# Rapid-cycle Improvement Program

## Venous Thromboembolism Assessment



#### WHAT IS THIS TOOL?

This assessment allows hospitals to identify opportunities for improvement in venous thromboembolism prevention, including through the appropriate use of anticoagulants. Use this tool to interview unit-based staff and compare current practices with recommended evidence-based best practices.

#### WHO SHOULD USE THIS TOOL?

Hospital-based quality improvement teams focused on preventing VTE.

#### **ASSESSMENT PROCESS:**

- Review the hospital's internal policies and protocols.
- Review electronic medical records for selected patients to evaluate the presence of documented assessments and interventions.
- Complete the assessment with unit-based staff from multiple hospital areas to ensure that unit-to-unit variation is accounted for in any hospital-wide action plans developed as a result of the assessment
- Review responses with your EQIC project manager for additional guidance and next steps.



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EVIDENCE-BASED PRACTICE	PRACTICE I	IN PLACE?	NOTES			
ORGANIZATIONAL STRUCTURE AND CULTURE	'					
An interdisciplinary team or committee focused on VTE prevention meets regularly.	Yes	No				
This team reports to the hospital quality improvement committee or board of directors.	Yes	No				
The hospital has identified an executive sponsor.	Yes	No				
The hospital has a performance improvement program in place.	Yes	No				
Policies/protocols have been developed and updated with current guidelines/evidence-based recommendations.	Yes	No				
New treatments, equipment designed to assist with treatment and prevention are frequently evaluated.	Yes	No				
DATA COLLECTION AND REPORTING						
VTE rates are tracked regularly.	Yes	No				
Anticoagulation ADE rates are tracked regularly.	Yes	No				
Tracked VTE and anticoagulation ADE rates are delineated by unit location.	Yes	No				
The hospital uses a standardized reporting mechanism (i.e., dashboard) to track incidence and outcomes.	Yes	No				
Data are shared with clinicians, frontline staff and key stakeholders.	Yes	No				
STAFF EDUCATION						
Staff that receive education and training on VTE prevention strategies include <i>(check all that apply)</i> :	Providers Frontline staff Clinical support staff Transport staff Environmental staff					

EVIDENCE-BASED PRACTICE	PRACTICE IN PLACE?		NOTES
STAFF EDUCATION (CONTINUED)	'		
Staff education about VTE prevention and treatment is provided:	At orientation Annually Other; describe:		
A VTE/anticoagulant subject matter expert or champion is available to staff for questions and real-time education.	Yes	No	
A patient and family advisory council or another committee with patient representation is involved in developing VTE education.	Yes	No	
QUALITY IMPROVEMENT			
The VTE interdisciplinary team includes:			
Physician	Yes	No	
Pharmacist	Yes	No	
Nurse leaders	Yes	No	
Subject matter expert in anticoagulant safety	Yes	No	
Frontline staff	Yes	No	
Quality improvement staff	Yes	No	
Information technology staff	Yes	No	
PFAC member	Yes	No	
The VTE team routinely reviews reports that address VTE prevention and treatment including:			
Time in therapeutic range of warfarin (e.g., Rosendaal method)	Yes	No	
International normalized ratio above and below target range (consider EQIC measure)	Yes	No	
<ul> <li>Clinical events, such as relevant bleeding (e.g., use of rescue agents)</li> </ul>	Yes	No	
Thromboembolic events	Yes	No	
Safety monitoring for heparin-induced thrombocytopenia	Yes	No	
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EVIDENCE-BASED PRACTICE	PRACTICE	IN PLACE?	NOTES
QUALITY IMPROVEMENT (CONTINUED)			
Protocol for HIT	Yes	No	
Hospitalization and mortality related to anticoagulant use (include complications related to target-specific oral anticoagulant and direct oral anticoagulant utilization)	Yes	No	
PROTOCOLS			
There a systematic, standardized approach in place for assessing a patient's risk for VTE for the following patients:			
Medical	Yes	No	
Surgical	Yes	No	
Other service areas	Yes	No	
The standardized approach provides evidence-based guidance related to:			
VTE risk stratification	Yes	No	
Bleeding risk	Yes	No	
Mechanical prophylaxis	Yes	No	
Pharmacological choices for VTE prevention	Yes	No	
Pharmacological choices for VTE treatment	Yes	No	
Baseline laboratory tests	Yes	No	
POINT OF CARE RESOURCES			
Guidance is available to frontline staff that supports:			
Initiation of pharmacological VTE prevention for patients at high risk for bleeding	Yes	No	
Anticoagulation therapy, maintenance, discontinuation and interruption	Yes	No	
Switching from warfarin to TSOACs or DOACs	Yes	No	
Management of potential or actual anticoagulation therapy- related bleeding	Yes	No	
Managing extremes of anticoagulation therapy	Yes	No	
Peri-procedural anticoagulation monitoring and management	Yes	No	

EVIDENCE-BASED PRACTICE	PRACTICE I	N PLACE	?	NOTES
PATIENT EDUCATION				
Patient education on VTE is provided:				
Verbally	Yes	No		
In written form	Yes	No		
Using audio-visual	Yes	No		
With a demonstration of understanding (teach-back)	Yes	No		
Standardized, age-appropriate patient education for all anticoagulants is provided, including for:				
Warfarin	Yes	No	N/A	
Heparin	Yes	No	N/A	
• DOACs	Yes	No	N/A	
• TSOACs	Yes	No	N/A	
The patient education program:				
<ul> <li>Ensures patients understand drug titration and maintenance plan, including the importance of adhering to the dosage schedule.</li> </ul>	Yes	No		
Provides education relevant to disease and associated drug therapy.	Yes	No		
CARE TRANSITIONS				
Discharge summary and referral materials accurately communicate the treatment plan to the next care setting and nclude:				
An accurate medication list that details medications stopped, started or changed during the hospital stay	Yes	No		
Dietary habits (i.e., vegetarian, other) and what impact, if any, this may have on the drug	Yes	No		
History of falls	Yes	No		
Other significant past medical history	Yes	No		
Diagnosis or indication for anticoagulant therapy	Yes	No		
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EVIDENCE-BASED PRACTICE	PRACTICE	IN PLACE?	NOTES
CARE TRANSITIONS (CONTINUED)			
Start date if new to anticoagulant therapy	Yes	No	
Date, time and dose of last dose given	Yes	No	
Date, time and dose of the next dose due	Yes	No	
Duration of therapy with a stop/end date for all agents prescribed	Yes	No	
Target INR and range, if appropriate	Yes	No	
Next INR due, if appropriate	Yes	No	
Pertinent labs:			
<ul> <li>Last 2-3 INR results</li> </ul>	Yes	No	
<ul> <li>Serum creatinine or creatinine clearance</li> </ul>	Yes	No	
<ul> <li>Hematocrit/hemoglobin, platelets</li> </ul>	Yes	No	
<ul><li>Other</li></ul>	Yes	No	

### THIS TOOL IS BASED ON:

Ansell, J.; Streiff, M.; Crowther, M., Guidance for the Treatment of Deep Vein Thrombosis and Pulmonary Embolism, Anticoagulation Forum webinar, Jan. 20, 2016 https://acforum.org/web/education-guidance.php

Cuker, A., Burnett, A., Triller, D., Crowther, M., Ansell, J., Van Cott, E. M., Wirth, D., & Kaatz, S. (2019). Reversal of direct oral anticoagulants: Guidance from the Anticoagulation Forum. American Journal of Hematology, 94(6), 697-709. https://doi.org/10.1002/ajh.25475

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The Joint Commission. R3 Report: Requirement, Rationale, Reference. National Patient Safety Goal for anticoagulant therapy. TJC, Issue 19, Dec. 7, 2018. <a href="https://www.jointcommission.org/-/media/tjc/documents/standards/r3-reports/r3\_19\_anticoagulant\_therapy\_rev\_final1.pdf">https://www.jointcommission.org/-/media/tjc/documents/standards/r3-reports/r3\_19\_anticoagulant\_therapy\_rev\_final1.pdf</a>

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