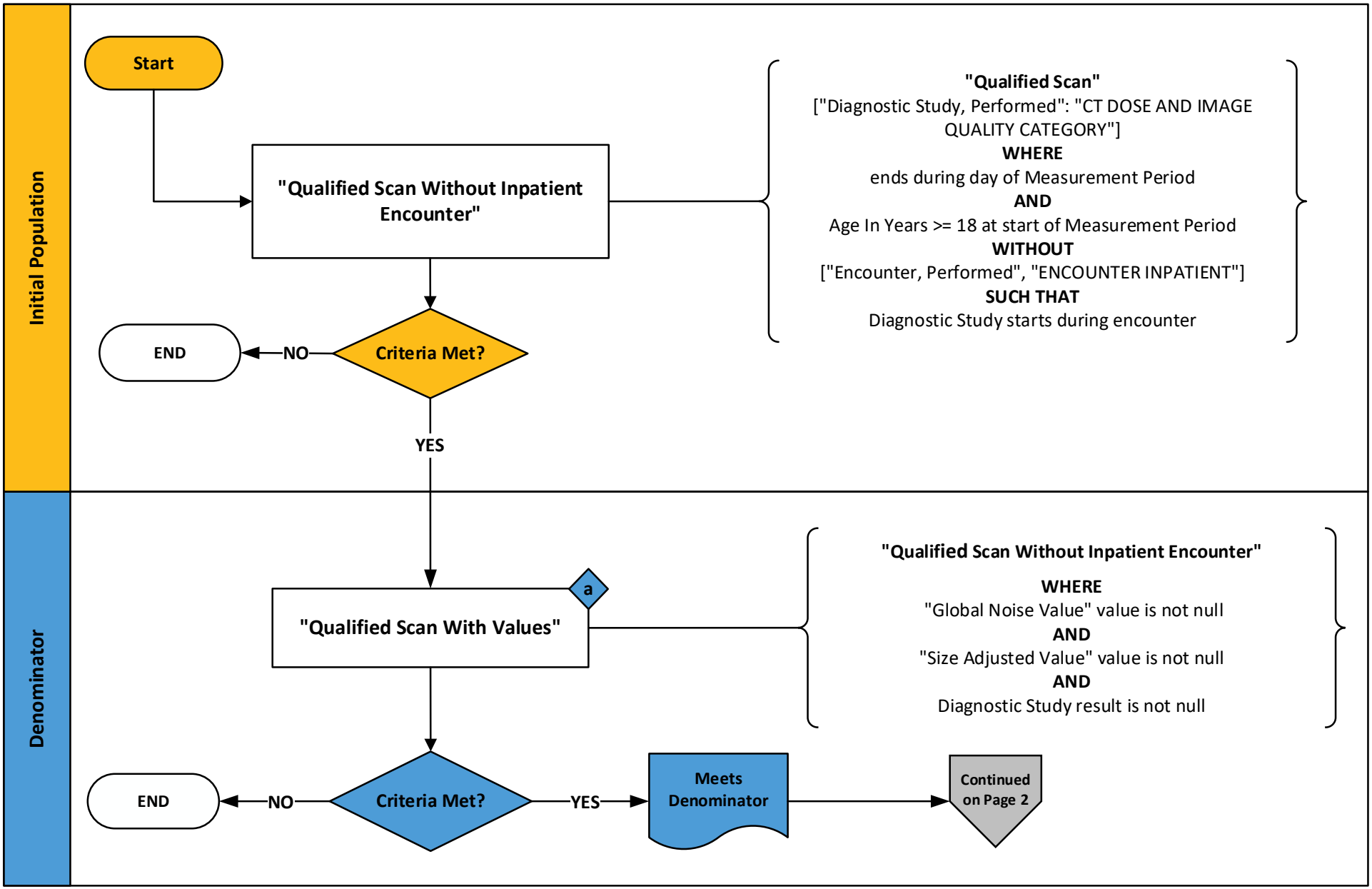
2027 eCQM Flow – **CMS1206v4: Excessive Radiation Dose or Inadequate Image Quality for Diagnostic Computed Tomography (CT) in Adults (Facility OQR)*** CBE# 3663e

**This flow diagram represents an overview of population criteria requirements. Please refer to the eCQM measure specification for a complete list of definitions, direct reference codes, data or timing elements included in this measure and required for submission.*

Measure Flow Diagram



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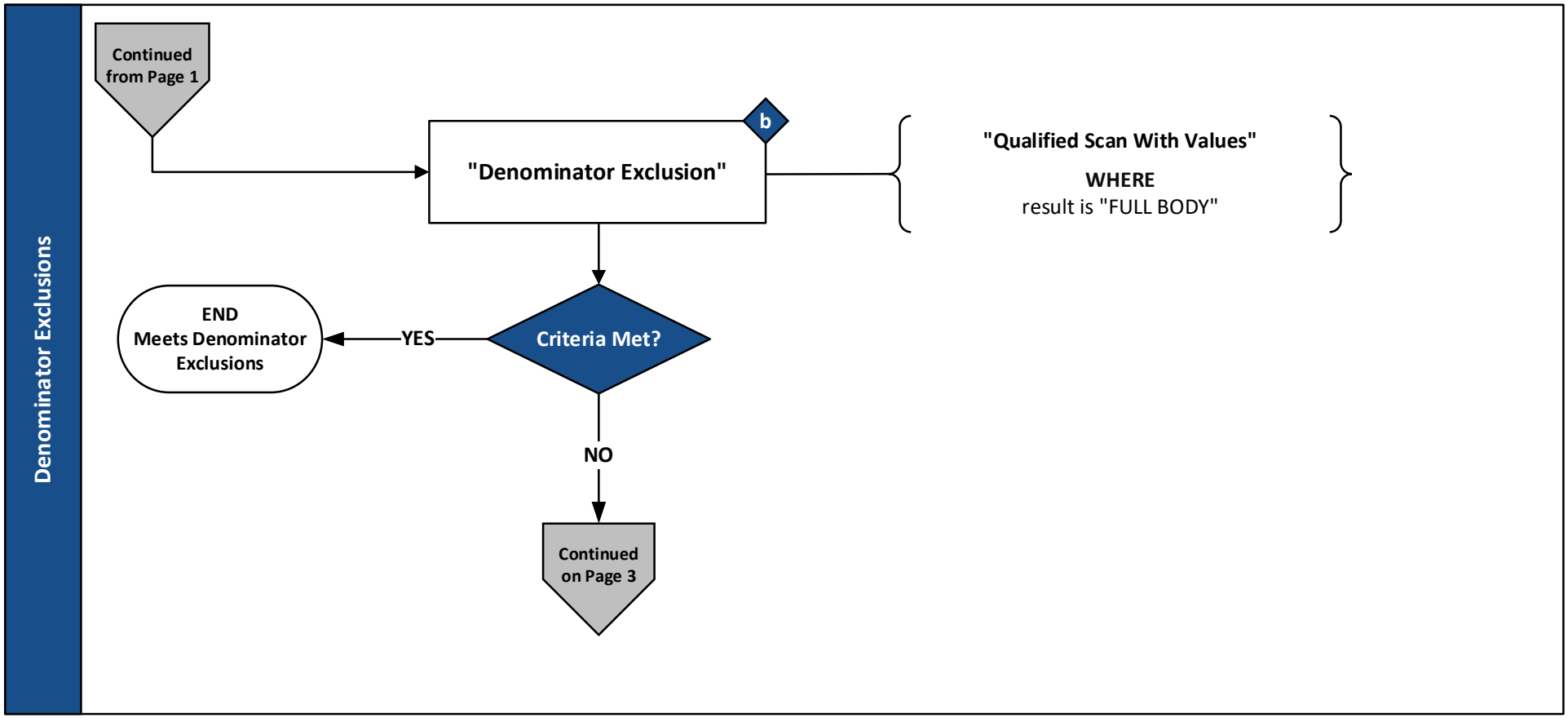
Measure Flow Diagram (Continued)



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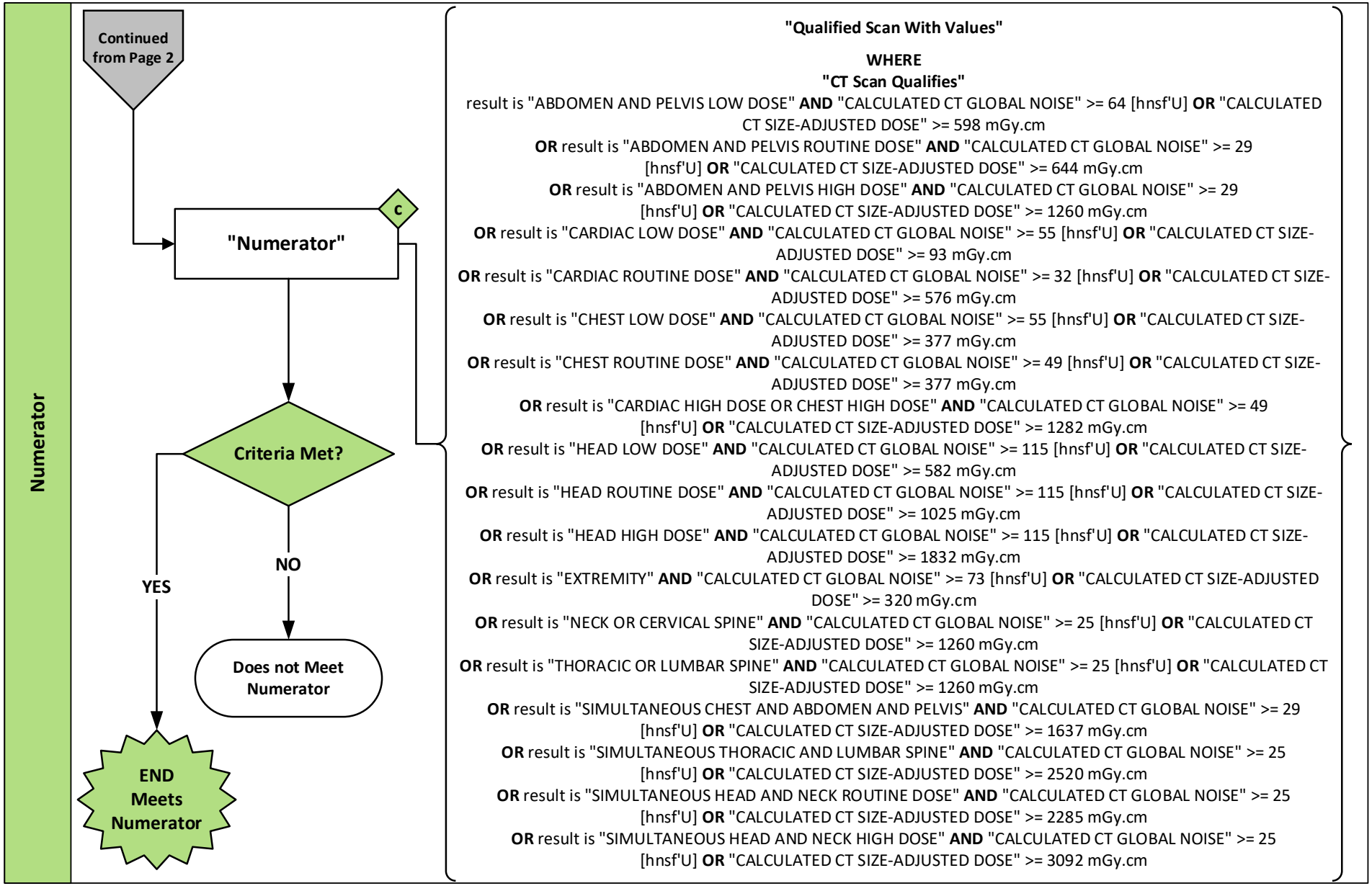

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Measure Flow Diagram (Continued)

Sample Calculation

$$\text{Performance Rate} = \frac{\text{Numerator (c = 2)}}{\text{Denominator (a = 10)} - \text{Denominator Exclusions (b = 1)}} = 22\%$$

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Measure Flow Narrative

The measure flow diagram on the preceding pages illustrates the steps to determine the population criteria for this measure.

Measure Description	This measure is an episode of care measure that provides a standardized method for monitoring the performance of diagnostic computed tomography (CT) to discourage unnecessarily high radiation doses, a risk factor for cancer, while preserving image quality. This measure is expressed as a percentage of 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 hospital non-inpatient care settings (including emergency settings) are 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.
Initial Population	Start by identifying the initial population criteria as all CT scans in adults aged 18 years and older at the start of the measurement period that have a CT Dose and Image Quality Category and were not performed in a hospital inpatient setting, that end during the measurement period, and not part of an inpatient hospitalization
Denominator	The denominator criteria identify a subset of the initial population by including CT scans with a CT Dose and Image Quality Category, a Calculated Global Noise value, and a Calculated CT Size-Adjusted Dose value
Denominator Exclusions	The denominator exclusions criteria identify a subset of the denominator population by excluding CT Scans that have a CT Dose and Image Quality Category equal to full body

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Measure Flow Narrative (Continued)

The measure flow diagram on the preceding pages illustrates the steps to determine the population criteria for this measure.

Numerator	The numerator criteria identify a subset of the denominator population by including CT Scans with a Calculated CT Size-Adjusted Dose greater than or equal to a threshold specific to the CT Dose and Image Quality Category, or Calculated CT Global Noise value greater than or equal to a threshold specific to the CT Dose and Image Quality Category