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MEDICATION Pneumococcal Conjugate Vaccine (13-Valent) REVIEW MODULE CHAPTER

CATEGORY CLASS Vaccine

PURPOSE OF MEDICATION

Expected Pharmacological Action

Promotes active immunization against invasive disease caused by S. pneumoniae capsular serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, and 23F, all which are individually conjugated to CRM197 protein.

Therapeutic Use

Pneumococcal disease prevention. Active immunization of for prevention of invasive disease caused by Streptococcus pneumoniae serotypes contained in the vaccine.

Complications

Side effects: loss of strength and energy,
headache, chills, lack of appetite, muscle pain, joint pain, injection site pain or irritation, trouble moving arm that injection was given.

Adverse effects: drowsiness, fatigue, insomnia, irritability, rashy, decreased appetite, decreased range of motion, fever, erythema, pain, swelling, tenderness at injection site.

Contraindications/Precautions

Contraindications: Severe allergic reaction to pneumococcal vaccine or any component of the formulation.

Precautions: Anaphylactoid/hypersensitivity reactions, Shoulder injury related to administration, syncope, acute, illness, asplenia, bleeding disorders, chronic illness, HIV, pneumococcal infections, and sickle cell disease.

Interactions

Drug: acetaminophen, corticosteroids, fingolimod, immunosuppresants, influenza virus vaccine, meningococcal conj. vaccine, methotrexate,pneumococcal polysaccharide vaccine, propacetamol, RiTUXimab, and siponimo all diminish the therapeutic effect of the vaccine. \

Food: none listed

Evaluation of Medication Effectiveness

Have available emergency treatment in case of anaphylactic or hypersensitivity reaction.

Monitor for syncope for at least 15 minutes after administration.

Medication Administration

IM: 0.5 mL/ as single dose in deltoid muscle.

Shake well prior to use. Do not use if a homogenous white suspension does not form.

Nursing Interventions

Monitor the patient for anaphylaxis and syncope for at least 15 minutes following the administration of the vaccine.

Assess any acute febrile illness before administration.

Client Education

Educate the client of any possible side effects.

Instruct the client to immediately seek medical attention if signs of allergic reaction or more severe side effects occur.