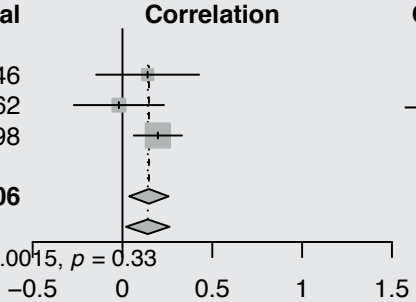
A

Study	Total	COR	95%–CI	Weight (fixed)	Weight (random)
Tubic	46	0.14	[–0.15; 0.43]	14.6%	16.7%
Tubic	62	–0.02	[–0.27; 0.23]	19.0%	21.4%
Giudici	198	0.20	[0.06; 0.33]	66.4%	61.9%
Fixed effect model	**306**	**0.15**	**[0.04; 0.26]**	**100.0%**	**––**
Random effects model		**0.14**	**[0.02; 0.26]**	**––**	**100.0%**

Heterogeneity: I^2 = 11%, τ^2 = 0.0015, p = 0.33

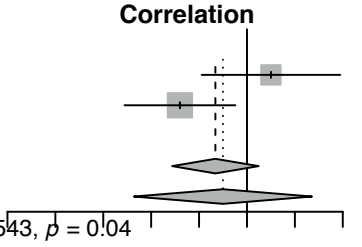


Correlation tOC and FPG in HS

B

Study	Total	COR	95%–CI	Weight (fixed)	Weight (random)
Tubic	46	0.10	[–0.19; 0.39]	39.0%	47.3%
Tubic	62	–0.28	[–0.51; –0.05]	61.0%	52.7%
Fixed effect model	**108**	**–0.13**	**[–0.31; 0.05]**	**100.0%**	**––**
Random effects model		**–0.10**	**[–0.47; 0.27]**	**––**	**100.0%**

Heterogeneity: I^2 = 75%, τ^2 = 0.0543, p = 0.04

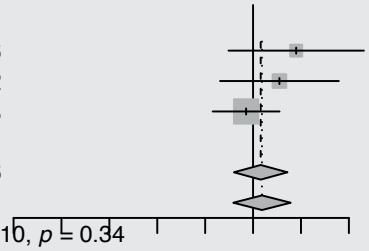


Correlation tOC and HbA1c in HS

C

Study	Total	COR	95%–CI	Weight (fixed)	Weight (random)
Tubic	46	0.18	[–0.10; 0.46]	15.6%	17.1%
Tubic	62	0.11	[–0.14; 0.36]	20.3%	21.9%
Giudici	198	–0.03	[–0.17; 0.11]	64.1%	61.1%
Fixed effect model	**306**	**0.03**	**[–0.08; 0.14]**	**100.0%**	**––**
Random effects model		**0.04**	**[–0.08; 0.16]**	**––**	**100.0%**

Heterogeneity: I^2 = 8%, τ^2 = 0.0010, p = 0.34

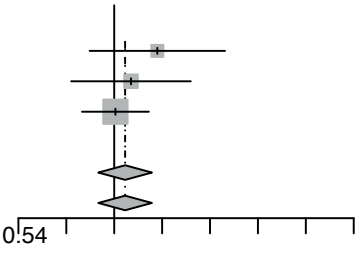


Correlation tOC and insulin in HS

D

Study	Total	COR	95%–CI	Weight (fixed)	Weight (random)
Tubic	46	0.18	[–0.10; 0.46]	15.7%	15.7%
Tubic	62	0.07	[–0.18; 0.32]	20.1%	20.1%
Giudici	198	0.00	[–0.13; 0.14]	64.2%	64.2%
Fixed effect model	**306**	**0.05**	**[–0.07; 0.16]**	**100.0%**	**––**
Random effects model		**0.05**	**[–0.07; 0.16]**	**––**	**100.0%**

Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.54

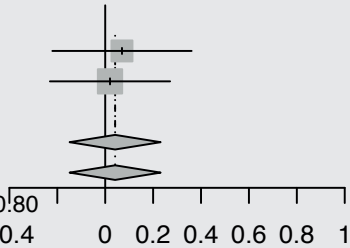


Correlation tOC and HOMA–IR in HS

E

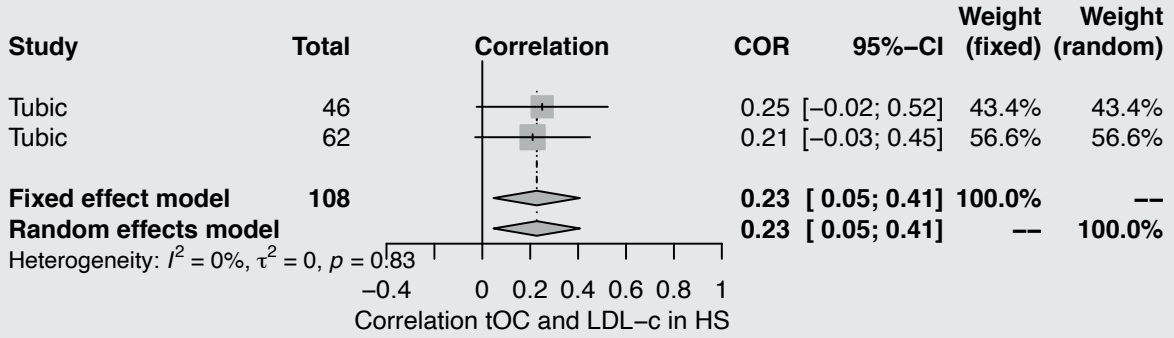
Study	Total	COR	95%–CI	Weight (fixed)	Weight (random)
Tubic	46	0.07	[–0.22; 0.36]	42.7%	42.7%
Tubic	62	0.02	[–0.23; 0.27]	57.3%	57.3%
Fixed effect model	**108**	**0.04**	**[–0.15; 0.23]**	**100.0%**	**––**
Random effects model		**0.04**	**[–0.15; 0.23]**	**––**	**100.0%**

Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.80

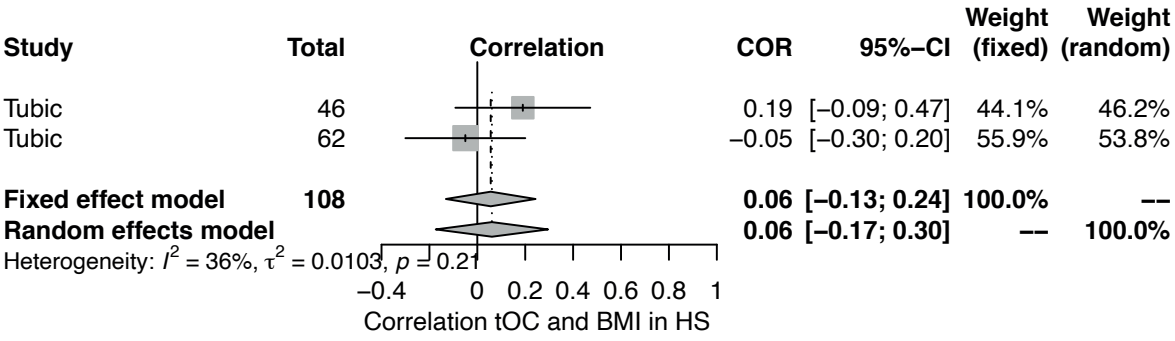


Correlation tOC and HDL–c in HS

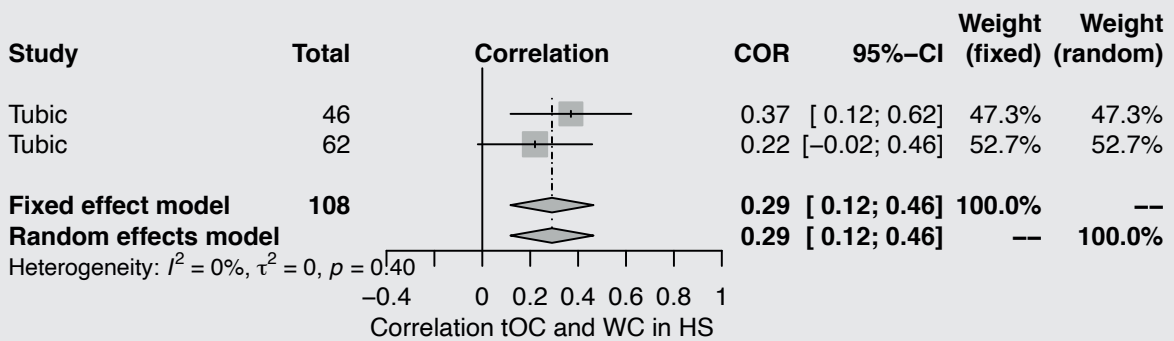
F


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Tubic 46 0.25 [–0.02; 0.52] 43.4% 43.4%
Tubic 62 0.21 [–0.03; 0.45] 56.6% 56.6%
Fixed effect model 108 0.23 [0.05; 0.41] 100.0% ––
Random effects model 0.23 [0.05; 0.41] –– 100.0%
Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.83
–0.4 0 0.2 0.4 0.6 0.8 1
Correlation tOC and LDL–c in HS

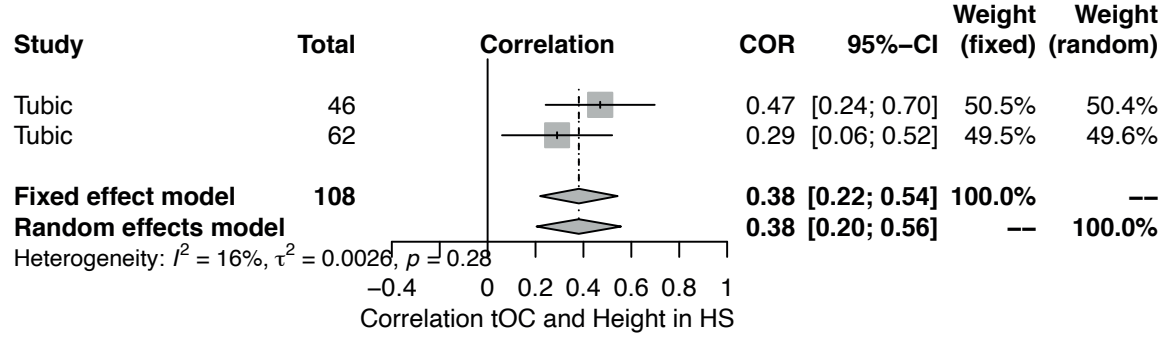
G


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Tubic 46 0.19 [–0.09; 0.47] 44.1% 46.2%
Tubic 62 –0.05 [–0.30; 0.20] 55.9% 53.8%
Fixed effect model 108 0.06 [–0.13; 0.24] 100.0% ––
Random effects model 0.06 [–0.17; 0.30] –– 100.0%
Heterogeneity: I^2 = 36%, τ^2 = 0.0103, p = 0.21
–0.4 0 0.2 0.4 0.6 0.8 1
Correlation tOC and BMI in HS

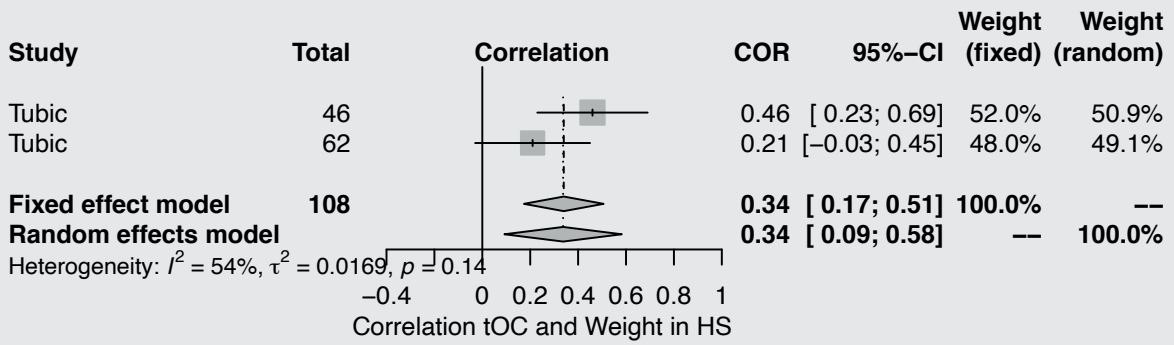
H


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Tubic 46 0.37 [0.12; 0.62] 47.3% 47.3%
Tubic 62 0.22 [–0.02; 0.46] 52.7% 52.7%
Fixed effect model 108 0.29 [0.12; 0.46] 100.0% ––
Random effects model 0.29 [0.12; 0.46] –– 100.0%
Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.40
–0.4 0 0.2 0.4 0.6 0.8 1
Correlation tOC and WC in HS

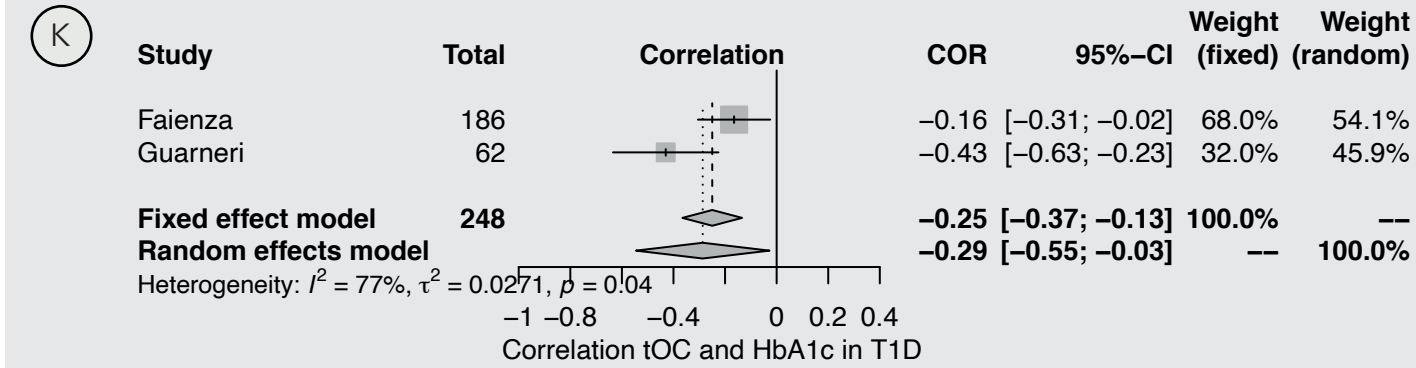
I


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Tubic 46 0.47 [0.24; 0.70] 50.5% 50.4%
Tubic 62 0.29 [0.06; 0.52] 49.5% 49.6%
Fixed effect model 108 0.38 [0.22; 0.54] 100.0% ––
Random effects model 0.38 [0.20; 0.56] –– 100.0%
Heterogeneity: I^2 = 16%, τ^2 = 0.0026, p = 0.28
–0.4 0 0.2 0.4 0.6 0.8 1
Correlation tOC and Height in HS

J


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Tubic 46 0.46 [0.23; 0.69] 52.0% 50.9%
Tubic 62 0.21 [–0.03; 0.45] 48.0% 49.1%
Fixed effect model 108 0.34 [0.17; 0.51] 100.0% ––
Random effects model 0.34 [0.09; 0.58] –– 100.0%
Heterogeneity: I^2 = 54%, τ^2 = 0.0169, p = 0.14
–0.4 0 0.2 0.4 0.6 0.8 1
Correlation tOC and Weight in HS

K


Study
Total
Correlation
COR
95%–CI
Weight (fixed)
Weight (random)
Faienza 186 –0.16 [–0.31; –0.02] 68.0% 54.1%
Guarneri 62 –0.43 [–0.63; –0.23] 32.0% 45.9%
Fixed effect model 248 –0.25 [–0.37; –0.13] 100.0% ––
Random effects model –0.29 [–0.55; –0.03] –– 100.0%
Heterogeneity: I^2 = 77%, τ^2 = 0.0271, p = 0.04
–1 –0.8 –0.4 0 0.2 0.4
Correlation tOC and HbA1c in T1D