

Supplementary Materials: Diabetes and Hypertension Consistently Predict the Presence and Extent of Coronary Artery Calcification in Symptomatic Patients: A Systematic Review and Meta-Analysis

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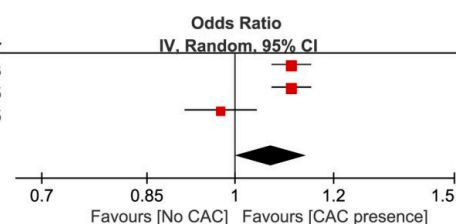
Table S1. Meta-analysis: Pooled risk factors and their ORs predicting CAC presence excluding Kovacic et al.

Risk Factors	Pooled OR (95% CI)	P for Overall Effect	Studies	Patient Numbers	Egger's Test		
					Intercept	t Value	p-Value
Age (years)	1.07 (1.00–1.04)	0.04	[10,14,18]	1163	-	-	-
Male gender (yes/no)	1.74 (1.38–2.20)	<0.00001	[12,14,16–18]	11,594	-0.80	0.92	0.46
Hypertension (yes/no)	1.89 (1.59–2.23)	<0.00001	[10–12,14,16–18]	12,682	-0.21	0.12	0.91
Diabetes mellitus (yes/no)	1.45 (1.18–1.78)	<0.00001	[10–12,14,16–18]	12,682	-0.81	0.37	0.73
Smoking (yes/no)	1.53 (0.82–2.86)	0.18	[10–12,14,16–18]	12,682	5.89	1.35	0.25
Dyslipidaemia (yes/no)	1.60 (0.56–4.51)	0.38	[10,12,16,17]	10,853	2.87	1.39	0.39

Age

Study or Subgroup	log[Odds Ratio]	SE	Weight	Odds Ratio IV, Random, 95% CI	Year
Atar 2013	0.1044	0.0187	35.8%	1.11 [1.07, 1.15]	2013
Qing 2015	0.1044	0.0187	35.8%	1.11 [1.07, 1.15]	2015
Lai 2015	-0.0263	0.0341	28.3%	0.97 [0.91, 1.04]	2015
Total (95% CI)			100.0%	1.07 [1.00, 1.14]	

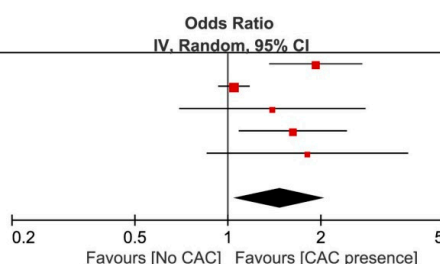
Heterogeneity: Tau² = 0.00; Chi² = 12.77, df = 2 (P = 0.002); I² = 84%
 Test for overall effect: Z = 2.04 (P = 0.04)



Male gender

Study or Subgroup	log[Odds Ratio]	SE	Weight	Odds Ratio IV, Random, 95% CI	Year
Mitsutake 2007	0.6549	0.177	23.3%	1.92 [1.36, 2.72]	2007
Kovacic 2012	0.045	0.06	29.9%	1.05 [0.93, 1.18]	2012
Atar 2013	0.3315	0.3546	13.3%	1.39 [0.70, 2.79]	2013
Qing 2015	0.4842	0.2057	21.4%	1.62 [1.08, 2.43]	2015
Maragiannis 2015	0.5926	0.3833	12.1%	1.81 [0.85, 3.83]	2015
Total (95% CI)			100.0%	1.47 [1.05, 2.06]	

Heterogeneity: Tau² = 0.09; Chi² = 15.43, df = 4 (P = 0.004); I² = 74%
 Test for overall effect: Z = 2.26 (P = 0.02)



Hypertension

Study or Subgroup	log[Odds Ratio]	SE	Weight	Odds Ratio IV, Fixed, 95% CI	Year
Mitsutake 2007	0.9796	0.1853	11.8%	2.66 [1.85, 3.83]	2007
Mayer 2007	0.4462	0.1404	20.5%	1.56 [1.19, 2.06]	2007
Kovacic 2012	0.4194	0.094	45.8%	1.52 [1.27, 1.83]	2012
Atar 2013	0.5897	0.3047	4.4%	1.80 [0.99, 3.28]	2013
Lai 2015	0.244	0.2943	4.7%	1.28 [0.72, 2.27]	2015
Maragiannis 2015	0.5698	0.3933	2.6%	1.77 [0.82, 3.82]	2015
Qing 2015	0.8284	0.1995	10.2%	2.29 [1.55, 3.39]	2015
Total (95% CI)			100.0%	1.71 [1.51, 1.94]	

Heterogeneity: Chi² = 10.85, df = 6 (P = 0.09); I² = 45%
 Test for overall effect: Z = 8.42 (P < 0.00001)

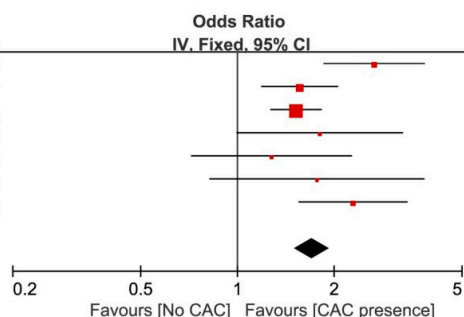
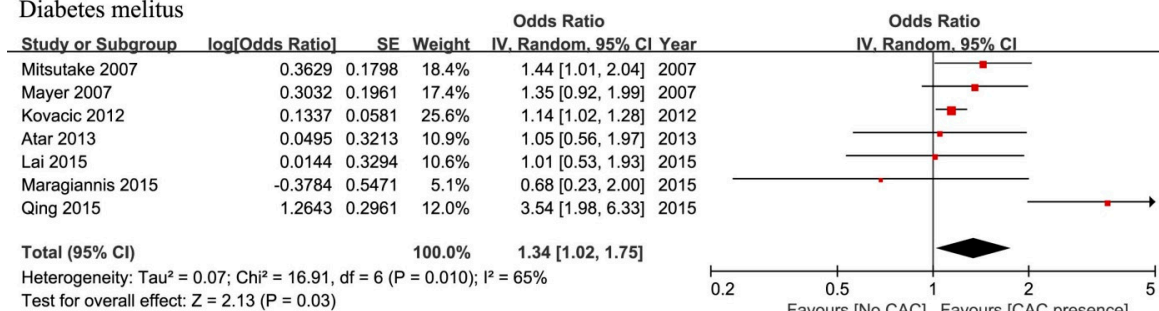
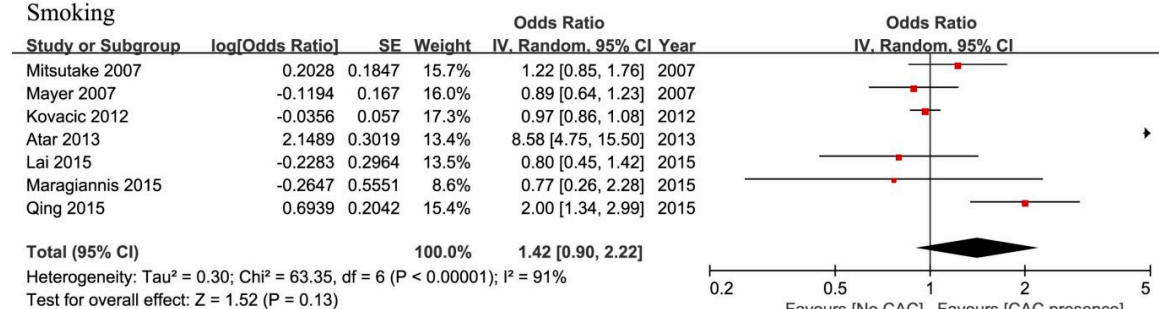


Figure S1. Cont.

Diabetes melitus



Smoking



Dyslipidemia

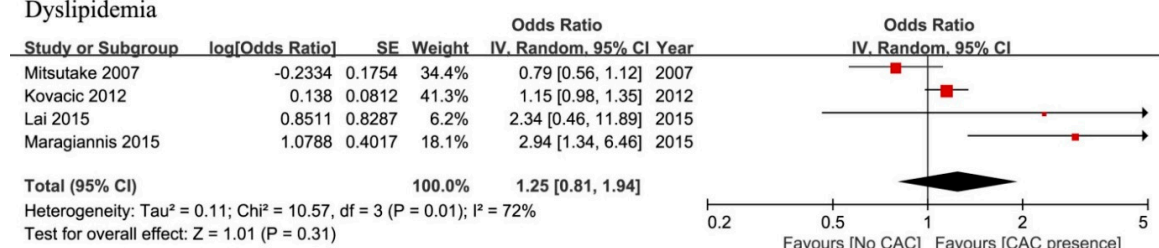


Figure S1. Forest Plots. Age (OR = 1.07, $p = 0.04$), male gender (OR = 1.47, $p = 0.02$), hypertension (OR = 1.71, $p < 0.00001$), and diabetes (OR = 1.34, $p = 0.03$) were predictive for CAC presence. Smoking and dyslipidaemia were not predictive.

Male gender

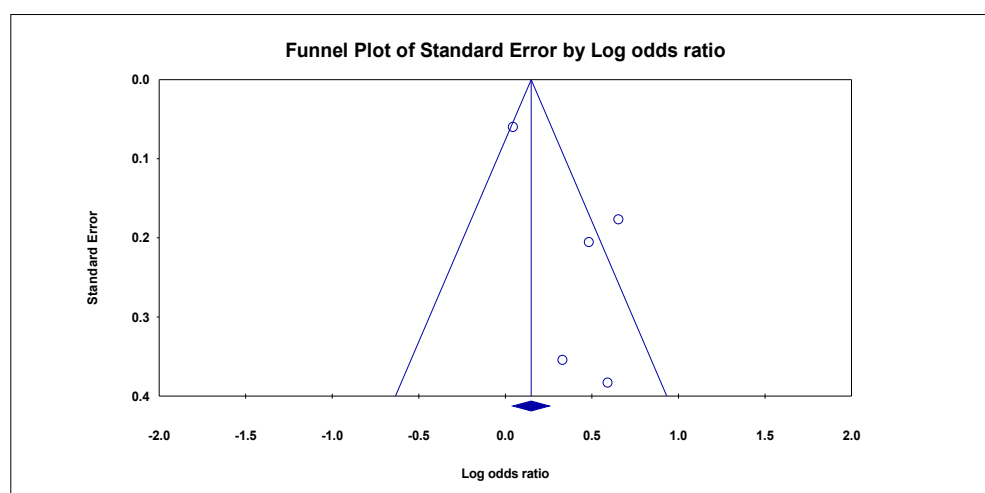
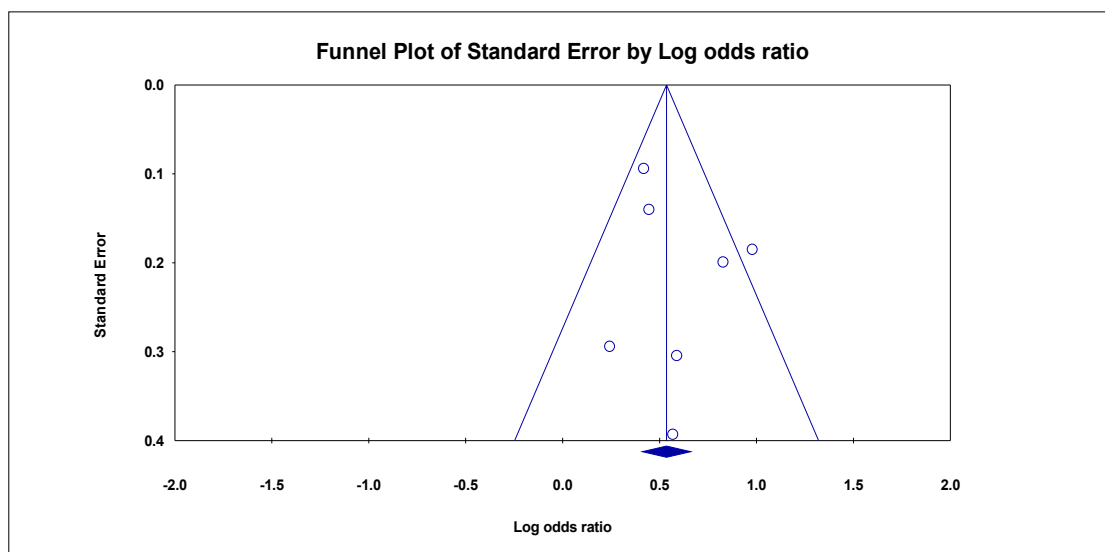
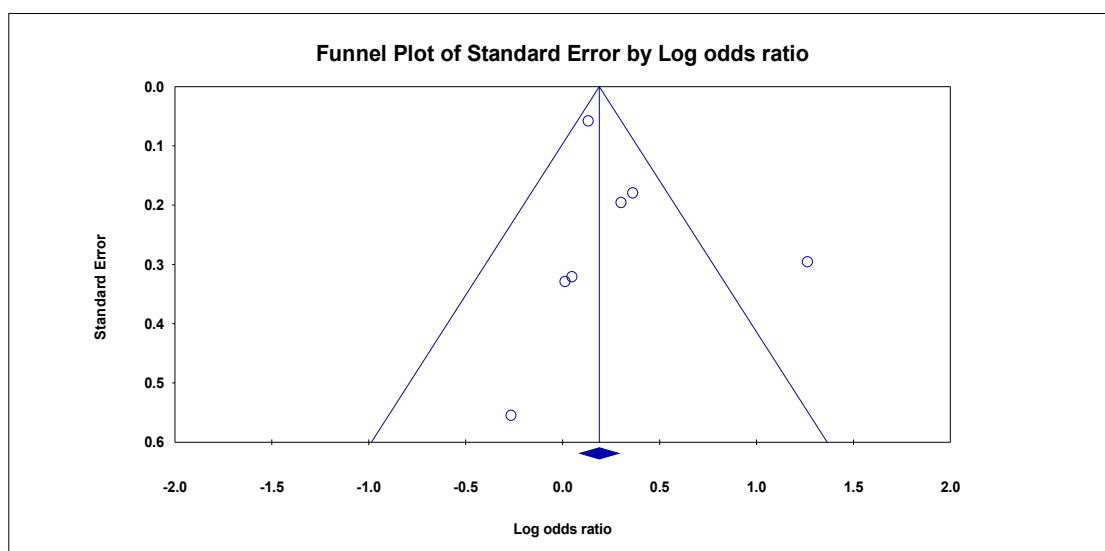


Figure S2. Cont.

Hypertension



Diabetes



Smoking

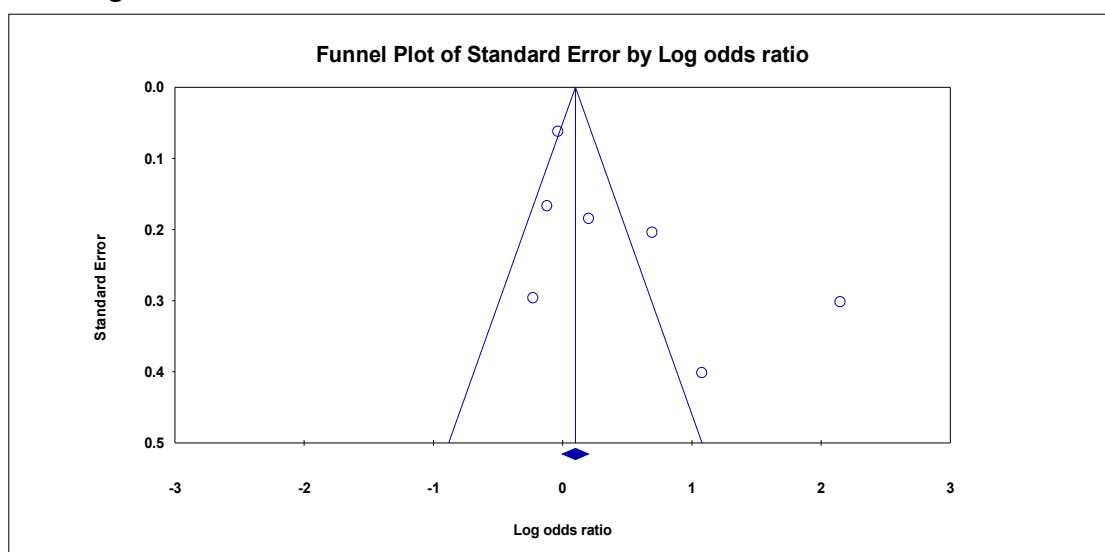


Figure S2. Cont.

Dyslipidaemia

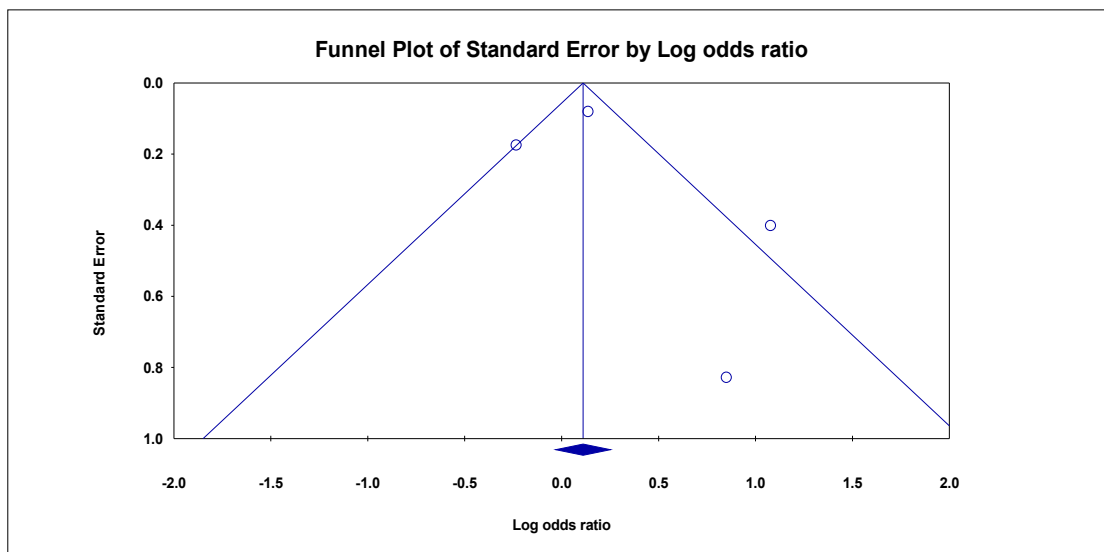


Figure S2. Funnel Plots.