

Immunization Station

Age	Immunization
2 months	<u>Vaxelis (DTaP-IPV/HepB/Hib)</u> , <u>Vaxneuvance (PCV15)</u> , <u>RotaTeq (RV5)</u>
4 months	<u>Vaxelis (DTaP-IPV/HepB/Hib)</u> , <u>Vaxneuvance (PCV15)</u> , <u>RotaTeq (RV5)</u>
6 months	<u>Vaxelis (DTaP-IPV/HepB/Hib)</u> , <u>Vaxneuvance (PCV15)</u> , <u>RotaTeq (RV5)</u> , <u>flu (eligible)</u>
12 months	<u>M-M-R II</u> , <u>Varivax (Varicella)</u> , <u>Vaqta (Hep A)</u>
15 months	<u>Vaxneuvance (PCV15)</u> , <u>Pentacel (DTaP-IPV/Hib)</u>
18 months	<u>Vaqta (Hep A)</u>
4 years	<u>ProQuad (MMR & Varicella)</u> , <u>Quadracel (DTaP-IPV)</u>
11 years	<u>Adacel (Tdap)</u> , <u>Menquadfi (ACWY)</u> , <u>Gardasil (HPV)</u>
16 years	<u>Menquadfi (ACWY)</u> , <u>Trumenba (Meningococcal B)</u>

Adacel (Tdap)

- **Number of doses:** 1 dose (booster) at 11–12 years old, then every 10 years.
- **Spacing:**
 - Administer at least 5 years after the last tetanus-containing vaccine.
- **Major teaching:**
 - Protects against tetanus, diphtheria, and pertussis.
 - Critical for adolescents and adults to prevent pertussis transmission to infants.
 - May cause mild pain or swelling at the injection site.

Gardasil (HPV)

- **Number of doses:**
 - 2 doses (6–12 months apart) for individuals starting at age 11–12 and under 15 years.
 - 3 doses (0, 1–2, and 6 months) for individuals ≥ 15 years or immunocompromised.
 - **Spacing:**
 - Ensure a minimum interval of 5 months between the first and last doses.
 - **Major teaching:**
 - Protects against HPV-related cancers and genital warts.
 - Most effective when given before exposure to HPV.
 - May cause fainting; observe adolescents for 15 minutes post-vaccination.
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M-M-R II (Measles, Mumps, Rubella)

- **Number of doses:** 2 doses (at 12–15 months and 4–6 years).
 - **Spacing:**
 - Minimum interval: 4 weeks between doses.
 - **Major teaching:**
 - Live vaccine; avoid in immunocompromised individuals or during pregnancy.
 - May cause mild fever or rash 1–2 weeks after vaccination.
 - Critical for preventing measles outbreaks.
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Menquadfi (Meningococcal ACWY)

- **Number of doses:** 2 doses (at 11–12 years and 16 years).
- **Spacing:**
 - At least 8 weeks between doses if additional doses are required for high-risk individuals.
- **Major teaching:**
 - Protects against meningococcal disease (ACWY serogroups).
 - Recommended for college students living in dormitories.

- May cause mild soreness at the injection site.
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Pentacel (DTaP-IPV/Hib)

- **Number of doses:** 4 doses (at 2, 4, 6, and 15–18 months).
 - **Spacing:**
 - Minimum interval of 4 weeks between doses in the primary series (2, 4, and 6 months).
 - Booster dose at 15–18 months, spaced at least 6 months after the third dose.
 - **Major teaching:**
 - Combines protection against 5 diseases: diphtheria, tetanus, pertussis, polio, and *Haemophilus influenzae* type b (Hib).
 - Reduces the number of injections needed at each visit.
 - Common side effects include mild fever, irritability, and injection site redness/swelling.
 - Ensure parents are aware of the importance of completing the series for full protection against these diseases.
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ProQuad (MMR & Varicella)

- **Number of doses:** 2 doses (at 4–6 years and earlier if needed).
 - **Spacing:**
 - Minimum interval of 3 months between doses.
 - **Major teaching:**
 - Combines MMR and Varicella for convenience.
 - Live vaccine; avoid in pregnancy or severe immunosuppression.
 - Mild rash or fever may occur.
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Quadracel (DTaP-IPV)

- **Number of doses:** 1 dose at 4–6 years.
- **Spacing:**
 - Must be spaced at least 6 months after the previous DTaP-IPV dose.
- **Major teaching:**
 - Protects against diphtheria, tetanus, pertussis, and polio.
 - Booster dose completes the series before entering school.

RotaTeq (RV5)

- **Number of doses:** 3 doses (at 2, 4, and 6 months).
 - **Spacing:**
 - Minimum interval of 4 weeks between doses.
 - Final dose must be administered before 8 months of age.
 - **Major teaching:**
 - Protects against severe rotavirus gastroenteritis.
 - Oral vaccine; no injection required.
 - Common side effects include mild diarrhea or fussiness.
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Trumenba (Meningococcal B)

- **Number of doses:** 2 doses (0 and 6 months apart).
 - **Spacing:**
 - A 3-dose schedule (0, 1-2, and 6 months) may be recommended for certain high-risk groups.
 - **Major teaching:**
 - Protects against meningococcal B disease, which can cause rapid and severe infections.
 - Recommended for individuals 16-23 years old, especially those in high-risk settings (e.g., college campuses).
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Vaqta (Hep A)

- **Number of doses:** 2 doses (at 12 months and 18 months).
 - **Spacing:**
 - At least 6 months between doses.
 - **Major teaching:**
 - Protects against hepatitis A, a liver infection spread by contaminated food/water.
 - Common side effects include mild injection site soreness.
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Varivax (Varicella)

- **Number of doses:** 2 doses (at 12–15 months and 4–6 years).
 - **Spacing:**
 - Minimum interval of 3 months between doses.
 - **Major teaching:**
 - Live vaccine; avoid in pregnancy or severe immunosuppression.
 - Mild rash or fever may occur 1–2 weeks after vaccination.
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Vaxelis (DTaP-IPV/HepB/Hib)

- **Number of doses:** 3 doses (at 2, 4, and 6 months).
 - **Spacing:**
 - Minimum interval of 4 weeks between doses.
 - **Major teaching:**
 - Protects against six diseases (diphtheria, tetanus, pertussis, polio, hepatitis B, and *Haemophilus influenzae* type b).
 - May cause mild fever, soreness, or swelling at the injection site.
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Vaxneuvance (PCV15)

- **Number of doses:** 4 doses (at 2, 4, 6, and 15 months).
 - **Spacing:**
 - Minimum interval of 4 weeks between primary doses.
 - Booster dose recommended at least 8 weeks after the 3rd dose.
 - **Major teaching:**
 - Protects against 15 serotypes of *Streptococcus pneumoniae*, which can cause pneumonia, meningitis, and bacteremia.
 - May cause mild fever or irritability post-vaccination.
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Flu Vaccine

FluMist (Live Attenuated Influenza Vaccine - LAIV4)

- **Type:** Live attenuated vaccine administered intranasally.
- **Age indications:** Approved for healthy individuals aged 2–49 years.
- **Effectiveness:** Comparable to the flu shot in most years but may vary depending on the season and strains.
- **Contraindications:**
 - Children <2 years or adults ≥50 years.
 - Pregnant individuals.
 - Immunocompromised individuals or close contacts of severely immunocompromised individuals (e.g., bone marrow transplant patients in protective isolation).
 - Children 2–4 years with asthma or wheezing in the past 12 months.
 - Severe allergy to any FluMist component.
- **Major teaching:**
 - Avoid in individuals taking aspirin or salicylate-containing medications due to the risk of Reye's syndrome.
 - Mild side effects include runny nose, sore throat, or headache.

Flu Shot (Inactivated Influenza Vaccine - IIV4)

- **Type:** Inactivated vaccine administered via intramuscular injection.
- **Age indications:** Approved for individuals 6 months and older, including pregnant individuals and those with chronic health conditions.
- **Effectiveness:** Provides broad protection against circulating influenza strains; updated yearly to match predicted strains.
- **Contraindications:**
 - Severe allergy to any flu shot component, including egg protein (though egg-free formulations are available).
- **Major teaching:**
 - Common side effects include mild soreness or swelling at the injection site, low-grade fever, or fatigue.
 - Safe for individuals with chronic medical conditions or weakened immune systems.
 - For children <9 years receiving the flu vaccine for the first time, 2 doses are required at least 4 weeks apart.

Key Differences:

Aspect	FluMist (Nasal Spray)	Flu Shot (Injection)
Type of Vaccine	Live attenuated	Inactivated
Route of Administration	Nasal spray	Intramuscular injection
Age Range	2–49 years	6 months and older
Pregnancy Safe?	No	Yes

Aspect	FluMist (Nasal Spray)	Flu Shot (Injection)
Immunocompromised Use?	No	Yes
Common Side Effects	Runny nose, sore throat, headache	Soreness, redness, low-grade fever

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