

# ACTIVE LEARNING TEMPLATE: Medication

STUDENT NAME Makenna Miska

MEDICATION Pneumococcal Polysaccharide Vaccine (23-valent) REVIEW YOUR CHAPTER \_\_\_\_\_

CATEGORY CLASS Vaccine, inactivated (bacterial)

## PURPOSE OF MEDICATION

### Expected Pharmacological Action

- Active immunization promoting the production of antibodies against the pneumococcal disease caused by the 23 serotypes

### Therapeutic Use

- Prevention and reduction in the severity of symptoms of the pneumococcal disease.

### Complications

- Adverse reactions ~
  - Local: erythema, induration, soreness, and swelling at the injection site.
  - CNS: Headache, fatigue
  - Musculoskeletal: Asthenia, myalgia

### Medication Administration

- IM/Subq: 0.5ml  
IM or subq using a pre-filled syringe

### Contraindications/Precautions

- Bleeding Disorders ~ Bleeding
- Acute illnesses ~ consider delay in admin
- Cardiac Disease ~ systemic reaction can pose risk
- CSF leaks ~ therapeutic effect diminished

### Nursing Interventions

- Monitor the patient 75 mins after admin
- Assess allergies
- Provide V/S education
- Provide ice to reduce localized swelling
- Discuss risk/benefits

### Interactions

- Drugs ~ Acetaminophen: can diminish therapeutic effect
- Immunosuppressants, Methotrexate, corticosteroids, anti CD20 B-cell depleting therapies.

### Client Education

- Keep arm/injection site mobile to prevent soreness
- Additional vaccines may be necessary next season
- This vaccine may not completely prevent developing the illness
- Adverse effects/when to report

### Evaluation of Medication Effectiveness

- Reduce prevalence of the pneumococcal disease
- Less severe symptoms if the disease is contracted.

ACTIVE LEARNING TEMPLATE: **Medication**

STUDENT NAME Makenna Misra

MEDICATION Influenza virus vaccine (inactivated) MODULE CHAPTER \_\_\_\_\_

CATEGORY CLASS Vaccine, inactivated (viral)

**PURPOSE OF MEDICATION**

**Expected Pharmacological Action**

- Promotes immunity to seasonal influenza virus by inducing specific antibody production.
- Preparations from previous seasons must not be used.

**Therapeutic Use**

- Used to prevent and reduce the symptoms of the influenza virus.

**Complications**

- Adverse reactions ~
- GI: Anorexia (13% to 23%)
- Local: Bruising, erythema, induration, pain at injection site
- NS: Drowsiness, fatigue, headache, irritability
- Fever, chest tightness, chills, cough

**Medication Administration**

- Adult ~ Afluria
- ≤ 64 years of age  
IM: 0.5 mL per dose
- > 64 years of age  
IM: 0.5 mL per dose

**Contraindications/Precautions**

- Contraindications ~ Severe allergic reaction to any component of the formulation. eg, anaphylaxis
- History of severe allergic reaction to egg protein.
- Precautions ~ Oculorespiratory syndrome
- acute self-limiting reaction to IV.
- Shoulder injuries, syncope, acute illness.

**Nursing Interventions**

- Monitor the patient > 15 mins after admin
- Assess any allergies
- Provide patient education on vaccines
- Discuss risk/benefits of the vaccine

**Interactions**

- Drug ~ Acetaminophen: may diminish the therapeutic effects of vaccines
- ~ Anti-CD20 B-cell Depleting Therapies: May also diminish effects.
- ~ Elivaldogene Autotemcel: may enhance the adverse/toxic effects of the vaccine.

**Client Education**

- Discuss that the vaccine only protects for 1 flu season, additional vaccines are needed yearly
- Discuss side effects/ what to report
- The vaccine is not a cure for the flu
- Keep arm/injection site mobile to prevent soreness

**Evaluation of Medication Effectiveness**

- Prevention of the influenza virus
- Less severe symptoms if the influenza vaccine is contracted