall effect: 2	Z = 1.95 (P = 0.05)					
1.11.2 Asia						
Lu 2002	5.3	7.025	2.3%	5.30 [-8.47, 19.07]	2002	· · · · · · · · · · · · · · · · · · ·
Park 2005	0.7	2.543	5.4%	0.70 [-4.28, 5.68]	2005	
Zhang 2006	-0.4	0.3795	6.7%	-0.40 [-1.14, 0.34]	2006	-
Ando 2013	0.3	0.183	6.8%	0.30 [-0.06, 0.66]	2013	ł
Nam 2015	-6.4	0.048	6.8%	-6.40 [-6.49, -6.31]	2015	
Adachi 2018	-0.9	0.2056	6.8%	-0.90 [-1.30, -0.50]	2018	
Huang 2019	-17.14	4.4664	3.8%	-17.14 [-25.89, -8.39]	2019	
Iwai 2019	-2.2	3.119	4.9%	-2.20 [-8.31, 3.91]	2019	
Liou 2019	2.17	1.3521	6.3%	2.17 [-0.48, 4.82]	2019	+
Subtotal (95% CI)			49.8%	-1.86 [-5.04, 1.31]		◆
Heterogeneity: Tau ² = 1	18.46; Chi ² = 2076.2	9, df = 8 i	(P < 0.000	001); I ^z = 100%		
Test for overall effect: 2				2008 220 2		
Total (95% CI)			100.0%	-2.33 [-4.92, 0.26]		•
Heterogeneity: Tau ² = 3	25.76: Chi ² = 9550.8	5. df = 20) (P < 0.00	0001); I ² = 100%		-20 -10 0 10 20
		-1				-20 -10 0 10 20
Test for overall effect: 2	Z = 1.76 (P = 0.08)					Favours [Before] Favours [After]

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

				Mean Difference		Mean Difference
	lean Difference	SE	Weight	IV, Random, 95% CI	Year	IV, Random, 95% Cl
1.12.1 Western countries						
De Luis 1999	-4.4	10.57	1.9%	-4.40 [-25.12, 16.32]	1999	
Schweeger 2000	3.39	2.6888	5.9%	3.39 [-1.88, 8.66]	2000	+
Elizalde 2002	5.027	0.071	6.8%	5.03 [4.89, 5.17]	2002	
Scharnagi 2004	21	7.657	2.9%	21.00 [5.99, 36.01]	2004	
Kanbay 2005	-3	6.445	3.5%	-3.00 [-15.63, 9.63]	2005	
Kebapcilar 2010	-7.4	9.059	2.4%	-7.40 [-25.16, 10.36]	2010	
Gen 2010	-24	4.94	4.4%	-24.00 [-33.68, -14.32]	2010	
Jamali 2013	-13.6	5.497	4.1%	-13.60 [-24.37, -2.83]	2013	
Mirmiran 2014	8	11.035	1.8%	8.00 [-13.63, 29.63]	2014	
Mokhtare 2017	-8.64	2.623	5.9%	-8.64 [-13.78, -3.50]	2017	
Cornejo-Pareja 2019	-2.9	1.431	6.5%	-2.90 [-5.70, -0.10]	2019	*
Subtotal (95% CI)			46.2%	-2.97 [-8.44, 2.49]		•
Heterogeneity: Tau ² = 56.1	1; Chi ² = 112.54,	df = 10 (F	× 0.0000 ×	I1); I² = 91%		
Test for overall effect: Z = 1	1.07 (P = 0.29)					
1.12.2 Asia						
Furuta 2002	6.3	0.1972	6.8%	6.30 [5.91, 6.69]	2002	
Lu 2002	-0.5	8.632	2.5%	-0.50 [-17.42, 16.42]	2002	
Azuma 2002	3.3	20.4929	0.6%	3.30 [-36.87, 43.47]	2002	
Kamada 2005	17.1	7.2217	3.1%	17.10 [2.95, 31.25]	2005	
Park 2005	4.6	2.916	5.7%	4.60 [-1.12, 10.32]	2005	+
Zhang 2006	-1.5	0.3305	6.8%	-1.50 [-2.15, -0.85]	2006	•
Ando 2013	2.4	0.2128	6.8%	2.40 [1.98, 2.82]	2013	-
Nam 2015	-5.1	0.052	6.8%	-5.10 [-5.20, -5.00]	2015	-
Liou 2019	1.61	1.5153	6.5%	1.61 [-1.36, 4.58]	2019	+
lwai 2019	-0.9	3.507	5.3%	-0.90 [-7.77, 5.97]	2019	-
Huang 2019	-12.4	8.7394	2.5%	-12.40 [-29.53, 4.73]	2019	
Subtotal (95% CI)			53.8%	1.29 [-3.15, 5.73]		•
Heterogeneity: Tau ² = 39.7	'5; Chi² = 4168.64	4, df = 10 ((P < 0.000	l01); I² = 100%		
Test for overall effect: Z = 0).57 (P = 0.57)					
Total (95% CI)			100.0%	-0.67 [-4.07, 2.72]		•
Heterogeneity: Tau ² = 43.8	39; Chi ² = 15108.3	32, df = 21	(P < 0.00	1001); I ² = 100%	Ŀ	
Test for overall effect: Z = 0	0.39 (P = 0.70)				-'	Favours [Before] Favours [After]
Test for subgroup differen		df = 1 (P =	0.24), I ² =	= 28.9%		Favours [Delote] Favours [Alter]





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

				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	\$E	Weight	IV, Random, 95% Cl	Year	IV, Random, 95% CI
De Luis 1999	5.5	5.266	0.4%	5.50 [-4.82, 15.82]	1999	
Schweeger 2000	0	0.7449	8.2%	0.00 [-1.46, 1.46]	2000	+
Lu 2002	4.2	3.3	1.1%	4.20 [-2.27, 10.67]	2002	+
Scharnagi 2004	6	1.674	3.3%	6.00 [2.72, 9.28]	2004	
Kanbay 2005	2	2.035	2.4%	2.00 [-1.99, 5.99]	2005	+
Zhang 2006	2.8	0.1659	12.5%	2.80 [2.47, 3.13]	2006	•
Pellicano 2009	4	0.6899	8.6%	4.00 [2.65, 5.35]	2009	
Gen 2010	6	1.962	2.6%	6.00 [2.15, 9.85]	2010	
Kebapcilar 2010	-2.2	3.322	1.0%	-2.20 [-8.71, 4.31]	2010	
Ando 2013	2.5	0.119	12.7%	2.50 [2.27, 2.73]	2013	•
Jamali 2013	7.2	0.903	7.0%	7.20 [5.43, 8.97]	2013	
Mirmiran 2014	-1.1	1.05	6.0%	-1.10 [-3.16, 0.96]	2014	+
Adachi 2018	1.3	0.1254	12.7%	1.30 [1.05, 1.55]	2018	
Liou 2019	2.53	1.0204	6.2%	2.53 [0.53, 4.53]	2019	
lwai 2019	2.1	1.69	3.3%	2.10 [-1.21, 5.41]	2019	+
Cornejo-Pareja 2019	2.4	0.531	10.0%	2.40 [1.36, 3.44]	2019	+
Huang 2019	3.2	2.4003	1.9%	3.20 [-1.50, 7.90]	2019	+
Total (95% CI)			100.0%	2.59 [1.90, 3.28]		•
Heterogeneity: Tau ² = 0.	97; Chi² = 138.52,	df = 16 (P	< 0.0000)1); I² = 88%		-20 -10 0 10 20
Test for overall effect: Z:	= 7.32 (P < 0.00001)				-20 -10 0 10 20 Favours [Before] Favours [After]
						Tavouis [Delore] Favouis [Alter]

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

				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% Cl	Үеаг	IV, Random, 95% CI
De Luis 1999	-0.4	18.674	0.4%	-0.40 [-37.00, 36.20]	1999	
Schweeger 2000	1.58	5.944	3.4%	1.58 [-10.07, 13.23]	2000	_
Furuta 2002	6.4	0.6014	17.6%	6.40 [5.22, 7.58]	2002	
Lu 2002	-9.6	11.026	1.1%	-9.60 [-31.21, 12.01]	2002	
Scharnagl 2004	20	9.885	1.4%	20.00 [0.63, 39.37]	2004	——
Kanbay 2005	2.5	7.912	2.1%	2.50 [-13.01, 18.01]	2005	<u> </u>
Kamada 2005	48.8	27.5796	0.2%	48.80 [-5.26, 102.86]	2005	+
Pellicano 2009	-3	3.4299	7.4%	-3.00 [-9.72, 3.72]	2009	
Gen 2010	-30	13.204	0.8%	-30.00 [-55.88, -4.12]	2010	
Kebapcilar 2010	12.4	10.602	1.2%	12.40 [-8.38, 33.18]	2010	
Jamali 2013	-54.9	16.434	0.5%	-54.90 [-87.11, -22.69]	2013	
Ando 2013	3.3	0.497	17.9%	3.30 [2.33, 4.27]	2013	-
Mirmiran 2014	23	27.0414	0.2%	23.00 [-30.00, 76.00]	2014	
Adachi 2018	1.2	0.8074	17.0%	1.20 [-0.38, 2.78]	2018	•
Liou 2019	-15.66	4.347	5.4%	-15.66 [-24.18, -7.14]	2019	
lwai 2019	5.4	6.044	3.3%	5.40 [-6.45, 17.25]	2019	+
Cornejo-Pareja 2019	2.4	0.531	17.8%	2.40 [1.36, 3.44]	2019	•
Huang 2019	-7.15	7.6429	2.2%	-7.15 [-22.13, 7.83]	2019	
Total (95% CI)			100.0%	1.33 [-1.04, 3.70]		•
Heterogeneity: Tau ² = 7.	.91; Chi² = 87.84, d	f=17 (P ≺	0.00001)	; I² = 81%		
Test for overall effect: Z	= 1.10 (P = 0.27)					Favours [Before] Favours [After]
						· arearo [pointe] · arearo [riter]





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

				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% CI	Year	IV, Random, 95% Cl
De Luis 1999	-10.2	8.309	0.5%	-10.20 [-26.49, 6.09]	1999	
Schweeger 2000	1.33	2.4949	4.6%	1.33 [-3.56, 6.22]	2000	
Lu 2002	5.3	7.025	0.8%	5.30 [-8.47, 19.07]	2002	<u> </u>
Scharnagi 2004	6	7.126	0.7%	6.00 [-7.97, 19.97]	2004	
Kanbay 2005	-1.1	6.382	0.9%	-1.10 [-13.61, 11.41]	2005	
Zhang 2006	-0.4	0.3795	16.0%	-0.40 [-1.14, 0.34]	2006	4
Pellicano 2009	-3	2.1853	5.5%	-3.00 [-7.28, 1.28]	2009	
Kebapcilar 2010	-7.2	8.305	0.5%	-7.20 [-23.48, 9.08]	2010	
Gen 2010	-15	2.188	5.5%	-15.00 [-19.29, -10.71]	2010	
Jamali 2013	-4.7	5.007	1.4%	-4.70 [-14.51, 5.11]	2013	
Ando 2013	0.3	0.183	16.7%	0.30 [-0.06, 0.66]	2013	•
Mirmiran 2014	4	8.345	0.5%	4.00 [-12.36, 20.36]	2014	
Adachi 2018	-0.9	0.2056	16.7%	-0.90 [-1.30, -0.50]	2018	
Liou 2019	2.17	1.3521	9.5%	2.17 [-0.48, 4.82]	2019	+
lwai 2019	-2.2	3.119	3.2%	-2.20 [-8.31, 3.91]	2019	
Cornejo-Pareja 2019	2.4	0.531	15.1%	2.40 [1.36, 3.44]	2019	-
Huang 2019	-17.14	4.4664	1.8%	-17.14 [-25.89, -8.39]	2019	
Total (95% CI)			100.0%	-0.97 [-2.19, 0.26]		•
Heterogeneity: Tau ^z = 2.		df=16 (F	° < 0.0000)1); I² = 86%		-20 -10 0 10 20
Test for overall effect: Z =	= 1.54 (P = 0.12)					Favours [Before] Favours [After]
						· arears [acress] · arears [area]

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





				Mean Difference		Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Random, 95% Cl	Year	IV, Random, 95% Cl
De Luis 1999	-4.4	10.5698	1.4%	-4.40 [-25.12, 16.32]	1999	
Schweeger 2000	3.39	2.6888	8.3%	3.39 [-1.88, 8.66]	2000	
Lu 2002	-0.5	8.6316	2.0%	-0.50 [-17.42, 16.42]	2002	
Azuma 2002	3.3	20.4929	0.4%	3.30 [-36.87, 43.47]	2002	
Furuta 2002	6.3	0.1972	12.5%	6.30 [5.91, 6.69]	2002	
Scharnagi 2004	21	7.657	2.4%	21.00 [5.99, 36.01]	2004	—
Kanbay 2005	-3	6.445	3.2%	-3.00 [-15.63, 9.63]	2005	
Kamada 2005	17.1	7.2217	2.7%	17.10 [2.95, 31.25]	2005	
Zhang 2006	-1.5	0.3305	12.5%	-1.50 [-2.15, -0.85]	2006	-
Kebapcilar 2010	-7.4	9.059	1.8%	-7.40 [-25.16, 10.36]	2010	
Gen 2010	-24	4.94	4.6%	-24.00 [-33.68, -14.32]	2010	
Ando 2013	2.4	0.2128	12.5%	2.40 [1.98, 2.82]	2013	•
Jamali 2013	-13.6	5.497	4.0%	-13.60 [-24.37, -2.83]	2013	
Mirmiran 2014	8	11.035	1.3%	8.00 [-13.63, 29.63]	2014	
Liou 2019	1.61	1.5153	10.8%	1.61 [-1.36, 4.58]	2019	+
lwai 2019	-0.9	3.507	6.7%	-0.90 [-7.77, 5.97]	2019	-
Huang 2019	-12.4	8.7394	1.9%	-12.40 [-29.53, 4.73]	2019	
Cornejo-Pareja 2019	-2.9	1.431	11.0%	-2.90 [-5.70, -0.10]	2019	*
Total (95% CI)			100.0%	-0.12 [-2.72, 2.48]		•
Heterogeneity: Tau ² = 1	3.98; Chi ^z = 536.20	, df = 17 (P	< 0.0000	l1); I² = 97%		
Test for overall effect: Z	= 0.09 (P = 0.93)					Favours [Before] Favours [After]

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