

SUPPLEMENTARY MATERIAL*Patient-reported outcome assessment in heart failure with preserved ejection fraction: A systematic review of semaglutide trials using the Kansas City Cardiomyopathy Questionnaire*

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Supplementary Table S1: Full MEDLINE (PubMed) Search Strategy

Database: MEDLINE via PubMed | Date of search: January 2026 | Filters applied: Humans, Adult (≥18 years), English language | Study design filter: RCTs, controlled trials, cohort and prospective studies

Search terms combine Medical Subject Headings (MeSH) controlled vocabulary with free-text (tiab) keywords. Boolean operators AND/OR are used to combine concept blocks. Results are deduplicated across databases.

#	Search String	Annotation
Block 1: HFpEF Concept (Lines 1–8)		
1	"Heart Failure"[MeSH Terms]	MeSH
2	"Heart Failure, Diastolic"[MeSH Terms]	MeSH
3	"heart failure with preserved ejection fraction"[tiab]	Free text
4	"HFpEF"[tiab]	Abbreviation
5	"preserved ejection fraction"[tiab]	Free text
6	"diastolic heart failure"[tiab]	Free text
7	"diastolic dysfunction"[tiab] AND "heart failure"[tiab]	Combined free text
8	1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7	HFpEF block
Block 2: Semaglutide Concept (Lines 9–13)		
9	"Semaglutide"[MeSH Terms]	MeSH
10	"semaglutide"[tiab]	Free text
11	"Ozempic"[tiab] OR "Wegovy"[tiab] OR "Rybelsus"[tiab]	Brand names
12	"GLP-1 receptor agonist"[tiab] AND "semaglutide"[tiab]	Mechanism + drug
13	9 OR 10 OR 11 OR 12	Semaglutide block
Block 3: Patient-Reported Outcomes / Quality of Life (Lines 14–27)		
14	"Quality of Life"[MeSH Terms]	MeSH
15	"Patient Reported Outcome Measures"[MeSH Terms]	MeSH
16	"Surveys and Questionnaires"[MeSH Terms]	MeSH

#	Search String	Annotation
17	"Kansas City Cardiomyopathy Questionnaire"[tiab]	Instrument name
18	"KCCQ"[tiab]	Abbreviation
19	"patient-reported outcome"[tiab] OR "patient reported outcome"[tiab]	Free text
20	"health-related quality of life"[tiab] OR "health related quality of life"[tiab]	Free text
21	"HRQoL"[tiab] OR "HRQL"[tiab]	Abbreviations
22	"quality of life"[tiab]	Free text
23	"PRO"[tiab] AND ("heart failure"[tiab] OR "HFpEF"[tiab])	Context-anchored PRO
24	"Minnesota Living with Heart Failure Questionnaire"[tiab] OR "MLHFQ"[tiab]	Instrument
25	"SF-36"[tiab] OR "Short Form 36"[tiab]	Instrument
26	"EQ-5D"[tiab] OR "EuroQol"[tiab]	Instrument
27	14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26	PRO/QoL block
Final Combination and Filters (Lines 28–31)		
28	8 AND 13 AND 27	Core intersection
29	28 AND ("humans"[MeSH Terms] OR "adult"[MeSH Terms])	Human/adult filter
30	29 AND English[lang]	Language filter
31	30 AND ("randomized controlled trial"[pt] OR "controlled clinical trial"[pt] OR "cohort studies"[MeSH Terms] OR "prospective studies"[MeSH Terms])	Study design filter

Abbreviations Used in Search Strategy

tiab: Title/Abstract field tag (PubMed free-text search)

MeSH: Medical Subject Headings (PubMed controlled vocabulary)

pt: Publication type filter

lang: Language filter

HFpEF: Heart failure with preserved ejection fraction

PRO: Patient-reported outcome

KCCQ: Kansas City Cardiomyopathy Questionnaire

QoL: Quality of life

HRQoL: Health-related quality of life

GLP-1: Glucagon-like peptide-1

RCT: Randomised controlled trial

Search Notes

1. The same conceptual blocks were adapted and applied in EMBASE (using Emtree terms where available), Cochrane CENTRAL (using MeSH and keyword terms), and ClinicalTrials.gov (using condition and intervention fields).
2. All brand-name synonyms for semaglutide (Ozempic®, Wegovy®, Rybelsus®) were included to capture real-world and observational studies that may reference brand names rather than generic drug names.
3. Reference lists of all included studies and of relevant systematic reviews identified during screening were manually searched for additional eligible records not captured by the electronic search.
4. The search was conducted from database inception through January 2026. The search date represents the final update prior to eligibility screening and data extraction.
5. No date restrictions were applied to the core search (Lines 28–29). The study design filter (Line 31) was applied as an optional step; records excluded by this filter were reviewed at the title/abstract screening stage to ensure no eligible study was missed.
6. The full search strategy document and a priori written protocol are available from the corresponding author upon request (mmtlaiss22@gmail.com).