

- Work with preceptor to develop a peri-procedural plan for a warfarin or DOAC patient.
- Report all adverse drug events according to the University of Utah Hospital protocols.
- Document assessment and plan in the chart without errors in a timely manner.

Week 4:

- Demonstrate competency and confidence in almost all warfarin dosing scenarios of varying complexity.
- Assess quality of patient's warfarin therapy, and for those receiving suboptimal therapy suggest modes to optimize therapy (compliance aids such as pillbox/alarms/dosing calendar, engaging a caregiver, change in tablet strength, same daily dosing, home meter, telephone management, switch to DOAC).
- Independently manage the daily clinic patient schedule, adapting seamlessly to unexpected schedule changes such as walk-ins, patients who come early or late or visits that take longer than expected.
- Independently determine duration of therapy for a patient with unprovoked VTE.
- Independently develop peri-procedural plan for a warfarin or DOAC patient.
- Respond to any drug information requests from providers.
- All presentations and project documents or revisions will be due no later than the next to the last day of residency.

RLS Goals and Objectives

- Goal R1.1: In collaboration with the health care team, provide safe and effective patient care to a diverse range of patients, including those with multiple co-morbidities, high-risk medication regimens, and multiple medications following a consistent patient care process.
 - OBJ 1.1.1 (Applying) Interact effectively with health care teams to manage patients' medication therapy.
 - OBJ 1.1.2 (Applying) Interact effectively with patients, family members, and caregivers.
 - OBJ 1.1.3 (Analyzing) Collect information on which to base safe and effective medication therapy.
 - OBJ 1.1.4 (Analyzing) Analyze and assess information on which to base safe and effective medication therapy.
 - OBJ 1.1.5 (Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans).
 - OBJ 1.1.6 (Applying) Ensure implementation of therapeutic regimens and monitoring plans (care plans) by taking appropriate follow-up actions.

- OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.
- Goal 2.2: Demonstrate ability to evaluate and investigate practice, review data, and assimilate scientific evidence to improve patient care and/or the medication-use system.
 - OBJ 2.2.5 (Creating) Effectively develop and present, orally and in writing, a final project report.
- Goal R3.1: Demonstrate leadership skills.
 - OBJ 3.1.2 (Applying) Apply a process of on-going self-evaluation and personal performance improvement.
- Goal R3.2: Demonstrate management skills.
 - OBJ 3.2.4 (Applying) Manages one's own practice effectively.
- Goal R4.1: Provide effective medication and practice-related education to patients, caregivers, health care professionals, students, and the public (individuals and groups).
 - OBJ 4.1.2 (Applying) Use effective presentation and teaching skills to deliver education.

Rotation Activities and Teaching Methods Linked to Objectives

Rotation Activity	Teaching Method(s)	Objective
Conduct an initial anti-thrombotic therapy selection consult. <ul style="list-style-type: none"> • Perform a review of the patient's history including concomitant disease states, prior thrombotic and bleeding events, current medications, laboratory results, and cost for potential therapy options. • Perform medication reconciliation during patient visit. • Provide education about appropriate therapy options. • Design a plan for initiating drug therapy including appropriate follow-up monitoring. • Communicate the drug therapy and monitoring plan to the patient/caregiver and the referring provider. 	Coaching Facilitation	OBJ 1.1.1 (Applying) Interact effectively with health care teams to manage patients' medication therapy. OBJ 1.1.2 (Applying) Interact effectively with patients, family members, and caregivers. OBJ 1.1.3 (Analyzing) Collect information on which to base safe and effective medication therapy. OBJ 1.1.4 (Analyzing) Analyze and assess information on which to base safe and effective medication therapy. OBJ 1.1.5 (Creating)

<ul style="list-style-type: none"> Document the clinical screening, education, and therapy plan in the EMR. 		<p>Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). OBJ 1.1.6 (Applying) Ensure implementation of therapeutic regimens and monitoring plans (care plans) by taking appropriate follow-up actions. OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.</p>
<p>Conduct a new patient education visit.</p> <ul style="list-style-type: none"> Perform a review of the patient's history including concomitant disease states, prior thrombotic and bleeding events, current medications, and laboratory results. Perform medication reconciliation during patient visit. Provide drug-specific education to the patient/caregiver. Document the education session in the EMR. 	<p>Coaching Facilitation</p>	<p>OBJ 1.1.2 (Applying) Interact effectively with patients, family members, and caregivers. OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.</p>
<p>Conduct a follow-up visit for a warfarin patient.</p> <ul style="list-style-type: none"> Perform point-of-care INR blood test. Conduct patient/caregiver interview to obtain appropriate information about medication compliance, dietary or medication changes, changes in health status, upcoming procedures, bleeding or thrombotic complications. Assess the efficacy and safety of warfarin therapy via TTR, and 	<p>Direct instruction Modeling (for POC INR testing) Coaching Facilitation</p>	<p>OBJ 1.1.2 (Applying) Interact effectively with patients, family members, and caregivers. OBJ 1.1.3 (Analyzing) Collect information on which to base safe and effective medication therapy. OBJ 1.1.4 (Analyzing) Analyze and assess information on which to</p>

<p>formulate an alternative therapy plan as appropriate.</p> <ul style="list-style-type: none"> Analyze the information obtained in the patient interview to design a warfarin dosing and monitoring plan. Communicate the dosing and monitoring plan to the patient/caregiver. Document the assessment and plan in the EMR. 		<p>base safe and effective medication therapy.</p> <p>OBJ 1.1.5 (Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans).</p> <p>OBJ 1.1.6 (Applying) Ensure implementation of therapeutic regimens and monitoring plans (care plans) by taking appropriate follow-up actions.</p> <p>OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.</p>
<p>Design a peri-procedural anticoagulation plan.</p> <ul style="list-style-type: none"> Determine the bleeding risk associated with the procedure and patient. Determine the thrombotic risk associated with the procedure and patient. If applicable, design a plan for discontinuing anticoagulation pre-procedure. If applicable, employ a bridging strategy using heparin or LMWH. Design a plan for re-initiating anticoagulation post-procedure. Coordinate a plan for follow-up monitoring. Communicate the plan to the patient/caregiver, proceduralist, and referring provider. Document the assessment and plan in the EMR. 	<p>Coaching Facilitation</p>	<p>OBJ 1.1.1 (Applying) Interact effectively with health care teams to manage patients' medication therapy.</p> <p>OBJ 1.1.4 (Analyzing) Analyze and assess information on which to base safe and effective medication therapy.</p> <p>OBJ 1.1.5 (Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans).</p> <p>OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.</p>

<p>Conduct a follow-up encounter for a non-warfarin anticoagulant (LMWH or DOAC).</p> <ul style="list-style-type: none"> • Follow-up call • Review progress notes from recent clinic visits/ED visits/hospitalizations, assess for upcoming procedures, interacting medications, review appropriate laboratory parameters, and need for medication refill. • Call the patient/caregiver to inquire about medication compliance, appropriate dosing, and any other changes that may not have been reflected in the EMR. • Document the assessment and plan in the EMR. 	<p>Coaching Facilitation</p>	<p>OBJ 1.1.2 (Applying) Interact effectively with patients, family members, and caregivers.</p> <p>OBJ 1.1.3 (Analyzing) Collect information on which to base safe and effective medication therapy.</p> <p>OBJ 1.1.4 (Analyzing) Analyze and assess information on which to base safe and effective medication therapy.</p> <p>OBJ 1.1.6 (Applying) Ensure implementation of therapeutic regimens and monitoring plans (care plans) by taking appropriate follow-up actions.</p> <p>OBJ 1.1.7 (Applying) Document direct patient care activities appropriately in the medication record where appropriate.</p>
<p>Submit an adverse event report.</p>	<p>Coaching Facilitation</p>	<p>OBJ 1.1.4 (Analyzing) Analyze and assess information on which to base safe and effective medication therapy.</p>
<p>Use and incorporate feedback from preceptors to continuously improve patient care interactions and dosing/monitoring decision-making.</p>	<p>Coaching Facilitation</p>	<p>OBJ 3.1.2 (Applying) Apply a process of ongoing self evaluation and personal performance improvement.</p>
<p>Manage the patient schedule efficiently.</p>	<p>Coaching Facilitation</p>	<p>OBJ 3.2.4 (Applying) Manages one's own practice effectively.</p>

<ul style="list-style-type: none"> • See patients at their scheduled times and within the allotted time frame. • Adapt seamlessly to unexpected patient schedule changes. 		
Conduct a practice-based project.	Coaching Facilitation	<p>OBJ 2.2.5 (Creating) Effectively develop and present, orally and in writing, a final project report.</p> <p>OBJ 4.1.2 (Applying) Use effective presentation and teaching skills to deliver education.</p>

Readings and Preparatory Work

- Review the Outpatient Thrombosis Service Collaborative Practice Agreement.
<https://pulse.utah.edu/policies/Lists/Policies/DispForm.aspx?ID=2361>
- Review the Thrombosis Service Anti-thrombotic Therapy Guideline, with special emphasis on warfarin maintenance dosing and monitoring.
<https://pulse.utah.edu/policies/Lists/Policies/DispForm.aspx?ID=2936>
- Review the Thrombosis Service Direct Oral Anticoagulation Resources.
<https://pulse.utah.edu/site/throserv/Pages/DOAC.aspx>
- Also, an electronic folder will be maintained containing readings that include but is not limited to current guidelines for review and topic discussion throughout the experience.

Orientation Materials

Your preceptor will meet with you on the first day of rotation to make an individual orientation plan with you.

Project Description

Conduct a practice-based project, topic tailored to resident's interest and needs of the Thrombosis Service.

Evaluations

Evaluations will be documented in PharmAcademic™.

At the midpoint of the rotation, the preceptor will evaluate the resident. At the end of each rotation, the resident will self-evaluate, the preceptor will evaluate

the resident, and the resident will evaluate both the preceptor and the learning experience.