

# MEDICAL POLICY STATEMENT Ohio Medicaid

Policy Name & Number	Date Effective			
Fraction Flow Reserve from computer tomography (FFRct)-	02/01/2024			
OH MCD-MM-1046				
Policy Type				
MEDICAL				

Medical Policy Statement prepared by CareSource and its affiliates are derived from literature based on and supported by clinical guidelines, nationally recognized utilization and technology assessment guidelines, other medical management industry standards, and published MCO clinical policy guidelines. Medically necessary services include, but are not limited to, those health care services or supplies that are proper and necessary for the diagnosis or treatment of disease, illness, or injury and without which the patient can be expected to suffer prolonged, increased or new morbidity, impairment of function, dysfunction of a body organ or part, or significant pain and discomfort. These services meet the standards of good medical practice in the local area, are the lowest cost alternative, and are not provided mainly for the convenience of the member or provider. Medically necessary services also include those services defined in any Evidence of Coverage documents, Medical Policy Statements, Provider Manuals, Member Handbooks, and/or other policies and procedures.

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## A. Subject

## Fraction Flow Reserve from Computer Tomography (FFRct)

## B. Background

Heart disease, with coronary artery disease (CAD) being the most common, is the leading cause of death for men and women. The traditional test in management of coronary artery stenosis is a procedure where the fractional flow reserve measures the blood pressure to determine adequate blood flow or blockage during an invasive coronary angiography.

A noninvasive alternative for stable symptomatic members with CAD is Heartflow Fraction Flow Reserve from Computer Tomography (FFRct), in which a digital 3-D model of the heart arteries is created to assist in determining restricted blood flow. Heartflow FFRct is intended to be used in conjunction with clinical history, symptoms, diagnostic test, and the clinician's professional judgement.

#### C. Definitions

- **FFRct** A mathematically derived quantity, computed from simulated pressure, velocity and blood flow information that was obtained from a 3D computer model derived from a coronary CT image.
- **Heartflow FFRct** Post-processing software for the clinical quantitative and qualitative analysis of previously acquired computed tomography.

#### D. Policy

- I. Prior authorization is required.
- II. Prior authorization must include the following:
  - A. a prescription
  - B. documentation supporting a clinically stable symptomatic member with coronary artery disease. For example, a member with stable angina pectoris would be a candidate for this procedure; whereas a member with unstable angina would not be a candidate for this procedure.
- III. Procedure limitations

The safety and effectiveness of FFRct has not been evaluated for the following populations:

- A. suspicion of acute coronary syndrome (where acute myocardial infarction or unstable angina have not been ruled out)
- B. recent prior myocardial infarction within 30 days
- C. complex congenital heart disease
- D. prior coronary artery bypass graft (CABG) surgery
- E. patients with a Body Mass Index >35
- F. patients who require emergent procedures or have any evidence of ongoing



or active clinical instability, including acute chest pain (sudden onset), cardiogenic shock, unstable blood pressure with systolic blood pressure <90 mmHg, severe congestive heart failure (New York Heart Association [NYHA] III or IV) or acute pulmonary edema.

- E. Conditions of Coverage NA
- F. Related Policies/Rules NA

#### G. Review/Revision History

	DATE	ACTION
Date Issued	01/06/2021	
Date Revised	09/28/2022	Updated references; No changes
	09/27/2023	Updated references; Approved at Committee.
Date Effective	02/01/2024	
Date Archived		

#### H. References

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- 8. Knuuti J. 2019 ESC guidelines for the diagnosis and management of chronic coronary syndromes. *European Heart Journal*. 2020;41:407-477.
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Approved ODM 10/26/2023

The MEDICAL Policy Statement detailed above has received due consideration as defined in the MEDICAL Policy Statement Policy and is approved.