

Supplementary Table 1: Quality Assessment of Observational Studies Using the Newcastle-Ottawa Scale

Year & First Author	Selection (4)	Comparability (2)	Outcome (3)	Total (9)	Grade
Abidov et al 2009	3	2	2	7	High
Aldrovandi et al 2009	4	2	2	8	High
Arad et al 2005	3	1	2	6	High
Becker et al 2008	3	2	2	7	High
Budoff et al 2007	4	2	2	8	High
Chang AM et al 2011	3	2	2	7	High
Chang SM et al 2015	3	1	2	6	High
Detrano R et al 2008	2	2	3	7	High
Faustino A et al 2014	4	2	2	8	High
Gaemperli O et al 2008	3	2	2	7	High
Georgiou D et al 2001	2	1	1	4	Low
Gottlieb I et al 2012	3	1	3	7	High
Greenland P et al 2004	2	2	3	7	High

Hadamitzky M et al 2009	4	2	3	9	High
Erbel R et al 2010	3	1	1	5	Moderate
Jacobs PC et al 2012	2	2	3	7	High
Kondos GT et al 2003	2	1	1	4	Low
Chaikriangkrai K et al 2015	2	2	2	6	Moderate
Kunita E et al 2013	3	1	2	6	High
LaMonte M J et al 2005	3	2	2	7	High
McLaughlin VV et al 1999	4	2	2	8	High
Budoff M J et al 2018	3	2	2	7	High
Ostrum M P et al 2008	3	1	2	6	High
Rozanski A et al 2007	2	2	3	7	High
Rubinshtein R et al 2007	4	2	2	8	High
Schenker et al 2008	3	2	2	7	High
Scholte A J H A et al 2008	2	1	1	4	Low
Shemesh 2012	2	1	1	4	Low
Taylor A et al 2010	2	2	2	6	Moderate

Valenti V et al 2015	2	2	2	6	Moderate
Yamamoto et al 2011	2	1	2	6	Moderate
Hou Z et al 2012	2	2	2	6	Moderate
Pursnani A et al 2015	4	2	2	8	High
Carr J J et al 2017	3	2	2	7	High
Radford N B et al 2016	3	1	2	6	Moderate
Budoff M J et al 2017	2	2	3	7	High
Villines T C et al 2011	4	2	2	8	High
Mortensen M B et al 2016	2	1	1	4	Low
Orimoloye OA et al 2018	2	2	2	6	Moderate
Kuller LH 2016	2	2	2	6	Moderate
Mitchell JD et al 2018	2	1	2	6	Moderate
Wang Xue 2019	2	2	2	6	Moderate
Kalia et al 2006	3	2	2	7	High
Orakzai et al 2008	4	2	2	8	High
Taylor et al 2008	3	2	2	7	High

Nasir et al 2010	4	2	2	8	High
Rozanski et al 2011	3	2	2	7	High
Schwartz et al 2011	3	1	2	6	Moderate
Lei MH et al 2020	2	2	3	7	High
Blaha MJ et al 2020	4	2	2	8	High
Masrouri et al 2024	4	2	3	8	High

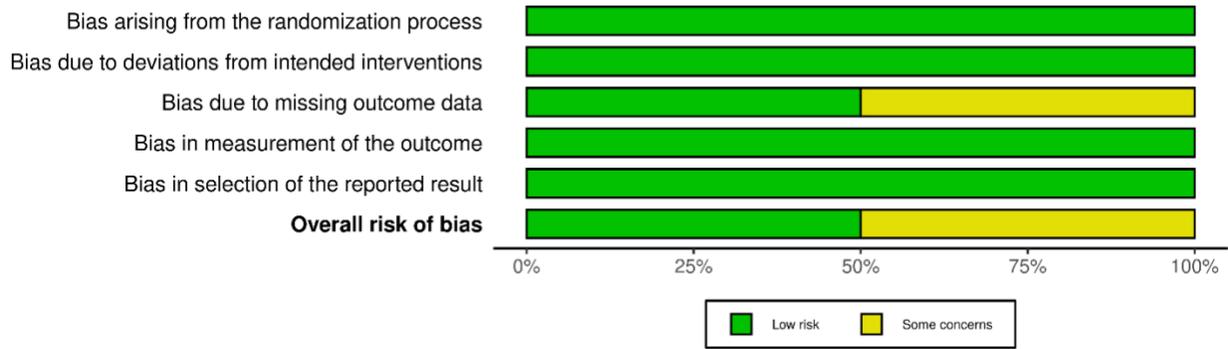
Supplementary Figure 1: Risk of Bias using RoB 2.0

		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	Goldstein J A et al						
	Poornima et al 2017						

Domains:
D1: Bias arising from the randomization process.
D2: Bias due to deviations from intended intervention.
D3: Bias due to missing outcome data.
D4: Bias in measurement of the outcome.
D5: Bias in selection of the reported result.

Judgement
 Some concerns
 Low

Supplementary Figure 2: Overall Risk of Bias



Supplementary Figures:

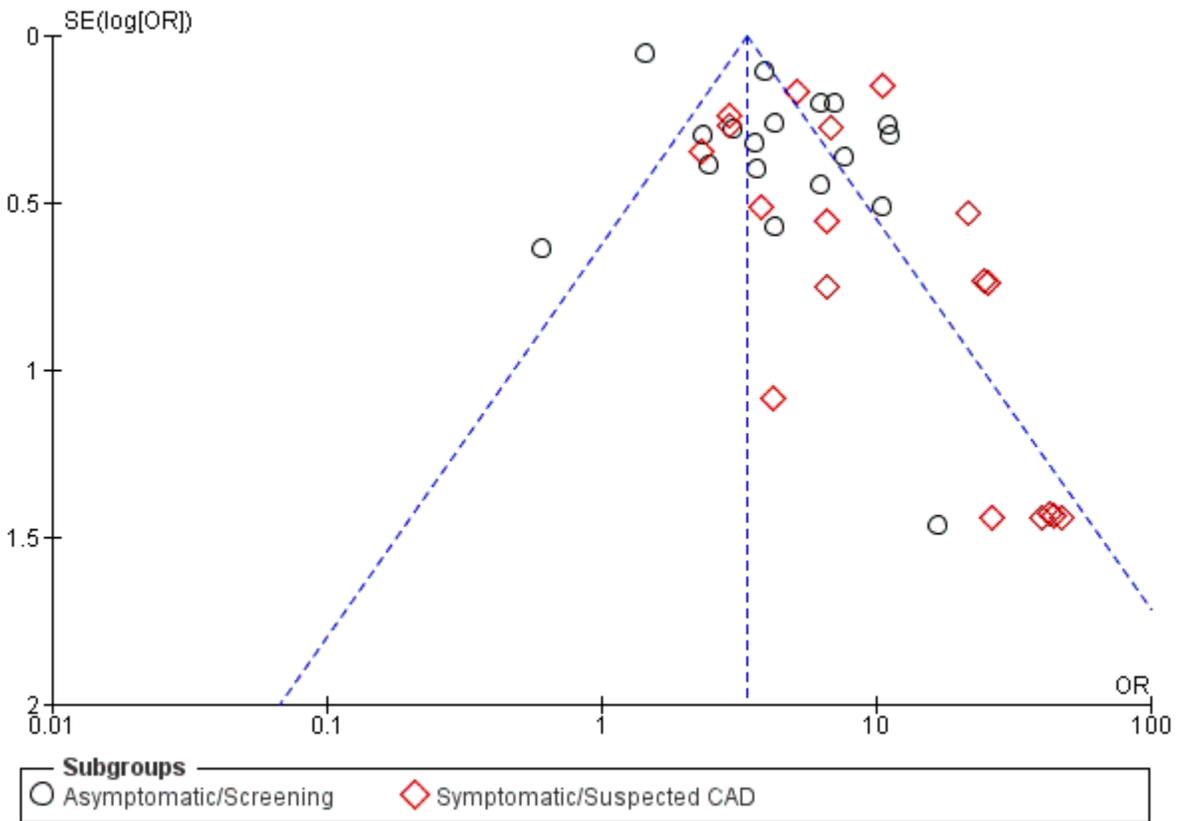


Figure 1: Funnel plot for MACE

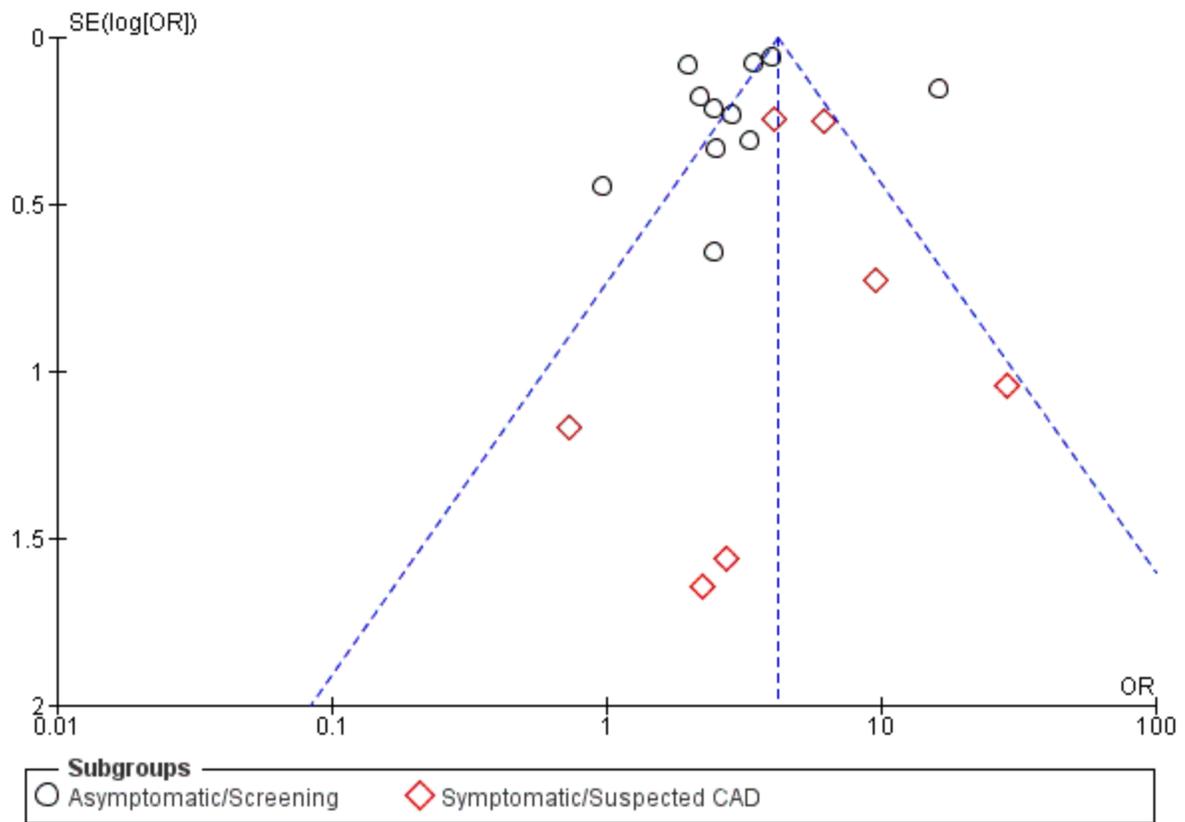


Figure 2: Funnel plot for All-cause mortality

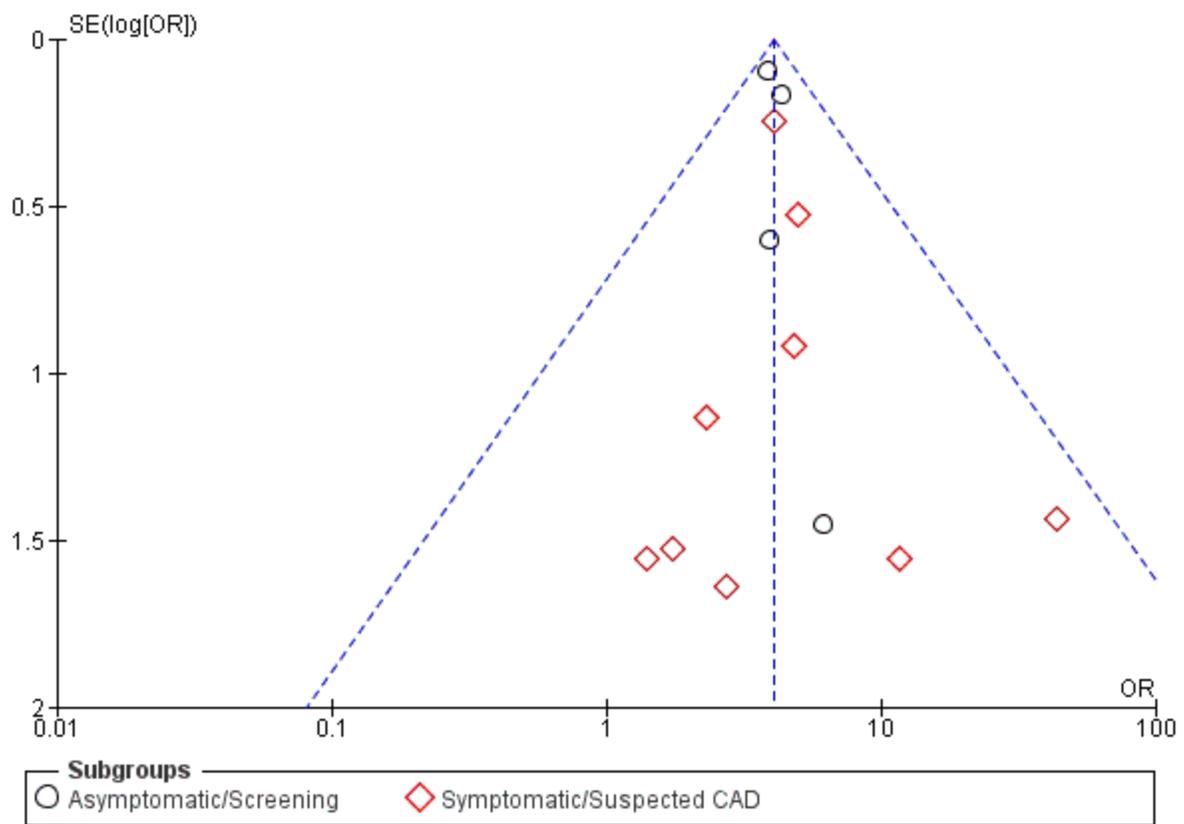


Figure 3: Funnel plot for Myocardial Infarction

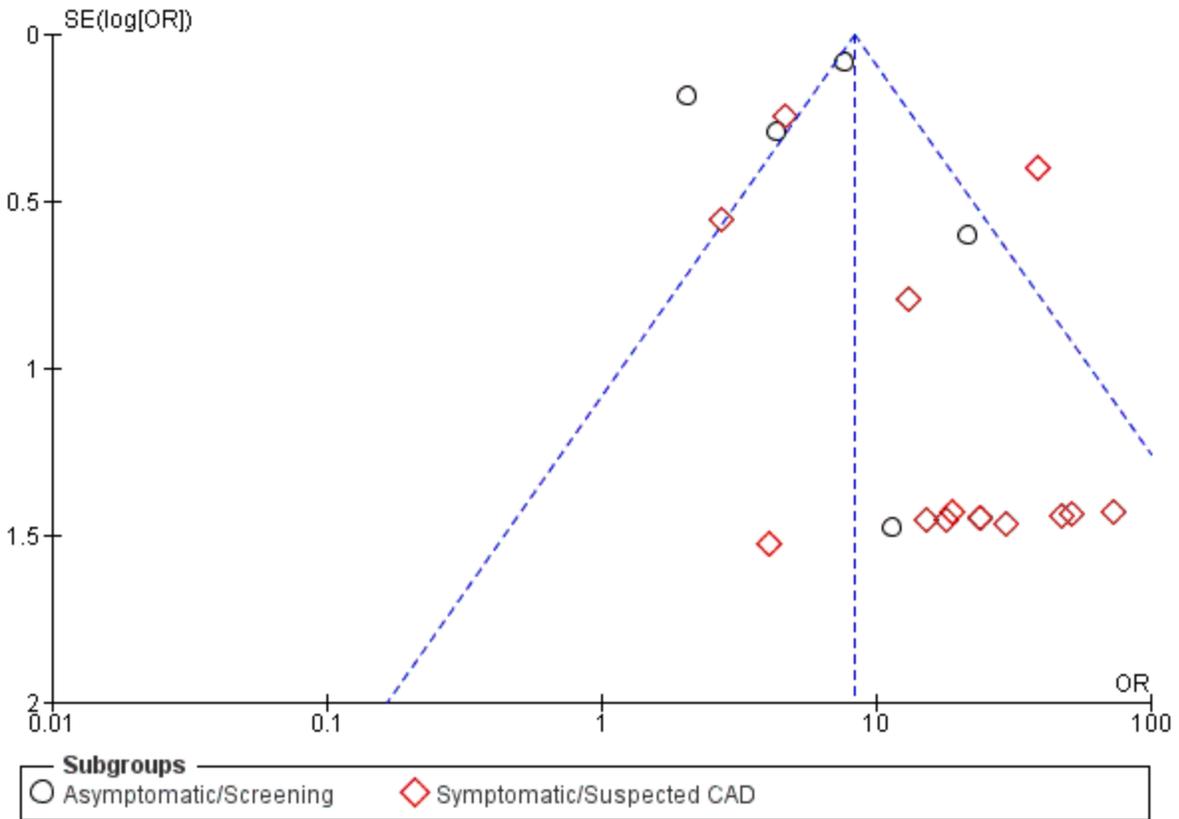


Figure 4: Funnel plot for Revascularization

Search String:

("coronary artery calcium" OR "CAC" OR "coronary calcium score" OR "Agatston score") AND ("preventive therapy" OR "aspirin" OR "lipid-lowering" OR "statins" OR "blood pressure" OR "hypertension" OR "lifestyle modification" OR "diet" OR "exercise" OR "physical activity") AND ("cardiovascular events" OR "myocardial infarction" OR "revascularization" OR "mortality")