

Quality ID #360: Optimizing Patient Exposure to Ionizing Radiation: Count of Potential High Dose Radiation Imaging Studies: Computed Tomography (CT) and Cardiac Nuclear Medicine Studies

2026 COLLECTION TYPE:

MERIT-BASED INCENTIVE PAYMENT SYSTEM (MIPS) CLINICAL QUALITY MEASURE (CQM)

MEASURE TYPE:

Process – High Priority

DESCRIPTION:

Percentage of computed tomography (CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) reports for all patients, regardless of age, that document a count of known previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies that the patient has received in the 12-month period prior to the current study.

INSTRUCTIONS:

Reporting Frequency:

This measure is to be submitted each time a denominator eligible procedure as defined in the denominator criteria is performed.

Intent and Clinical Applicability:

This measure is intended to reflect the quality for patients who undergo high dose radiation imaging studies. There is no diagnosis associated with this measure. This measure may be submitted by Merit-based Incentive Payment System (MIPS) eligible clinicians who perform the quality actions as defined by the numerator based on the services provided and the measure-specific denominator coding.

Measure Strata and Performance Rates:

This measure contains one strata defined by a single submission criteria.

This measure produces a single performance rate.

Implementation Considerations:

For the purposes of MIPS implementation, this procedure measure is submitted each time a procedure is performed during the performance period.

Telehealth:

NOT TELEHEALTH ELIGIBLE: This measure is not appropriate for nor applicable to the telehealth setting. This measure is procedure based and therefore doesn't allow for the denominator criteria to be conducted via telehealth. It would be appropriate to remove these patients from the denominator eligible patient population. Telehealth eligibility is at the measure level for inclusion within the denominator eligible patient population and based on the measure specification definitions which are independent of changes to coding and/or billing practices.

Measure Submission:

The quality data codes listed do not need to be submitted by MIPS eligible clinicians, groups, or third party intermediaries that utilize this collection type for submissions; however, these codes may be submitted for those third party intermediaries that utilize Medicare Part B claims data. The coding provided to identify the measure criteria: Denominator or Numerator, may be an example of coding that could be used to identify patients that meet the intent of this clinical topic. When implementing this measure, please refer to the 'Reference Coding' section to determine if other codes or code languages that meet the intent of the criteria may also be used within the medical record to identify and/or assess patients. For more information regarding Application Programming Interface (API), please refer to the Quality Payment Program (QPP) website.

DENOMINATOR:

All final reports for patients, regardless of age, undergoing a CT or cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) procedure.

DENOMINATOR NOTE:

**Signifies that this CPT Category I code is a non-covered service under the Medicare Part B Physician Fee Schedule (PFS). These non-covered services should be counted in the denominator population for MIPS CQMs.*

Denominator Criteria (Eligible Cases):

All patients regardless of age

AND

Patient procedure during the performance period (CPT): 70450, 70460, 70470, 70471, 70473, 70480, 70481, 70482, 70486, 70487, 70488, 70490, 70491, 70492, 70496, 70498, 71250, 71260, 71270, 71271, 71275, 72125, 72126, 72127, 72128, 72129, 72130, 72131, 72132, 72133, 72191, 72192, 72193, 72194, 73200, 73201, 73202, 73206, 73700, 73701, 73702, 73706, 74150, 74160, 74170, 74174, 74175, 74176, 74177, 74178, 74261, 74262, 74263*, 75571, 75572, 75573, 75574, 75635, 76380, 76497, 77011, 77012, 77013, 77078, 78072, 78429, 78430, 78431, 78433, 78451, 78452, 78453, 78454, 78466, 78468, 78469, 78491, 78492

NUMERATOR:

CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) reports that document a count of known previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies that the patient has received in the 12-month period prior to the current study.

Numerator Instructions:

Physicians will need to document in the final report all known previous CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies the patient has received in the 12-month period prior to the current study as a count that includes studies from the Radiology Information System, patient-provided radiological history or other source.

Numerator Options:**Performance Met:**

Count of previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies documented in the 12-month period prior to the current study (G9321)

OR**Performance Not Met:**

Count of previous CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies not documented in the 12-month period prior to the current study, reason not given (G9322)

RATIONALE:

Increased CT use has resulted in growing rates of repeat or multiple imaging. (Griffey RT, Sodickson A, 2009) Physicians may lack important information that could inform their decisions in ordering imaging exams that use ionizing radiation. Ordering physicians may not have access to patients' medical imaging or radiation dose history. Due to insufficient information, physicians may unnecessarily order imaging procedures that have already been conducted. (US Food and Drug Administration, 2010)

CLINICAL RECOMMENDATION STATEMENTS:

Radiologists, medical physicists, radiologic technologists, and all supervising physicians have a responsibility to minimize radiation dose to individual patients, to staff, and to society as a whole, while maintaining the necessary diagnostic image quality. (Gunderman, et al., 2008)

REFERENCES:

Gunderman, R. B., Weinreb, J. C., Arl Van Moore, J., Hillman, B. J., Neiman, H. L., & Thrall, J. H. (2008). Radiology Practice Models: The 2008 ACR Forum. *Journal of the American College of Radiology*, 5(9), 960-964. doi: 10.1016/j.jacr.2008.05.015

American College of Radiology (ACR). Practice guideline for the performance of pediatric computed tomography (CT). Reston (VA): American College of Radiology (ACR); 2008.

American College of Radiology (ACR). Practice guideline for the performance of computed tomography (CT) of the abdomen and computed tomography (CT) of the pelvis. Reston (VA): American College of Radiology (ACR); 2006.

American College of Radiology (ACR). ACR technical standard for diagnostic medical physics performance monitoring of computed tomography (CT) equipment. Reston, VA: American College of Radiology (ACR); 2007.

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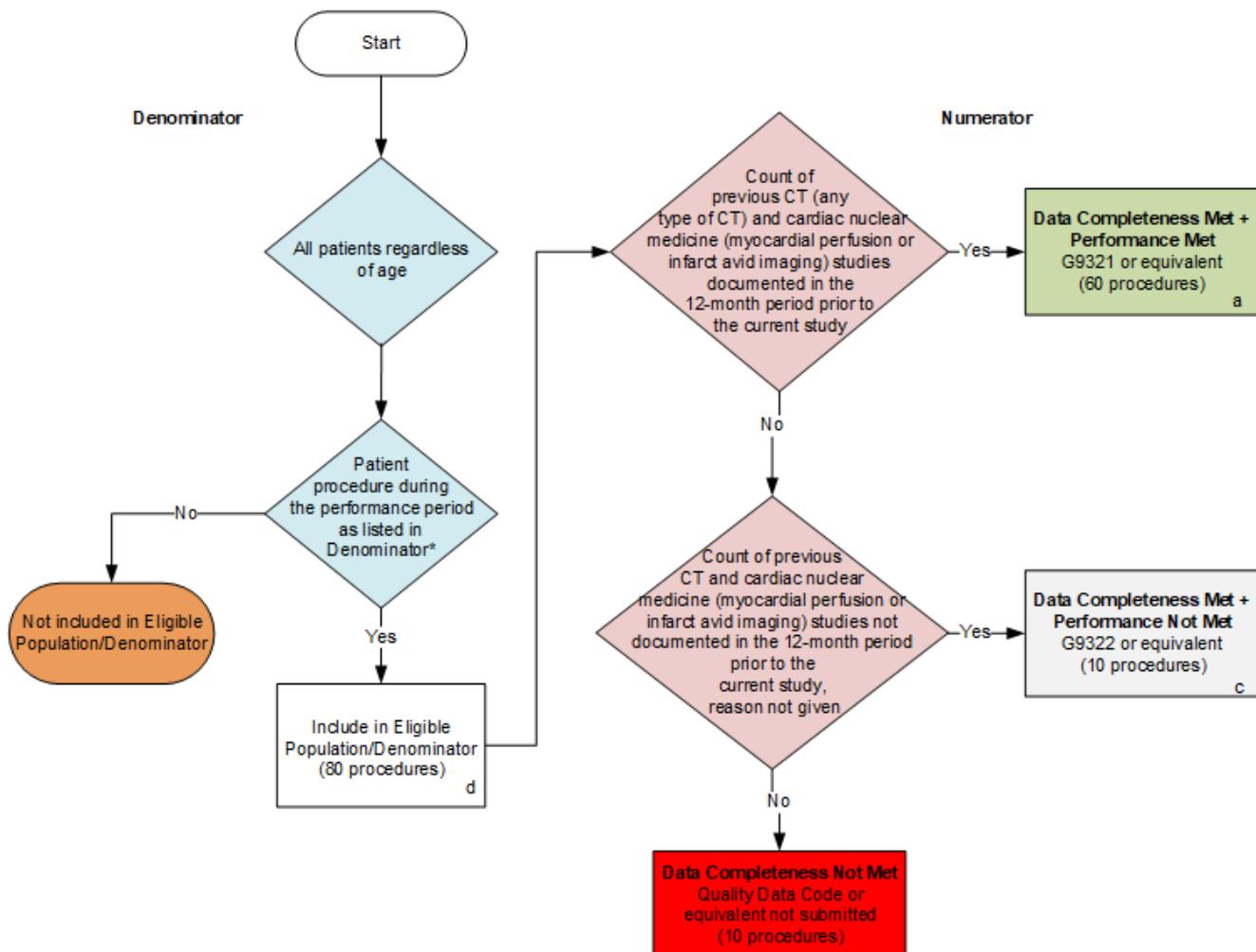
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**2026 Clinical Quality Measure Flow for Quality ID #360:
Optimizing Patient Exposure to Ionizing Radiation: Count of Potential High Dose Radiation Imaging Studies: Computed Tomography (CT) and Cardiac Nuclear Medicine Studies**

Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.



SAMPLE CALCULATIONS

Data Completeness=

$$\frac{\text{Performance Met (a=60 procedures)} + \text{Performance Not Met (c=10 procedures)}}{\text{Eligible Population / Denominator (d=80 procedures)}} = \frac{70 \text{ procedures}}{80 \text{ procedures}} = 87.50\%$$

Performance Rate=

$$\frac{\text{Performance Met (a=60 procedures)}}{\text{Data Completeness Numerator (70 procedures)}} = \frac{60 \text{ procedures}}{70 \text{ procedures}} = 85.71\%$$

*See the posted measure specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Procedure

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2026 Clinical Quality Measure Flow Narrative for Quality ID #360:
Optimizing Patient Exposure to Ionizing Radiation: Count of Potential High Dose Radiation Imaging Studies: Computed Tomography (CT) and Cardiac Nuclear Medicine Studies

Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.

1. Start with Denominator
2. *All patients regardless of age.*
3. Check *Patient procedure during the performance period as listed in Denominator**:
 - a. If *Patient procedure during the performance period as listed in Denominator** equals No, do not include in *Eligible Population/Denominator*. Stop processing.
 - b. If *Patient procedure during the performance period as listed in Denominator** equals Yes, include in *Eligible Population/Denominator*.
4. Denominator Population:
 - Denominator Population is all Eligible Procedures in the Denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 80 procedures in the Sample Calculation.
5. Start Numerator
6. Check *Count of previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies documented in the 12-month period prior to the current study*:
 - a. If *Count of previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies documented in the 12-month period prior to the current study* equals Yes, include in *Data Completeness Met and Performance Met*.
 - *Data Completeness Met and Performance Met* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 60 procedures in the Sample Calculation.
 - b. If *Count of previous CT (any type of CT) and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies documented in the 12-month period prior to the current study* equals No, proceed to check *Count of previous CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies not documented in the 12-month period prior to the current study, reason not given*.
7. Check *Count of previous CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies not documented in the 12-month period prior to the current study, reason not given*:
 - a. If *Count of previous CT and cardiac nuclear medicine (myocardial perfusion or infarct avid imaging) studies not documented in the 12-month period prior to the current study, reason not given* equals Yes, include in *Data Completeness Met and Performance Not Met*.
 - *Data Completeness Met and Performance Not Met* letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 10 procedures in the Sample Calculation.
 - b. If *Count of previous CT and cardiac nuclear medicine (myocardial perfusion or infarct imaging) studies not documented in the 12-month period prior to the current study, reason not given* equals No, proceed to check *Data Completeness Not Met*.

8. Check *Data Completeness Not Met*:

- If *Data Completeness Not Met*, the Quality Data Code or equivalent was not submitted. 10 procedures have been subtracted from the Data Completeness Numerator in Sample Calculation.

Sample Calculations

Data Completeness equals Performance Met (a equals 60 procedures) plus Performance Not Met (c equals 10 procedures) divided by Eligible Population/Denominator (d equals 80 procedures). All equals 70 procedures divided by 80 procedures. All equals 87.50 percent.

Performance Rate equals Performance Met (a equals 60 procedures) divided by Data Completeness Numerator (70 procedures). All equals 60 procedures divided by 70 procedures. All equals 85.71 percent.

*See the posted measure specification for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Procedure

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