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Search Strategy and Keywords

1) PubMed

("dapagliflozin"[Mesh] OR "dapagliflozin"[Supplementary Concept] OR "dapagliflozin"[tiab] OR "Forxiga"[Mesh] OR "Farxiga"[Mesh] OR "(2S,3R,4R,5S,6R)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol"[Mesh] OR "2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-6-hydroxymethyltetrahydro-2H-pyran-3,4,5-triol"[Mesh] OR "BMS 512148"[Mesh] OR "BMS512148"[Mesh] OR "BMS-512148"[Mesh])

AND

("Heart Failure"[Mesh] OR "Heart Failure, Diastolic"[Mesh] OR "Heart Failure, Systolic"[Mesh] OR "Cardiac Failure"[Mesh] OR "Heart Decompensation"[Mesh] OR "Decompensation, Heart"[Mesh] OR "Heart Failure, Right-Sided"[Mesh] OR "Heart Failure, Right Sided"[Mesh] OR "Right-Sided Heart Failure"[Mesh] OR "Right Sided Heart Failure"[Mesh] OR "Myocardial Failure"[Mesh] OR "Congestive Heart Failure"[Mesh] OR "Heart Failure, Congestive"[Mesh] OR "Heart Failure, Left-Sided"[Mesh] OR "Heart Failure, Left Sided"[Mesh] OR "Left-Sided Heart Failure"[Mesh] OR "Left Sided Heart Failure"[Mesh] OR "Heart Failure"[tiab] OR "Cardiac Failure"[tiab] OR "Myocardial Failure"[tiab] OR "Heart Decompensation"[tiab] OR "Cardiac Decompensation"[tiab] OR "Myocardial Decompensation"[tiab] OR "Right-Sided Heart Failure"[tiab] OR "Right Sided Heart Failure"[tiab] OR "Congestive Heart Failure"[tiab] OR "Left-Sided Heart Failure"[tiab] OR "Left Sided Heart Failure"[tiab] OR "Heart Incompetence"[tiab] OR "Cardiac Incompetence"[tiab] OR "Myocardial Incompetence"[tiab] OR "Heart Insufficiency"[tiab] OR "Cardiac Insufficiency"[tiab] OR "Myocardial Insufficiency"[tiab] OR "Chronic heart failure"[tiab] OR "Chronic heart insufficiency"[tiab] OR "Chronic heart decompensation"[tiab])

AND

("Randomized Controlled Trial"[Publication Type] OR Randomized Controlled Trial[Mesh] OR "Randomized Controlled Trials as Topic"[Mesh] OR "Controlled Clinical Trial"[Publication Type] OR Controlled Clinical Trial[Mesh] OR "Clinical Trials as Topic"[Mesh] OR "Clinical Trial"[Publication Type] OR Clinical Trial[Mesh] OR Intervention Study[Mesh] OR "Random Allocation"[Mesh] **OR** "Randomized Controlled Trial"[tiab] OR "Randomized Controlled Study"[tiab] OR "Randomized Controlled Trials as Topic"[tiab] OR "Clinical Trial"[tiab] OR Intervention Study[tiab] OR "Random Allocation"[tiab] OR Randomization[tiab] OR "Controlled Clinical Trial"[tiab] OR "Clinical Trials as Topic"[tiab] OR "Clinical Trial as Topic"[tiab])

2) Scopus:

(dapagliflozin OR Forxiga OR "(2S,3R,4R,5S,6R)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol" OR "2-(3-(4-ethoxybenzyl)-4-chlorophenyl)-6-hydroxymethyltetrahydro-2H-pyran-3,4,5-triol" OR "BMS 512148" OR "BMS512148" OR "BMS-512148")

AND

("Heart Failure" OR "Cardiac Failure" OR "Myocardial Failure" OR "Heart Decompensation" OR "Cardiac Decompensation" OR "Myocardial Decompensation" OR "Heart Incompetence" OR "Cardiac Incompetence" OR "Myocardial Incompetence" OR "Heart Insufficiency" OR "Cardiac Insufficiency" OR "Myocardial Insufficiency")

AND

("Randomized Controlled Trial" OR "Randomized Controlled Trials as Topic" OR "Clinical Trial" OR "Intervention Study" OR "Random Allocation" OR Randomization OR "Controlled Clinical Trial" OR "Clinical Trials as Topic" OR "Clinical Trial as Topic" OR "Randomized controlled study")

3) ScienceDirect:

("dapagliflozin" OR "Forxiga" OR "Farxiga") AND ("Heart Failure" OR "cardiac failure" OR "Myocardial failure") AND ("randomized controlled trial" OR "controlled clinical trial" OR "Randomized controlled study")

Figure 1: Risk of bias summary

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Ibrahim 2020	⊖	?	+	?	+	+	+
McMurray 2019	+	+	+	+	+	+	+
McMurray 2021	+	+	+	+	+	+	+
Nassif 2019	+	+	+	+	+	+	+
Nassif 2021	+	+	+	+	+	?	+
Palau 2022	+	+	+	+	+	+	+
singh 2020	+	+	+	+	+	+	+
solomon 2022	+	+	+	+	+	+	+
Wiviott 2019	?	+	+	+	+	+	+

Figure 2: Funnel plot for publication bias assessment

