







29TH EAHP CONGRESS 12-13-14 MARCH PERSON CENTRED PHARMACY



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This review aimed to assess the consistency and reliability of the methods used to measure medication adherence in HF patients.

Medication adherence is crucial for effective heart failure (HF) management; however, variations in methodologies may affect adherence estimates.



- ✤ A systematic review was conducted in March 2024, following PRISMA guidelines.
- Databases searched: PubMed, Embase, CINAHL, Web of Science, and Scopus
- Search terms: medication adherence, compliance, HF, and electronic health records.



- Observational studies assessing medication adherence using EHR among HF patients were included.
- Variables collected: study design, population characteristics, study dates, duration, and adherence assessment methods.
- Quality of adherence reporting was evaluated using The TEN-SPIDERS criteria.



Medications examined

Selected studies

- \checkmark Total studies identified: 1,934
- \checkmark Included: 20 (published between 1999 and 2023)
- ✓ Type: Retrospective observational studies
- ✓ Focus:
- -Four on HF with reduced ejection fraction
- -All assessed secondary adherence (none assessed primary adherence)

Observation Period: 1 year in 15 studies and 6 months in 5 studies

Methods of Adherence Assessment

Primary	Others
 Proportion of Days 	 Proportion of patients covered
Covered: 11 studies	Continuous multiple interval



Adherence Analysis

- 1. Adherence was analysed for **single medications** in 14 studies, multiple medications in two studies, and **both** in three studies.
- 2. Ten studies **dichotomised adherence** at ≥80%, while 10 analysed it as a **continuous variable**.

Methodological Considerations

Medication Possession Ratio: 2 studies

measures

- Fill-frequency •
- At least two prescriptions in a year
- Patient adherence indicator
- Continued treatment during follow-up
- Allowed switching within therapeutic classes: 4 studies
- Allowed Stockpiling: 8 studies
- Censored Hospital stays: 7 studies
- Censored death: 10 studies

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CONCLUSION AND RELEVANCE

The review highlighted significant variability in measurement techniques, observation periods, and handling of clinical factors, complicating adherence rate comparisons. A standardized approach, like TEN-SPIDERS, is recommended for future studies to ensure consistent and transparent adherence reporting.

