

MEDICAL POLICY STATEMENT Marketplace

Policy Name & Number

Praction Flow Reserve from computer tomography
(FFRct)- MP-MM-1356

Policy Type

MEDICAL

Date Effective

IN, GA, WV, KY: 01/03/2023-12/31/2023
OH: 02/01/2023-12/31/2023

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This policy applies to the following Marketplace(s):					
⊠ Georgia	⊠ Indiana	⊠ Kentucky	⊠ Ohio	⊠ West Virginia	

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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. FFRct technology may be considered reasonable and necessary in the management of patients under the following conditions:
 - A. Symptomatic, stable ischemic heart disease (SIHD);
 - 1. 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.

II. Procedure limitations

- A. The safety and effectiveness of FFRct has not been evaluated for the following populations:
 - 1. Suspicion of acute coronary syndrome (where acute myocardial infarction or
 - 2. unstable angina have not been ruled out);
 - 3. Recent prior myocardial infarction within 30 days;
 - 4. Complex congenital heart disease;
 - 5. Prior coronary artery bypass graft (CABG) surgery;
 - 6. Patients with a Body Mass Index >35; and
 - 7. 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.



III. Conditions of Coverage

NA

IV. Related Policies/Rules

NA

V. Review/Revision History

	DATE	ACTION
Date Issued	01/06/2021	
Date Revised	10/12/2022	Updated references
Date Effective	GA, IN, KY, WV: Effective Date 01/01/2023 OH: 02/01/2023	
Date Archived	OH: 12/31/2023	This Policy is no longer active and has been archived. Please note that there could be other Policies that may have some of the same rules incorporated and CareSource reserves the right to follow CMS/State/NCCI guidelines without a formal documented Policy.

VI. References

- 1. Budde R, Nous F, Roest S, et al. Non-Invasive Functional Coronary Artery Evaluation by CT-Derived Fractional Flow Reserve (FFRct) in Heart Transplant Patients. J Heart Lung Transplant. 2020;39(4S):S62.
- 2. Centers for Disease Control. (2020, June 22). Heart Disease Facts. Retrieved September 9, 2022 from www.cdc.gov.
- 3. Food and Drug Administration. (n.d.). DeNovo Classification Request for FFRctv. 1.4. Retrieved September 9, 2022 from www.accessdata.fda.gov.
- 4. ECRI. (2019, March 15). FFRct Software (HeartFlow, Inc.) for Evaluating Coronary Artery Disease. September 9, 2022 from www.ecri.org.
- 5. Hayes Inc. (2019, September 24). Noninvasive Computed Fractional Flow Reserve from Computed Tomography for Coronary Artery Disease. Retrieved September 9, 2022 from www.hayesinc.com.
- 6. Heartflow. (n.d.). Heartflow. Retrieved September 9, 2022 from www.heartflow.com.
- 7. Knuuti J. 2019 ESC guidelines for the diagnosis and management of chronic coronary syndromes. European Heart Journal. 2020;41:407-477.
- 8. MCG. 26th ed. (2022). ACG A-0001 Cardiac Catheterization and Angiography. Retrieved September 9, 2022 from www. careweb.careguidelines.com.
- Nous F, Budde RPJ, Fairbairn TA, et al. Temporal changes in FFRCT-Guided Management of Coronary Artery Disease - Lessons from the ADVANCE Registry. J Cardiovasc Comput Tomogr. 2020.
- 10. Pontone G, Guaricci Al, Palmer SC, et al. Diagnostic performance of non-invasive imaging for stable coronary artery disease: A meta-analysis. Int J Cardiol. 2020;300:276-281.



Georgia

1. Effective: 01/01/2023

II. Indiana

1. Effective: 01/01/2023

III. Kentucky

A. Effective: 01/01/2023

IV. Ohio

1. Effective: 02/01/2023

V. West Virginia

A. Effective: 01/01/2023

Independent medical review - 12/2020