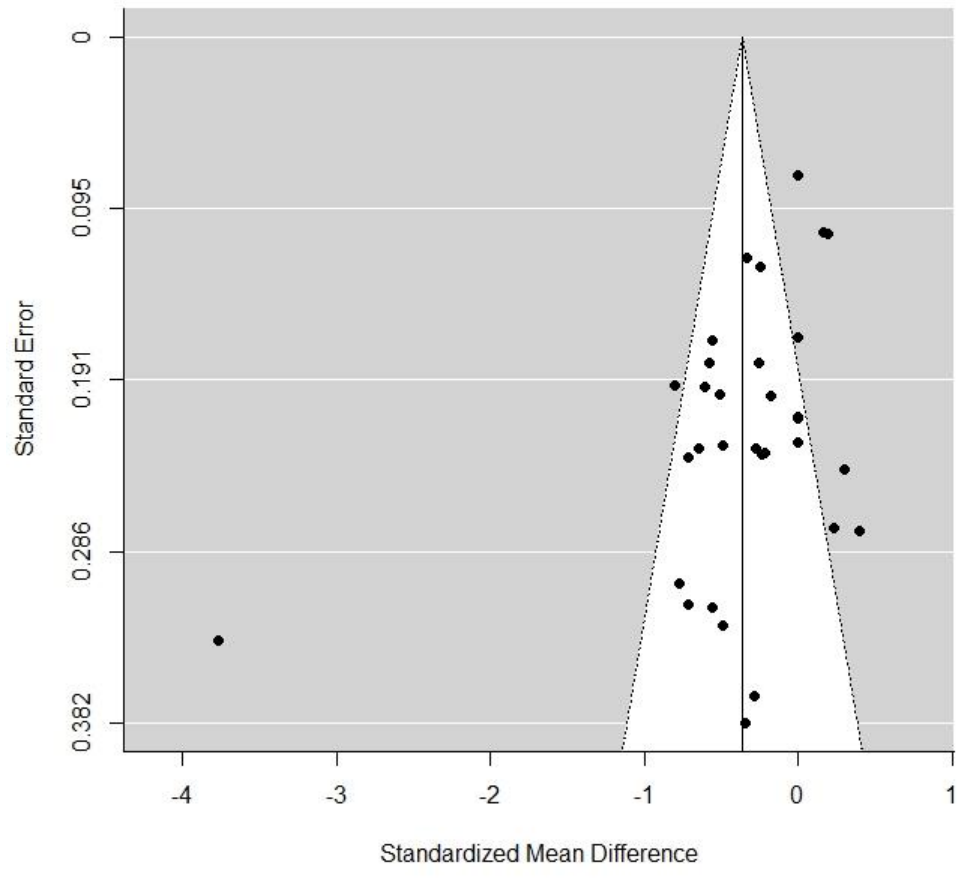


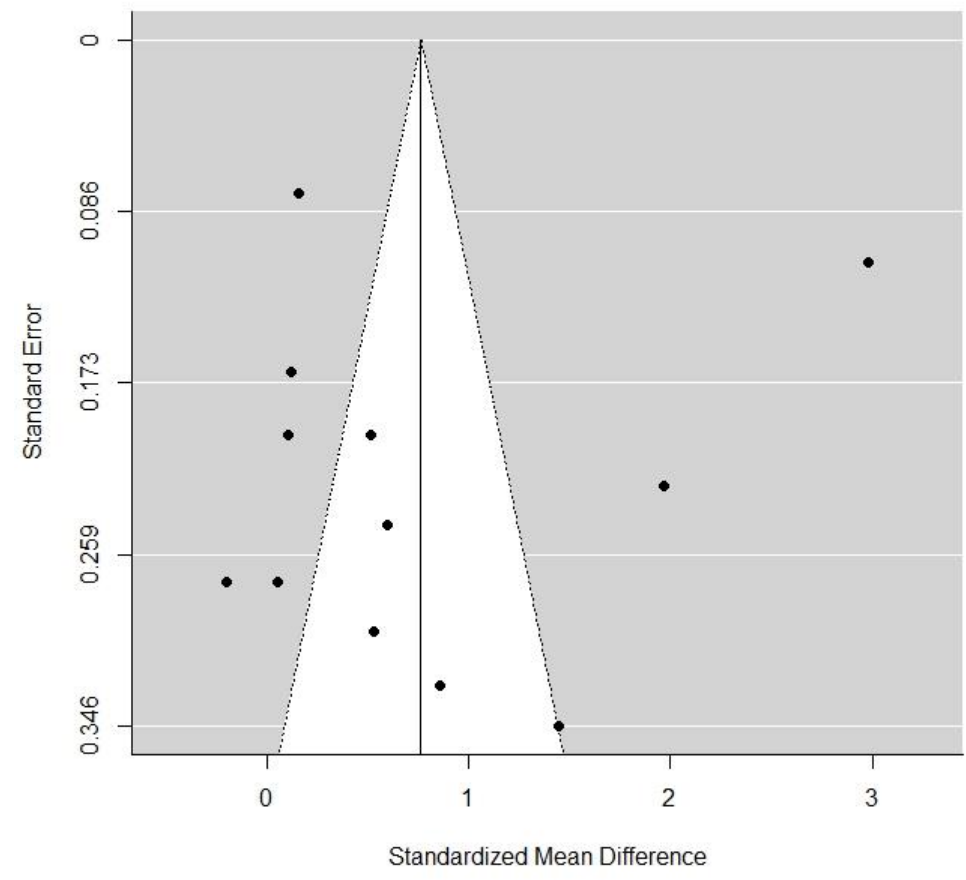
Supplementary Figure S1

A. Albumin



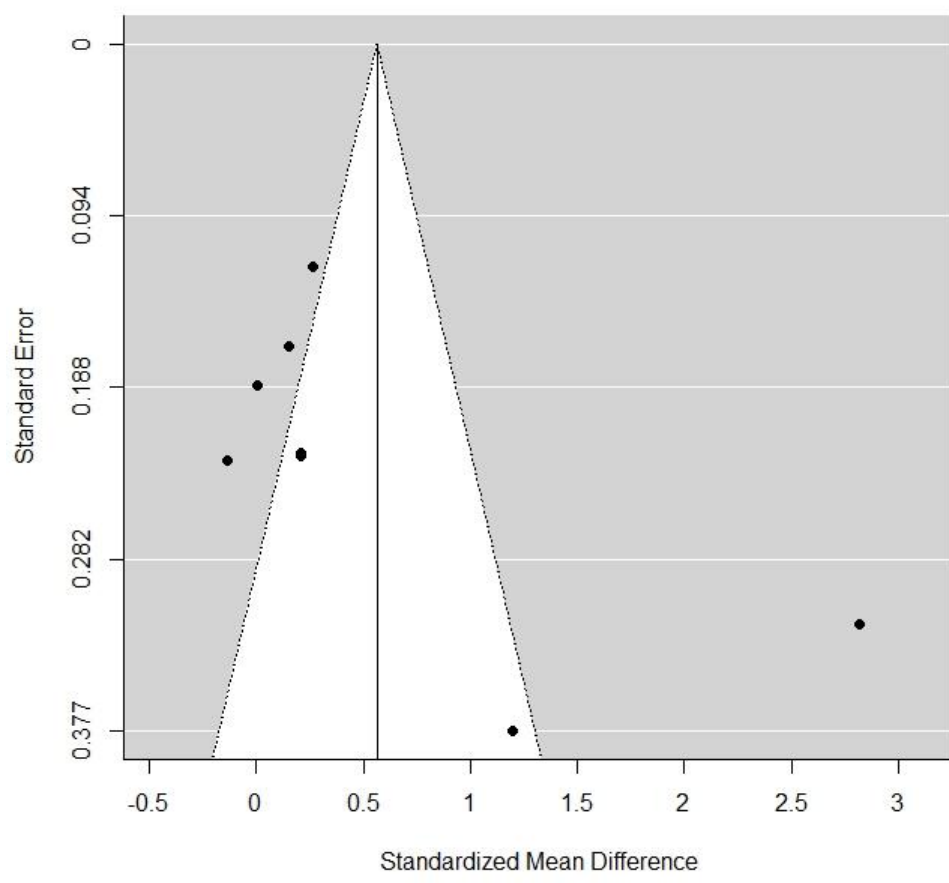
Test of funnel plot asymmetry $P=0.34$

B. CRP



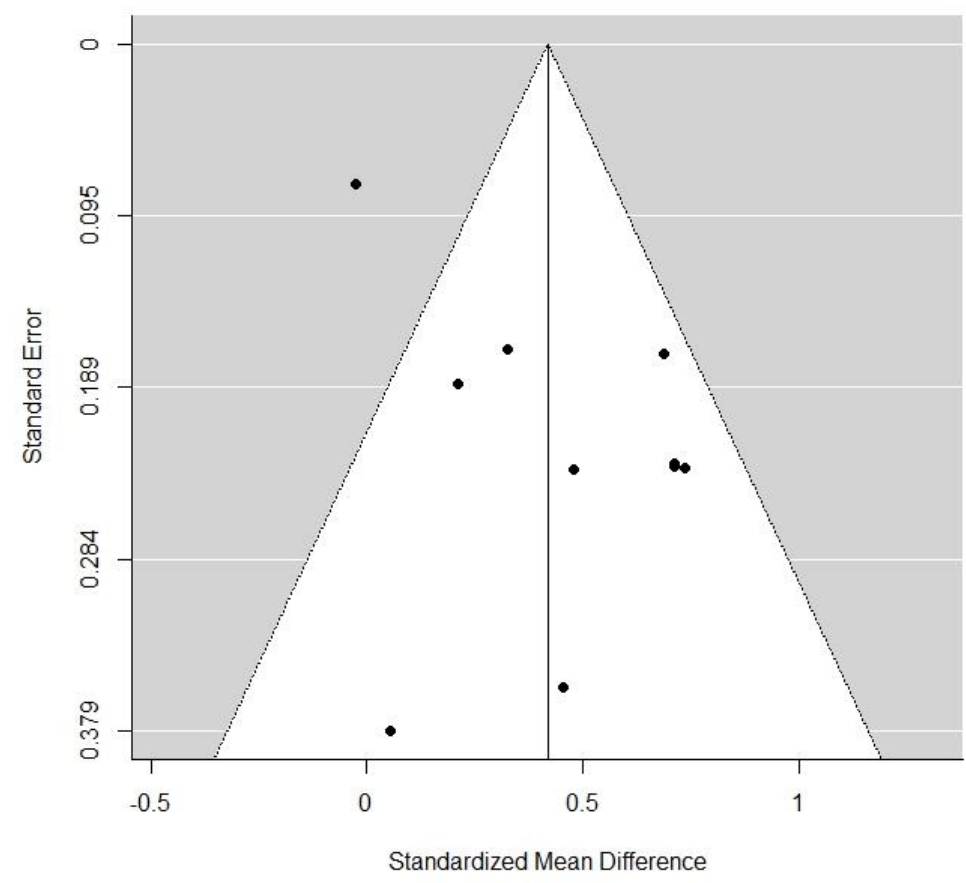
Test of funnel plot asymmetry $P=0.25$

C. hsCRP



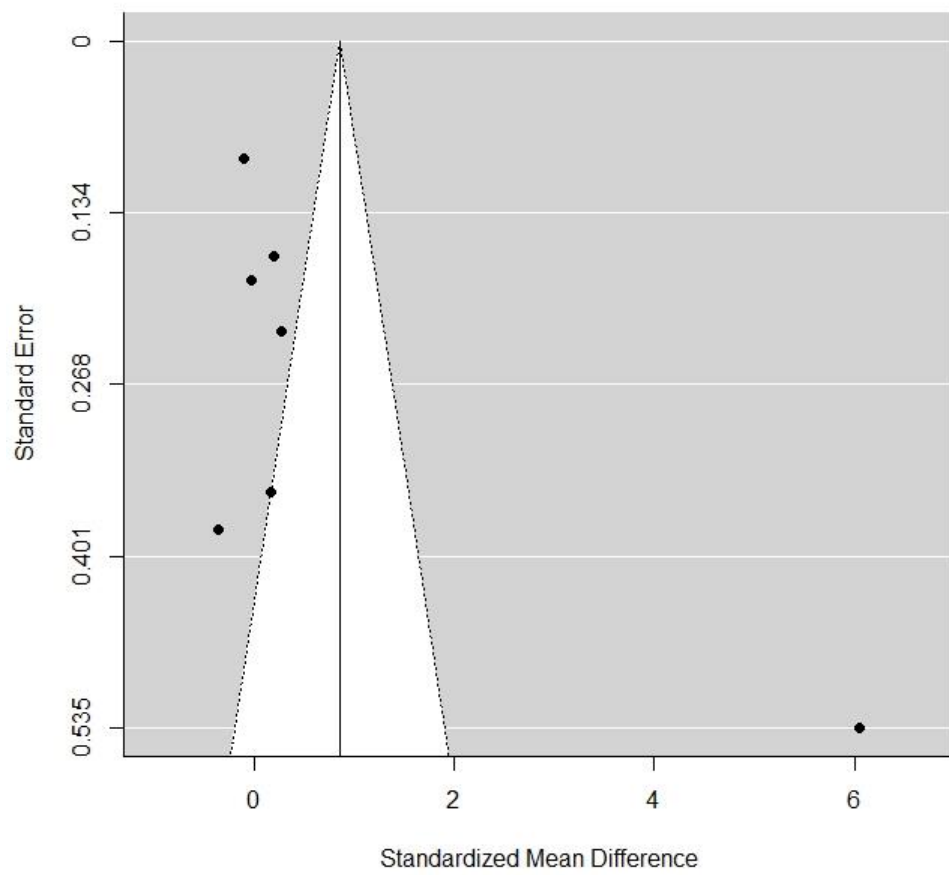
Test of funnel plot asymmetry $P=0.28$

D. IL-6



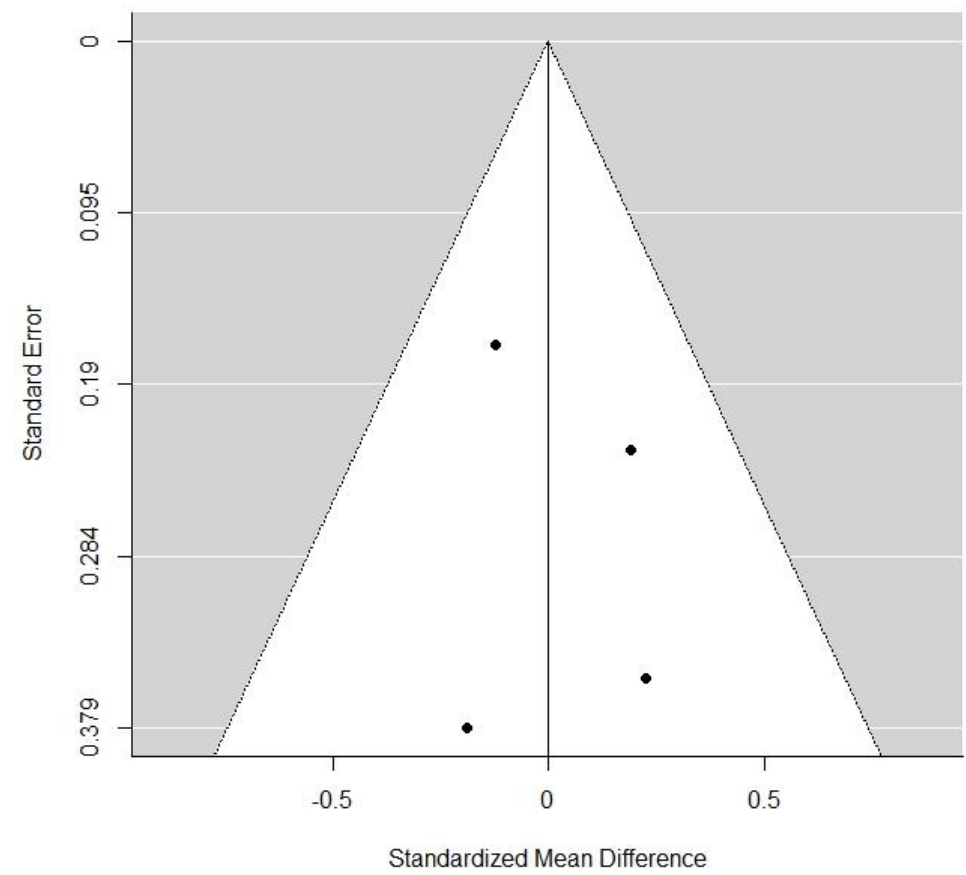
Test of funnel plot asymmetry $P=0.99$

E. TNF- α



Test of funnel plot asymmetry $P=0.38$

F. IL-1



Test of funnel plot asymmetry $P=0.99$

Supplementary Table S1. Underlying data used for comparisons of inflammatory biomarkers in CKD or ESKD samples with vs. without depression, presented as mean (SD)

Study	Albumin, g/dL		CRP, mg/L		hsCRP, mg/dL		IL-6, pg/mL		TNF- α , pg/mL		IL-1, pg/mL	
	Depression	No depression	Depression	No depression	Depression	No depression	Depression	No depression	Depression	No depression	Depression	No depression
Dogan <i>et al.</i> ²⁶	3.5 (0.6)	3.9 (0.5)	107 (46)	45 (38)								
Kalender <i>et al.</i> ²⁷	3.48 (0.56)	3.75 (0.51)	15.2 (27.2)	6.2 (12.9)								
Micozkadioglu <i>et al.</i> ²⁸	3.88 (0.42)	3.95 (0.34)	11.82 (18.85)	10.00 (14.90)								
Boulware <i>et al.</i> ²⁹	3.6 (0.4)	3.6 (0.4)	94 (132)	76 (108)			7.1 (9.3)	7.4 (11.8)				
Kalender <i>et al.</i> ³⁰					1.19 (1.08)	0.44 (0.34)	189.75 (76.48)	165.15 (42.39)	67.38 (71.97)	60.80 (11.44)	50.63 (12.91)	48.09 (10.28)
Simic Ogrizovic <i>et al.</i> ⁹	3.54 (0.5)	3.79 (0.36)										
Hsu <i>et al.</i> ³¹	3.6 (0.5)	3.9 (0.3)	15.2 (23.5)	7.0 (7.9)								
Montinaro <i>et al.</i> ³²	3.45 (0.32)	3.56 (0.29)										
Bossola <i>et al.</i> ³³	4.0 (0.2)	4.1 (0.2)			6.8 (4.8)	5.9 (3.7)	4.2 (3.5)	2.1 (2.1)				
Ko <i>et al.</i> ³⁴	3.6 (0.5)	3.9 (0.4)			6.7 (1.1)	3.7 (1.0)			3.7 (0.6)	0.9 (0.2)		
Gyاملani <i>et al.</i> ³⁵	3.7 (0.5)	3.6 (0.4)	0.52 (0.96)	0.49 (0.41)								
Li <i>et al.</i> ³⁶	3.663 (0.424)	3.964 (0.511)	21.89 (19.55)	2.01 (1.89)								
Hung <i>et al.</i> ³⁷	3.7 (0.3)	3.9 (0.4)			0.74 (0.96)	0.61 (0.73)	8.00 (1.55)	6.89 (1.65)				
Chilcot <i>et al.</i> ³⁸	3.46 (0.62)	3.60 (0.51)										
Bornivelli <i>et al.</i> ³⁹	3.73 (0.38)	3.90 (0.24)	18.2 (17.3)	8.3 (6)								
Armaly <i>et al.</i> ⁴⁰	3.69 (0.3)	3.52 (0.7)	76.3 (95.7)	32.1 (49.8)								
Kim <i>et al.</i> ⁴¹	3.7 (0.3)	3.8 (0.4)										
Cilan <i>et al.</i> ⁴²							143.78 (85.84)	139.09 (83.25)	109.22 (260.15)	214.94 (303.69)	135.89 (171.46)	177.00 (222.79)
Wang <i>et al.</i> ⁴³	3.8 (0.4)	3.8 (0.4)	10.3 (25.6)	8.3 (13.3)			4.2 (4.9)	3.1 (2.7)	20.8 (93)	9.5 (40)	1.3 (1.1)	1.4 (0.7)
Taraz <i>et al.</i> ⁴⁴	4.5 (0.7)	4.5 (0.6)			5.26 (2.52)	4.78 (1.87)	7.3 (2.7)	5.3 (2.9)	10.9 (4.6)	9.6 (4.7)	11.3 (5.6)	10.3 (4.4)
Su <i>et al.</i> ⁴⁵	3.8 (0.3)	3.9 (0.3)			0.91 (1.38)	0.58 (1.14)						

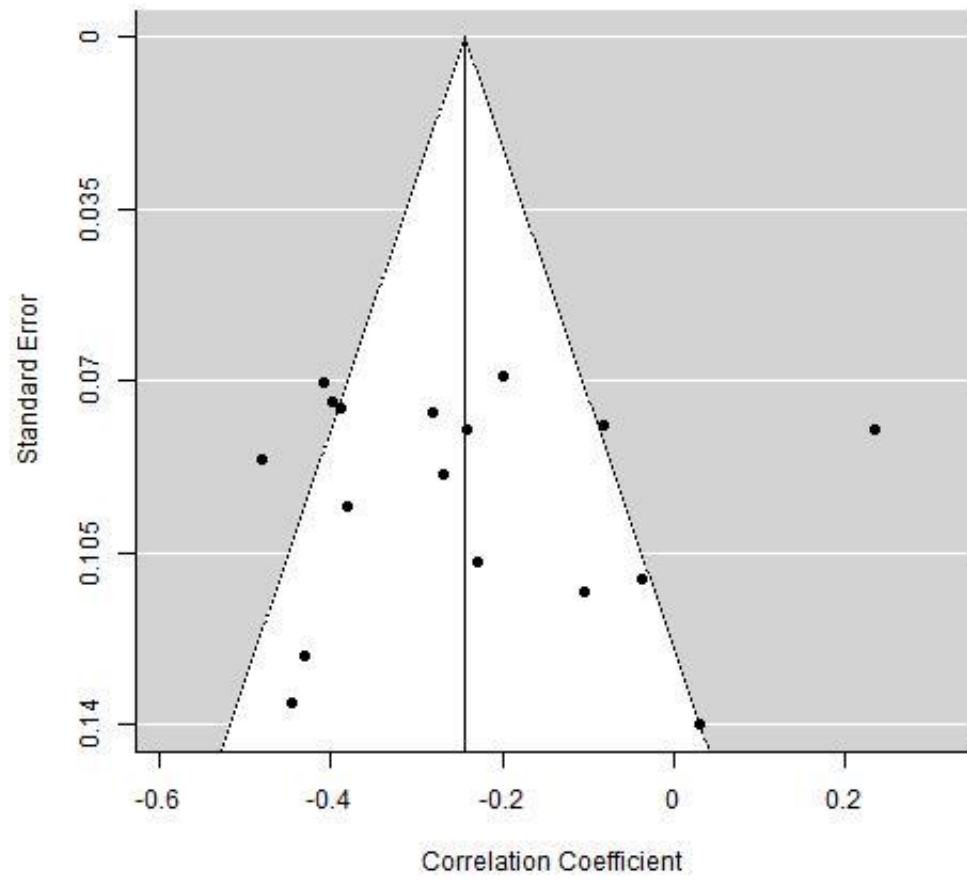
Cilan <i>et al.</i> ⁴⁶	3.40 (0.60)	3.55 (0.48)						
Preljevic <i>et al.</i> ⁴⁷	3.79 (0.58)	3.89 (0.41)						
Nowak <i>et al.</i> ⁴⁸			14.3 (1.3)	11.1 (0.9)				
Knuth <i>et al.</i> ⁴⁹	3.8 (0.3)	3.9 (0.5)			1.9 (0.51)	1.7 (0.3)		
Fan <i>et al.</i> ⁵⁰	3.7 (0.4)	3.8 (0.4)						
Loosman <i>et al.</i> ⁵¹	3.99 (0.51)	3.99 (0.34)						
Bossola <i>et al.</i> ⁵²	3.9 (0.3)	4.1 (0.2)	10.0 (9.9)	11.6 (16.5)	4.9 (3.1)	2.8 (1.8)		
Ekramzadeh <i>et al.</i> ⁵³	4.27 (0.06)	4.52 (0.08)						
Gok Oguz <i>et al.</i> ⁵⁴	3.66 (0.45)	3.85 (0.33)						
Barros <i>et al.</i> ⁵⁵	4.0 (0.4)	4.0 (0.4)						
Haverkamp <i>et al.</i> ⁵⁶							20.6 (9)	21.9 (14)
Jong <i>et al.</i> ⁵⁷	3.7 (0.3)	4.0 (0.4)	1.34 (1.30)	1.33 (1.28)	3.0 (0.8)	2.8 (1.0)	0.82 (0.96)	0.84 (0.96)
Chilcot <i>et al.</i> ⁵⁸	3.93 (0.43)	3.85 (0.42)						

Note: The units used to report inflammatory biomarkers varied by study but were converted to uniform units of measure to maintain consistency across studies for each biomarker.

Abbreviations: CRP, C-reactive protein; hsCRP, high sensitivity C-reactive protein; IL, interleukin; TNF- α , tumor necrosis factor- α .

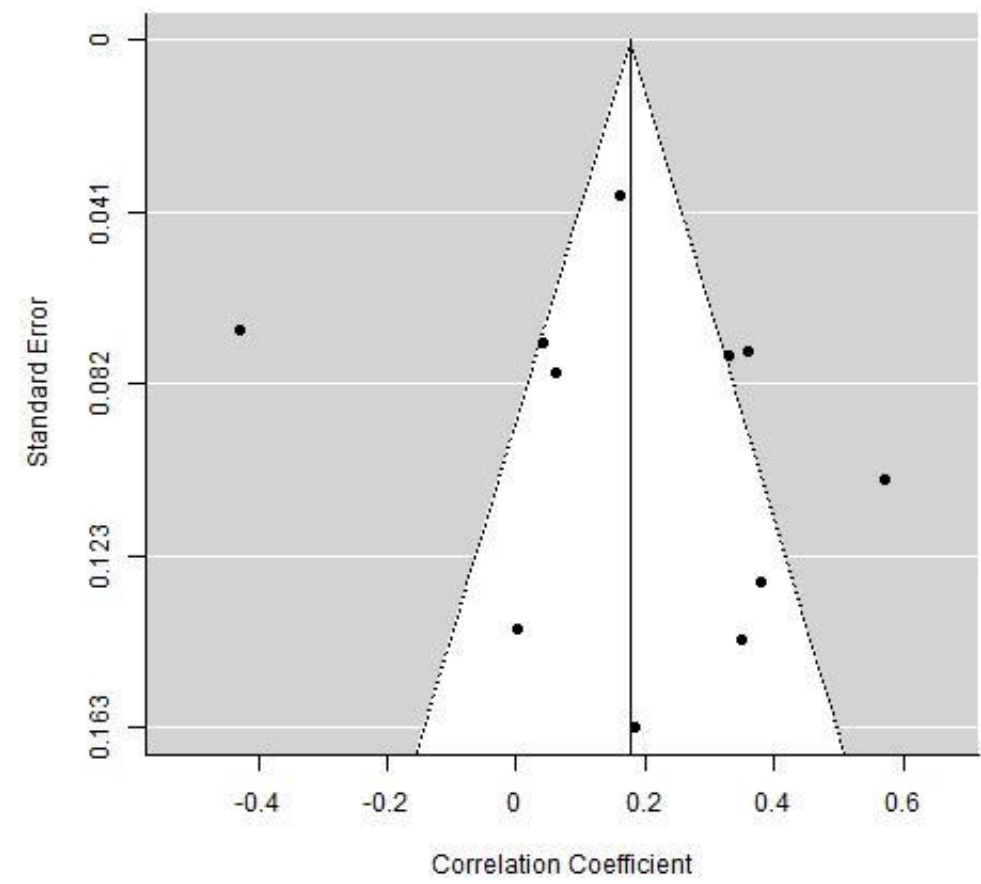
Supplementary Figure S2

A. Albumin



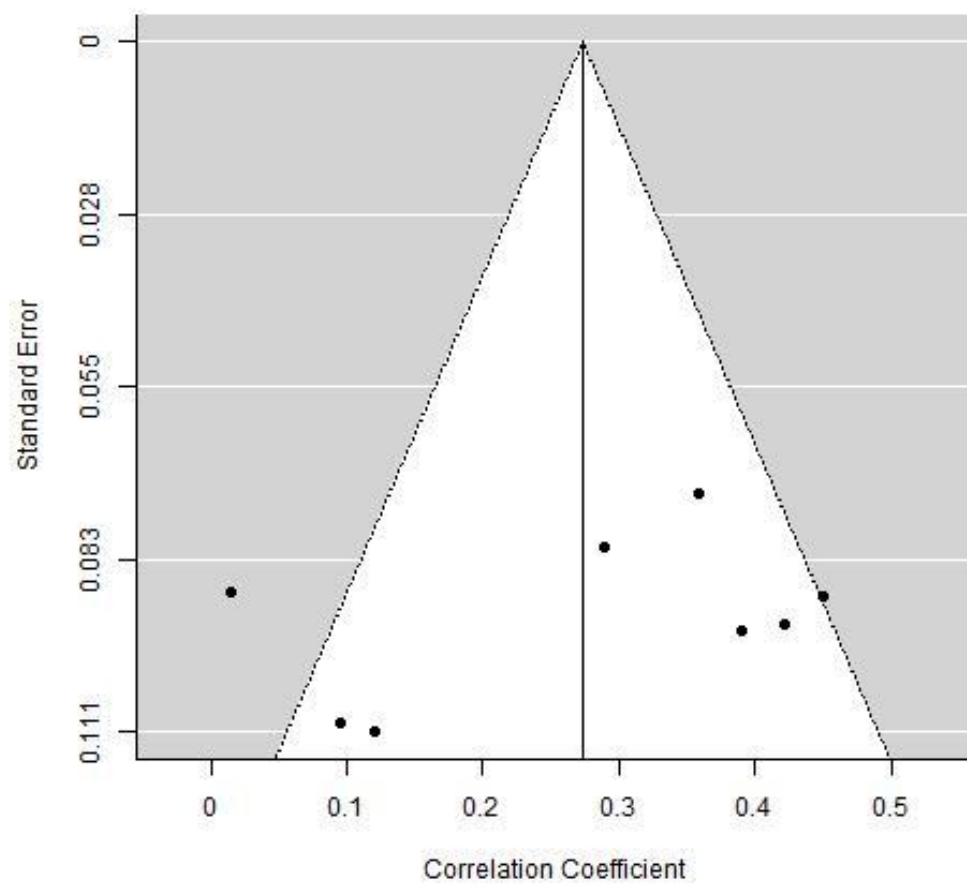
Test of funnel plot asymmetry $P=0.87$

B. CRP



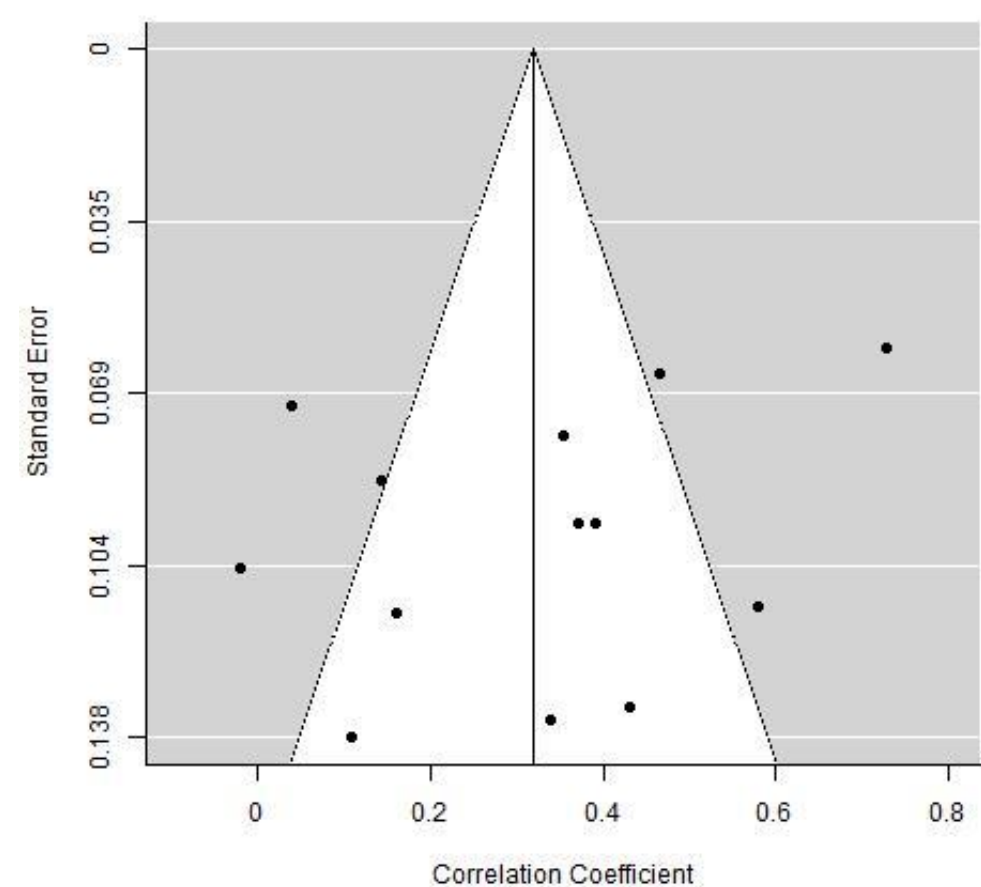
Test of funnel plot asymmetry $P=0.35$

C. hsCRP



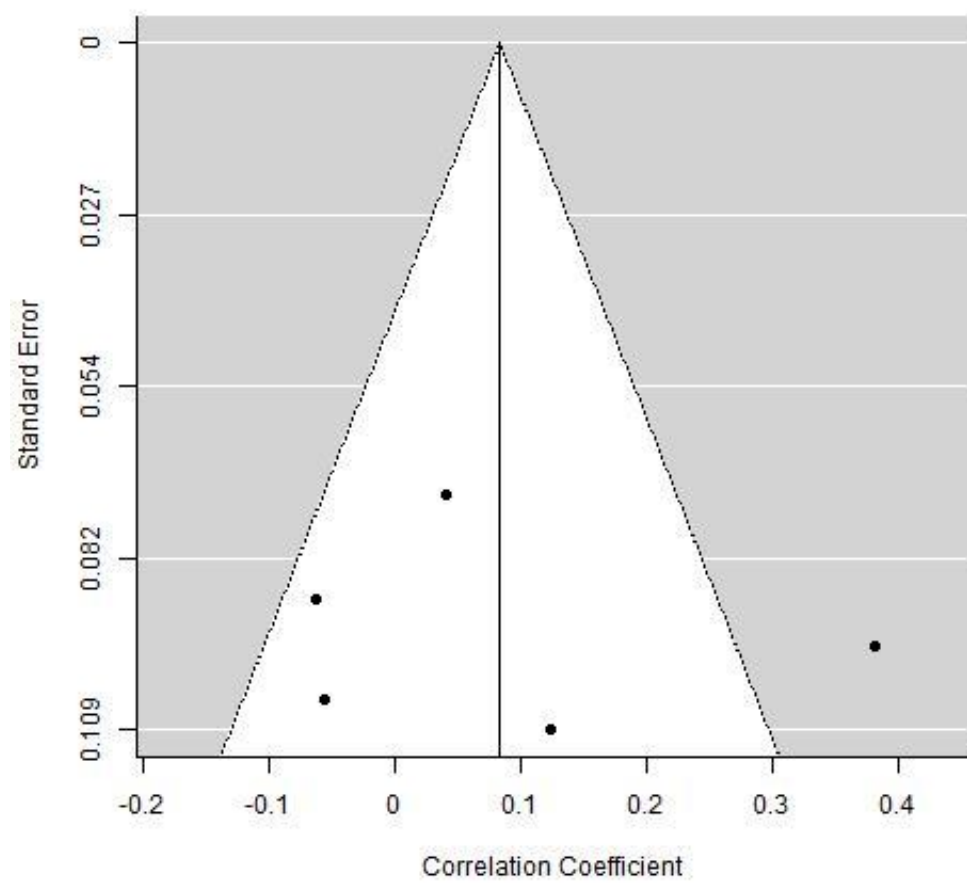
Test of funnel plot asymmetry $P=0.38$

D. IL-6



Test of funnel plot asymmetry $P=0.20$

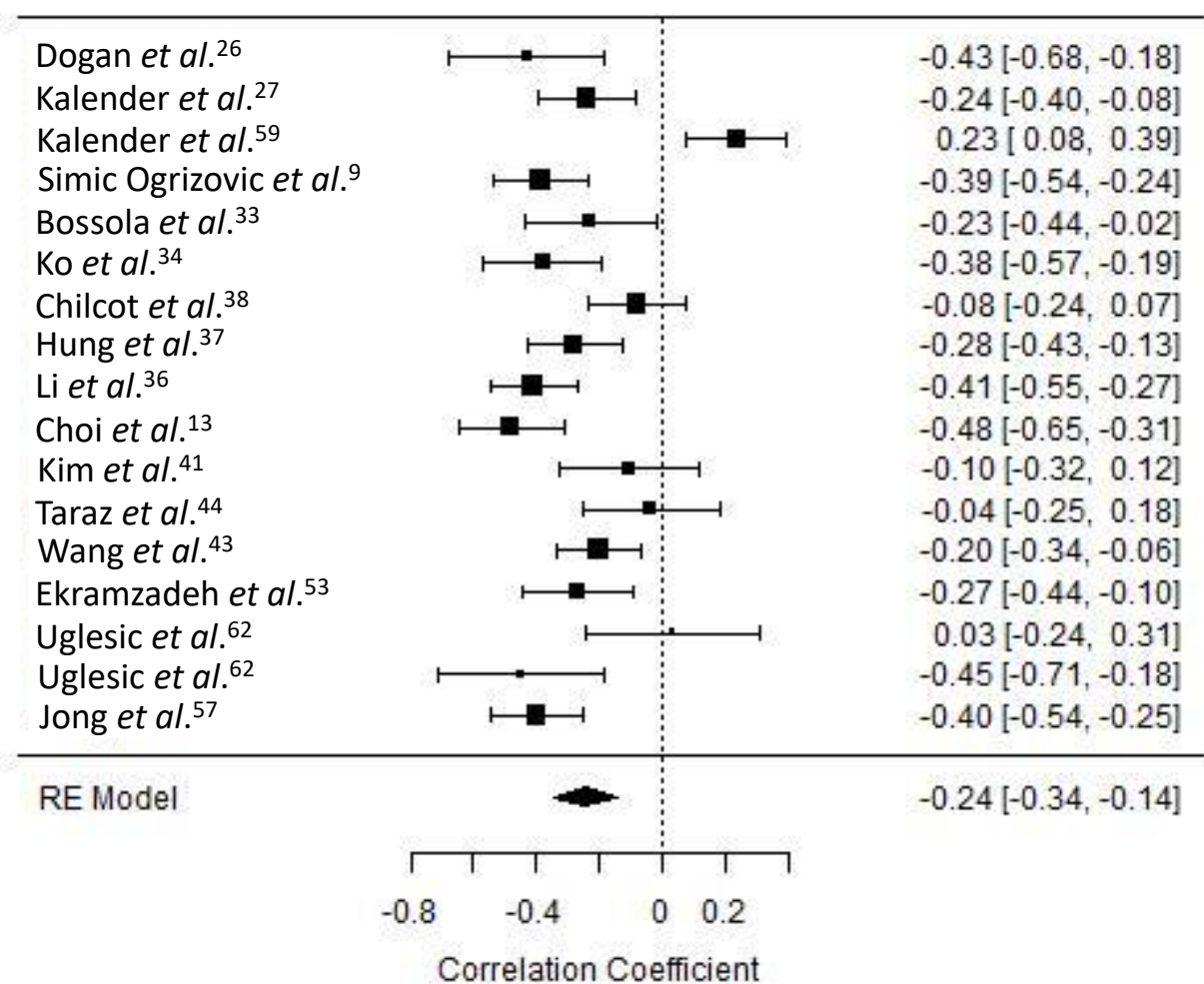
E. TNF- α



Test of funnel plot asymmetry $P=0.23$

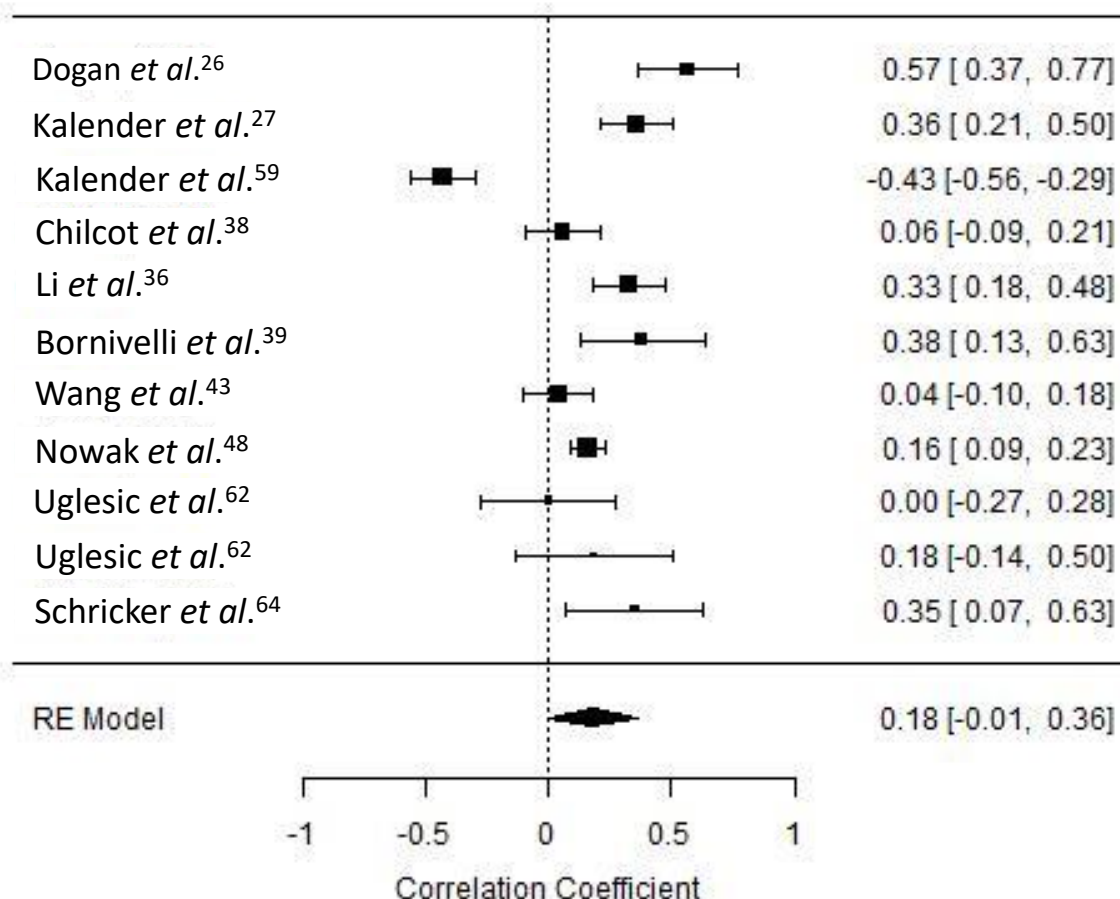
Supplementary Figure S3. Correlations of depressive symptoms, taken continuously, with **(A)** albumin, **(B)** CRP, **(C)** hsCRP, **(D)** IL-6, and **(E)** TNF- α .

A. Albumin



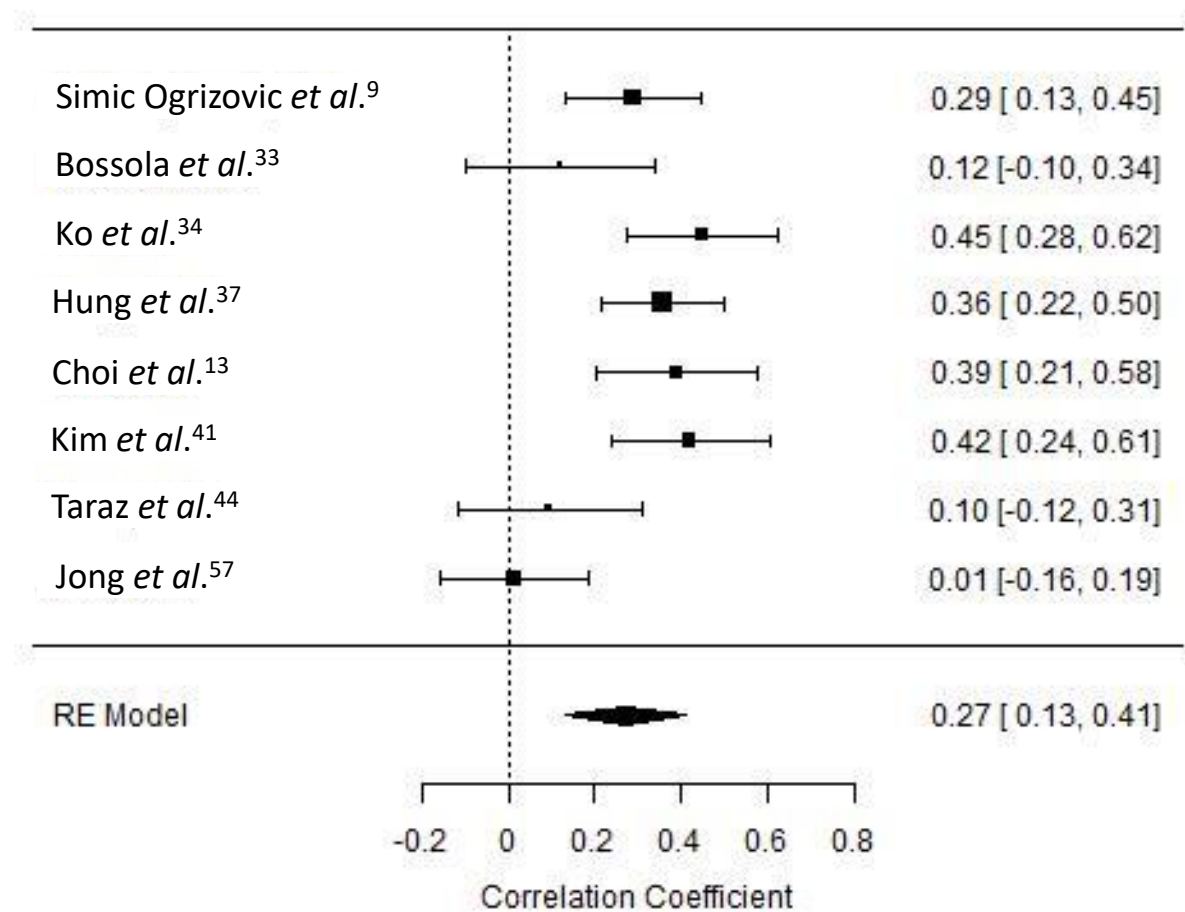
Heterogeneity: I^2 (95% CI) = 79.13 (61.7, 91.1)
 Publication bias: Test of funnel plot asymmetry $P=0.31$

B. CRP



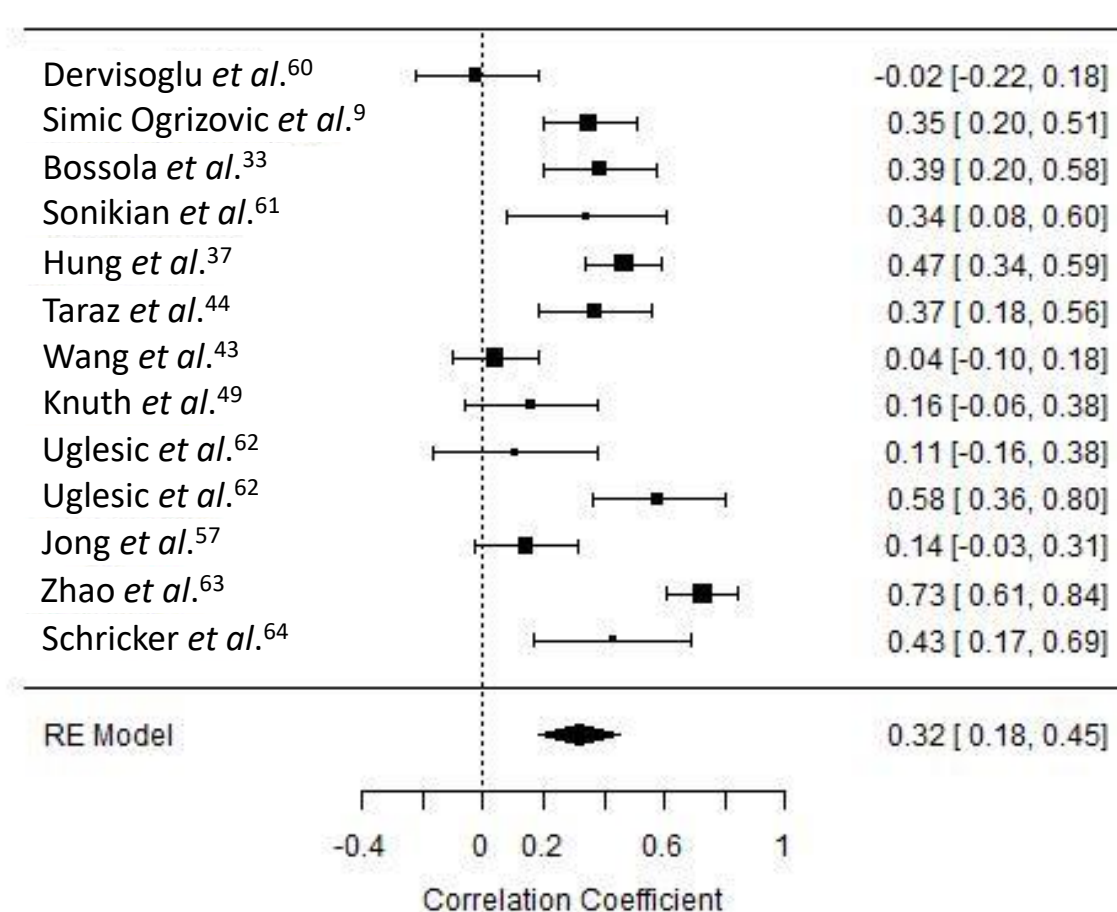
Heterogeneity: I^2 (95% CI) = 91.2 (81.0, 97.1)
 Publication bias: Test of funnel plot asymmetry $P=0.65$

C. hsCRP



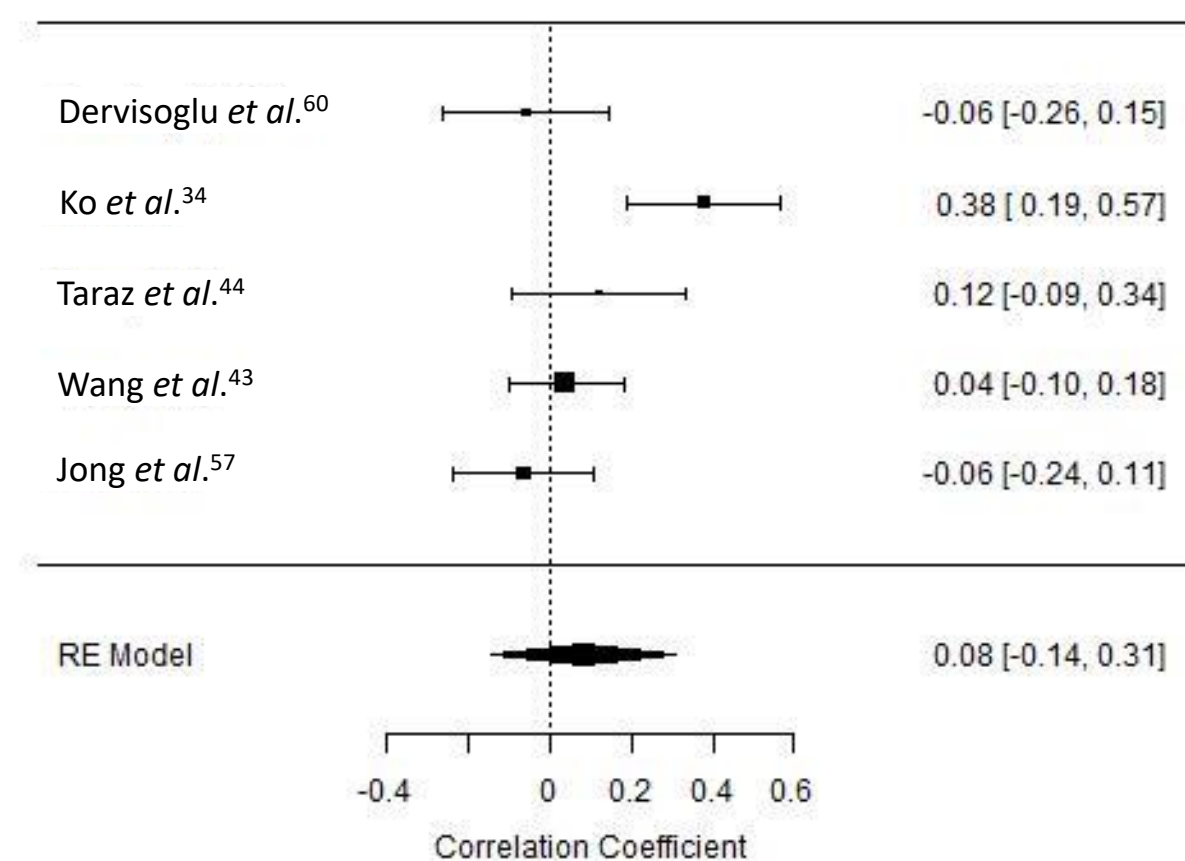
Heterogeneity: I^2 (95% CI) = 69.5 (29.4, 92.9)
 Publication bias: Test of funnel plot asymmetry $P=0.72$

D. IL-6



Heterogeneity: I^2 (95% CI) = 83.7 (67.3, 93.7)
 Publication bias: Test of funnel plot asymmetry $P=0.59$

E. TNF- α



Heterogeneity: I^2 (95% CI) = 73.7 (25.0, 96.9)
 Publication bias: Test of funnel plot asymmetry $P=0.82$

Supplementary Table S2. Underlying data used for correlations of depression severity with inflammatory biomarkers in CKD and ESKD patients, presented as Spearman or Pearson rho

	Albumin	CRP	hsCRP	IL-6	TNF- α
Dogan <i>et al.</i> ²⁶	-0.43	0.57			
Kalender <i>et al.</i> ²⁷	-0.241	0.358			
Kalender <i>et al.</i> ⁵⁹	0.234	-0.428			
Dervisoglu <i>et al.</i> ⁶⁰				-0.02	-0.055
Simic Ogrizovic <i>et al.</i> ⁹	-0.388		0.29	0.353	
Bossola <i>et al.</i> ³³	-0.23		0.12	0.39	
Ko <i>et al.</i> ³⁴	-0.38		0.45		0.38
Sonikian <i>et al.</i> ⁶¹				0.34	
Chilcot <i>et al.</i> ³⁸	-0.081	0.06			
Hung <i>et al.</i> ³⁷	-0.281		0.358	0.466	
Li <i>et al.</i> ³⁶	-0.409	0.33			
Choi <i>et al.</i> ¹³	-0.48		0.391		
Kim <i>et al.</i> ⁴¹	-0.104		0.422		
Taraz <i>et al.</i> ⁴⁴	-0.037		0.096	0.370	0.123
Bornivelli <i>et al.</i> ³⁹		0.38			
Wang <i>et al.</i> ⁴³	-0.20	0.04		0.04	0.04
Nowak <i>et al.</i> ⁴⁸		0.162			
Knuth <i>et al.</i> ⁴⁹				0.16	
Ekramzadeh <i>et al.</i> ⁵³	-0.27				
Uglešić <i>et al.</i> , ⁶² HD patients	0.031	0.003		0.109	
Uglešić <i>et al.</i> , ⁶² PD patients	-0.447	0.183		0.58	
Jong <i>et al.</i> ⁵⁷	-0.399		0.015	0.143	-0.063
Zhao <i>et al.</i> ⁶³				0.727	
Schricker <i>et al.</i> ⁶⁴		0.35		0.43	

Abbreviations: CRP, C-reactive protein; hsCRP, high sensitivity C-reactive protein; IL, interleukin; TNF- α , tumor necrosis factor- α .