Guide to Administering Intramuscular Immunizations: Human Papilloma Virus Vaccine (HPV) Deltoid Muscle

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Objectives

- The participant will correctly identify site to administer intramuscular (IM) immunization (Human Papilloma Virus Vaccine)
- The participant will correctly determine appropriate needle length and gauge for immunization
- The participant will appropriately return demonstration for administering IM immunization
Education

- Provide family a current Vaccine Information Sheet and allow time to answer questions.
- Educate the patient/family of the immunization schedule. Encourage to program next due date into calendar of phone if possible or post on refrigerator for reminder to return.
Injection Sites

- There are four sites that may be used for IM injections but with the Human Papilloma Virus Immunization, the Deltoid site is preferred.
Intramuscular Injection Sites

Site: Deltoid Muscle
- Clavicle
- Acromion process
- Deltoid muscle
- Injection site
- Brachial artery
- Radial nerve

Site: Dorsogluteal Muscle
- Posterior superior iliac spine
- Injection site
- Greater trochanter of femur
- Sciatic nerve

Site: Ventrogluteal Muscle
- Iliac crest
- Injection site
- Anterior superior iliac spine
- Greater trochanter of femur
- Sciatic nerve

Site: Vastus Lateralis Muscle
- Greater trochanter of femur
- Injection site (middle third)
- Vastus lateralis
- Lateral femoral condyle
Intramuscular Guidelines for Needle Length and Gauge Selection

- Deltoid muscle (upper arm)
- 1-1 ½ inch needle
- 22-25 gauge
- Insert at 90° angle

Adapted from Fundamentals of Nursing: Human Health and Function, R. Craven, C. Himle, 4th ed. Lippincott Williams & Wilkins 2003
Steps to Prepare for Administering the HPV Immunization

- Give patient/family the Vaccine Information Sheet in preferred language and allow time for questions, explain procedure for injection
- Gather supplies
- Wash hands
- Check immunization vial for expiration date
- Remember 5 rights – Right: patient, immunization, dose, time, and route
- Shake the vial to thoroughly agitate the immunization. It will be a cloudy white mixture.
- Remove vial cover if present and clean top of vial with alcohol wipe
- Allow to dry
- Prepare syringe by carefully removing needle cover, do not touch needle
- Pull appropriate amount of air into syringe to equal dose of medication to be drawn into syringe
- Stick needle into top of vial
- Inject air into the vial
- Turn vial upside down with needle in vial and draw up medication being sure to get air out of syringe
- Remove the needle from vial and place cap on
Steps to Prepare for Administering the HPV Immunization

- Use alcohol to clean the area for injection
- Hold the muscle of the injection site firmly between your thumb and fingers of one hand
- With the other hand, hold the needle and syringe like a pencil
- Using a quick dart like motion, insert the needle at a 90-degree angle through the skin and into the muscle
- Push slowly down to inject the immunization into the muscle
- Take the needle out/activate safety feature
- Apply slight pressure at the injection site and gently rub the site
- Discard the used needle and syringe properly into sharps container
- Apply a bandage if needed
- Wash your hands
- Clean work area, immunization vial into sharps container when complete
- Document appropriately to include site, lot number, and expiration date
Education Following Injection

- Remind the patient, family member that the site may be sore and may have redness or irritation following injection. Encourage comfort measures such as ice pack with skin barrier. The skin barrier can be a washcloth between skin and ice pack for 20 minutes on as needed and/or Tylenol if needed post immunization.
- Encourage to report to your office any local swelling, irritation, or other problems at injection site if of concern.
- Have patient sit approximately 10-15 min in area after vaccine as syncope (passing out) can occur.
- Remind patient to return for next dose until all three have been given.
Let’s review the attached document from Immunization Action Coalition “Medical Management of Vaccine Reactions in Children and Teens”
QUESTIONS & PRACTICE

Thank You!
Thank You!
Thank You!