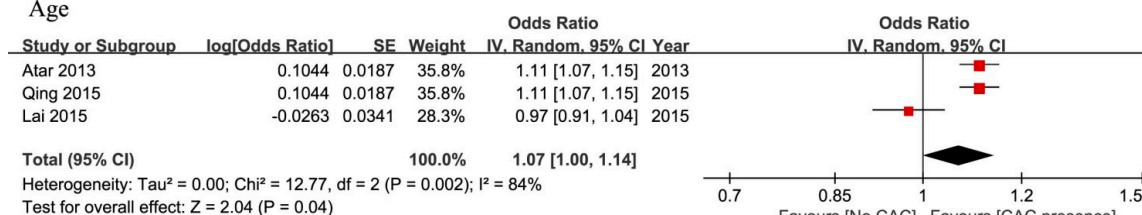# Supplementary Materials: Diabetes and Hypertension Consistently Predict the Presence and Extent of Coronary Artery Calcification in Symptomatic Patients: A Systematic Review and Meta-Analysis

Rachel Nicoll, Ying Zhao, Pranvera Ibrahimi, Gunilla Olivecrona and Michael Henein
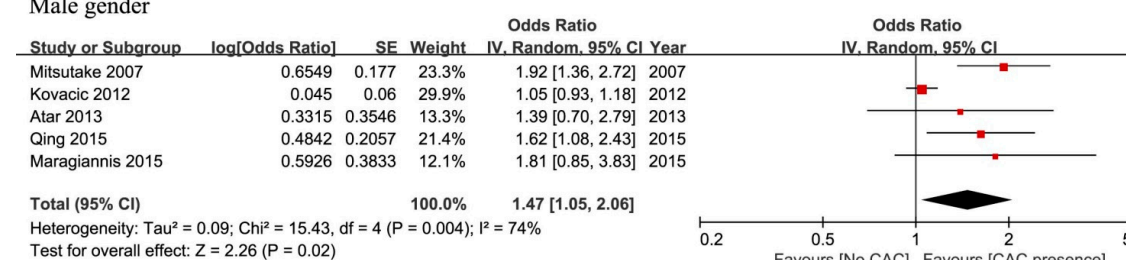
Table S1. Meta-analysis: Pooled risk factors and their ORs predicting CAC presence excluding Kovacic et al.

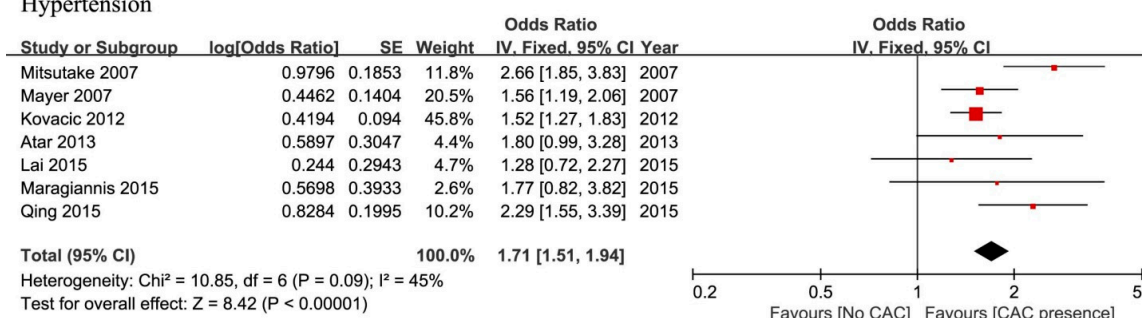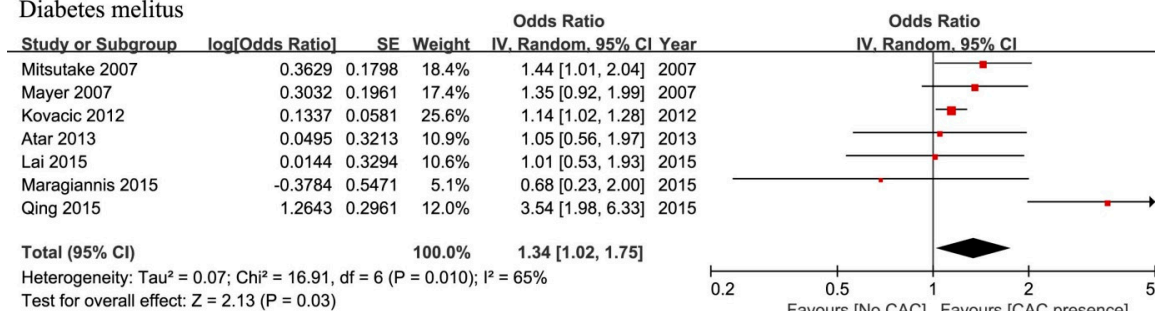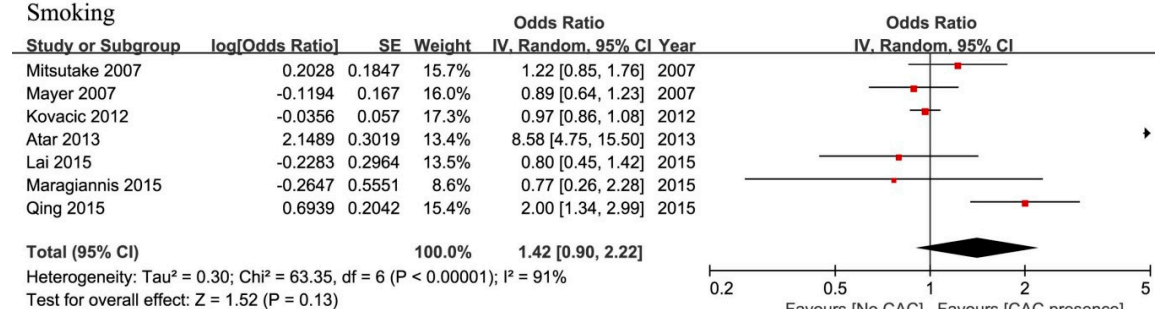| Risk Factors	Pooled OR (95% CI)	P for Overall Effect	Studies	Patient Numbers	Egger's Test		
					Intercept	t Value	p-Value
Age (years)	1.07 (1.00–1.04)	0.04	[10,14,18]	1163	-	-	-
Male gender (yes/no)	1.74 (1.38–2.20)	<0.00001	[12,14,16–18]	11,594	−0.80	0.92	0.46
Hypertension (yes/no)	1.89 (1.59–2.23)	<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

Figure S1. *Cont.*

Diabetes melitus

Study or Subgroup	log[Odds Ratio]	SE	Weight	IV. Random, 95% CI	Year
Mitsutake 2007	0.3629	0.1798	18.4%	1.44 [1.01, 2.04]	2007
Mayer 2007	0.3032	0.1961	17.4%	1.35 [0.92, 1.99]	2007
Kovacic 2012	0.1337	0.0581	25.6%	1.14 [1.02, 1.28]	2012
Atar 2013	0.0495	0.3213	10.9%	1.05 [0.56, 1.97]	2013
Lai 2015	0.0144	0.3294	10.6%	1.01 [0.53, 1.93]	2015
Maragiannis 2015	-0.3784	0.5471	5.1%	0.68 [0.23, 2.00]	2015
Qing 2015	1.2643	0.2961	12.0%	3.54 [1.98, 6.33]	2015
Total (95% CI)			100.0%	1.34 [1.02, 1.75]	

Heterogeneity: Tau² = 0.07; Chi² = 16.91, df = 6 (P = 0.010); I² = 65%
Test for overall effect: Z = 2.13 (P = 0.03)

Smoking

Study or Subgroup	log[Odds Ratio]	SE	Weight	IV. Random, 95% CI	Year
Mitsutake 2007	0.2028	0.1847	15.7%	1.22 [0.85, 1.76]	2007
Mayer 2007	-0.1194	0.167	16.0%	0.89 [0.64, 1.23]	2007
Kovacic 2012	-0.0356	0.057	17.3%	0.97 [0.86, 1.08]	2012
Atar 2013	2.1489	0.3019	13.4%	8.58 [4.75, 15.50]	2013
Lai 2015	-0.2283	0.2964	13.5%	0.80 [0.45, 1.42]	2015
Maragiannis 2015	-0.2647	0.5551	8.6%	0.77 [0.26, 2.28]	2015
Qing 2015	0.6939	0.2042	15.4%	2.00 [1.34, 2.99]	2015
Total (95% CI)			100.0%	1.42 [0.90, 2.22]	

Heterogeneity: Tau² = 0.30; Chi² = 63.35, df = 6 (P < 0.00001); I² = 91%
Test for overall effect: Z = 1.52 (P = 0.13)

Dyslipidemia

Study or Subgroup	log[Odds Ratio]	SE	Weight	IV. Random, 95% CI	Year
Mitsutake 2007	-0.2334	0.1754	34.4%	0.79 [0.56, 1.12]	2007
Kovacic 2012	0.138	0.0812	41.3%	1.15 [0.98, 1.35]	2012
Lai 2015	0.8511	0.8287	6.2%	2.34 [0.46, 11.89]	2015
Maragiannis 2015	1.0788	0.4017	18.1%	2.94 [1.34, 6.46]	2015
Total (95% CI)			100.0%	1.25 [0.81, 1.94]	

Heterogeneity: Tau² = 0.11; Chi² = 10.57, df = 3 (P = 0.01); I² = 72%
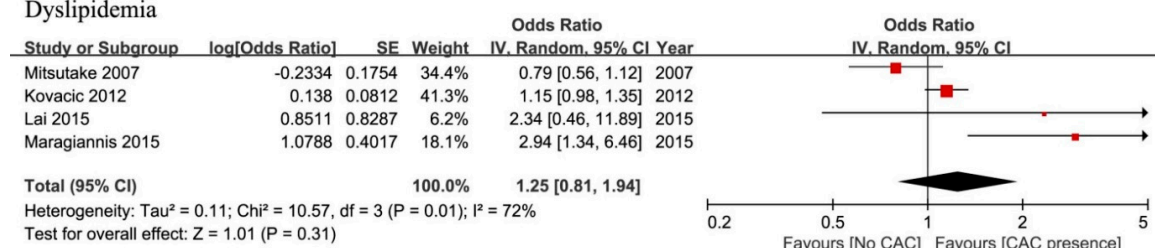Test for overall effect: Z = 1.01 (P = 0.31)

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.
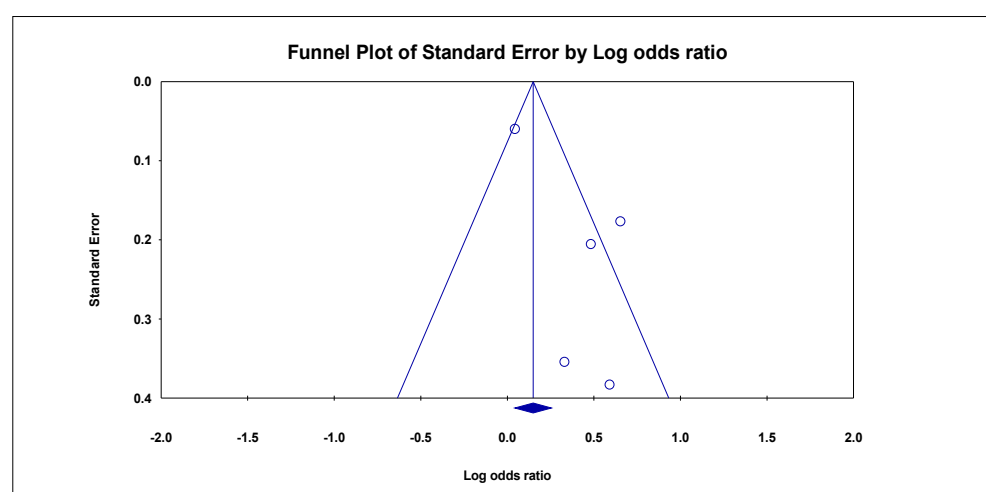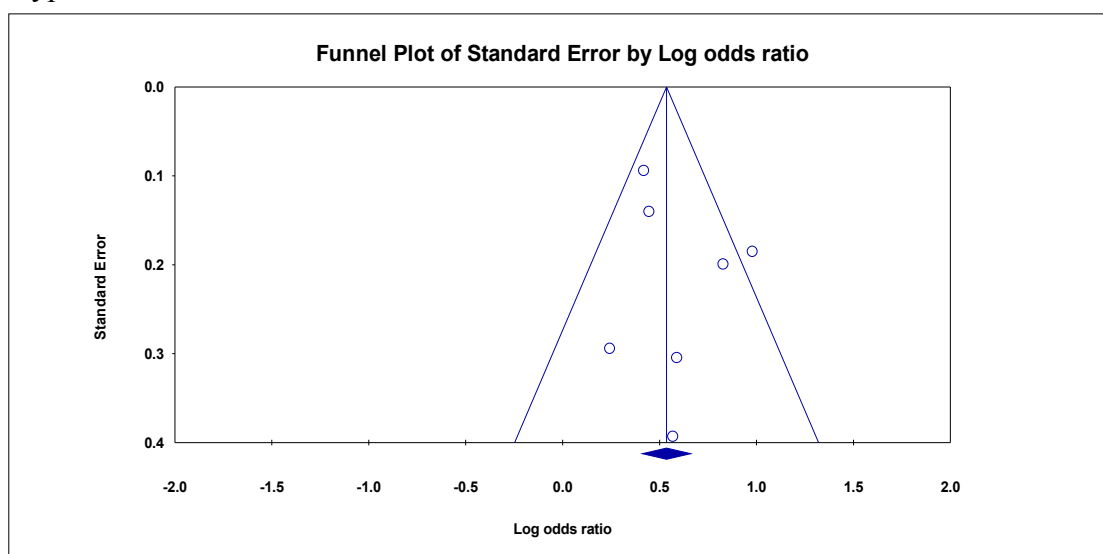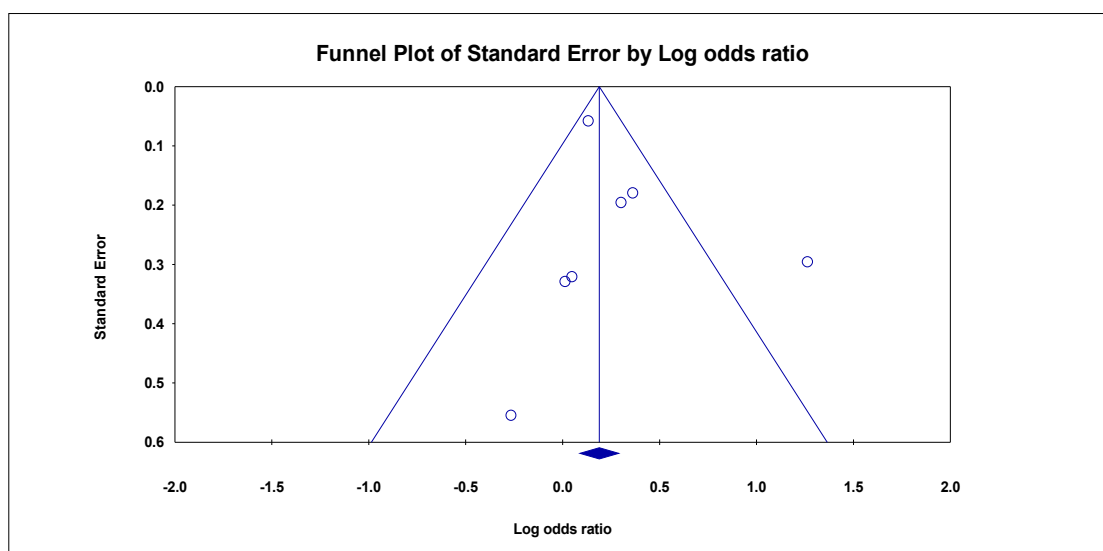
Male gender

Figure S2. *Cont.*

Hypertension

Diabetes

Smoking
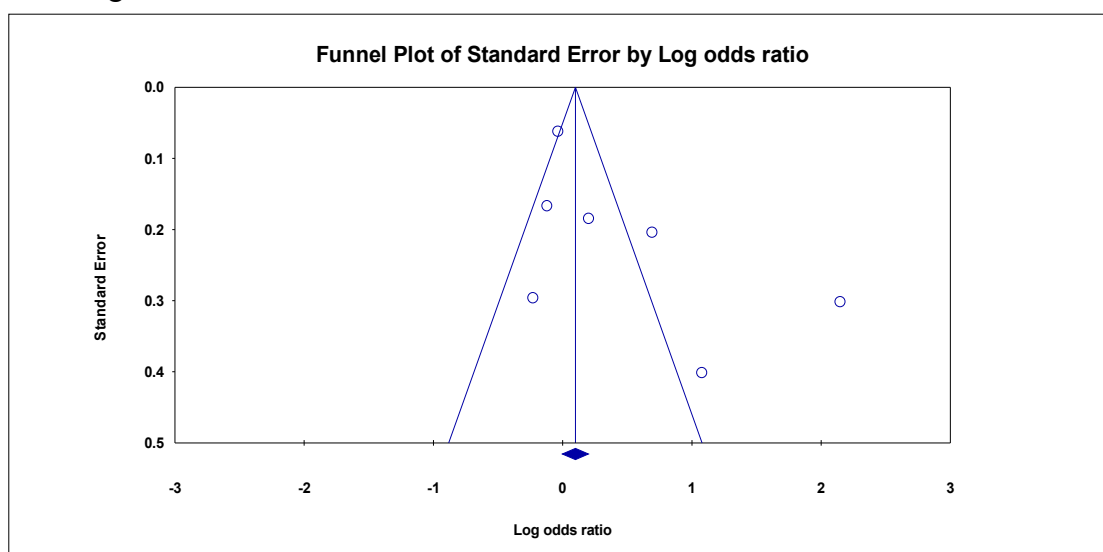
Figure S2. *Cont.*

Dyslipidaemia

Figure S2. Funnel Plots.