

Tennessee Pharmacists Coalition on Medication Safety Anticoagulation and VTE Adverse Drug Event Gap Analysis

Updated 08/13/2014



Tennessee Pharmacist Coalition on Medication Safety Anticoagulation and VTE Adverse Drug Event Gap Analysis

Antithrombotic and Anticoagulation Management Practices			
Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
1a) The facility has assigned responsibility for coordinating antithrombotic and anticoagulation monitoring functions.	<input type="checkbox"/>	<input type="checkbox"/>	
1b) The facility has a process in place to ensure fields contained in standard protocols/order sets/flow sheets are consistently populated (manually or automatically) with key information, including at a minimum:			
i. The patient's diagnosis.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Allergies.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Most recent pertinent laboratory results.	<input type="checkbox"/>	<input type="checkbox"/>	
1c) The facility has standard policies and practices in place for managing the initiation and maintenance of antithrombotic and anticoagulation therapy which include:			
i. The specific medication used (e.g., low molecular weight heparin (LMWH), warfarin, unfractionated heparin (UFH), Vitamin K reversal, direct thrombin inhibitors, Factor X inhibitors, Factor containing products, platelets, desmopressin).	<input type="checkbox"/>	<input type="checkbox"/>	
ii. The condition being treated.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. The potential for drug interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. The potential for patient specific interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
v. The facility has a protocol in place to determine the need to reverse supra-therapeutic INR values based on key criteria (e.g., the INR value, the presence or absence of bleeding, individual patient situation, e.g., imminent surgery).	<input type="checkbox"/>	<input type="checkbox"/>	
vi. The facility has a process in place to ensure that anti-platelet agents are used for the appropriate indication (e.g., patients with mechanical valves, acute coronary syndrome, or recent stent or bypass surgery).	<input type="checkbox"/>	<input type="checkbox"/>	
1d) The facility's Vitamin K practice specifies in patients with no evidence of warfarin associated bleeding:			
i. No routine use of Vitamin K for INR between 4.5 and 10.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. The use of oral Vitamin K for INR >10.	<input type="checkbox"/>	<input type="checkbox"/>	
1e) In patients with warfarin associated major bleeding:			
i. Reversal may be accomplished with the addition of Vitamin K 5 -10 mg given by slow IV infusion.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Reversal may also be accomplished with prothrombin complex concentrate and the addition of Vitamin K 5 -10 mg given by slow IV infusion.	<input type="checkbox"/>	<input type="checkbox"/>	

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Antithrombotic and Anticoagulation Prevention and Mitigation Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
2a) Antithrombotics and anticoagulants are included in the organization's defined list of high alert medications.	<input type="checkbox"/>	<input type="checkbox"/>	
2b) A system is in place to alert health care practitioners to significant drug interactions for patients on antithrombotic or anticoagulant agents.	<input type="checkbox"/>	<input type="checkbox"/>	
2c) A system is in place to remind the prescriber to evaluate the need for initiating and reinitiating therapy when antithrombotics and anticoagulants are being held for future surgical purposes.	<input type="checkbox"/>	<input type="checkbox"/>	
2d) A pharmacy managed system is in place for antithrombotic and anticoagulant drug shortage situations which outlines how standard medication safety processes will be followed.	<input type="checkbox"/>	<input type="checkbox"/>	
2e) The facility has a process in place to prevent IV antithrombotic and anticoagulant orders from being entered into the pharmacy system without including patient weight.	<input type="checkbox"/>	<input type="checkbox"/>	
2f) The facility uses smart infusion pumps for the IV administration of all antithrombotics and anticoagulants (including platelet inhibitors), with functionality employed to:			
i. Intercept and prevent wrong dose errors.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Intercept and prevent wrong infusion rate errors.	<input type="checkbox"/>	<input type="checkbox"/>	

Antithrombotic and Anticoagulation Therapeutic Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
3a) The facility has a process in place, using a standardized tool, to address and document the following prior to initiating antithrombotic and anticoagulation therapy:			
i. Nutritional status.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Recent trauma.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Surgery.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Bleeding problems experienced while receiving any previous antithrombotic or anticoagulant therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Anticoagulation/Clotting history.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Drug/drug interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Patient specific interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
viii. The facility has a process in place for pharmacists to assist with identification of alternative antithrombotic agents when contraindications exist.	<input type="checkbox"/>	<input type="checkbox"/>	
ix. The indication and therapeutic goal for antithrombotic or anticoagulant therapy is documented in the patient's medical record and communicated to pharmacy for monitoring and managing patient therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
3b) The facility has processes in place for timely access to routine test results which include:			
i. INR, PTT and anti-Xa level available within 2 hours.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Health care providers can readily access inpatient and outpatient laboratory results to guide antithrombotic and anticoagulant therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. When an antithrombotic or anticoagulant agent is administered in the ED or other outpatient settings (e.g., cardiac cath lab, radiology), the inpatient medication record and chart is updated to communicate this information to other practitioners.	<input type="checkbox"/>	<input type="checkbox"/>	

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3c) For critical test results reporting, the facility has defined acceptable lengths of time between:			
i. Ordering critical hematologic tests (e.g., INR, PPT) and reporting of the test results.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. The availability of the results and confirmation of receipt by a health care provider.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. The receipt of results by a health care provider and clinically appropriate antithrombotic dose changes.	<input type="checkbox"/>	<input type="checkbox"/>	

Warfarin Management Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
4a) The facility has standard processes in place for initiation of warfarin therapy and daily dosing, which include:			
i. Collection of baseline lab values prior to prescribing anticoagulant. e.g. warfarin naive patient (30 days prior), warfarin maintenance patient (24 hr prior)	<input type="checkbox"/>	<input type="checkbox"/>	
ii. The INR is the primary laboratory test used to monitor and adjust warfarin therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Nutritional assessment.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Drug/drug interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Lab values.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. History of thrombosis or bleeding event.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Recent trauma or surgery.	<input type="checkbox"/>	<input type="checkbox"/>	
viii. Allows ability to adjust INR target range for clinical indication.	<input type="checkbox"/>	<input type="checkbox"/>	
ix. Screening for interactions between enteral nutrition products and anticoagulation therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
x. Obtaining blood draws for INR at the same time each day.	<input type="checkbox"/>	<input type="checkbox"/>	
xi. Administering warfarin at the same time each day after INR results are available (e.g., afternoon / evening).	<input type="checkbox"/>	<input type="checkbox"/>	
xii. Warfarin is started on Day 1 or 2 of LMWH or UFH therapy initiation.	<input type="checkbox"/>	<input type="checkbox"/>	

Warfarin Prevention and Mitigation Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
5a) The facility's warfarin management practices include:			
i. Notification of dietary services when a patient is receiving warfarin therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Automatic nutrition consults when patients are first placed on warfarin to avoid drug-food interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Warfarin is dispensed in unit dose only (e.g., warfarin tablets are not split).	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Warfarin is not available as floor stock unless stored in an automated dispensing cabinet that is interfaced with pharmacy.	<input type="checkbox"/>	<input type="checkbox"/>	
v. All strengths of warfarin tablets dispensed within the facility are purchased from a single manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	
5b) The facility's practice for handoff communication to the next provider of care includes:	<input type="checkbox"/>	<input type="checkbox"/>	
i. Inpatient warfarin dosing history.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Inpatient INR value history.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Date the next INR is due.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Daily warfarin dosing schedule to be followed until date of next INR.	<input type="checkbox"/>	<input type="checkbox"/>	
v. A confirmed appointment scheduled for laboratory, physician, and/or anticoagulation clinic.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. The facility's practice for patients who are being discharged on warfarin therapy and have a sub-therapeutic INR includes a transition plan for:	<input type="checkbox"/>	<input type="checkbox"/>	

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a. Consistent evaluation regarding the need for LMWH until a therapeutic INR is reached.	<input type="checkbox"/>	<input type="checkbox"/>	
b. Maintaining patient on LMWH until a therapeutic INR is reached (when appropriate).	<input type="checkbox"/>	<input type="checkbox"/>	

Oral Anticoagulant and Antithrombotic Management Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
6a) The facility has standard processes in place for initiation of oral anticoagulant or antithrombotic therapy, which include:	<input type="checkbox"/>	<input type="checkbox"/>	
i. Collection of baseline lab values prior to prescribing anticoagulant or antithrombotic.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Drug/drug interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. History of thrombosis or bleeding event.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Recent trauma or surgery.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Administering anticoagulant or antithrombotic at the same time each day.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Transitioning the patient from warfarin, heparin, or LMWH to an oral anticoagulant agent or from an oral anticoagulant agent to warfarin, heparin, or LMWH.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Renal adjustment policy that is individualized for each agent.	<input type="checkbox"/>	<input type="checkbox"/>	
viii. Monitoring and/or discontinuing anticoagulant / antithrombotic therapy prior to invasive procedures.	<input type="checkbox"/>	<input type="checkbox"/>	
ix. Management of bleeding events.	<input type="checkbox"/>	<input type="checkbox"/>	
x. Reversal agents are on formulary with policies for appropriate use.	<input type="checkbox"/>	<input type="checkbox"/>	

Parenteral Anticoagulant Management Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
7a) The facility has processes in place for:			
i. Safely managing the care and removal of epidural catheters placed during regional anesthesia when LMWH has been administered for surgical prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Monitoring, discontinuing, and/or reinitiating anticoagulant therapy prior to invasive procedures (e.g., INR within specific range or target).	<input type="checkbox"/>	<input type="checkbox"/>	
iii. The facility directs prescribers to employ a continuous infusion when IV heparin is prescribed (not intermittent IV administration) to achieve a therapeutic PTT or heparin level.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. When LMWH or UFH therapy is greater than 3 days, a process is in place that ensures that a platelet count and serum creatinine are repeated every 3 days.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Standard guidelines are used for laboratory monitoring of LMWH in special populations (e.g., renal dosing, pregnancy, and morbid obesity).	<input type="checkbox"/>	<input type="checkbox"/>	
7b) When laboratory reagents that are used to measure the PTT or other hematological tests are changed:			
i. There is a process in place to inform prescribers, pharmacists, and nurses about the change.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. There is a process in place to update affected dosing protocols and order sets.	<input type="checkbox"/>	<input type="checkbox"/>	

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Parenteral Anticoagulant Prevention and Mitigation Practices

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
8a) The facility has processes in place to eliminate errors in preparation, storage, and dispensing which includes:			
i. Utilizing unit dose LMWH (round to the nearest dose if using a syringe).	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Limiting concentrations of heparin stored in automated dispensing machines and as floor stock. (e.g., Do not store 10,000 units/mL 1mL vials in automated dispensing cabinets or as floor stock)	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Dispensing commercially prepared, pre-mixed IV solutions of UFH in limited concentrations.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Dispensing commercially prepared, pre-mixed IV solutions of UFH in limited vial sizes.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Dispensing commercially prepared, pre-mixed IV solutions of UFH in prefilled heparin flushes.	<input type="checkbox"/>	<input type="checkbox"/>	
8b) The facility has a process in place to perform an independent double-check for UFH (e.g., with smart pump technology or nurse double-check) with:			
i. Each new bag hung.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Each rate change.	<input type="checkbox"/>	<input type="checkbox"/>	

Parenteral Anticoagulant Therapeutic Strategies

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
9a) The facility has processes in place to initiate and monitor heparin via lab values including:			
i. A baseline hemoglobin, hematocrit, serum creatinine and platelet count are obtained prior to initiating antithrombotic therapy with unfractionated heparin or LMW heparin.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. PTTs are obtained no sooner than 6-8 hours after UFH initiation.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Laboratory tests have standard intervals for assessment (e.g., Hgb every 3 days, platelets every 3 days).	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Prior to ordering any heparin product, the facility requires prescribers to specifically ask patients if they have a known history of heparin induced thrombocytopenia (HIT) and/or an allergy to heparin. Positive responses are documented in the medical record.	<input type="checkbox"/>	<input type="checkbox"/>	
v. A VTE prophylaxis protocol is in place for acutely ill or critically ill medical patients that includes use of low dose UFH, LMWH or fondaparinux.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. The facility's renal anticoagulant dosing program allows a pharmacist or prescriber to routinely adjust the doses of LMWH, Factor Xa inhibitors, and direct thrombin inhibitors.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. The facility's documentation process for LMWH injections includes date and time of dose, and site of injection.	<input type="checkbox"/>	<input type="checkbox"/>	
9b) For patients on UFH:			
i. If platelet count decreases to less than 100,000/mm ³ or less than 50% of the baseline that the patient is evaluated for HIT in real-time.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. If the patient is diagnosed with HIT, all sources of heparin are discontinued including heparin flush.	<input type="checkbox"/>	<input type="checkbox"/>	

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Critical Thinking and Knowledge Strategies

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
10a) The facility provides interdisciplinary education on antithrombotic therapy, which includes:			
i. Initial training for new hires and existing staff, including protocols and guidelines.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Post-test incorporating a case-study approach to demonstrate proficiency.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Plan for targeting gaps in knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Ongoing antithrombotic education is provided to direct care staff when new relevant information is available.	<input type="checkbox"/>	<input type="checkbox"/>	

Patient Education

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
11a) When initiating antithrombotic therapy, patients/caregivers receive verbal and written information on purpose, action, side effects, and monitoring.	<input type="checkbox"/>	<input type="checkbox"/>	
11b) The facility has a process in place to educate patients and families on anticoagulants, using teach-back method, to ensure safe therapy including:			
i. Indication.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Symptoms for monitoring.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Dietary issues.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Drug interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Monitoring requirements.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Duration of therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Potential adverse effects.	<input type="checkbox"/>	<input type="checkbox"/>	
11c) Pharmacists are available for consultations to assist with patient education when any health care practitioner identifies a patient who is at risk for non-adherence.	<input type="checkbox"/>	<input type="checkbox"/>	

VTE Prevention and Mitigation Strategies

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
12a) The facility has a designated team (may be an existing committee with the addition of content matter experts) to oversee VTE prophylaxis protocol and order set development, updates, and use.	<input type="checkbox"/>	<input type="checkbox"/>	
12b) Staff roles and responsibilities in the VTE prophylaxis process are well defined.	<input type="checkbox"/>	<input type="checkbox"/>	
12c) The facility has a process in place to ensure timely ordering and implementation of VTE prophylaxis according to physician orders and evidence based practice.	<input type="checkbox"/>	<input type="checkbox"/>	
12d) The facility's VTE prophylaxis protocol includes, at a minimum:			
i. Assessment and documentation of patient VTE risk factors, using evidence-based criteria, upon hospital admission, at change in level of care and at discharge.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Encouragement of patient mobility.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Assurance of proper fitting, application, and use of mechanical VTE options.	<input type="checkbox"/>	<input type="checkbox"/>	

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iv. Education of patients and their families on the purpose and benefits of pharmacological and mechanical VTE prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Education of patients on post-discharge VTE prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Post-discharge assessment/screening follow-up, via telephone call or postcard, with patient and/or family.	<input type="checkbox"/>	<input type="checkbox"/>	
12e) The facility has a process in place to:			
i. Monitor/audit the appropriate use of VTE protocols.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Provide timely feedback when lapses of protocol use are discovered.	<input type="checkbox"/>	<input type="checkbox"/>	

VTE Therapeutic Strategies

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
13a) The facility has a process in place to ensure that:			
i. Prophylaxis recommendations are based on risk assessment, consistent with evidenced-based measures/guidelines and are individualized for each patient receiving anticoagulation therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. A protocol for use of mechanical prophylaxis with intermittent pneumatic compression (IPC) is implemented per evidenced-based practice and manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. All patients with moderate to high risk of venous thromboembolism are started on pharmacologic prophylaxis based on the hospital's identified recommendations – unless contraindicated.	<input type="checkbox"/>	<input type="checkbox"/>	
13b) The facility uses smart infusion pumps for the IV administration of all antithrombotics, with functionality employed to:			
i. Intercept and prevent wrong dose errors.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Intercept and prevent wrong infusion rate errors.	<input type="checkbox"/>	<input type="checkbox"/>	

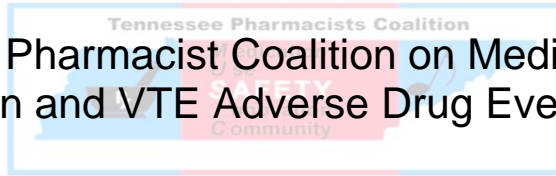
VTE Critical Thinking and Knowledge Strategies

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
14a) The facility provides interdisciplinary education on VTE prophylaxis, which includes:			
i. Initial training for new hires and existing staff, including protocols and guidelines.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Post-test incorporating a case-study approach to demonstrate proficiency.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Plan for targeting gaps in knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Ongoing VTE prophylaxis education is provided to direct care staff when new relevant information is available.	<input type="checkbox"/>	<input type="checkbox"/>	

Patient and Family VTE Education

Gap Analysis Questions	Yes	No	If answered "No" – identify the Specific Action plan(s) including persons responsible and timeline to complete.
15a) The facility has a process in place to educate patient/families prior to initiation of VTE prophylaxis using teach-back method, which includes:			
i. Signs and symptoms of VTE.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. The importance of VTE prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. The correct use of mechanical VTE prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Importance of early ambulation and hydration after surgery.	<input type="checkbox"/>	<input type="checkbox"/>	
v. The possible side effects of VTE prophylaxis.	<input type="checkbox"/>	<input type="checkbox"/>	

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15b) The facility has a process in place to educate patients and families on anticoagulants, using teach-back method, to ensure safe therapy including:			
i. Indication.	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Symptoms for monitoring.	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Duration of therapy.	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Dietary issues.	<input type="checkbox"/>	<input type="checkbox"/>	
v. Disease interactions.	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Monitoring requirements.	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Potential for adverse drug reactions and interactions.	<input type="checkbox"/>	<input type="checkbox"/>	

Adapted from:

Anticoagulation Agent Adverse Drug Event Gap Analysis – Component of the Medication Safety Road Map

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Venous Thromboembolism (VTE) Prevention Strategies Gap Analysis – Component of the Medication Safety Road Map

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Revisions by:

Tennessee Pharmacist Coalition on Medication Safety Best Practices Sub-Committee

References:

Guyatt GH, Akl EA, Crowther M, Gutterman DD, Schuunemann HJ. Chest. 2012; 141(2_suppl):7S-47S. doi:10.1378/chest.1412s3.

Agno W, Gallus AS, Wittkowsky A, Crowther M, Hylek EM, Palareti G. Chest. 2012; 141(2_suppl):e44S-e88S. doi:10.1378/chest.11-2292.