# RISK MANAGEMENT IN ANTICOAGULATION

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### **Faculty Disclosures**

Youssef Bessada, PharmD, BCPS, BCCP has no actual or potential conflict of interest associated with this presentation

Previous iteration developed by:

- Michael Smith, Pharm.D., BCPS, CACP
- Information reviewed, updated and built upon for new iteration

### Learning Objectives

- 1. Discuss the education and training needs of pharmacists who participate in anticoagulation services.
- 2. Discuss the documentation needs of a pharmacists-run anticoagulation service or clinic.
- 3. Identify corporate infrastructure needs to support anticoagulation services or clinics.
- 4. Explain the necessary implementation strategies for establishing, strengthening and sustaining an anticoagulation stewardship program



### Risk and the Rise of Anticoagulation Stewardship



Daily Pharmacy Practice Requires Risk Mitigation Strategies:

- Involvement of pharmacy personnel & anticoagulation clinics is proven to improve AC-outcomes
- However, with rise in DOAC use- there is also a rise in DOAC-related adverse events
- Pharmacists are taking on risk when they manage anticoagulation therapy (warfarin, DOACs, LMWH etc.)

Image from: Geller AI, et al. Thrombosis Research. 2023; 225, 110–115









### **Comprehension Question**

Anticoagulation stewardship, as a key to risk management, is most effective when implemented at which level of anticoagulation practice management?

- A. Individual-level
- B. Clinic-level
- c. System-level

**Anticoagulation Stewardship** - A coordinated, efficient, and sustainable <u>system-level</u> <u>initiative</u> designed to achieve optimal anticoagulant-related health outcomes and minimize avoidable adverse drug events (ADEs)

> Core Elements of Anticoagulation Stewardship Program. AC Forum. Accessed 03-24-2025 Burnett AE & Barnes GD. Res Pract Thromb Haemost. 2022 Jul 17;6(5):e12757.

















# Policies, Protocols & Pathways

#### Policies

- Define roles, responsibilities and limitations (based on license)
- Define education process/standard (providers & patients)
- Define prescription actions
- Define patient enrollment, discharge and referral (e.g. non-compliance)

#### Protocols

- Outline actions associated with various roles
- In collaborative practice: define dose-adjustment principles, follow-up and critical values for reporting (and actions)
- Provide standardized management steps & processes

#### Pathways

- Simplified, proactively agreed upon protocols, in acute management situations
- Outline the exact steps & processes each discipline follows in a specific situation
- Centered around patient
- Require multidisciplinary buy-in

Core Elements of Anticoagulation Stewardship Program. AC Forum. Accessed 03-24-2025 National Quality Forum & Anticoagulation Forum. Advancing Anticoagulation Stewardship: A Playbook. Accessed 2025 03 28



### Policies, Protocols & Pathways

#### <u>Necessities</u>:

- **Should** ALL be created with multidisciplinary support (Cardiology, Hematology, Pharmacy, Surgery etc.)
- Should be reviewed and approved by leadership regularly
- Should be able to guide new practitioners through key patient scenarios
- Should be clearly documented, if and when, variance from policy occurs

#### Outcome of successful policies, protocols & pathways:

- · Shifts responsibility and risk from individual practitioners/ care providers
- Reduces "avoidable" errors and allows root cause analysis for "unavoidable" errors as basis for quality improvement

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### **Comprehension Question**

The goal of a successful policy, protocol or decision pathway is to...

- A. Confine decisions to a set of rules that all providers must adhere to
- B. Minimize risk by reducing the need for clinical judgement calls
- c. Shift risk from individual practitioners/ care providers on to system





## **Documentation:** Inpatient Examples





#### Documentation

#### **Documentation Logistics**

- Paper-charts are prone to error/loss and are out of favor
- Computer-based documentation specific to health system (many available)
  - Commercial
  - Health-system specific
- Key part of infrastructure in risk management strategy

#### **Keys to Effective Documentation Software**

- Single database allows for more congruent data collection & dissemination, and minimizes avoidable errors
- Maintains patient privacy
- Utilizes technology to minimize risk, if available (population health reporting, clinician-decision support tools, best practice alerts, effective provider communication etc.)
- Allows for quick & effective access to quality improvement data desired by system (e.g. TTR, % in therapeutic range, missed appointments, incorrect DOAC dosing etc.)
- No perfect system, just perfect practice on existing systems

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### **Comprehension Question**

A key tenant to risk management strategy in anticoagulation management is continuous quality improvement, which can best be implemented into **daily** workflow by:

- A. Constantly updating to the best software to review metrics
- B. Standardizing documentation to allow for easy retrieval of key metrics
- c. Minimizing the number of clinic visits per day to allow for metric review



