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Smartphone-Based Interventions for Heart Failure Self-Care Assessed Using the SCHFI or EHFScBS: A Scoping Review

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Supporting Information

Appendix 1.

Database: PubMed
Platform: NCBI
Date of search: March 20, 2026
Coverage: From database inception to March 20, 2026
Filters applied: Humans, English language
No publication date restrictions were applied.
Search strategy:
#1 “Heart Failure”[Mesh] OR “heart failure”[tiab]
#2 “Self Care”[Mesh]
OR “self-care”[tiab]
OR “self care”[tiab]
OR “self-management”[tiab]
OR “self management”[tiab]
OR “symptom management”[tiab]
OR “Patient Participation”[Mesh]
OR “patient participation”[tiab]
#3 “Smartphone”[Mesh]
OR smartphone*[tiab]
OR “Mobile Applications”[Mesh]
OR “mobile application*”[tiab]
OR “mobile app*”[tiab]
OR mHealth[tiab]
OR “mobile health”[tiab]
OR “Telemedicine”[Mesh]
OR telemedicine[tiab]
OR “remote monitoring”[tiab]
#4 #1 AND #2 AND #3

Appendix 2.

Database: Ovid MEDLINE
Platform: Ovid
Date of search: March 20, 2026
Coverage: From database inception to March 20, 2026
Limits applied: Humans, English language
No publication date restrictions were applied.

Search No.	Search strategy
1	heart failure.sh. OR heart failure.ab. OR heart failure.ti.
2	self care.sh. OR self care.ab. OR self care.ti.
3	self management.sh. OR self management.ab. OR self management.ti.
4	patient participation.sh. OR patient participation.ab. OR patient participation.ti.
5	symptom management.ab. OR symptom management.ti.
6	2 OR 3 OR 4 OR 5
7	smartphone.sh. OR smartphone*.ab. OR smartphone*.ti.
8	mobile application.sh. OR mobile application*.ab. OR mobile application*.ti. OR mobile app*.ab. OR mobile app*.ti.
9	mobile health.sh. OR mobile health.ab. OR mobile health.ti.
10	telemedicine.sh. OR telemedicine.ab. OR telemedicine.ti.
11	remote monitoring.sh. OR remote monitoring.ab. OR remote monitoring.ti.
12	7 OR 8 OR 9 OR 10 OR 11
13	1 AND 6 AND 12

Appendix 3.

Database: CINAHL Complete
Platform: EBSCOhost
Date of search: March 20, 2026
Coverage: From database inception to March 20, 2026
Limiters applied: Human, English language
No publication date restrictions were applied.

Search ID	Search strategy
S1	(MH “Heart Failure”) OR TI heart failure OR AB heart failure
S2	(MH “Self Care”) OR TI self care OR AB self care OR (MH “Self-Management”) OR TI self management OR AB self management OR (MH “Patient Participation”) OR TI patient participation OR AB patient participation OR TI symptom management OR AB symptom management
S3	(MH “Smartphone”) OR TI smartphone* OR AB smartphone* OR (MH “Mobile Applications”) OR TI mobile application* OR AB mobile application* OR TI mobile app* OR AB mobile app* OR TI mHealth OR AB mHealth OR (MH “Telehealth”) OR TI telemedicine OR AB telemedicine OR TI remote monitoring OR AB remote monitoring
S4	S1 AND S2 AND S3

Appendix 4.

Database: Scopus
Platform: Elsevier
Date of search: March 20, 2026
Coverage: From database inception to March 20, 2026
Limits applied: English language
No publication date restrictions were applied.

Search ID	Search strategy
S1	TITLE-ABS-KEY(“heart failure”)
S2	TITLE-ABS-KEY(“self care”) OR TITLE-ABS-KEY(“self management”) OR TITLE-ABS-KEY(“patient participation”) OR TITLE-ABS-KEY(“symptom management”)
S3	TITLE-ABS-KEY(smartphone*) OR TITLE-ABS-KEY(“mobile application*”) OR TITLE-ABS-KEY(“mobile app*”) OR TITLE-ABS-KEY(mHealth) OR TITLE-ABS-KEY(telemedicine) OR TITLE-ABS-KEY(“remote monitoring”)
S4	S1 AND S2 AND S3