

Heart Failure (HF): Warfarin Therapy Patients with Atrial Fibrillation (NQF 0084)

EMeasure Name	Heart Failure (HF): Warfarin Therapy Patients with Atrial Fibrillation	EMeasure Id	Pending
Version Number	1	Set Id	Pending
Available Date	No information	Measurement Period	January 1, 20xx through December 31, 20xx
Measure Steward	American Medical Association – Physician Consortium for Performance Improvement		
Endorsed By	National Quality Forum		
Description	Percentage of all patients aged 18 and older with a diagnosis of heart failure and paroxysmal or chronic atrial fibrillation who were prescribed warfarin therapy.		
Measure scoring	Proportion		
Measure type	Process		
Rationale	Adjusted-dose warfarin is highly efficacious in preventing thromboembolism in patients with AF and should be prescribed for all patients with AF and heart failure except those with contraindications to anticoagulation.		
Clinical Recommendation Statement	Physicians should prescribe anticoagulants in patients with HF who have paroxysmal or persistent atrial fibrillation or a previous thromboembolic event (Class I, Level of Evidence: A).		
References			
Definitions			

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Please refer to the spreadsheet for this measure for detail regarding data criteria and code lists.

Population criteria

- **Initial Patient Population =**
 - AND: “Patient characteristic: birth date” (age) >= 18 years;
 - AND: “Diagnosis active: heart failure”;
 - AND: >=2 count(s) of:
 - OR: “Encounter: encounter outpatient”;
 - OR: “Encounter: encounter nursing facility”;
- **Denominator =**
 - AND: All patients in the initial patient population;
 - AND: “Diagnosis active: atrial fibrillation”;

- **Numerator =**
 - AND:
 - OR: "Medication active: warfarin therapy";
 - OR: "Medication order: warfarin therapy";
- **Exclusions =**
 - OR: "Medication allergy: warfarin therapy";
 - OR: "Medication adverse event: warfarin therapy";
 - OR: "Medication intolerance: warfarin therapy";
 - OR: "Medication not done: medical reason";
 - OR: "Medication not done: patient reason";
 - OR: "Medication not done: system reason";
 - OR: "Diagnosis active: anemias and bleeding disorders";
 - OR: "Diagnosis active: esophageal and GI bleed";
 - OR: "Diagnosis active: intracranial hemorrhage";
 - OR: "Diagnosis active: leukemias/myeloproliferative disorders";
 - OR: "Diagnosis active: hematuria";
 - OR: "Diagnosis active: hemoptysis";
 - OR: "Diagnosis active: hemorrhage";
 - OR: "Diagnosis active: liver disorders";

Data criteria (QDS Data Elements)

- **Initial Patient Population =**
 - "Patient characteristic: birth date" using "birth date code list" before the beginning of the "measurement period";
 - "Diagnosis active: heart failure" using "heart failure code list grouping" before or simultaneously to "Encounter: encounter outpatient" OR "Encounter: encounter nursing facility";
 - "Encounter: encounter outpatient" using "encounter outpatient code list" during the "measurement period";
 - "Encounter: encounter nursing facility" using "encounter nursing facility code list" during the "measurement period";
- **Denominator =**
 - All patients in the initial patient population;
 - "Diagnosis active: atrial fibrillation" using "atrial fibrillation code list grouping" before or simultaneously to the "measurement period";
- **Numerator =**
 - "Medication active: warfarin therapy" using "warfarin therapy code list" during the "measurement period";
 - "Medication order: warfarin therapy" using "warfarin therapy code list" during the "measurement period";
- **Exclusions =**

- “Medication allergy: warfarin therapy” using “warfarin therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Medication adverse event: warfarin therapy” using “warfarin therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Medication intolerance: warfarin therapy” using “warfarin therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Medication not done: medical reason” using “medical reason code list” for “Medication active: warfarin therapy” OR “Medication order: warfarin therapy”;
- “Medication not done: patient reason” using “patient reason code list” for “Medication active: warfarin therapy” OR “Medication order: warfarin therapy”;
- “Medication not done: system reason” using “system reason code list” for “Medication active: warfarin therapy” OR “Medication order: warfarin therapy”;
- “Diagnosis active: anemias and bleeding disorders” using “anemias and bleeding disorders code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: esophageal and GI bleed” using “esophageal and GI bleed code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: intracranial hemorrhage” using “intracranial hemorrhage code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: leukemias/myeloproliferative disorders” using “leukemias/myeloproliferative disorders code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: hematuria” using “hematuria code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: hemoptysis” using “hemoptysis code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: hemorrhage” using “hemorrhage code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
- “Diagnosis active: liver disorders” using “liver disorders code list grouping” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;

Summary Calculation

Calculation is generic to all measures:

- Calculate the final denominator by adding all that meet denominator criteria.
- Subtract from the final denominator all that do not meet numerator criteria yet also meet exclusion criteria. Note some measures do not have exclusion criteria.
- The performance calculation is the number meeting numerator criteria divided by the final denominator.

- For measures with multiple patient populations, repeat this process for each patient population and report each result separately.
 - For measures with multiple numerators, calculate each numerator separately within each population using the paired exclusion.
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Measure set	CLINICAL QUALITY MEASURE SET 2011-2012
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