

ACTIVE LEARNING TEMPLATE: **Medication**

STUDENT NAME Alexa Dolar REVIEW MODULE CHAPTER \_\_\_\_\_  
MEDICATION Heparin  
CATEGORY CLASS Anticoagulant

**PURPOSE OF MEDICATION**

**Expected Pharmacological Action**  
interferes w/ blood coagulation by blocking conversion of prothrombin to thrombin & fibrinogen to fibrin.

**Therapeutic Use**  
prevents further extension of existing thrombi or new clot formation. no effect on existing clots.

**Complications**

Puritus, burning (caused from vasoplastic reaction), pain, cyanosis of extremity (6-10 days), chills, fever, pruritus, asthma, rhinitis, urticaria, hemorrhage.

**Medication Administration**

**Therapeutic INITIAL:**  
10K-20K units, then 8K-10K units q8hr or 15K-20K q12hr  
**PROPHYLAXIS:**  
5K units q8-12hr  
**Antidote:** protamine sulfate

**Contraindications/Precautions**

uncontrolled bleeding, severe renal impairment & hepatic impairment, retinopathy, spinal/brain injury, diabetes mellitus.

**Nursing Interventions**

- observe injection sites for hematoma, bruise & inflammation
- Assess for bleeding, black tarry stool
- monitor H&H values, PT, platelet

**Interactions**

**Drug:** Aspirin, NSAIDs, penicillins, quinidine, digoxin, tetracyclines, nicotine, antihistamines  
**Products:** chamomile, garlic, ginger

**Client Education**

- explain purpose of med
- report signs of any unusual bleeding
- do not take aspirin/NSAIDs
- use soft bristle tooth brush & electric razor

**Evaluation of Medication Effectiveness**

no new blood clots developed or previous clots expanding.

ACTIVE LEARNING TEMPLATE: **Medication**

STUDENT NAME Alexa Dolan  
 MEDICATION Enoxaparin (Lovenox)  
 CATEGORY CLASS Anticoagulant

REVIEW MODULE CHAPTER \_\_\_\_\_

**PURPOSE OF MEDICATION**

**Expected Pharmacological Action**

Enhances the inhibition rate of clotting proteases by antithrombin. Impairs normal hemostasis & inhibition of factor Xa.

**Therapeutic Use**

Produces anticoagulation, doesn't influence PTT, aPTT

**Complications**

S/E: (in) site hematoma, nasal peripheral edema.  
 Comp.: Bleeding complications (major hemorrhage), Heparin induced thrombocytopenia

**Medication Administration**

Knee/hip → 30mg Q12hr start 12-24 hr after surgery for 7-10 days  
ABD → 40mg once daily, 2hr before surgery, 7-12 days  
Acute → 40mg; 6-14 days once daily

**Contraindications/Precautions**

C- Active major bleeding, concurrent heparin therapy, pork products, Hx of heparin induced thrombocytopenia ≥ 100 days.  
 P- increased hemorrhage, platelet defects, renal impairment, elderly, GI ulcerations, stroke, hepatic disease.

**Nursing Interventions**

- monitor CBC
- stool for blood
- monitor ↓ platelet count if under 50k = HIT
- assess for any signs of bleeding

**Interactions**

Drug: (Apixiban, Anticoagulants), (Antiplatelets, Aspirin), (NSAID, Ibuprofen), (Thrombolytics), Warfarin = ↑ anticoagulant, risk for bleeding  
 Herbal: Garlic, ginger = ↑ adverse effects  
 Lab: ↑ Alkaline phosphatase, ALT, AST, ↓ Hgb, Hct, RBC, Platelets

**Client Education**

- Use full course (7-11 days)
- health care professional will show how to properly prep & inject medication
- Report any signs of bleeding
- Report any signs of stroke
- do not take aspirin

**Evaluation of Medication Effectiveness**

DVT/PE symptoms are relieved, clotting decreased

ACTIVE LEARNING TEMPLATE: **Medication**

STUDENT NAME Alexa Doan REVIEW MODULE CHAPTER \_\_\_\_\_  
MEDICATION Warfarin (Coumadin)  
CATEGORY CLASS anticoagulants → Antidote: vit K

PURPOSE OF MEDICATION

**Expected Pharmacological Action**  
interferes w/ hepatic synthesis of vitamin K-dependent clotting factors (II, VII, IX, & X)

**Therapeutic Use**  
prevention of thromboembolic events

Complications

dermal necrosis, cramps, nausea, calciphylaxis, bleeding, fever

Medication Administration

PO: 2-5mg/day for 2-4 days, then adjust daily dose by results of INR (2-10mg/day)  
→ give w/o regard to food, give w/food if GI upset occurs & give @ same time everyday  
tablets: 1, 2, 2.5, 3, 4, 5, 6, 7.5, 10mg

Contraindications/Precautions

uncontrolled bleeding, open wounds, active ulcer disease, (Brain, eye, spinal injury/surgery), severe hepatic impairment, uncontrolled hypertension, hx of ulcers, liver disease, AKI, hx of poor compliance, malignancy.

Nursing Interventions

- Assess for signs of bleeding & hemorrhage/fall in hct or Hb.
- monitor PT & INR
- monitor stool & urine for occult blood before & periodically during tx.

Interactions

Androgens, capecitabine, cetotetan, fluconazole, fluorquinolones, thrombolytics, NSAIDs, acetaminophen, alcohol, hormonal contraceptives containing estrogen, barbiturates  
→ St. John's wort, chamomile, clove, garlic, ginger, licorice.

Client Education

- take medication as directed
- do not double dose
- limit vit K intake
- report symptoms of unusual bleeding, bruising, discoloration or temp change immediately.
- do not drink alcohol NSAIDs

Evaluation of Medication Effectiveness

prolonged PT or INR w/o signs of hemorrhage  
(1.3 → 2x control) (2-4.5)

Nursing 102 Care of Adults  
Clinical Preparation Week

Cardiovascular: Anticoagulation

**\*\* Due Friday, February 7<sup>th</sup> by 0830 \*\***

Your Class Prep Assignment has multiple parts. Please make sure you complete ALL the required assignments to receive full credit and be prepared for your lab.

1. Complete the following module in EdPuzzle:

<https://edpuzzle.com/assignments/678566d9e2a7ace926e69b14/watch>

2. Watch these videos and answer the questions on the next page:

[https://youtu.be/74oq1p\\_tziE?si=uqLIAM5S4M1zPoiZI](https://youtu.be/74oq1p_tziE?si=uqLIAM5S4M1zPoiZI)

[https://youtu.be/Cnx2\\_uQFOEg?si=xaj59vt8koeRUve4](https://youtu.be/Cnx2_uQFOEg?si=xaj59vt8koeRUve4)

3. Complete ATI Templates for the following 3 anticoagulant medications (Bring these to the lab):

a. Heparin sodium (concentrate on subq route)

b. Enoxaparin (Lovenox) subq

c. Warfarin (Coumadin) PO.

\*Of note, these medications will **ALWAYS** be by memory on clinical day 1 and day 2

Additional medication templates that you will more than likely administer this semester you may decide to fill out a med template for (not required for CP grade): Xarelto, Eliquis, Arixta

4. Review your Heparin/Lovenox Administration Procedure 2025 and SQ Injection Administration Sites (will be on E360 1 week prior to the semester under "Clinical Prep")

5. Anticoagulation Questions:

- What lab is used to monitor Heparin therapy? **PTT**
- What lab is used to monitor Warfarin (Coumadin) therapy? **INR**
- What dietary considerations on Warfarin do you need to educate your patients on?
- Name (2) side effects of anticoagulants? **Bleeding & Bruising**
- What gauge needle do you use to administer a SQ injection? **23-25 g, 1/2"**
- Name (3) safe considerations/education needed for anticoagulants? ie.; no drinking alcohol

\*Be prepared to discuss all these documents throughout the lab

Nursing 102 Care of Adults  
Clinical Preparation Week

**Integumentary: Pressure Injuries**

**\*\* Due Friday, February 7<sup>th</sup> by 0830 to Mrs. Wingate's "Clinical Prep Integ Dropbox" \*\***

1.) Complete the following lesson in ATI Engage Medical Surgical RN:

- o Alterations in Tissue Integrity > "Pressure Injuries" and answer the questions within the lesson. (No need to print anything)

NO shaving,  
NO hard bristle tooth  
brush  
NO straining muscles  
(work out, constipation, etc)