eMeasure Title	**Intensive Care Unit Venous Thromboembolism Prophylaxis**		
eMeasure Identifier (Measure Authoring Tool)	190	**eMeasure Version number**	5.2.000
NQF Number	0372	**GUID**	fa91ba68-1e66-4a23-8eb2-baa8e6df2f2f
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	The Joint Commission		
Measure Developer	The Joint Commission		
Endorsed By	National Quality Forum		
Description	This measure assesses the number of patients who received VTE prophylaxis or have documentation why no VTE prophylaxis was given the day of or the day after the initial admission (or transfer) to the Intensive Care Unit (ICU) or surgery end date for surgeries that start the day of or the day after ICU admission (or transfer)		
Copyright	Measure specifications are in the Public Domain LOINC(R) is a registered trademark of the Regenstrief Institute. This material contains SNOMED Clinical Terms(R) (SNOMED CT[C]) copyright 2004-2015 International Health Terminology Standards Development Organization. All rights reserved.		
Disclaimer	These performance measures are not clinical guidelines and do not establish a standard of medical care, and have not been tested for all potential applications. The measures and specifications are provided without warranty.		
Measure Scoring	Proportion		
Measure Type	Process		
Measure Item Count	Encounter, Performed: Encounter Inpatient		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	Approximately two-thirds of cases of Deep Vein Thrombosis (DVT) or Pulmonary Emboli (PE) are associated with recent hospitalization. This is consistent with the 2001 report by Agency for Healthcare Research and Quality (Shojania, et al., 2001). AHRQ reports that "the appropriate application of effective preventive measures in hospitals has major potential for improving patient safety, by reducing the incidence of VTE." Almost all hospitalized patients have at least one risk factor for Venous Thromboembolism (VTE), and approximately 40% have three or more risk factors. Without thromboprophylaxis, the incidence of objectively confirmed, hospital-acquired DVT is approximately 10% to 40% among medical or general surgical patients and 40% to 60% following major orthopedic surgery (Geerts et al., 2008). Commonly, criteria for admission to the Intensive Care Unit (ICU) itself, puts patient's at an increased risk for developing VTE, and subsequent increased risk of morbidity from PE. Some risk factors are related to the acute illness present that allowed for the admission to the ICU unit, and some risk factors may be acquired during the ICU admission due to subsequent medical treatments, for example limitations of mobility, presence of central venous lines or mechanical ventilation and subsequent pharmacological paralysis. Reports of DVT in the population of ICU patients vary in relation to the acuity of the illness in this population. DVT in ICU patients diagnosed with routine venography or Doppler ultrasound found ranges between 10% to 100%. Five studies prospectively screened patients who were not receiving thromboprophylaxis during their ICU stays. The rates of DVT using Fibrinogen Uptake Test, Doppler Ultrasound or venography ranged from 13 to 31% (Geerts et al., 2008). It is essential for all ICUs to assess each patient upon admission to the ICU unit, a change in level of status, for the need for VTE prophylaxis due to the above increased development of risk factors (Geerts, et al., 2004). Some select surgeries have previously been monitored in the Surgical Care Improvement Project; since performance on these surgeries has achieved very high levels, they are not included in this measure.		
Clinical Recommendation Statement	Failure to recognize and protect patients at risk for venous thromboembolism (VTE) increases the chances for critically ill hospitalized patients for developing a deep vein thrombosis or dying from a pulmonary emboli. Screening all patients is the only evidence based practice in reducing incidence of disease. All intensive care unit (ICU) patients should be evaluated for primary VTE prophylaxis, and given appropriate prophylaxis when indicated.		
Improvement Notation	Improvement noted as an increase in rate		
Reference			

	Geerts WH, Bergqvist D, Pineo GF, Heit JA, Samama CM, Lassen MR, Colwell CW. Prevention of venous thromboembolism. The Eighth ACCP Conference on antithrombotic and thrombolytic therapy. Chest. 2008; 133:381S-453S.
Reference	Geerts WH, Pineo GF, Heit JA, et al. Prevention of venous thromboembolism: the Seventh ACCP Conference on Antithrombotic and Thrombolytic Therapy. Chest. 2004 Sep;126(3 Suppl):338S-400S.
Reference	Guyatt, G.H., Akl, E.A., Crowther, M., Gutterman, D., Schunemann, H. Antithrombotic Therapy and Prevention of Thrombosis, 9th edition: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines. CHEST 2012; 141(2) (Supp):7S-47S.
Reference	Kearon C, Akl EA, Comerota AJ, Prandoni P, Bounameaux H, Goldhaber SZ, Nelson ME, Wells PS, Gould MK, Dentali F, Crowther M, Kahn SR. Antithrombotic therapy for VTE disease: antithrombotic therapy and prevention of thrombosis, 9th ed: American College of Chest Physicians evidence-based clinical practice guidelines. Chest. 2012 Feb;141(2 Suppl):e419S-94S
Reference	Shojania KG, Duncan BW, McDonald DM, et al. (Eds.). (2001). Making healthcare safer; A critical analysis of patient safety practices (Evidence Report/Technology Assessment No. 43). Prepared by the University of California at San Francisco-Stanford Evidenced-based Practice Center under Contract no. 290-97-0013 (AHRQ Publication NO.01-E058). Rockville, MD:Agency for Healthcare Research and Quality.
Definition	None
Guidance	The definition of an ICU for the purpose of the measures noted above is that used by the CDC in the NHSN Patient Safety Project. An intensive care unit can be defined as a nursing care area that provides intensive observation, diagnosis, and therapeutic procedures for adults and/or children who are critically ill. An ICU excludes nursing areas that provide step-down, intermediate care or telemetry only and specialty care areas.
Transmission Format	TBD
Initial Population	Patients age 18 and older discharged during the measurement period from hospital inpatient acute care with a length of stay less than or equal to 120 days, without a diagnosis of venous thromboembolism (VTE) or obstetrics
Denominator	Patients directly admitted or transferred to ICU during the hospitalization
Denominator Exclusions	* Patients who have a hospital length of stay (LOS) less than 2 days * Patients with comfort measures documented anytime between arrival and the day after ICU admission or transfer * Patients with comfort measures documented by the day after surgery end date for surgeries that end the day of or the day after hospital admission * Patients with a principal procedure of surgical care improvement Project (SCIP) VTE selected surgeries that end the day of or the day after ICU admission or transfer
Numerator	Patients who received VTE prophylaxis: - the day of or the day after ICU admission (or transfer) - the day of or the day after surgery end date for surgeries that end the day of or the day after ICU admission (or transfer) Patients who have documentation of a reason why no VTE prophylaxis was given: - between arrival and ICU admission (for patients directly admitted as inpatients to the ICU) - the day of or the day after ICU admission (or transfer) - the day of or the day after surgery end date (for surgeries that end the day of or the day after ICU admission (or transfer)
Numerator Exclusions	Not Applicable
Denominator Exceptions	Patients with ICU LOS less than one day
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex

Table of Contents

Population Criteria

- **Initial Population =**
  - AND: Age>= 18 year(s) at: Occurrence A of $EncounterInpatient
  - AND NOT: Union of:
    - Intersection of:
      - Occurrence A of $EncounterInpatient
      - "Encounter, Performed: Encounter Inpatient" satisfies any:

            - (diagnosis: Obstetrics)
            - (diagnosis: Venous Thromboembolism)
            - (diagnosis: Obstetrics VTE)
        - Union of:
            - "Diagnosis: Obstetrics"
            - $DiagnosisVTE
            - starts during Occurrence A of $EncounterInpatient
        - Union of:
            - "Diagnosis: Obstetrics"
            - $DiagnosisVTE
            - starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of Occurrence A of $EncounterInpatient)
- **Denominator =**
    - AND: Initial Population
    - AND: First: "Occurrence A of Encounter, Performed: ICU Admission or Transfer" during Occurrence A of $EncounterInpatient
- **Denominator Exclusions =**
    - OR: Intersection of:
        - Occurrence A of $EncounterInpatient
        - "Encounter, Performed: Encounter Inpatient (length of stay < 2 day(s))"
    - OR: Union of:
        - "Procedure, Performed: General Surgery (ordinality: Principal)"
        - "Procedure, Performed: Gynecological Surgery (ordinality: Principal)"
        - "Procedure, Performed: Hip Fracture Surgery (ordinality: Principal)"
        - "Procedure, Performed: Hip Replacement Surgery (ordinality: Principal)"
        - "Procedure, Performed: Intracranial Neurosurgery (ordinality: Principal)"
        - "Procedure, Performed: Knee Replacement Surgery (ordinality: Principal)"
        - "Procedure, Performed: Urological Surgery (ordinality: Principal)"
        - <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR: $InterventionComfortMeasures starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of Occurrence A of $EncounterInpatient)
    - OR:
        - AND: $InterventionComfortMeasures starts during Occurrence A of $EncounterInpatient
        - AND: $InterventionComfortMeasures starts before start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR: $InterventionComfortMeasures <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR: $InterventionComfortMeasures <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
- **Numerator =**
    - AND:
        # VTE prophylaxis options
        - OR: Union of:
            - $MedicationVTEProphylaxis <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
            - $MedicationVTEProphylaxis <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
            - $DeviceVTEProphylaxis <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
            - $DeviceVTEProphylaxis <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
        - OR:
            - AND: "Medication, Administered: Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment" satisfies any:
                - <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
                - <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
            - AND:
                - OR: Union of:
                    - Intersection of:
                        - Occurrence A of $EncounterInpatient
                        - "Encounter, Performed: Encounter Inpatient (diagnosis: Atrial Fibrillation/Flutter)"
                    - "Diagnosis: Atrial Fibrillation/Flutter" starts before or concurrent with end of Occurrence A of $EncounterInpatient
                    - "Diagnosis: Venous Thromboembolism" starts before start of Occurrence A of $EncounterInpatient
                - OR: Union of:
                    - "Procedure, Performed: Hip Replacement Surgery"
                    - "Procedure, Performed: Knee Replacement Surgery"
                    - starts before or concurrent with end of Occurrence A of $EncounterInpatient
        # Reasons for no VTE prophylaxis
        - OR: Union of:

        - "Risk Category Assessment: VTE Risk Assessment (result: Low Risk)"
        - "Laboratory Test, Performed: INR (result > 3.0)"
        - "Medication, Administered: Unfractionated Heparin (route: Intravenous route)"
        - "Medication, Administered: Direct Thrombin Inhibitor"
        - "Medication, Administered: Glycoprotein IIb/IIIa Inhibitors"
        - starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
    - OR: Union of:
        - "Risk Category Assessment: VTE Risk Assessment (result: Low Risk)"
        - "Laboratory Test, Performed: INR (result > 3.0)"
        - "Medication, Administered: Unfractionated Heparin (route: Intravenous route)"
        - "Medication, Administered: Direct Thrombin Inhibitor"
        - "Medication, Administered: Glycoprotein IIb/IIIa Inhibitors"
        - <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR: Union of:
        - "Risk Category Assessment: VTE Risk Assessment (result: Low Risk)"
        - "Laboratory Test, Performed: INR (result > 3.0)"
        - "Medication, Administered: Unfractionated Heparin (route: Intravenous route)"
        - "Medication, Administered: Direct Thrombin Inhibitor"
        - "Medication, Administered: Glycoprotein IIb/IIIa Inhibitors"
        - <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
    - OR:
        - AND: $NoMedicationVTEProphylaxisMedicalReason starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
        - AND: $NoDeviceVTEProphylaxisMedicalReason starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
    - OR:
        - AND: $NoMedicationVTEProphylaxisMedicalReason <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
        - AND: $NoDeviceVTEProphylaxisMedicalReason <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR:
        - AND: $NoMedicationVTEProphylaxisMedicalReason <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
        - AND: $NoDeviceVTEProphylaxisMedicalReason <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
    - OR: $NoVTEProphylaxisPatientRefusal starts during ("Encounter, Performed: Emergency Department Visit" <= 1 hour(s) ends before or concurrent with start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
    - OR: $NoVTEProphylaxisPatientRefusal <= 1 day(s) starts after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer"
    - OR: $NoVTEProphylaxisPatientRefusal <= 1 day(s) starts after end of ("Procedure, Performed: General or Neuraxial Anesthesia" <= 1 day(s) ends after start of "Occurrence A of Encounter, Performed: ICU Admission or Transfer")
- **Numerator Exclusions =**
    - None
- **Denominator Exceptions =**
    - OR: "Occurrence A of Encounter, Performed: ICU Admission or Transfer (length of stay < 1 day(s))"
- **Stratification =**
    - None

Data Criteria (QDM Variables)

- **$DeviceVTEProphylaxis =**
    - Union of:
        - "Device, Applied: Intermittent pneumatic compression devices (IPC)"
        - "Device, Applied: Venous foot pumps (VFP)"
        - "Device, Applied: Graduated compression stockings (GCS)"
- **$EncounterInpatient =**
    - "Encounter, Performed: Encounter Inpatient" satisfies all:
        - (length of stay <= 120 day(s))
        - ends during "Measurement Period"
- **$InterventionComfortMeasures =**
    - Union of:
        - "Intervention, Order: Comfort Measures"
        - "Intervention, Performed: Comfort Measures"
- **$MedicationVTEProphylaxis =**
    - Union of:
        - "Medication, Administered: Low Dose Unfractionated Heparin for VTE Prophylaxis (route: Subcutaneous route)"
        - "Medication, Administered: Injectable Factor Xa Inhibitor for VTE Prophylaxis"
        - "Medication, Administered: Low Molecular Weight Heparin for VTE Prophylaxis"

        - "Medication, Administered: Warfarin"
- **$NoDeviceVTEProphylaxisMedicalReason =**
    - Union of:
        - "Device, Applied not done: Medical Reason" for "Intermittent pneumatic compression devices (IPC)"
        - "Device, Applied not done: Medical Reason" for "Venous foot pumps (VFP)"
        - "Device, Applied not done: Medical Reason" for "Graduated compression stockings (GCS)"
        - "Device, Order not done: Medical Reason" for "Intermittent pneumatic compression devices (IPC)"
        - "Device, Order not done: Medical Reason" for "Venous foot pumps (VFP)"
        - "Device, Order not done: Medical Reason" for "Graduated compression stockings (GCS)"
- **$NoMedicationVTEProphylaxisMedicalReason =**
    - Union of:
        - "Medication, Administered not done: Medical Reason" for "Low Dose Unfractionated Heparin for VTE Prophylaxis"
        - "Medication, Administered not done: Medical Reason" for "Low Molecular Weight Heparin for VTE Prophylaxis"
        - "Medication, Administered not done: Medical Reason" for "Injectable Factor Xa Inhibitor for VTE Prophylaxis"
        - "Medication, Administered not done: Medical Reason" for "Warfarin"
        - "Medication, Order not done: Medical Reason" for "Unfractionated Heparin for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Medical Reason" for "Low Molecular Weight Heparin for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Medical Reason" for "Injectable factor Xa inhibitor for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Medical Reason" for "Warfarin-only ingredient specific"
- **$NoVTEProphylaxisPatientRefusal =**
    - Union of:
        - "Medication, Administered not done: Patient Refusal" for "Low Dose Unfractionated Heparin for VTE Prophylaxis"
        - "Medication, Administered not done: Patient Refusal" for "Low Molecular Weight Heparin for VTE Prophylaxis"
        - "Medication, Administered not done: Patient Refusal" for "Injectable Factor Xa Inhibitor for VTE Prophylaxis"
        - "Medication, Administered not done: Patient Refusal" for "Warfarin"
        - "Medication, Order not done: Patient Refusal" for "Unfractionated Heparin for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Patient Refusal" for "Low Molecular Weight Heparin for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Patient Refusal" for "Injectable factor Xa inhibitor for VTE prophylaxis ingredient specific"
        - "Medication, Order not done: Patient Refusal" for "Warfarin-only ingredient specific"
        - "Device, Applied not done: Patient Refusal" for "Intermittent pneumatic compression devices (IPC)"
        - "Device, Applied not done: Patient Refusal" for "Venous foot pumps (VFP)"
        - "Device, Applied not done: Patient Refusal" for "Graduated compression stockings (GCS)"
        - "Device, Order not done: Patient Refusal" for "Intermittent pneumatic compression devices (IPC)"
        - "Device, Order not done: Patient Refusal" for "Venous foot pumps (VFP)"
        - "Device, Order not done: Patient Refusal" for "Graduated compression stockings (GCS)"
- **$DiagnosisVTE =**
    - Union of:
        - "Diagnosis: Venous Thromboembolism"
        - "Diagnosis: Obstetrics VTE"

Data Criteria (QDM Data Elements)

- "Device, Applied: Graduated compression stockings (GCS)" using "Graduated compression stockings (GCS) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.256)"
- "Device, Applied: Intermittent pneumatic compression devices (IPC)" using "Intermittent pneumatic compression devices (IPC) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.214)"
- "Device, Applied: Venous foot pumps (VFP)" using "Venous foot pumps (VFP) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.230)"
- "Device, Applied not done: Medical Reason" using "Medical Reason SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.473)"
- "Device, Applied not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Device, Order: Graduated compression stockings (GCS)" using "Graduated compression stockings (GCS) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.256)"
- "Device, Order: Intermittent pneumatic compression devices (IPC)" using "Intermittent pneumatic compression devices (IPC) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.214)"
- "Device, Order: Venous foot pumps (VFP)" using "Venous foot pumps (VFP) SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.230)"
- "Device, Order not done: Medical Reason" using "Medical Reason SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.473)"
- "Device, Order not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Diagnosis: Atrial Fibrillation/Flutter" using "Atrial Fibrillation/Flutter Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.202)"

- "Diagnosis: Obstetrics" using "Obstetrics Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.263)"
- "Diagnosis: Obstetrics VTE" using "Obstetrics VTE Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.264)"
- "Diagnosis: Venous Thromboembolism" using "Venous Thromboembolism Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.279)"
- "Encounter, Performed: Emergency Department Visit" using "Emergency Department Visit SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.292)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient SNOMEDCT Value Set (2.16.840.1.113883.3.666.5.307)"
- "Encounter, Performed: ICU Admission or Transfer" using "ICU Admission or Transfer SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.305)"
- "Intervention, Order: Comfort Measures" using "Comfort Measures SNOMEDCT Value Set (1.3.6.1.4.1.33895.1.3.0.45)"
- "Intervention, Performed: Comfort Measures" using "Comfort Measures SNOMEDCT Value Set (1.3.6.1.4.1.33895.1.3.0.45)"
- "Laboratory Test, Performed: INR" using "INR LOINC Value Set (2.16.840.1.113883.3.117.1.7.1.213)"
- "Medication, Administered: Direct Thrombin Inhibitor" using "Direct Thrombin Inhibitor RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.205)"
- "Medication, Administered: Glycoprotein IIb/IIIa Inhibitors" using "Glycoprotein IIb/IIIa Inhibitors RXNORM Value Set (2.16.840.1.113762.1.4.1045.41)"
- "Medication, Administered: Injectable Factor Xa Inhibitor for VTE Prophylaxis" using "Injectable Factor Xa Inhibitor for VTE Prophylaxis RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.211)"
- "Medication, Administered: Low Dose Unfractionated Heparin for VTE Prophylaxis" using "Low Dose Unfractionated Heparin for VTE Prophylaxis RXNORM Value Set (2.16.840.1.113762.1.4.1045.39)"
- "Medication, Administered: Low Molecular Weight Heparin for VTE Prophylaxis" using "Low Molecular Weight Heparin for VTE Prophylaxis RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.219)"
- "Medication, Administered: Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment" using "Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.134)"
- "Medication, Administered: Unfractionated Heparin" using "Unfractionated Heparin RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.218)"
- "Medication, Administered: Warfarin" using "Warfarin RXNORM Value Set (2.16.840.1.113883.3.117.1.7.1.232)"
- "Medication, Administered not done: Medical Reason" using "Medical Reason SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.473)"
- "Medication, Administered not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Medication, Order: Injectable factor Xa inhibitor for VTE prophylaxis ingredient specific" using "Injectable factor Xa inhibitor for VTE prophylaxis ingredient specific RXNORM Value Set (2.16.840.1.113762.1.4.1021.11)"
- "Medication, Order: Low Molecular Weight Heparin for VTE prophylaxis ingredient specific" using "Low Molecular Weight Heparin for VTE prophylaxis ingredient specific RXNORM Value Set (2.16.840.1.113762.1.4.1021.12)"
- "Medication, Order: Unfractionated Heparin for VTE prophylaxis ingredient specific" using "Unfractionated Heparin for VTE prophylaxis ingredient specific RXNORM Value Set (2.16.840.1.113762.1.4.1021.13)"
- "Medication, Order: Warfarin-only ingredient specific" using "Warfarin-only ingredient specific RXNORM Value Set (2.16.840.1.113762.1.4.1021.10)"
- "Medication, Order not done: Medical Reason" using "Medical Reason SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.473)"
- "Medication, Order not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Procedure, Performed: General or Neuraxial Anesthesia" using "General or Neuraxial Anesthesia Grouping Value Set (2.16.840.1.113883.3.666.5.1743)"
- "Procedure, Performed: General Surgery" using "General Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.255)"
- "Procedure, Performed: Gynecological Surgery" using "Gynecological Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.257)"
- "Procedure, Performed: Hip Fracture Surgery" using "Hip Fracture Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.258)"
- "Procedure, Performed: Hip Replacement Surgery" using "Hip Replacement Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.259)"
- "Procedure, Performed: Intracranial Neurosurgery" using "Intracranial Neurosurgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.260)"
- "Procedure, Performed: Knee Replacement Surgery" using "Knee Replacement Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.261)"
- "Procedure, Performed: Urological Surgery" using "Urological Surgery Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.272)"
- "Risk Category Assessment: VTE Risk Assessment" using "VTE Risk Assessment LOINC Value Set (2.16.840.1.113883.3.117.1.7.1.357)"
- Attribute: "Diagnosis: Atrial Fibrillation/Flutter" using "Atrial Fibrillation/Flutter Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.202)"
- Attribute: "Result: Low Risk" using "Low Risk SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.400)"
- Attribute: "Route: Subcutaneous route" using "Subcutaneous route SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.223)"
- Attribute: "Ordinality: Principal" using "Principal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.14)"
- Attribute: "Route: Intravenous route" using "Intravenous route SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.222)"
- Attribute: "Diagnosis: Obstetrics" using "Obstetrics Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.263)"

- Attribute: "Diagnosis: Venous Thromboembolism" using "Venous Thromboembolism Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.279)"
- Attribute: "Diagnosis: Obstetrics VTE" using "Obstetrics VTE Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.264)"

Supplemental Data Elements

- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

Risk Adjustment Variables

- None

Measure Set	eMeasure Venous Thromboembolism (eVTE)