# 2016 American Nurses Association Annual Conference

Connecting **Quality**, **Safety** and **Staffing** to Improve Outcomes



## RN Anticoagulation Therapy Management Model: Improving Patient Care and Safety in the Ambulatory Care Setting

Mary M. Morin, RN, NEA-BC Vice President and Nurse Executive, Sentara Medical Group Friday, March 11, 2016, Session C203

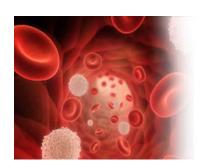






## **Background**

- Warfarin is one of the most common drugs associated with adverse drug events nation-wide
- July 2012 Serious safety events:
  - 2 deaths related to sub-therapeutic INR
  - Other adverse events and near misses associated with anticoagulation therapy
- Processes not standardized







### **Performance Improvement**

- October 2012 SMG assigned to standardize anticoagulation therapy management
- Non-acute care settings
- Conducted current state analysis:
  - extreme variances in practices
  - lack of discreet data
- Goal: design an innovative, centralized, and standardized RN/PharmD model



## **Guiding Principles**

- Safe
- Patient-Centered/Access
- Integrated, Standardized Processes



- Evidence-Based, Data-Driven Decision-Making
- RNs and PharmDs Practice within Scope of Licensure
- Cost Avoidance/Risk Mitigation

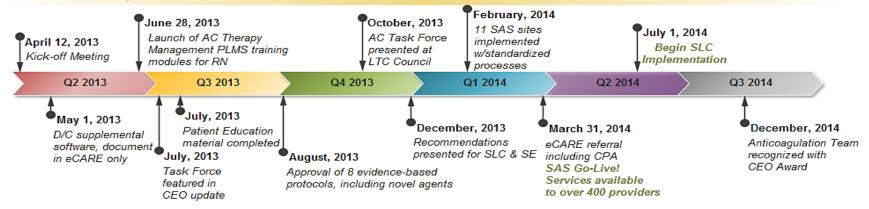
#### Connecting Quality, Safety and Staffing to Improve Outcomes





#### **Anticoagulation Task Force**

Safety Focused, Patient-Centered, Evidence-Based Best Practices, Collaborative



#### Reduction in variance & increased consistency

Reduces the risk of error and ultimately potential for adverse event

#### Engage patient & family

Comprehensive patient/caregiver education material and consistent interaction with a registered nurse

#### Evidence-based Best Practice

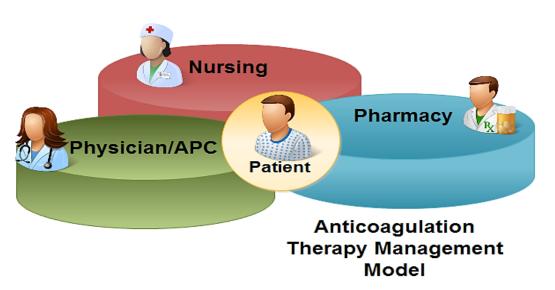
Well aligned with Sentara's strategic goals; caring for defined populations & improving health & safety

#### **Optimization of Clinical Resources**

RN/PharmD model provides the opportunity to reduce workload for the provider so they can focus on other important aspects of patient care

#### Reduction of Waste

Evidence-based protocols require less frequent INR testing







## **Highlights**

- RN-Driven Anticoagulation Clinics (SASC)
- Evidenced-based protocols (warfarin dosing, INR testing)
- PharmD virtual support
- PharmD-driven bridging and dosing protocols for directed oral anticoagulants (DOACs) through collaborative practice agreement
- Highly standardized visit processes and documentation





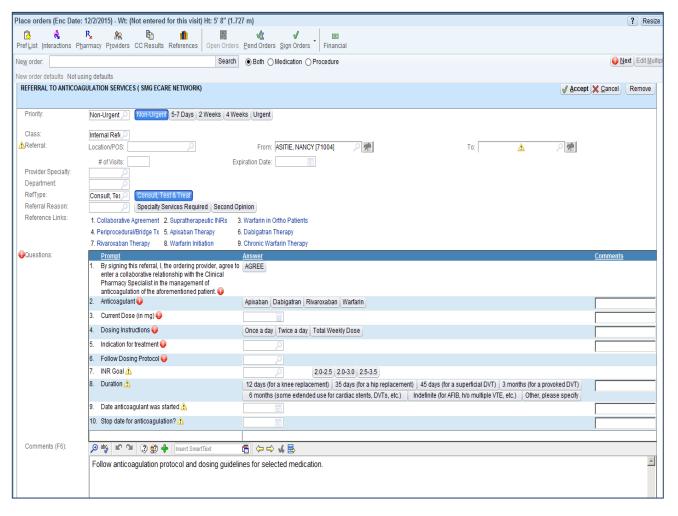
## **Highlights**

- Provider "in-basket" messaging by RN and PharmD
- PharmD virtual consultation and tracking of interventions
- Standardized, ongoing patient/caregiver education
- RN/PharmD model implementation in Life Care and Home Health (future)
- 2014 Sentara CEO Award
- Improved reporting of ADEs
- 100% SMG provider referral





### **Referral Documentation Process**







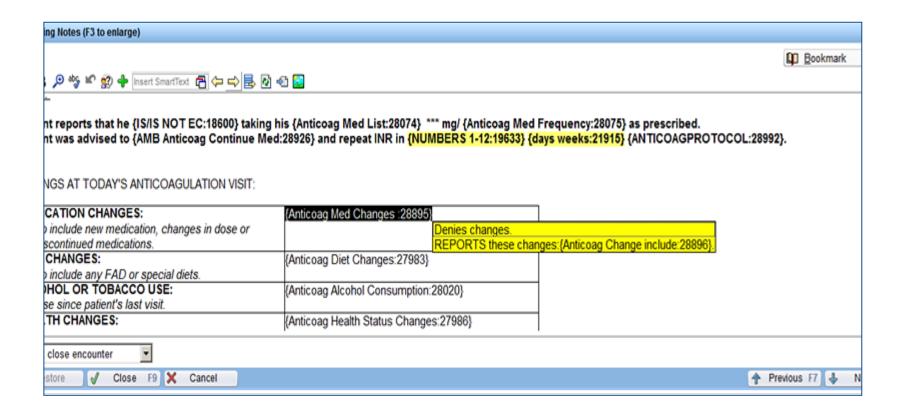
## **RN Anticoagulation Visit Documentation**

Asitie, Nancy, RN Registered Nurs  P Edit in NoteWriter P Edit X Delete	e Sign at close encounter	Service date: 12/02/2015 1112
Theodore Battleship 12/2/2015		
PLAN:		
Patient reports that he {IS/IS NOT EC:18600} taking his {Anticoag Med List:28074} *** mg/ {Anticoag Med Frequency:28075} as prescribed.  Patient was advised to {AMB Anticoag Continue Med:28926} and repeat INR in {NUMBERS 1-12:19633} {days weeks:21915} {ANTICOAGPROTOCOL:28992}.		
FINDINGS AT TODAY'S ANTICOAGULATION VISIT:		
MEDICATION CHANGES:  • To include new medication, changes in dose or discontinued medications.	(Anticoag Med Changes :28895)	
DIET CHANGES:     To include any FAD or special diets.	{Anticoag Diet Changes:27983}	
ALCOHOL OR TOBACCO USE:  • Use since patient's last visit.	{Anticoag Alcohol Consumption:28020}	
HEALTH CHANGES:     To include any acute illnesses, diarrhea, vomiting etc.	(Anticoag Health Status Changes:27986)	
RECENT HOSPITALIZATIONS:  • To include any admission since patient's last visit.	{Anticoag Recent Hospitalization:28497}	
PROCEDURES/SURGERIES:  • To include steroid injections, tooth extractions, colonoscopy, surgeries, etc.	(Anticaog denies reports procedure:28897)	
BLEEDING ISSUES:	{Anticoag s/s bleeding:28901}	1
CLOTTING ISSUES:	{Anticoag s/s clotting:28903}	
This information was reported by {Anticoag data collected	i by:28984}	
(AMB ANTICOAG LAST 7 DOSE:28668) (AMB LAST INR RESULTS:28669) Patient education reinforced: (Anticoag education topics:28631). Patient verbalized understanding.		
Nancy Asitie, RN		
SOUTH HAMPTON ROADS FAMILY PRACTICE 120 Corporate Blvd		





### **RN Anticoagulation Visit Documentation**



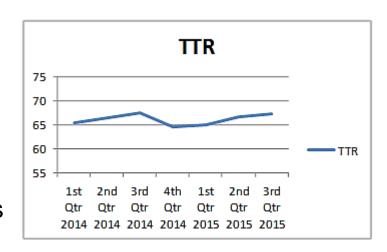




### **Sharing Success: SMG Nursing**

#### 2014-2015 SMG SASC data:

- 31 RNs across 17 sites
- ~9,000 patients
- 117,044 clinic visits; 28,416 virtual visits
- TTR 66% (benchmark 55%-65%)
- 100% RN education/training (initial and annually)
- 8 SASC RNs Ambulatory Nursing Board Certified in 2015
- Nursing IRB approved research study on protocol vs. non-protocol TTR
- No Serious Safety Events







## **Sharing Success: SMG Nursing**

#### State and National Presentations:

- HPI Annual Safety Summit, podium presentation, October 2013
- Virginia Patient Safety Summit, poster presentation, January 2014, 2015, 2016 (JAN Podium)
- American Academy of Ambulatory Care Nurses poster presentation, April 2014 and 2015
- Virginia Nurses Association Education Day, poster presentation, September 2014,
   2015 (NOV)
- National Conference of the Anticoagulation Forum, poster presentation, April 2015
- American Nurse Association, Podium Presentation, 2016 (MAR)

#### **Anticoagulation Documentation:**

- Time in Therapeutic Range (TTR) by site/SMG "TTR on the Fly"
- Robust SASC referral (SMG and non-SMG providers)

Connecting Quality, Safety and Staffing to Improve Outcomes







To err is human, to cover up is unforgivable and to fail to learn in inexcusable.

Sir Liam Donaldson

### Connecting Quality, Safety and Staffing to Improve Outcomes





