

## Supplementary materials

**Supplementary Table S1:** Search strategy among database,

**Supplementary Table S2:** Newcastle-Ottawa scale for quality assessment and bias assessment of observational studies.

**Supplementary Figure S1:** Risk of bias in randomized controlled trials by using Cochrane Collaboration's tool.

**Supplementary Figure S2** Funnel plots of primary outcome: LVEF

**Supplementary Figure S3** Funnel plots of outcome: Heart Failure

**Supplementary Figure S4** Leave-one-out analysis for LVEF

**Supplementary Figure S5** Leave-one-out analysis for LVEDV.

Electronic database	Search strategy
Pubmed	((((((((((breast cancer[MeSH Terms]) OR (lymphoma[Other Term])) OR (cancer[Other Term])) AND (chemotherapy[Other Term])) OR (anthracyclines[Other Term])) AND (statins, hmg coa[MeSH Terms])) OR (hmg coa statins[MeSH Terms])) OR (atorvastatin[Other Term])) OR (simvastatin[Other Term])) AND (heart failure[MeSH Terms])) OR (cardiomyopathies[MeSH Terms]))

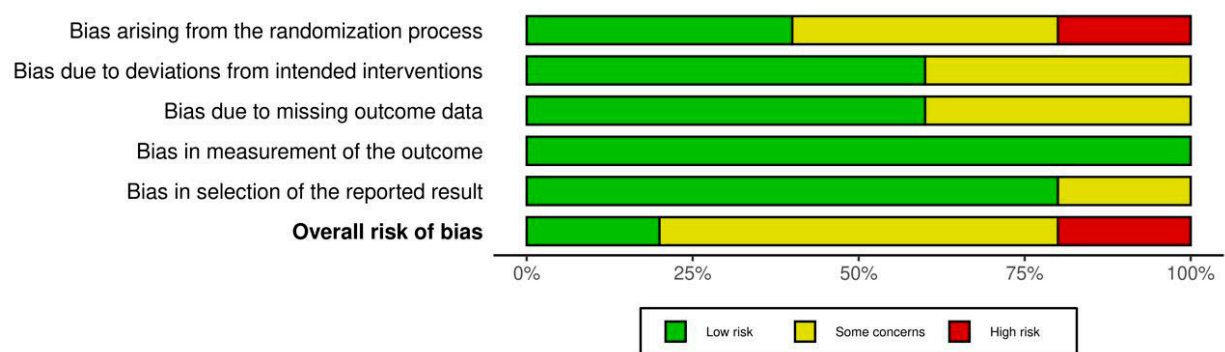
**Supplementary Table S1:** Search strategy

Study	Selection	Comparability	Outcome	To
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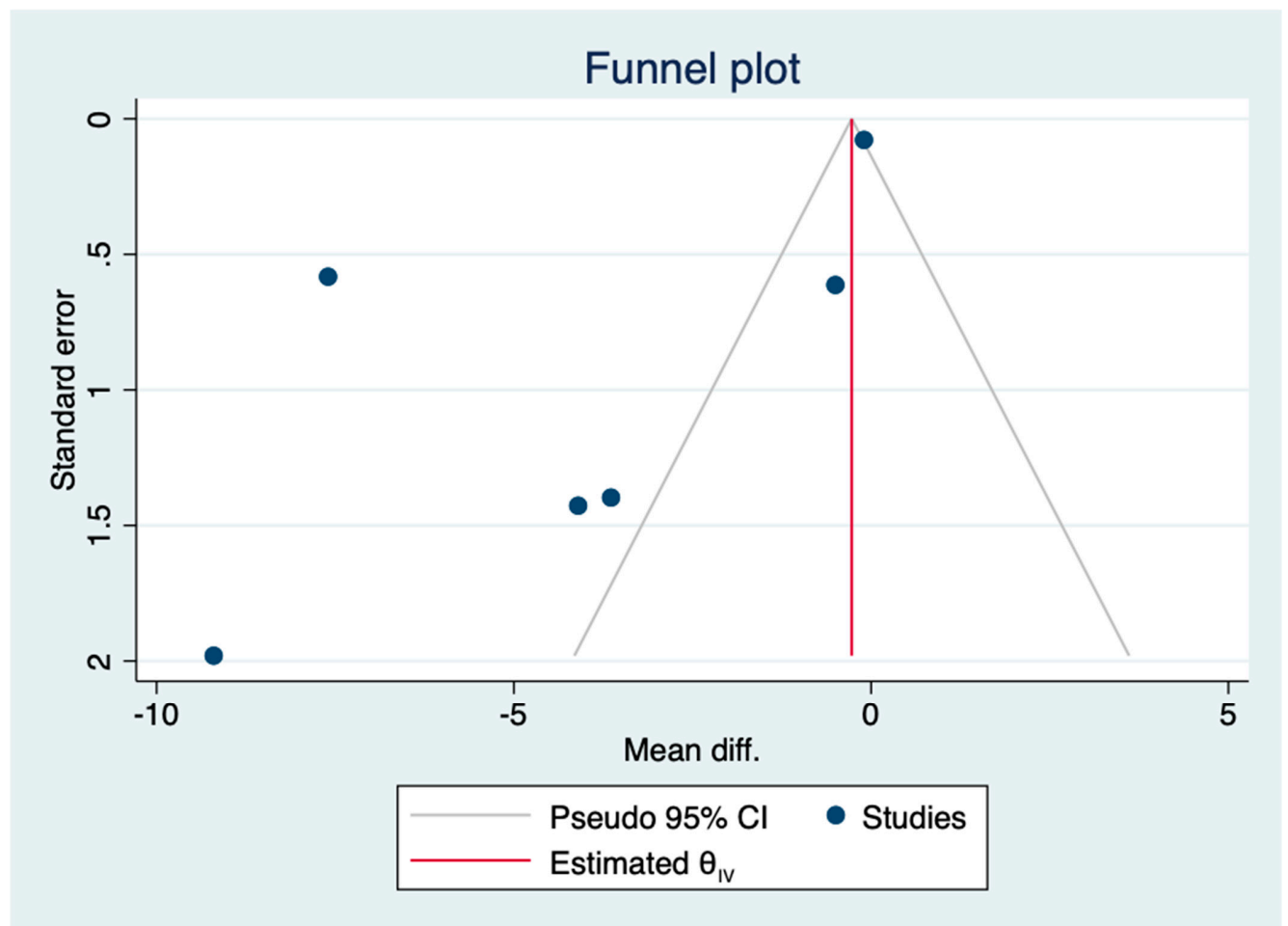
Author, year	Representatives of exposed group	Selection of non-exposed cohort	Ascertainment of exposure	Outcome of interest		Outcome assessment	Adequacy of follow up duration	Adequacy of follow up of cohort	
Qadir et al	1	1	1	1	2	1	0	0	7
Arguell et al.	1	1	1	1	2	1	1	1	9
Seicean et al.	1	1	1	1	2	1	0	0	7
Chotenim itkhun et al.	1	1	1	1	1	1	1	1	8

**Supplementary Table S2.** Newcastle-Ottawa scale for quality assessment and bias assessment of observational studies.

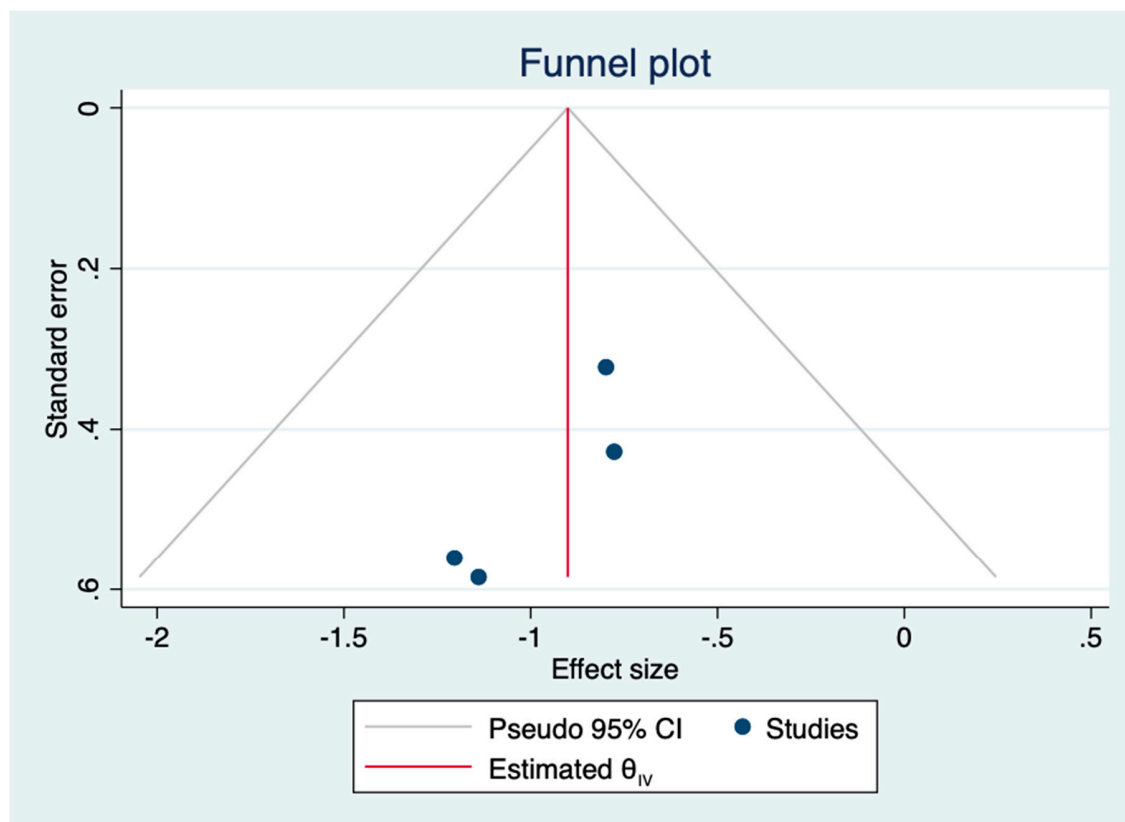
		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	Nabati et al. 2019						
	Hundley et al. 2022						
	Acar et al. 2011						
	SPARE HF						
	STOP CA						
		Domains: D1: Bias arising from the randomization process. D2: Bias due to deviations from intended intervention. D3: Bias due to missing outcome data. D4: Bias in measurement of the outcome. D5: Bias in selection of the reported result.					Judgement High Some concerns Low



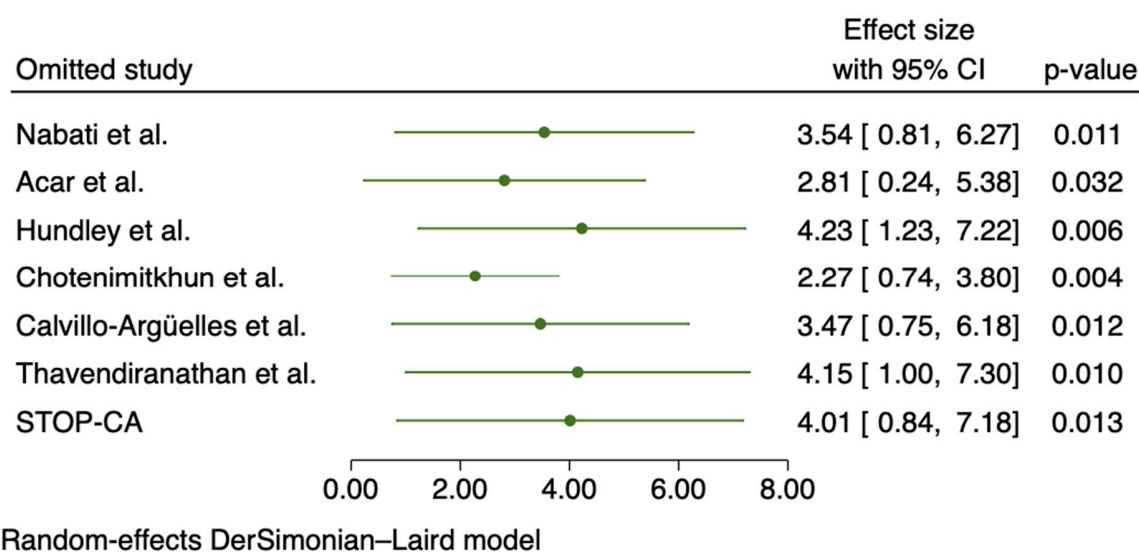
**Supplementary Figure S1:** Risk of bias in randomized controlled trials by using Cochrane Collaboration's tool.



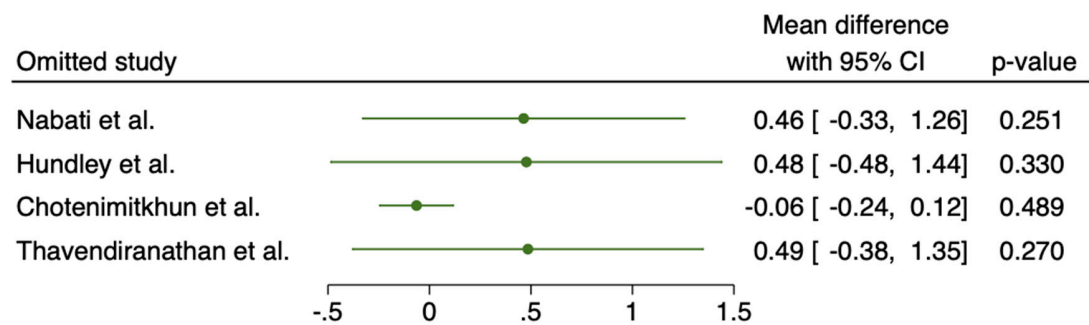
**Supplementary Figure S2** Funnel plots of primary outcome: LVEF



**Supplementary Figure S3** Funnel plots of outcome: Heart Failure



**Supplementary Figure S4** Leave-one-out analysis for LVEF



Random-effects DerSimonian–Laird model

**Supplementary Figure S5** Leave-one-out analysis for LVEDV.