

# Epic VTE Workflows 09/2016

## VTE Risk Stratification and Prophylaxis Orders

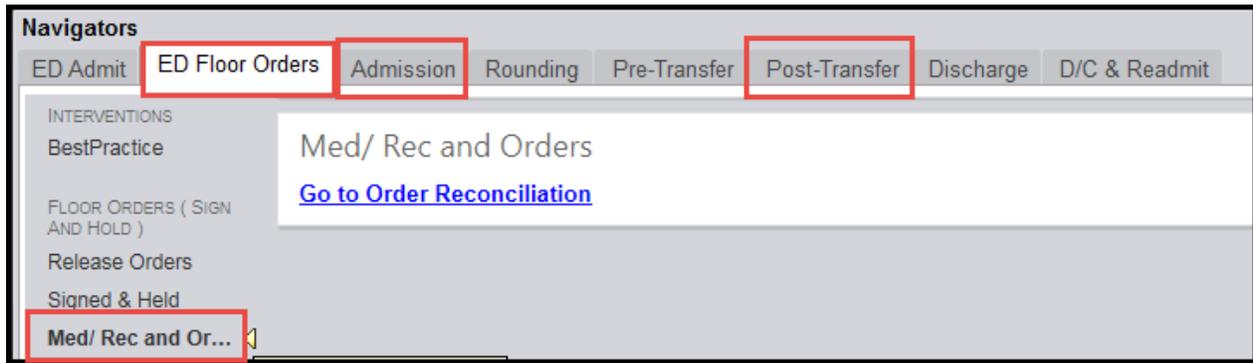
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The VTE Epic Workflows will change on September 13, 2016. The following pages are meant to help guide you through these workflows.

## Doing VTE Risk Stratification in Med Rec

The VTE Risk Stratification tool is found in the Medication Reconciliation section of three navigators:

- ED Floor Orders
- Admission
- Post-Transfer



Between **Medication Reconciliation**, and before **New Admission Orders**, you have the **option** of filling out the VTE Risk Stratification tool.

1. Click **Row Info**, **Last Filed**, and **All Choices** to ensure you see the full navigator.
2. Once you have answered every question, click **Next**.

**Admission**

Review Current Orders   Review Prior to Admission Meds   Reconcile Prior to Admission Meds   Outside Medication Reconciliation   **VTE Risk Stratification**   New Admission Orders

Review and Sign

### VTE Risk Stratification - VTE Risk Stratification

Time taken: 0912   8/18/2016

Show **Row Info** **Last Filed** **Details** **All Choices**

Values By

**VTE Risk Stratification**

Surgery length  **0=No Surgery**   1=Surgery length less than 1 hour   2=Surgery length 1 to 2 hours   3=Surgery length 2 to 3 hours  
5=Surgery length greater than 3 h...

Risk Factors for VTE 5 points each  **None/Unknown**   CVA (within past 30 days)   Major trauma (within past 30 days)   Hip, pelvis, or leg fracture (within past 30 days)  
Spinal cord injury or paralysis (within past 30 days)

Risk Factors for VTE 3 points each  **None/Unknown**   Elevated serum homocysteine or anticondoliolin antibodies   Factor V Leiden   Prothrombin 20120A   Lupus Anticoagulant  
Other thrombophilia   Heparin induced thrombocytopenia (HIT)   Personal history of SVT, DVT, or PE   Family history of DVT, or PE  
Present cancer or chemotherapy

Risk Factors for VTE 2 points each  **None/Unknown**   Current Central line   Previous malignancy

Risk Factors for VTE 1 point each  **None/Unknown**   Blood transfusion (within past 30 days)   Heart attack (within past 30 days)   Congestive heart failure (within past 30 days)  
Sepsis/serious infection (within past 30 days)   Pneumonia (within past 30 days)   Immobilizing cast on lower extremity (within past 30 days)   COPD  
Anticipated bedrest greater than 72 hours   Legs currently swollen   Varicose veins (distended, tortuous, or engorged)  
Inflammatory bowel disease, diverticulitis, Crohn's disease or ulcerative colitis   History of major surgery within the past 6 months  
Currently on birth control or hormone replacement therapy   Pregnancy or delivery (within past 30 days)

VTE Age Risk  **None/Unknown**   VTE BMI Risk Factor  **None/Unknown**

Row information:  
Age 41-59 score 1 point  
Age 60-74 score 2 points  
Age > 75 score 3 points

Row information:  
BMI of 30-39 score 1 point  
BMI of 40-49 score 2 points  
BMI above 50 score 3 points

VTE Total Risk Score  **None/Unknown**

**Risk of developing VTE:**  
A score of 0-1 indicates **low** risk for VTE  
A score of 2 indicates **moderate** risk for VTE  
A score of 3 or greater indicates **high** risk for VTE

Restore   Close   F9   Cancel   Previous F7   Next F8

## VTE Prophylaxis Orders Following Med Rec

### If you fill out the Risk Stratification tool:

Under **New Admission Orders**, when you open your admission order set, you will see only the VTE Prophylaxis orders for the level assessed in the Risk Stratification tool.

The screenshot shows the 'New Admission Orders' section of a medical record system. The 'VTE Prophylaxis Orders' section is highlighted with a red box. A callout bubble points to the 'Caprini Score Equal to or Greater than 3 (High Risk)' option, which is selected. Below this, several radio button options are listed, all of which are for High Risk VTE scores. The options include Enoxaparin (LOVENOX) subcutaneous and SCD (START NOW) - High Risk VTE Score, Enoxaparin (LOVENOX) subcutaneous and SCD (START 12-18 HOURS POST SURGERY) - High Risk VTE Score, Heparin subcutaneous and SCD (START NOW) - High Risk VTE Score, Heparin subcutaneous and SCD (START 12-18 HOURS POST SURGERY) - High Risk VTE Score, Alternate Anticoagulant and SCD - High Risk VTE Score, and Contraindication to Pharmacologic Prophylaxis - High Risk VTE Score.

### If you do not fill out the Risk Stratification tool:

In the **New Admission Orders** section, when you open your admission order set, you will see all levels of VTE Prophylaxis orders and will have to choose the appropriate level per your estimation.

The screenshot shows the 'New Admission Orders' section of a medical record system. The 'VTE Prophylaxis Orders' section is highlighted with a red box. A callout bubble points to the 'Caprini Score 0-1 (Low Risk) - No VTE Prophylaxis' option, which is selected. Below this, several radio button options are listed, including Ambulate Patient - Low Risk VTE Score, Ambulation Contraindicated, Caprini Score 2 (Moderate Risk) with various Enoxaparin and Heparin options, and Caprini Score Equal to or Greater than 3 (High Risk) with various Enoxaparin and Heparin options.

For a list of Order Sets containing VTE orders, click [List of Order Sets with VTE Prophylaxis Orders](#).

## VTE BPA (Patient Admitted for More than 4 hours)

When a patient has been admitted for more than 4 hours, has an admit order and no VTE Prophylaxis orders, a BPA will appear.

If you are the primary provider, you can do one of two things:

1. Click **Accept** to go to the VTE Prophylaxis orders. You will have to choose an appropriate Risk level or
2. Click **Do Not Open** and then click on the **VTE Risk Stratification** hyperlink (see page 2 for next steps)

If you are not the primary provider:

3. Click **Secondary Provider** and **Accept**. The BPA will go away until the next time you (or another provider) open the chart or until VTE Prophylaxis orders are addressed

### Note:

This BPA is looking for VTE prophylaxis orders and will pop every time a provider opens the chart until VTE prophylaxis orders have been addressed.

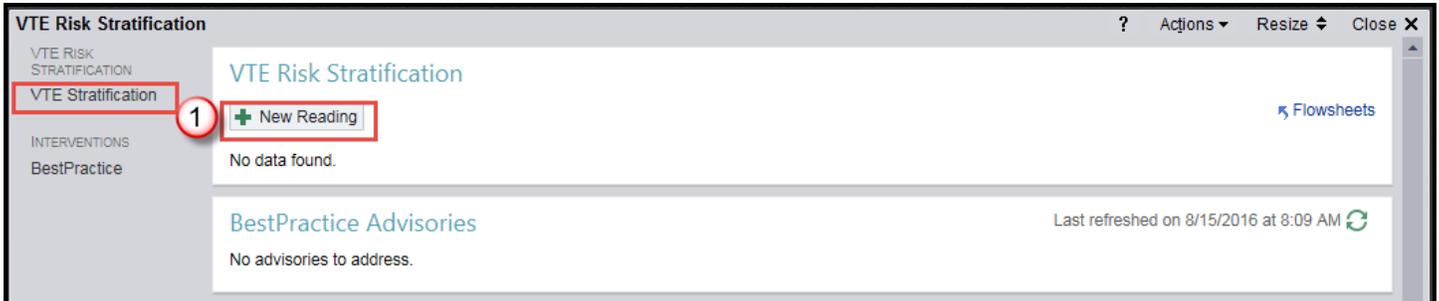
This BPA will not appear when the patient is in ED or in the Operating Room (Bldg A OR, COM OR, FBC OR)

If you see this BPA and want to take care of VTE Stratification and orders while doing your admission Med Rec, you can click **Accept** and then go to **Navigators** to perform Med Rec and take care of VTE and other admission orders.

## VTE Risk Stratification Navigator (From BPA)

If you have clicked **VTE Risk Stratification** on the initial BPA, you will be taken to a VTE Risk Stratification Navigator.

1. Click **VTE Stratification** or **New Reading** to open the VTE Risk Stratification tool



2. Click **Row Info**, **Last Filed**, and **All Choices** to ensure you see the full navigator.
3. Once you have answered every question, click **Next**.

VTE Risk Stratification - VTE Risk Stratification

Time taken: 0810 8/15/2016

Show Row Info Last Filed Details All Choices

Values By

VTE Risk Stratification

Surgery length

0=No Surgery 1=Surgery length less than 1 hour 2=Surgery length 1 to 2 hours  
3=Surgery length 2 to 3 hours 5=Surgery length greater than 3 h...

Risk Factors for VTE 5 points each

None/Unknown CVA (within past 30 days) Major trauma (within past 30 days)  
Hip, pelvis, or leg fracture (within past 30 days) Spinal cord injury or paralysis (within past 30 days)

Risk Factors for VTE 3 points each

None/Unknown Elevated serum homocysteine or anticardiolipin antibodies Factor V Leiden  
Prothrombin 20120A Lupus Anticoagulant Other thrombophilia Heparin induced thrombocytopenia (HIT)  
Personal history of SVT, DVT, or PE Family history of DVT, or PE Present cancer or chemotherapy

Risk Factors for VTE 2 points each

None/Unknown Current Central line Previous malignancy

Risk Factors for VTE 1 point each

None/Unknown Blood transfusion (within past 30 days) Heart attack (within past 30 days)  
Congestive heart failure (within past 30 days) Sepsis/serious infection (within past 30 days)  
Pneumonia (within past 30 days) Immobilizing cast on lower extremity (within past 30 days) COPD  
Anticipated bedrest greater than 72 hours Legs currently swollen  
Varicose veins (distended, tortuous, or engorged)  
Inflammatory bowel disease, diverticulitis, Crohn's disease or ulcerative colitis  
History of major surgery within the past 6 months Currently on birth control or hormone replacement therapy  
Pregnancy or delivery (within past 30 days)

VTE Age Risk

Row information:  
Age 41-59 score 1 point  
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VTE BMI Risk Factor

Row information:  
BMI of 30-39 score 1 point  
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BMI above 50 score 3 points

VTE Total Risk Score

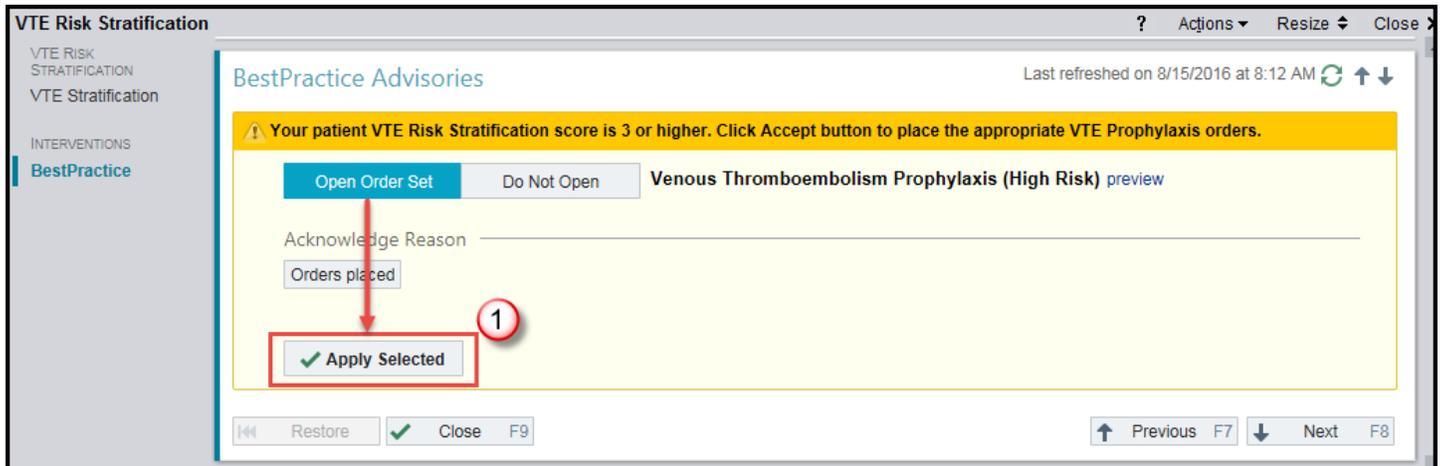
Risk of developing VTE:  
A score of 0-1 indicates **low** risk for VTE  
A score of 2 indicates **moderate** risk for VTE  
A score of 3 or greater indicates **high** risk for VTE

Restore Close F9 Cancel Previous F7 Next F8

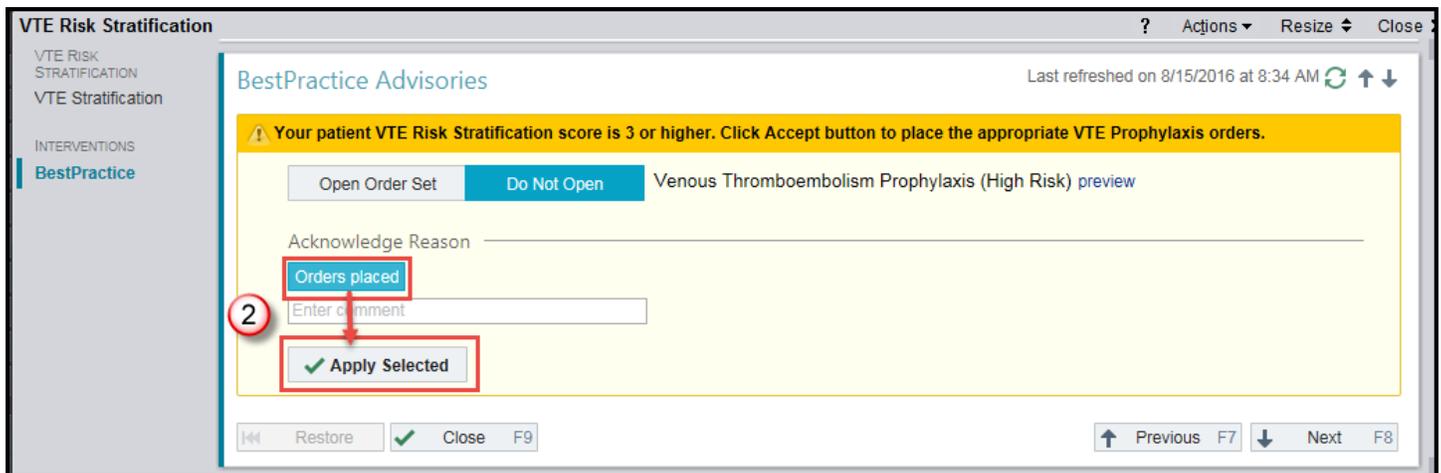
A **Best Practice** section will open in the navigator. **Note:** this BPA will be there only if you are the first provider to perform the Risk Stratification.

You have two choices:

1. **Open Order Set** button is pre-selected. Click **Apply Selected** to open the risk appropriate VTE Prophylaxis order set.



2. Click **Orders Placed** and **Apply Selected** if you have already addressed VTE Prophylaxis orders.



## VTE Order Sets

If you do not use an order set to place admission orders, you can search for “VTE” in **Order Sets** section and pull the appropriate VTE orders for your patient.

VTE Order Sets exist in Epic independently of admission order sets. They can be accessed from within Med Rec or from Manage Orders.

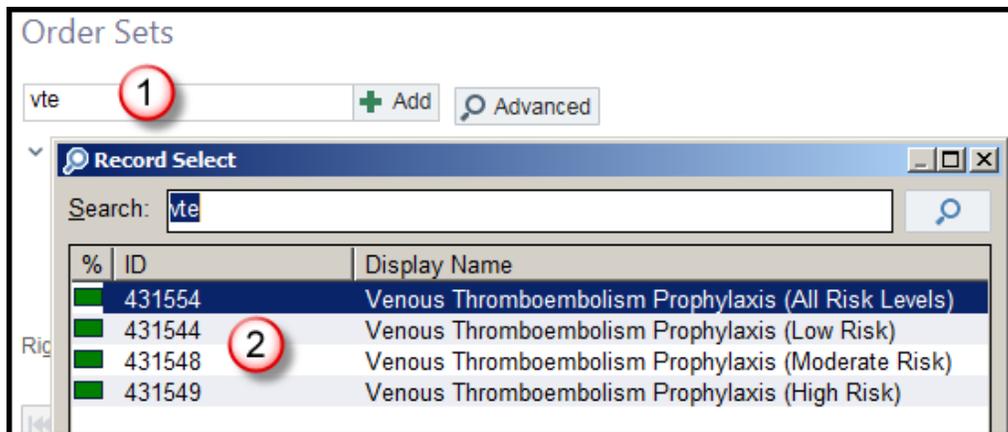
There are four VTE order sets:

- Venous Thromboembolism Prophylaxis (has all risk levels)
- Venous Thromboembolism Prophylaxis (Low Risk)
- Venous Thromboembolism Prophylaxis (Moderate Risk)
- Venous Thromboembolism Prophylaxis (High Risk)

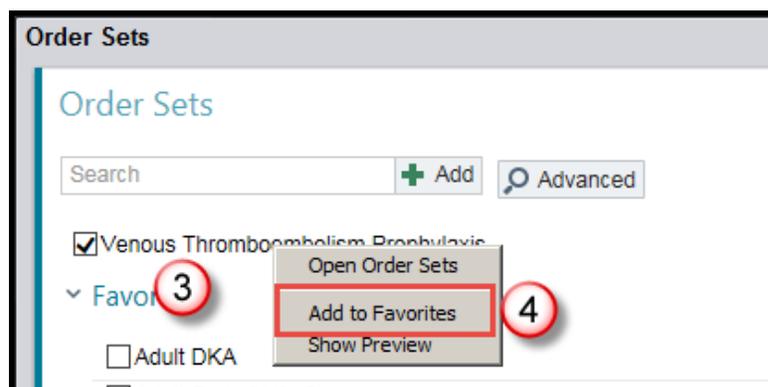
### Saving VTE Order Sets to Favorites:

Any order set – including the VTE order sets – can be opened from the order sets section and saved as Favorites

1. In the Order Sets search field, type “**vte**” and press Enter
2. **Select** the VTE order set you would like



3. Once the order set has been selected, **right-click on the name** of the order set
4. Click **Add to Favorites**



**Repeat steps 1-4 for each order set you would like to add to your favorites.**

## List of Order Sets with VTE Prophylaxis Orders

### Admission Order Sets

- Adult Admission (182562)
- Adult ICU/CVCU Admission (88)
- Cardiac Admission (431514)
- Inpatient Rehab Admission (431509)
- Adult Neurosurgery Admission (431498)
- Ischemic Stroke Admission - No Tpa (431513)
- Ischemic Stroke Admission - With Tpa (431525)

### Post-Op Order Sets

- Adult Neurosurgical Post-Op Carotid Endarterectomy (62)
- Adult Ent Post-Op Thyroidectomy (426235)
- Adult General Surgery Post-Op (431103)
- Adult Gyn Oncology Post-Op Surgery (421466)
- Adult Gynecology Major Surgery Post-Op (69)
- Adult Orthopedic Surgery (96)
- Adult Plastic Surgery Post-Op (431145)
- Adult Post- Op Breast Surgery (410935)
- Adult Post-Op Abd Aortic Aneurysm Repair/Stent (426209)
- Adult Post-Op Abdominal Aortic Aneurysm Repair Open (426208)
- Adult Post-Op Anterior And Posterior Cervical Fusion (410970)
- Adult Post-Op Carotid Endarterectomy-Vascular Surgery (407355)
- Adult Post-Op Craniotomy (410969)
- Adult Post-Op Ent Surgery (426229)
- Adult Post-Op Lumbar Laminectomy (67)
- Adult Post-Op Urology (70)
- Adult Thoracic Surgery Post-Op (428693)
- Adult Vascular Post-Op Lower Extremity (407360)
- Affinity Group - Hip Fracture Post-Op Order Set (431478)
- Cervical Laminectomy And Microdiscectomy (431454)
- Lumbar And Thoracic Fusion (431457)
- Affinity Group - Post-Op Cesarean Order Set (431459)
- Adult Laparoscopic Adjustable Gastric Banding Surgery: Immediate Post-Op Orders (428304)
- Adult Laparoscopic Gastric Bypass Surgery: Immediate Post-Op Orders (428308)
- Adult Laparoscopic Sleeve Gastrectomy Immediate Post-Op (431494)
- Adult Open Gastric Bypass Surgery : Immediate Post-Op Orders (424662)
- Adult Fast Track Colon Resection Surgery: Immediate Post-Op Orders (431531)