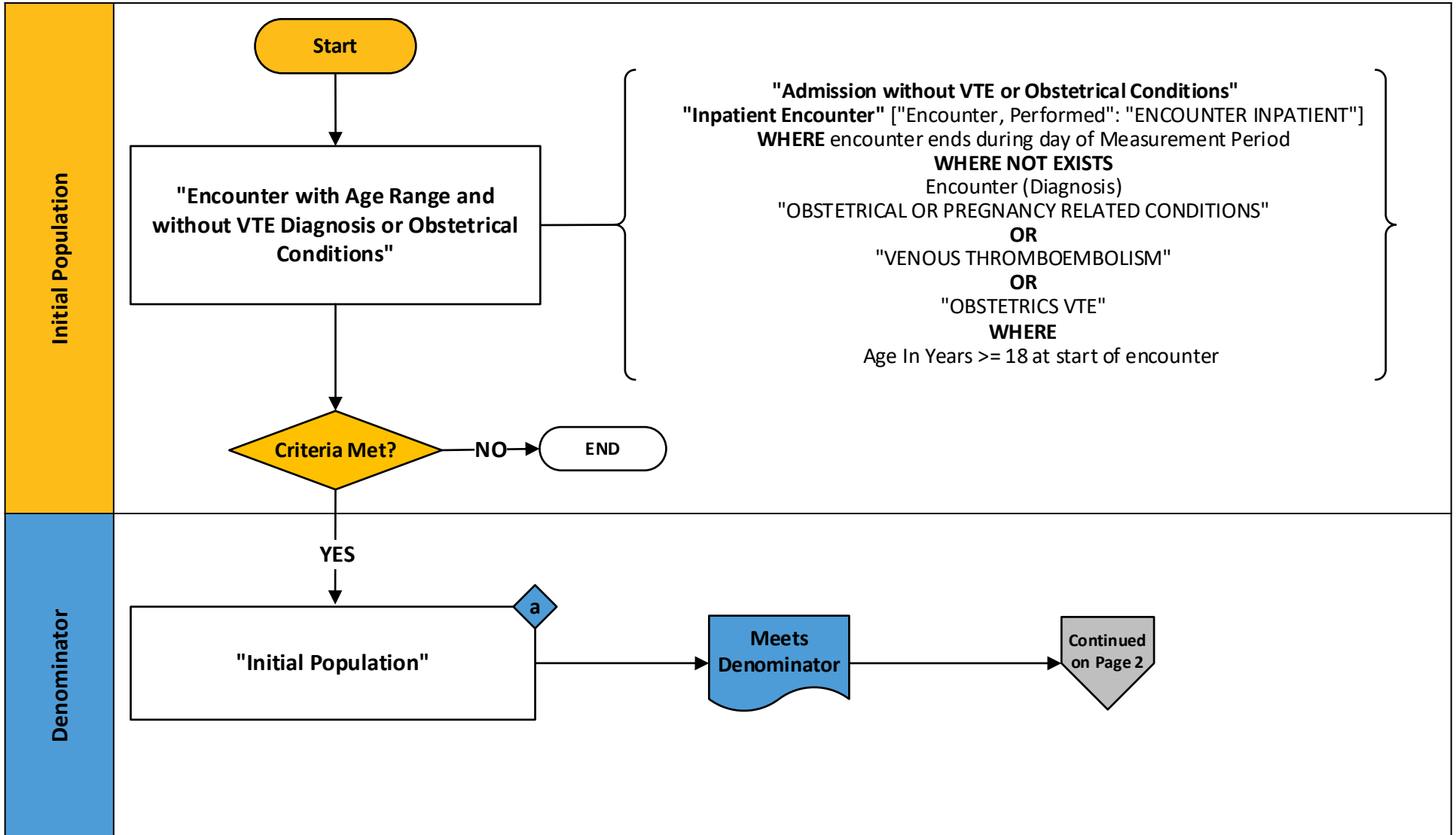# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

*\*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 Age Range and without VTE Diagnosis or Obstetrical Conditions"

**"Admission without VTE or Obstetrical Conditions"**
**"Inpatient Encounter"** ["Encounter, Performed": "ENCOUNTER INPATIENT"]
**WHERE** encounter ends during day of Measurement Period
**WHERE NOT EXISTS**
Encounter (Diagnosis)
"OBSTETRICAL OR PREGNANCY RELATED CONDITIONS"
**OR**
"VENOUS THROMBOEMBOLISM"
**OR**
"OBSTETRICS VTE"
**WHERE**
Age In Years >= 18 at start of encounter

**Criteria Met?** —NO→ END

YES

**Denominator**

"Initial Population" —a→ Meets Denominator → Continued on Page 2

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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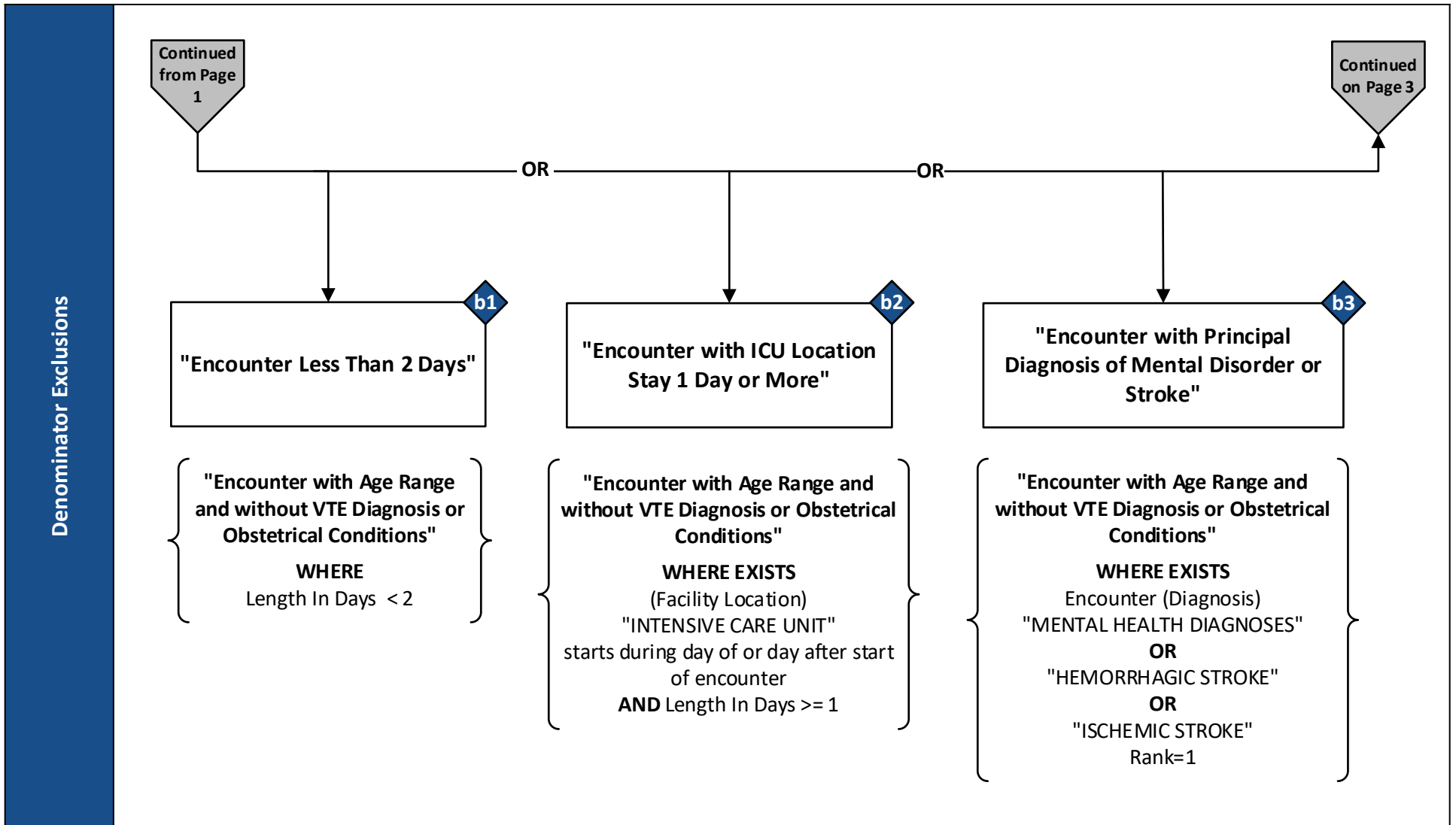
## Measure Flow Diagram (Continued)

**Denominator Exclusions**

Continued from Page 1

Continued on Page 3

OR — OR

**b1**

"Encounter Less Than 2 Days"

"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"
**WHERE**
Length In Days < 2

**b2**

"Encounter with ICU Location Stay 1 Day or More"

"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"
**WHERE EXISTS**
(Facility Location)
"INTENSIVE CARE UNIT"
starts during day of or day after start of encounter
**AND** Length In Days >= 1

**b3**

"Encounter with Principal Diagnosis of Mental Disorder or Stroke"

"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"
**WHERE EXISTS**
Encounter (Diagnosis)
"MENTAL HEALTH DIAGNOSES"
**OR**
"HEMORRHAGIC STROKE"
**OR**
"ISCHEMIC STROKE"
Rank=1

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)\***

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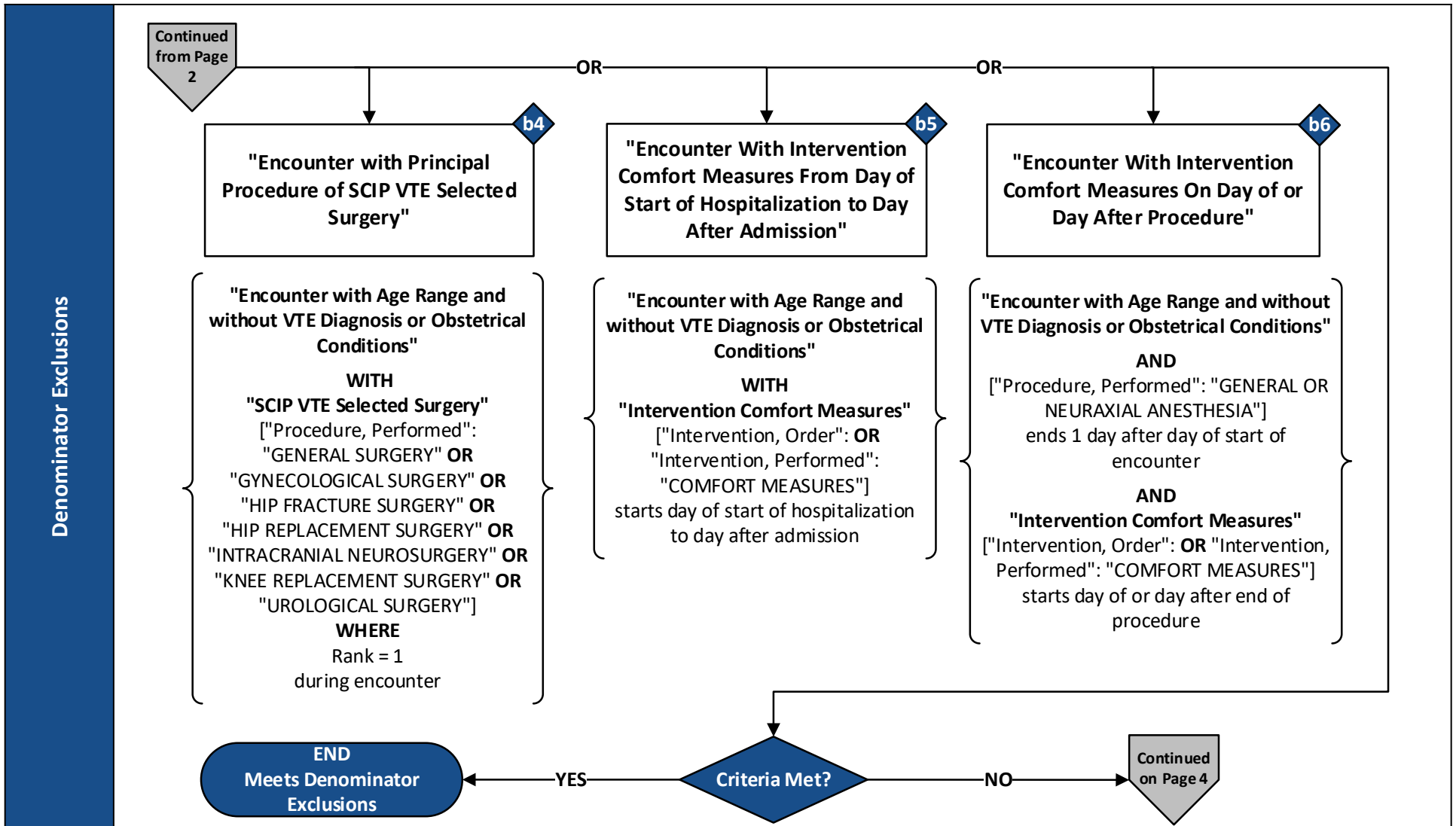
## Measure Flow Diagram (Continued)

**Continued from Page 2**

OR        OR

**b4**

**"Encounter with Principal Procedure of SCIP VTE Selected Surgery"**

**b5**

**"Encounter With Intervention Comfort Measures From Day of Start of Hospitalization to Day After Admission"**

**b6**

**"Encounter With Intervention Comfort Measures On Day of or Day After Procedure"**

**Denominator Exclusions**

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**
**WITH**
**"SCIP VTE Selected Surgery"**
["Procedure, Performed": "GENERAL SURGERY" **OR** "GYNECOLOGICAL SURGERY" **OR** "HIP FRACTURE SURGERY" **OR** "HIP REPLACEMENT SURGERY" **OR** "INTRACRANIAL NEUROSURGERY" **OR** "KNEE REPLACEMENT SURGERY" **OR** "UROLOGICAL SURGERY"]
**WHERE**
Rank = 1
during encounter

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**
**WITH**
**"Intervention Comfort Measures"**
["Intervention, Order": **OR** "Intervention, Performed": "COMFORT MEASURES"]
starts day of start of hospitalization to day after admission

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**
**AND**
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"]
ends 1 day after day of start of encounter
**AND**
**"Intervention Comfort Measures"**
["Intervention, Order": **OR** "Intervention, Performed": "COMFORT MEASURES"]
starts day of or day after end of procedure

**END**
**Meets Denominator Exclusions**

◄— **YES** — **Criteria Met?** — **NO** —►

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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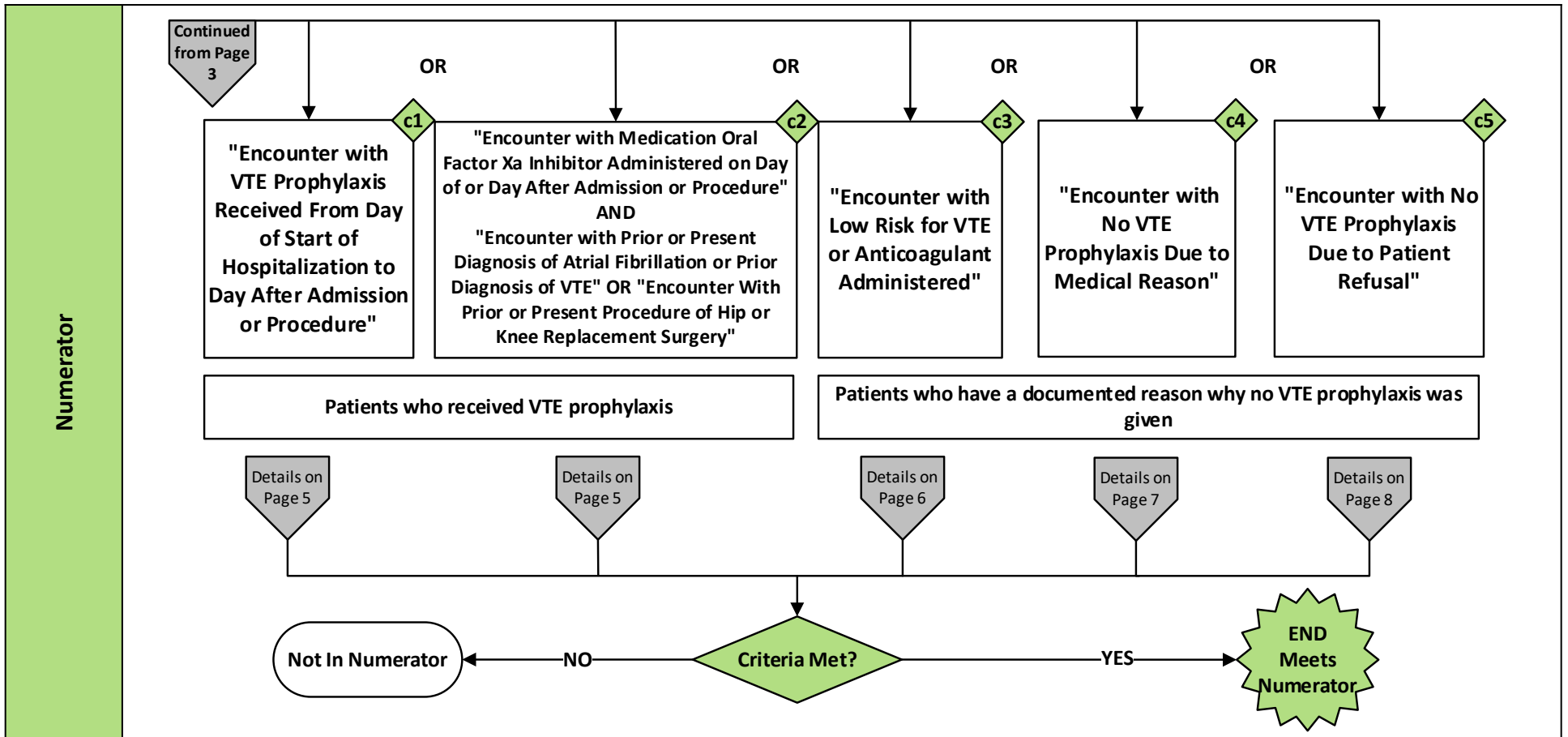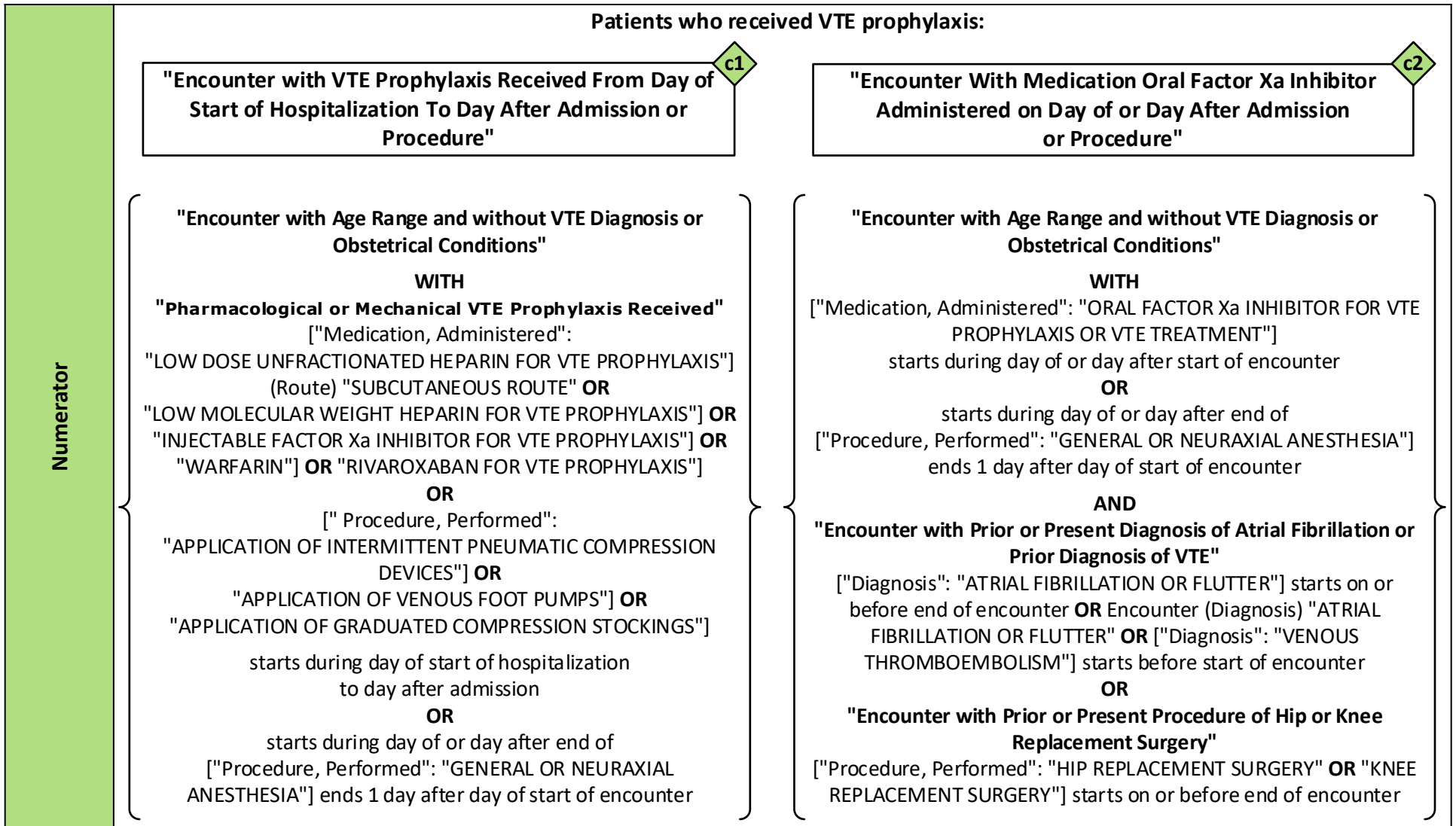
## Measure Flow Diagram (Continued)



**Numerator**

Continued from Page 3

OR — OR — OR — OR

**c1** "Encounter with VTE Prophylaxis Received From Day of Start of Hospitalization to Day After Admission or Procedure"

**c2** "Encounter with Medication Oral Factor Xa Inhibitor Administered on Day of or Day After Admission or Procedure" AND "Encounter with Prior or Present Diagnosis of Atrial Fibrillation or Prior Diagnosis of VTE" OR "Encounter With Prior or Present Procedure of Hip or Knee Replacement Surgery"

**c3** "Encounter with Low Risk for VTE or Anticoagulant Administered"

**c4** "Encounter with No VTE Prophylaxis Due to Medical Reason"

**c5** "Encounter with No VTE Prophylaxis Due to Patient Refusal"

Patients who received VTE prophylaxis

Patients who have a documented reason why no VTE prophylaxis was given

Details on Page 5 — Details on Page 5 — Details on Page 6 — Details on Page 7 — Details on Page 8

Not In Numerator ← NO — **Criteria Met?** — YES → **END Meets Numerator**

## Sample Calculation

$$\text{Performance Rate} = \frac{\text{Numerator } (c_1 + c_2 + c_3 + c_4 + c_5 = 60)}{\text{Denominator } (a = 100) - \text{Denominator Exclusions } (b_1 + b_2 + b_3 + b_4 + b_5 + b_6 = 20)} = 75\%$$

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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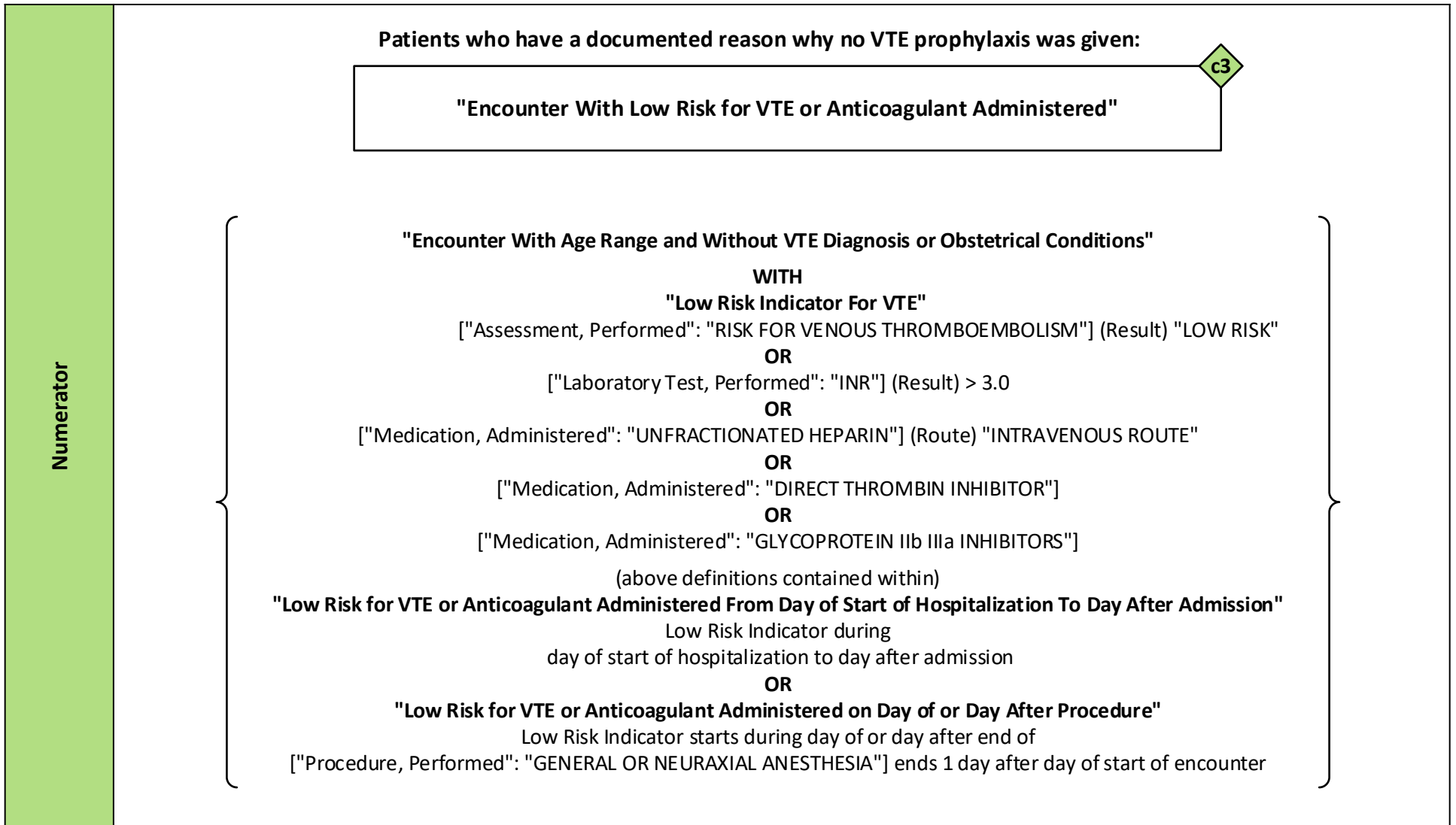
## Measure Flow Diagram (Additional Details)

**Numerator**

**Patients who received VTE prophylaxis:**

**c1**

**"Encounter with VTE Prophylaxis Received From Day of Start of Hospitalization To Day After Admission or Procedure"**

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**

**WITH**
**"Pharmacological or Mechanical VTE Prophylaxis Received"**
["Medication, Administered":
"LOW DOSE UNFRACTIONATED HEPARIN FOR VTE PROPHYLAXIS"]
(Route) "SUBCUTANEOUS ROUTE" **OR**
"LOW MOLECULAR WEIGHT HEPARIN FOR VTE PROPHYLAXIS"] **OR**
"INJECTABLE FACTOR Xa INHIBITOR FOR VTE PROPHYLAXIS"] **OR**
"WARFARIN"] **OR** "RIVAROXABAN FOR VTE PROPHYLAXIS"]
**OR**
[" Procedure, Performed":
"APPLICATION OF INTERMITTENT PNEUMATIC COMPRESSION DEVICES"] **OR**
"APPLICATION OF VENOUS FOOT PUMPS"] **OR**
"APPLICATION OF GRADUATED COMPRESSION STOCKINGS"]

starts during day of start of hospitalization
to day after admission
**OR**
starts during day of or day after end of
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"] ends 1 day after day of start of encounter

**c2**

**"Encounter With Medication Oral Factor Xa Inhibitor Administered on Day of or Day After Admission or Procedure"**

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**

**WITH**
["Medication, Administered": "ORAL FACTOR Xa INHIBITOR FOR VTE PROPHYLAXIS OR VTE TREATMENT"]
starts during day of or day after start of encounter
**OR**
starts during day of or day after end of
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"]
ends 1 day after day of start of encounter

**AND**
**"Encounter with Prior or Present Diagnosis of Atrial Fibrillation or Prior Diagnosis of VTE"**
["Diagnosis": "ATRIAL FIBRILLATION OR FLUTTER"] starts on or before end of encounter **OR** Encounter (Diagnosis) "ATRIAL FIBRILLATION OR FLUTTER" **OR** ["Diagnosis": "VENOUS THROMBOEMBOLISM"] starts before start of encounter
**OR**
**"Encounter with Prior or Present Procedure of Hip or Knee Replacement Surgery"**
["Procedure, Performed": "HIP REPLACEMENT SURGERY" **OR** "KNEE REPLACEMENT SURGERY"] starts on or before end of encounter

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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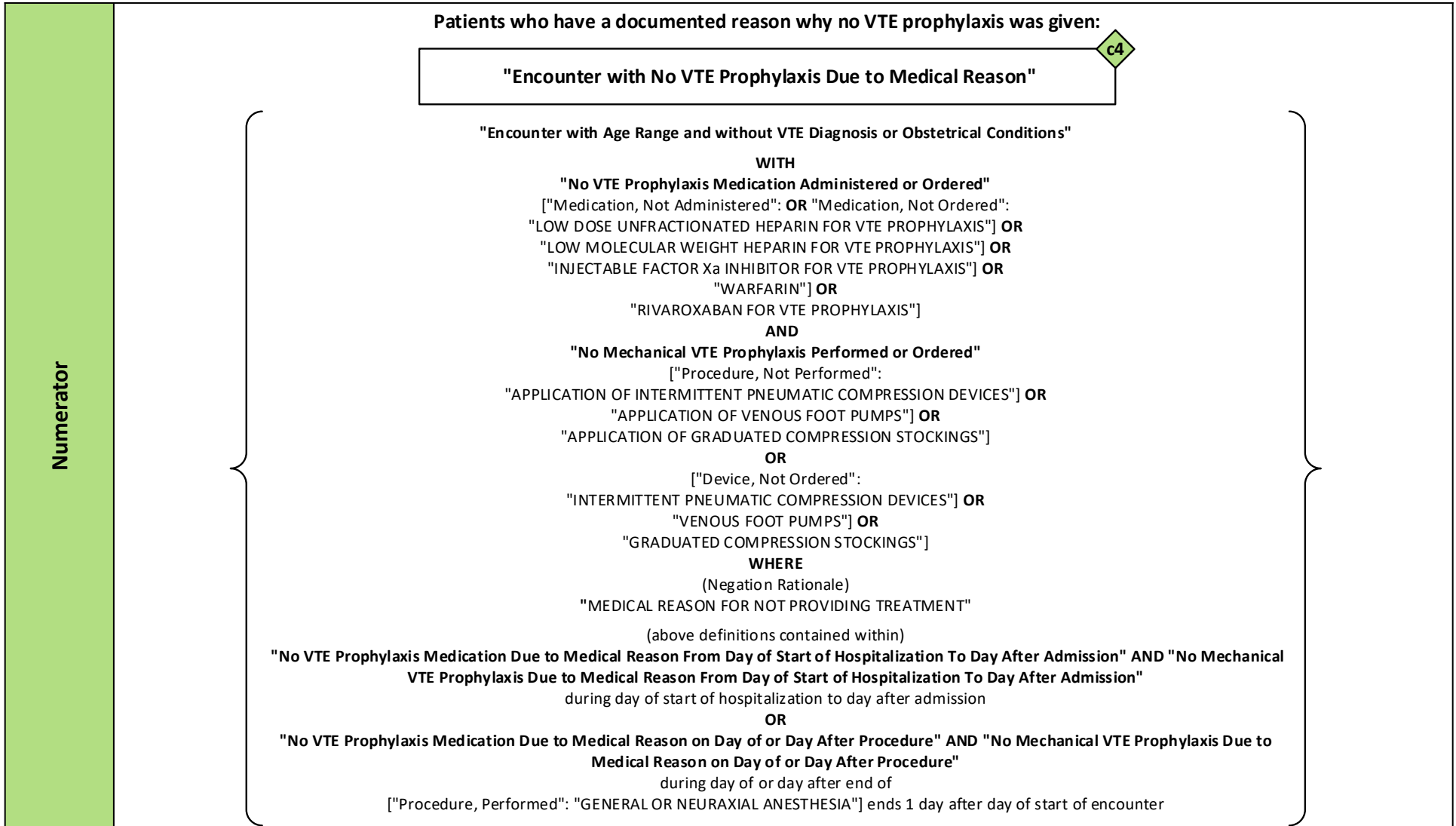
**Measure Flow Diagram (Additional Details)**

**Numerator**

**Patients who have a documented reason why no VTE prophylaxis was given:**

**"Encounter With Low Risk for VTE or Anticoagulant Administered"** c3

**"Encounter With Age Range and Without VTE Diagnosis or Obstetrical Conditions"**

**WITH**
**"Low Risk Indicator For VTE"**
["Assessment, Performed": "RISK FOR VENOUS THROMBOEMBOLISM"] (Result) "LOW RISK"
**OR**
["Laboratory Test, Performed": "INR"] (Result) > 3.0
**OR**
["Medication, Administered": "UNFRACTIONATED HEPARIN"] (Route) "INTRAVENOUS ROUTE"
**OR**
["Medication, Administered": "DIRECT THROMBIN INHIBITOR"]
**OR**
["Medication, Administered": "GLYCOPROTEIN IIb IIIa INHIBITORS"]

(above definitions contained within)
**"Low Risk for VTE or Anticoagulant Administered From Day of Start of Hospitalization To Day After Admission"**
Low Risk Indicator during
day of start of hospitalization to day after admission
**OR**
**"Low Risk for VTE or Anticoagulant Administered on Day of or Day After Procedure"**
Low Risk Indicator starts during day of or day after end of
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"] ends 1 day after day of start of encounter

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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## Measure Flow Diagram (Additional Details)

**Numerator**

**Patients who have a documented reason why no VTE prophylaxis was given:**

**"Encounter with No VTE Prophylaxis Due to Medical Reason"** c4

**"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"**
**WITH**
**"No VTE Prophylaxis Medication Administered or Ordered"**
["Medication, Not Administered": OR "Medication, Not Ordered":
"LOW DOSE UNFRACTIONATED HEPARIN FOR VTE PROPHYLAXIS"] **OR**
"LOW MOLECULAR WEIGHT HEPARIN FOR VTE PROPHYLAXIS"] **OR**
"INJECTABLE FACTOR Xa INHIBITOR FOR VTE PROPHYLAXIS"] **OR**
"WARFARIN"] **OR**
"RIVAROXABAN FOR VTE PROPHYLAXIS"]
**AND**
**"No Mechanical VTE Prophylaxis Performed or Ordered"**
["Procedure, Not Performed":
"APPLICATION OF INTERMITTENT PNEUMATIC COMPRESSION DEVICES"] **OR**
"APPLICATION OF VENOUS FOOT PUMPS"] **OR**
"APPLICATION OF GRADUATED COMPRESSION STOCKINGS"]
**OR**
["Device, Not Ordered":
"INTERMITTENT PNEUMATIC COMPRESSION DEVICES"] **OR**
"VENOUS FOOT PUMPS"] **OR**
"GRADUATED COMPRESSION STOCKINGS"]
**WHERE**
(Negation Rationale)
**"MEDICAL REASON FOR NOT PROVIDING TREATMENT"**

(above definitions contained within)
**"No VTE Prophylaxis Medication Due to Medical Reason From Day of Start of Hospitalization To Day After Admission" AND "No Mechanical VTE Prophylaxis Due to Medical Reason From Day of Start of Hospitalization To Day After Admission"**
during day of start of hospitalization to day after admission
**OR**
**"No VTE Prophylaxis Medication Due to Medical Reason on Day of or Day After Procedure" AND "No Mechanical VTE Prophylaxis Due to Medical Reason on Day of or Day After Procedure"**
during day of or day after end of
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"] ends 1 day after day of start of encounter

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)\***

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## Measure Flow Diagram (Additional Details)

**Numerator**

Patients who have a documented reason why no VTE prophylaxis was given: ◆ c5

"Encounter With No VTE Prophylaxis Due to Patient Refusal"

"Encounter with Age Range and without VTE Diagnosis or Obstetrical Conditions"
**WITH**
**"No Mechanical or Pharmacological VTE Prophylaxis Due to Patient Refusal"**
**"No VTE Prophylaxis Medication Administered or Ordered"**
["Medication, Not Administered": OR "Medication, Not Ordered":
"LOW DOSE UNFRACTIONATED HEPARIN FOR VTE PROPHYLAXIS"] **OR**
"LOW MOLECULAR WEIGHT HEPARIN FOR VTE PROPHYLAXIS"] **OR**
"INJECTABLE FACTOR Xa INHIBITOR FOR VTE PROPHYLAXIS"] **OR**
"WARFARIN"] **OR**
"RIVAROXABAN FOR VTE PROPHYLAXIS"]
**OR**
**"No Mechanical VTE Prophylaxis Performed or Ordered"**
["Procedure, Not Performed":
"APPLICATION OF INTERMITTENT PNEUMATIC COMPRESSION DEVICES"] **OR**
"APPLICATION OF VENOUS FOOT PUMPS"] **OR**
"APPLICATION OF GRADUATED COMPRESSION STOCKINGS"]
**OR**
["Device, Not Ordered":
"INTERMITTENT PNEUMATIC COMPRESSION DEVICES"] **OR**
"VENOUS FOOT PUMPS"] **OR**
"GRADUATED COMPRESSION STOCKINGS"]
**WHERE**
(Negation Rationale)
"PATIENT REFUSAL"
(above definitions contained within)
**"No VTE Prophylaxis Due to Patient Refusal From Day of Start of Hospitalization To Day After Admission"**
during day of start of hospitalization to day after admission
**OR**
**"No VTE Prophylaxis Due to Patient Refusal on Day of or Day After Procedure"**
during day of or day after end of
["Procedure, Performed": "GENERAL OR NEURAXIAL ANESTHESIA"] ends 1 day after day of start of encounter

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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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 number of patients who received Venous Thromboembolism (VTE) prophylaxis or have documentation why no VTE prophylaxis was given between the day of arrival to the day after hospital admission or surgery end date for surgeries that start the day of or the day after hospital admission |
| **Initial Population** | Start by identifying the initial population criteria as inpatient hospitalizations with:<br>• patients age 18 and older discharged from hospital inpatient acute care<br>• without a diagnosis of venous thromboembolism (VTE) or obstetrics<br>• that ends during the measurement period |
| **Denominator** | The denominator criteria include the initial population |
| **Denominator Exclusions** | The denominator exclusions criteria identify a subset of the denominator population by excluding inpatient hospitalizations for patients with any of the following:<br>• length of stay less than 2 days<br>• direct admits to intensive care unit (ICU), or transferred to ICU the day of or the day after hospital admission with ICU length of stay greater than or equal to one day<br>• a principal diagnosis of mental disorders or stroke<br>• a principal procedure of Surgical Care Improvement Project (SCIP) VTE selected surgeries<br>• comfort measures documented anytime between the day of arrival and the day after hospital admission<br>• comfort measures documented by the day after surgery end date for surgeries that end the day of or the day after hospital admission |

# 2025 eCQM Flow – **CMS108v13: Venous Thromboembolism Prophylaxis (VTE-1)***

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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 (that did not meet the denominator exclusions criteria) by including:

**Inpatient hospitalizations for patients who received VTE prophylaxis:**
- between the day of arrival and the day after hospital admission
- the day of or the day after surgery end date (for surgeries that end the day of or the day after hospital admission)

**OR**

**Inpatient hospitalizations for patients who have documentation of a reason who no VTE prophylaxis was given:**
- between the day of arrival or the day after hospital admission
- the day of or the day after surgery end date (for surgeries that end the day of or the day after hospital admission)