

N322 Pharmacology  
Proctored ATI Remediation Template

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**Main Category: Psychosocial Integrity**

**Subcategory: Chemical and Other Dependencies/Substance Use Disorder**

**Topic: Substance Use Disorders: Medications for Alcohol Withdrawal**

- Benzodiazepines are the first-line treatment for treatment for alcohol withdrawal.
- Carbamazepine can be used to help decrease seizures.
- If alcohol is consumed with taking disulfiram it can cause acetaldehyde syndrome.

**Main Category: Clinical Judgement**

**Subcategory: Generate Solutions**

**Topic: Medications Affecting Blood Pressure: Anticipated Provider Prescriptions**

- Losartan can be prescribed for hypertension and help protect against an MI.
- Spironolactone can be prescribed for hypertension and heart failure.
- Aliskiren can help relieve hypertension when used alone or with another antihypertensive medication.

**Subcategory: Prioritize Hypotheses**

**Topic: Endocrine Disorders: Priority Findings for a Client Who is Taking Levothyroxine**

- Report any manifestations of overmedication to the provider. This includes anxiety, tachycardia, chest pain, and tremors.
- Monitor and report manifestations of cardiac excitability such as chest pain, palpitations, and dysrhythmias.
- Report any bleeding such as bruising and petechiae.

**Main Category: Pharmacological and Parenteral Therapies**

**Subcategory: Adverse Effects/Contraindications/Side Effects/Interactions**

**Topic: Antibiotics Affecting the Bacterial Cell Wall: Identifying an Anaphylactic Reaction to Ampicillin/Sulbactam**

- A rash can occur which could indicate an anaphylactic reaction.
- Another indication could be hypotension.
- Another indication is dyspnea.

**Topic: Chronic Neurologic Disorders: Teaching Adverse Effect of Gabapentin**

- Peripheral edema can occur with gabapentin this can cause swelling in the client's hands and feet.
- The risk for falls increases with use especially with use in the older adults.
- Gabapentin can cause dizziness and drowsiness. There is caution with driving.

**Topic: Depressive Disorders: Identifying a Contraindication of Fluoxetine**

- The use of SSRIs during late pregnancy can cause pulmonary hypertension of the newborn.
- This medication increases the risk of birth defects.
- Use cautiously in clients who have liver and kidney dysfunction, cardiac disease, and diabetes.

**Topic: Medications Affecting Coagulation: Contraindications for Antiplatelet Medications**

- Use cautiously in clients who have peptic ulcer disease and severe kidney disorders.
- Clients who have thrombocytopenia, had a recent stroke or has an aneurysm.
- Clients who have bleeding disorders or cerebral bleeds.

**Subcategory: Dosage Calculation**

**Topic: Dosage Calculation: IV Infusion Rate**

- Infusion pumps control an accurate rate for fluid infusion.

- Dimensional analysis can help determine infusion rates.
- Infusion rates need to be rounded to a whole number.

### Subcategory: Pharmacological Pain Management

#### Topic: Pain Management: Toddler's Need for Pain Medication

- Thrashing of upper and lower extremities can happen when a toddler is experiencing pain.
- A toddler can have a loud cry or can be screaming.
- Another way to determine if a toddler is experiencing pain is when they try to push away or avoid anything can be stimulating.

### Subcategory: Medication Administration

#### Topic: Growth Factors: Route of Administration for Epoetin Alfa

- Can be administered by IV bolus or subcutaneous.
- Do not mix the medication with any other medication in the syringe.
- Dosing is usually three times per week.

#### Topic: Non-Opioid Analgesics: Identifying a Contraindication for Receiving Acetaminophen

- Avoid in clients who have hypersensitivity to a component, or severe liver impairment.
- Use IV form cautiously for clients who are breastfeeding.
- Avoid in clients who have kidney impairment and chronic alcohol use disorder.

#### Topic: Opioid Agonists and Antagonists: Client Teaching About Oxycodone

- Cough at regular intervals to prevent accumulation of secretions in the airway.
- Avoid any hazardous activities such as driving or operating heavy machinery.
- Medications with anticholinergic properties can increase manifestations.

#### Topic: Vitamins and Minerals: Administration of Ferrous Sulfate Elixir

- Increase water and fiber intake and maintain an exercise program to counter the constipation effects.
- Space doses at approximately equal intervals throughout the day to get the most efficiency increase red blood cell production.
- Take with food if GI adverse effects occur.

#### Topic: Vitamins and Minerals: Teaching About Ferrous Sulfate Elixir

- Stools can become black or dark green when taking an iron preparation.
- Dilute liquid iron with juice or water, drink with a straw.
- Caffeine and dairy products can interfere with absorption.

### Subcategory: Parenteral/Intravenous Therapies

#### Topic: Connective Tissue Disorders: Indications for the Administration of Cyclosporine

- Can be administered to help prevent organ transplant rejection.
- Cyclosporine can be administered for management of atopic dermatitis or severe psoriasis.
- This medication can be given to a patient who has rheumatoid arthritis.

### Subcategory: Total Parenteral Nutrition

#### Topic: Gastrointestinal Therapeutic Procedures: Identifying Adverse Effects of Total Parenteral Nutrition

- An air embolism can occur due to pressure changes with tube changes.
- Infection can occur if any bacteria is introduced.
- Fluid and electrolyte imbalances can occur.

## Main Category: Reduction of Risk Potential

### Subcategory: Changes/Abnormalities in Vital Signs

#### Topic: Medications Affecting Blood Pressure: Identifying Findings Requiring Intervention

- Taking another type of antihypertensive medication increases the hypotensive effects of an ACE inhibitor.
- Position client in a supine position or intravenous fluid if hypotension occurs.
- Monitor lithium levels to avoid toxicity.

## Main Category: Physiological Adaptation

**Subcategory: Fluid and Electrolyte Imbalances****Topic: Vitamins and Minerals: Medications for a Client Who Has an Electrolyte Imbalance**

- Potassium chloride can cause some GI distress that includes esophagitis with oral administration.
- Ferrous sulfate can cause black or dark green stools. This normally resolves with continued use.
- Folic acid is used for treatment of megaloblastic anemia secondary to folic acid deficiency.

**Subcategory: Medical Emergencies****Topic: Medications Affecting Coagulation: Priority Finding to Report for a Client Who Is Taking Warfarin**

- Hemorrhage can occur if medication administration leads to high activated partial thromboplastin time.
- Administer vitamin K to promote synthesis of coagulation factors.
- Administer fresh frozen plasma or whole blood if vitamin K cannot control the bleeding.