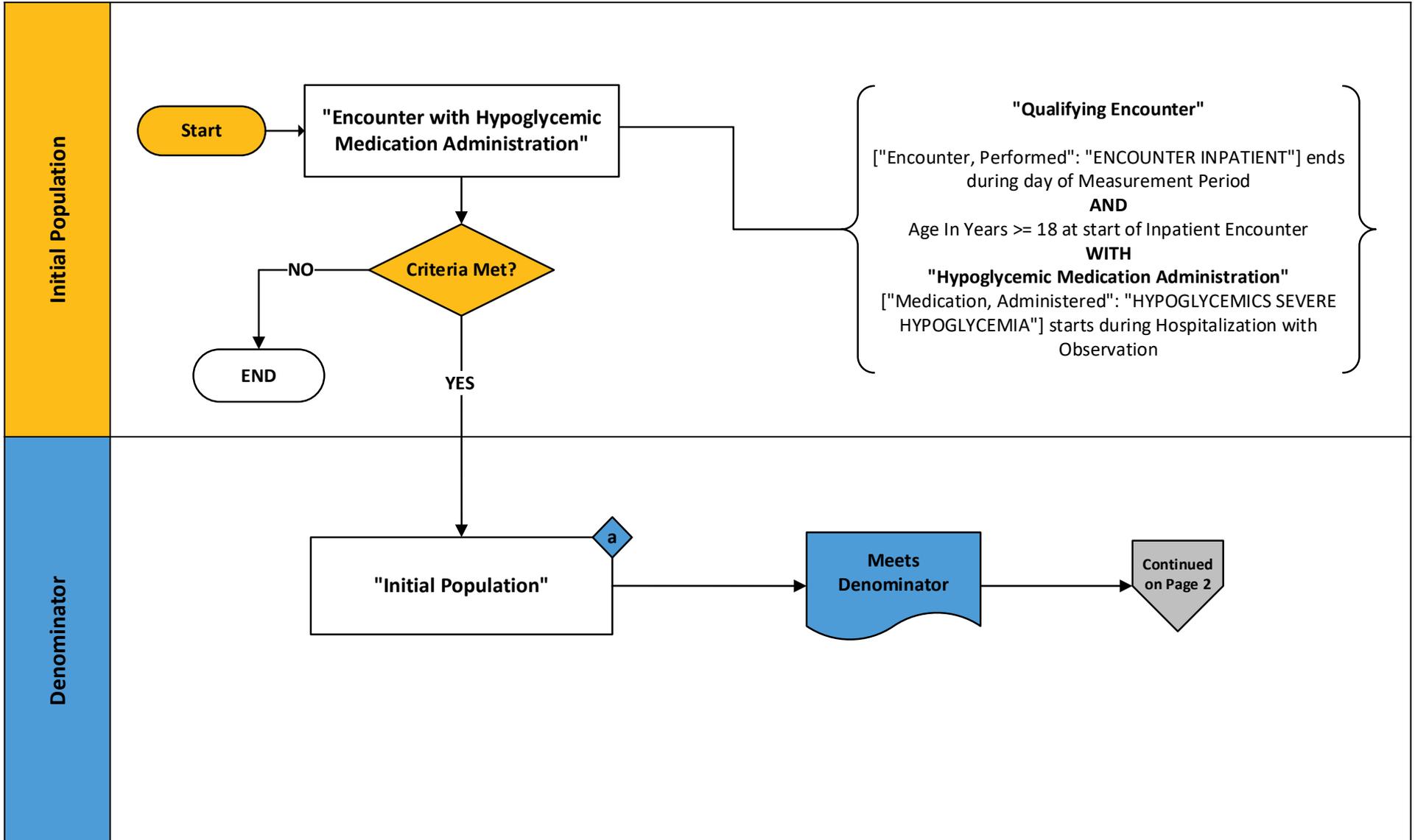# 2024 eCQM Flow – **CMS816v3: Hospital Harm - Severe Hypoglycemia (HH-01)*** NQF# 3503e

*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

Initial Population

Start → "Encounter with Hypoglycemic Medication Administration" → Criteria Met?

NO → END

YES ↓

"Qualifying Encounter"

["Encounter, Performed": "ENCOUNTER INPATIENT"] ends during day of Measurement Period
AND
Age In Years >= 18 at start of Inpatient Encounter
WITH
"Hypoglycemic Medication Administration"
["Medication, Administered": "HYPOGLYCEMICS SEVERE HYPOGLYCEMIA"] starts during Hospitalization with Observation

Denominator

"Initial Population" (a) → Meets Denominator → Continued on Page 2

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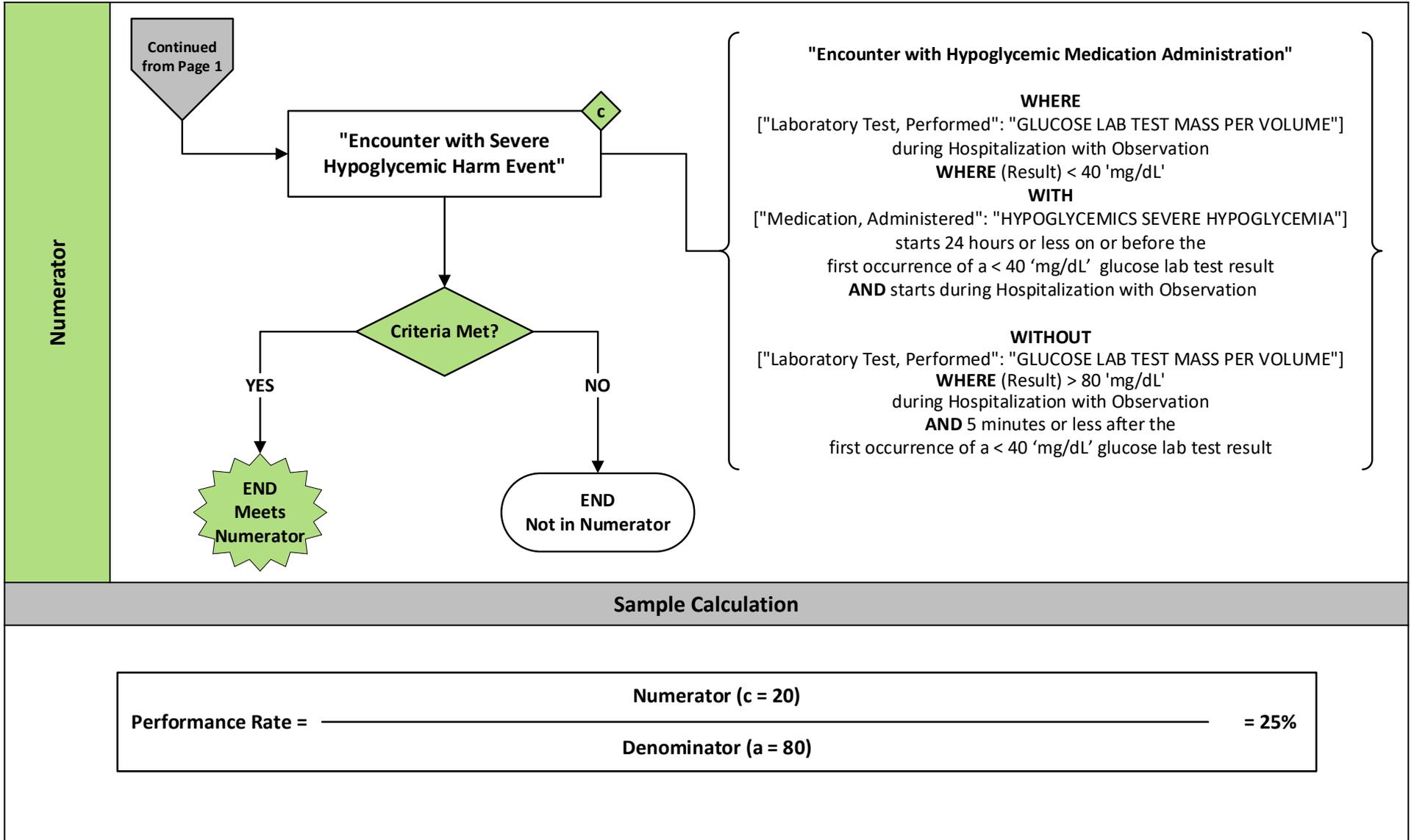
Measure Flow Diagram (Continued)

Numerator

Continued from Page 1

"Encounter with Severe Hypoglycemic Harm Event" — c

Criteria Met?

YES → **END Meets Numerator**

NO → **END Not in Numerator**

"Encounter with Hypoglycemic Medication Administration"

WHERE
["Laboratory Test, Performed": "GLUCOSE LAB TEST MASS PER VOLUME"]
during Hospitalization with Observation
WHERE (Result) < 40 'mg/dL'
WITH
["Medication, Administered": "HYPOGLYCEMICS SEVERE HYPOGLYCEMIA"]
starts 24 hours or less on or before the
first occurrence of a < 40 'mg/dL' glucose lab test result
AND starts during Hospitalization with Observation

WITHOUT
["Laboratory Test, Performed": "GLUCOSE LAB TEST MASS PER VOLUME"]
WHERE (Result) > 80 'mg/dL'
during Hospitalization with Observation
AND 5 minutes or less after the
first occurrence of a < 40 'mg/dL' glucose lab test result

Sample Calculation

$$\text{Performance Rate} = \frac{\text{Numerator } (c = 20)}{\text{Denominator } (a = 80)} = 25\%$$

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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 assesses the percentage of inpatient hospitalizations for patients age 18 and older who were administered at least one hypoglycemic medication during the encounter, who suffer the harm of a severe hypoglycemic event during the encounter
Initial Population	Start by identifying the initial population criteria as inpatient hospitalizations that end during the measurement period for patients age 18 and older at the start of an inpatient hospitalization and at least one hypoglycemic medication was administered during the encounter The measure includes instances of administration of hypoglycemic medications in the emergency department or in observation status at the start of an inpatient hospitalization when assessing inclusion of encounters in the measure denominator
Denominator	The denominator criteria is equal to the initial population

Numerator	Inpatient hospitalizations where a severe hypoglycemic event occurred during the encounter, which is:
	1. A glucose result less than 40 mg/dL
	    AND
	2. A hypoglycemic medication administered within 24 hours prior to the start of the severe hypoglycemic event (i.e., the glucose result less than 40 mg/dL)
	    AND
	3. No subsequent repeat test for glucose with a result greater than 80 mg/dL within five minutes of the start of the initial glucose test with result less than 40 mg/dL
	
	Only one qualifying severe hypoglycemic event is counted in the numerator, and only one severe hypoglycemic event is counted per encounter. The 24-hour and 5-minute timeframes are based on the time the glucose was drawn, as this reflects the time the patient was experiencing that specific glucose level.