

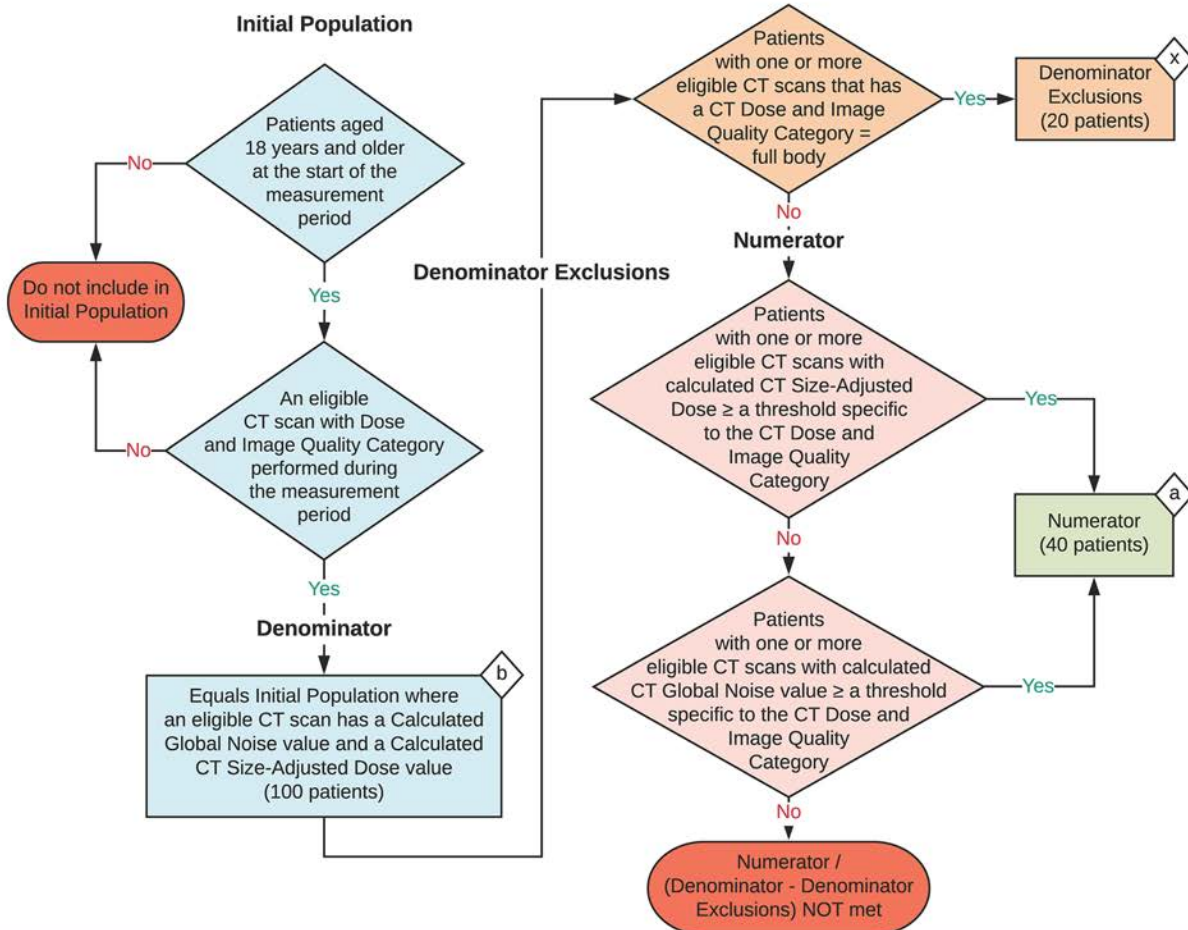
**2025 eCQM Flow**  
**eCQM Identifier: CMS1056v2**  
**CBE Number: 3633e**

**NOTE:** This flow diagram represents an overview of population criteria requirements. Refer to the eCQM specification for a complete list of data elements included in this measure and required for submission.

**Excessive Radiation Dose or Inadequate Image Quality for Diagnostic Computed Tomography (CT) in Adults (Clinician Level)**

This measure provides a standardized method for monitoring the performance of diagnostic CT to discourage unnecessarily high radiation doses, a risk factor for cancer, while preserving image quality. It is expressed as a percentage of patients with CT exams that are out-of-range based on having either excessive radiation dose or inadequate image quality relative to evidence-based thresholds based on the clinical indication for the exam. All diagnostic CT exams of specified anatomic sites performed in inpatient, outpatient and ambulatory care settings are eligible. This measure is not telehealth eligible. This eCQM requires the use of additional software to access primary data elements stored within radiology electronic health records and translate them into data elements that can be ingested by this eCQM. Additional details are included in the Guidance field.

This eCQM is a patient-based measure



**Sample Calculation**

**Performance Rate =**

$$\frac{\text{Numerator (a = 40 patients)}}{\text{Denominator (b = 100 patients) - Denominator Exclusions (x = 20 patients)}} = \frac{40}{80} = 50\%$$

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**eCQM Flow Narrative**

**Initial Population**

Start by identifying the Initial Population, which includes patients aged 18 years and older at the start of the measurement period that have an eligible CT scan with Dose and Image Quality Category performed during the measurement period.

**Denominator**

The Denominator equals the Initial Population where an eligible CT scan has a Calculated Global Noise value and a Calculated CT Size-Adjusted Dose value. In the sample calculation provided at the end of the eCQM flow, the Denominator is equal to 100 patients.

**Denominator Exclusions**

The Denominator Exclusions criteria identify a subset of the Denominator population by excluding patients with one or more eligible CT scans that has a CT Dose and Image Quality Category equal to full body. In the sample calculation provided at the end of the eCQM flow, the Denominator Exclusions are equal to 20 patients.

**Numerator**

The Numerator criteria identify a subset of the Denominator population by including patients with one or more eligible CT scans with calculated CT Size-Adjusted Dose greater than or equal to a threshold specific to the CT Dose and Image Quality Category, or one or more eligible CT scans with calculated CT Global Noise value greater than or equal to a threshold specific to the CT Dose and Image Quality Category. In the sample calculation provided at the end of the eCQM flow, the Numerator is equal to 40 patients.

**Sample Calculation**

A sample calculation is provided to help determine how the measure performance rate is derived. The measure performance rate is calculated by dividing the Numerator (total equals 40 patients) by the

difference between the Denominator (total equals 100 patients) and the Denominator Exclusions (total equals 20 patients), which is equal to a score of 50 percent.