

2018 CHILDHOOD STANDARD VACCINE SCHEDULE (age birth through 18 years)

| Vaccine | Admin. | Birth | 6wks-2m | 4m | 6m | 12-15m | 18m | 19-23m | 4-6yrs | 11-18yrs | |
|--|-----------|-------|---|-----------------------------------|------------------------------------|------------------------|-----|--------|----------------------------------|--|---------------------------------------|
| Hep B ¹ | 0.5 ml IM | Hep B | | | | | | | | | |
| DTaP ² and Tdap ¹¹ | 0.5 ml IM | | Pediarix [®] 0.5ml IM | Pediarix [®] 0.5ml IM | Pediarix [®] 0.5 ml IM | Infanrix [®] | | | Kinrix [®] 0.5 ml IM | Tdap | |
| IPV ³ | 0.5 ml IM | | | | | | | | | | |
| Rotavirus ⁴ | 2 ml ORAL | | RotaTeq [®] | RotaTeq [®] | RotaTeq [®] | | | | | | |
| Pneumococcal ⁵ | 0.5 ml IM | | Prevnar13 [®] | Prevnar13 [®] | Prevnar13 [®] | Prevnar13 [®] | | | | | |
| Hib ⁶ | 0.5 ml IM | | PedvaxHib [®] | PedvaxHib [®] | | PedvaxHib [®] | | | | | |
| MMR ⁷ | 0.5 ml SQ | | | | | MMR | | | MMR | | |
| Varicella ⁷ | 0.5 ml SQ | | | | | Varivax [®] | | | Varivax [®] | | |
| Hep A ⁸ | 0.5 ml IM | | | | | Hep A | | Hep A | | | |
| HPV ⁹ | 0.5 ml IM | | | | | | | | | Gardasil9 [®] 2 or 3 dose series | |
| Meningococcal ¹⁰ | 0.5 ml IM | | <i>(Meningococcal - 2 months-18 years old high risk¹⁰)</i> | | | | | | | | Menactra [®] 1 or 2 doses |

2018 ADULT STANDARD VACCINE SCHEDULE (age 19 years and older)

| Vaccine | Name(s) | Licensed Age | Admin. | Adult Recommendations |
|-----------------------------|--|------------------|------------|--|
| Tdap and Td ¹¹ | Adacel [®] | 10 yrs to 64 yrs | 0.5 ml IM | Single dose Tdap in lifespan; except give Tdap dose during <i>each</i> pregnancy, preferably during early part of 27-36 weeks gestation. Td every 10 yrs after Tdap. |
| | Boostrix [®] | 10 yrs and older | | |
| Pneumococcal ⁵ | Pneumovax23 [®] | 2 yrs and older | 0.5 ml IM | One dose PPSV23 for AK Native 50-64 years old if no previous PPSV23. Routine single dose PPSV23 for all ≥65 year olds, at least 5 years after previous PPSV23 (if given ≤64 years) & at least 1 year after PCV13. Single dose PCV13 for all ≥65 year olds if no previous PCV13; PCV13 prior to PPSV23 preferred. See footnote ⁵ . |
| | Prevnar13 [®] | 6 wks and older | 0.5 ml IM | |
| Zoster ¹³ | Shingrix [®] | 50 yrs and older | 0.5 ml IM | For immunocompetent adults ≥ 50 years old ¹³ . Two doses, given 2-6 months apart. Give Zostavax [®] (≥60 year olds) or Shingrix [®] , however Shingrix [®] is preferred. |
| | Zostavax [®] | 60 yrs and older | 0.65 ml SQ | For ≥ 60 years old. 1 dose. Contraindicated in immunocompromised & pregnancy. |
| HPV ⁹ | Gardasil9 [®] | 9 yrs to 26 yrs | 0.5 ml IM | Recommended for females through 26 years and males through 21 years; males 22-26 years may receive. Number of doses based on age at first dose, see footnote ⁹ . |
| Meningococcal ¹⁰ | Menactra [®] | 9 mo to 55 yrs | 0.5 ml IM | See footnote ¹⁰ for high risk recommendations, including MenB vaccine. |
| MMR ⁷ | MMR | 12 mo and older | 0.5 ml SQ | One or two doses for adults at least 4 weeks apart, depending upon indication. |
| Varicella ⁷ | Varivax [®] | 12 mo and older | 0.5 ml SQ | Two doses at least 4 weeks apart. |
| Hepatitis B ¹² | RecombivaxHB [®] or Engerix B [®] | birth to 19 yrs | 0.5 ml IM | Three doses for adults at 0, 1, and 6 months. Minimum ≥ 4 weeks between 1 st and 2 nd doses; ≥8 weeks between 2 nd and 3 rd doses; ≥ 16 week between 1 st and 3 rd doses. High risk recommendations, see footnote ¹² . |
| | | 20 yrs and older | 1.0 ml IM | |
| Hepatitis A ¹² | Havrix [®] or Vaqta [®] | 19 yrs and older | 1.0 ml IM | Two doses, at least 6 calendar months apart. High risk recs, see footnote ¹² . |

- 1 Hep B (ped/adol):** first Hep B within 24 hours after birth. Use Pediarix[®] to complete the Hep B series. Final Hep B dose given no earlier than 24 weeks of age, and at least 8 weeks after prior dose & 16 weeks after first dose. A total of four doses of Hep B are permitted when a combination vaccine (Pediarix[®]) is used after birth dose.
- 2 DTaP:** min. age 42 days. Pediarix[®] (DTaP-IPV-Hep B) is used for doses 1, 2 and 3 of DTaP. Don't use Pediarix[®] for DTaP doses 4 and 5 or if child is ≥7 yrs old. Give DTaP dose 4 at 12 mos of age if 6 mos interval after dose 3. Don't need DTaP dose 5 if dose 4 was given ≥4 yrs of age. Kinrix[®] (DTaP-IPV) is for 4 yr-6 yr olds only.
- 3 IPV:** min. age 42 days. Pediarix[®] is used for doses 1, 2 and 3 of IPV. Final IPV dose must be given at 4 years of age or older and at least 6 months after previous dose.
- 4 Rotavirus (RotaTeq[®]):** min. age 42 days. Maximum age for first dose is 14 weeks, 6 days. Don't start series if ≥15 weeks old. Give all doses by age 8 months, 0 days.
- 5 Pneumococcal** High risk recommendations for children and adults: must review [CDC vaccine schedules](#) and additional details in CDC MMWR: [Pneumococcal Vaccine PCV13 \(Prevnar13[®]\): min. 42 days. PPSV23 \(Pneumovax23[®]\) min. 2 yrs.](#) For children and adults with cochlear implant, CSF leak, immunocompromised, HIV, chronic renal failure, nephrotic syndrome, asplenia and other high risk medical conditions such as chronic heart or lung disease, chronic liver disease, cirrhosis, diabetes, asthma (<19 years if treated with high-dose oral steroids), alcoholism, smokers (age ≥19 yrs): must see CDC recommendations to determine specific recommendations.
- 6 Haemophilus influenzae** High risk recommendations for children and adults: must review [CDC vaccine schedules](#) and additional details in CDC MMWR: [Hib Vaccine Hib \(PRP-OMP\) \(PedvaxHib[®]\): min. 42 days.](#) For children and adults with high risk medical conditions such as asplenia, hematopoietic stem cell transplant (HSCT), HIV (age ≤18 yrs), complement component deficiency, immunocompromised: must see CDC recommendations.
- 7 MMR and Varicella:** min. age 12 mos. Second dose of MMR and Varicella routine at 4-6 years old. Give MMR and Varicella to adults with no evidence of immunity, see [CDC vaccine schedules](#). For MMR before international travel or 3rd dose during mumps outbreak or 2nd dose in adults: must review [CDC vaccine schedules](#)
- 8 Hep A (ped):** min. age 12 months. Two doses of Hep A vaccine given at least 6 months apart.
- 9 HPV (Gardasil9[®]):** min age 9 yrs. Routine at 11-12 yrs of age. May start series at 9 yrs of age. If starting/started before age 15 years, 2-dose series, doses 6-12 months apart. If starting/started at age 15 years or older, 3-dose series at 0, 1-2, 6 months. If person age 9-26 years has 2 doses (at least 5 months apart) and started series before age 15 years, they are complete. If series started with 4vHPV, finish series with 9vHPV. Immunocompromised persons receive 3-dose series regardless of age initiation.
- 10 Meningococcal** High risk recommendations for children & adults: must review [CDC vaccine schedules](#) and additional details in CDC MMWR: [Meningococcal Vaccine MenACWY \(Menactra[®]\): min. age 9 mos.](#) Routine for 11-18 year olds. If first dose given at 11-15 yrs old, give booster at 16-18 yrs old (min. interval 8 weeks); if first dose given at ≥16 yrs old, dose 2 not recommended. For high risk age 2 mos & older (includes asplenia, HIV, complement deficiency), must see CDC recommendations. **MenB (Trumenba[®], Bexsero[®]):** MenB is recommended for specific high risk age ≥10 yrs (includes asplenia, complement deficiency), must see CDC recommendations.
- 11 Tdap (Adacel[®], Boostrix[®]):** One dose Tdap routine at 11-12 yrs. Single dose Tdap in lifespan; except give Tdap dose during *each* pregnancy, preferably during early part of 27-36 weeks gestation. One Tdap dose for underimmunized 7-10 year olds. Td every 10 years after single dose of Tdap. Give Tdap regardless of interval from Td.
- 12 Hepatitis (adult):** **Hep B** vaccine for sero-negative unvaccinated adults, high risk includes chronic liver disease, diabetes (age <60 yrs), other exposure risks. **Hep A** vaccine for sero-negative unvaccinated adults, high risk includes chronic liver disease, clotting disorders, MSM, HIV, illicit drug use, travel to high risk countries. High risk recommendations: must review [CDC vaccine schedules](#) and additional details in CDC MMWR: [Hepatitis A and Hepatitis B Vaccine](#)
- 13 Zoster RZV (Shingrix[®]):** Give 2 doses RZV regardless of past episode of herpes zoster or receipt of ZVL (Zostavax[®]). If previous ZVL, give RZV >2 mos after ZVL.

If not given on the same day, there is a 4 week minimum interval between live vaccines (MMR, Varicella, LAIV), and between live vaccines and PPD.

For patients with immunocompromise/risk conditions, consult the CDC vaccine schedules: <http://www.cdc.gov/vaccines/schedules/index.html>

Minimum Intervals for Persons Who Start Late or Who Are >1 Month Behind

Do not restart a vaccine series if extended time has elapsed between doses. Refer to the front page for administration information.

MINIMUM INTERVAL (CATCH UP) VACCINE SCHEDULE (age 4 months through 6 years)

| Dose 1 (Minimum Age) | Dose 1 to Dose 2 | Dose 2 to Dose 3 | Dose 3 to Dose 4 | Dose 4 to 5 |
|---|--|---|--|-------------|
| Hep B ¹ (birth) | 4 weeks | 8 weeks and ≥16 weeks after 1st dose and minimum age ≥24 weeks | | |
| DTaP ² (6 weeks) | 4 weeks | 4 weeks | 6 months | 6 months |
| IPV ³ (6 weeks) | 4 weeks | 4 weeks | 6 months and minimum age 4 yrs for final dose | |
| RotaTeq [®] (6 weeks) Don't start if ≥ 15 weeks | 4 weeks Don't give if 8 months 0 days or older | 4 weeks Don't give if 8 months 0 days or older | | |
| PedvaxHib ^{® 4} (6 weeks) | 4 weeks: if 1 st dose given at <12 months 8 weeks (as final dose): if 1 st dose given at age 12 through 14 months No further doses needed: if first dose given at age ≥15 months | 8 weeks and age 12 through 59 months (as final dose) if both previous doses were given <12 months No further doses needed: if previous dose at age ≥15 months | | |
| Prevnar13 ^{® 5} (6 weeks) | 4 weeks: if 1 st dose given at <12 months 8 weeks (as final dose for healthy children): if 1 st dose given at age ≥12 months No further doses needed: for healthy children if 1 st dose given at age ≥24 months | 4 weeks: if current age <12 months and previous dose given at <7 months old 8 weeks (as final dose for healthy children): if current age ≥12 months and ≥ one dose given before age 12 months; OR if previous dose given between age 7 mos-11 months (wait until at least 12 months old) No further doses needed: for healthy children if previous dose given at age ≥24 months | 8 weeks (final dose): this dose is only needed for children age 12 through 59 months who received 3 doses before age 12 months or for high risk children who received 3 doses at any age | |
| MMR ⁶ (12 months) | 4 weeks | | | |
| Varicella ⁸ (12 months) | 3 months (don't repeat if given at least 4 wks apart). | | | |
| Hep A ¹ (12 months) | 6 months | | | |

MINIMUM INTERVAL (CATCH UP) VACCINE SCHEDULE (age 7 years and older)

| | Dose 1 (Minimum Age) | Dose 1 to Dose 2 | Dose 2 to Dose 3 | Dose 3 to Booster Dose |
|--------------------------|---|---|---|---|
| Tdap and Td ⁷ | 7 years if DTaP incomplete, give 1 Tdap, then Td to complete primary series | 4 weeks | 4 weeks if 1 st dose of DTaP/DT at <12 months 6 months (as final dose) if 1 st dose of DTaP/DT or Tdap/Td at age ≥12 mos | 6 months if 1 st dose of DTaP/DT at <12 months |
| IPV ³ | Not Applicable (N/A) | 4 weeks | 4 weeks | 6 months |
| Hep B ¹ | N/A | 4 weeks | 8 weeks (and ≥16 weeks after 1 st dose) | |
| Hep A ¹ | N/A | 6 months | | |
| Gardasil9 ^{®10} | 9 years (standard intervals preferred) | 5 months (as final dose) if 1 st dose given age <15 years 4 weeks if 1 st dose given age ≥15 years | 12 weeks (as final dose) if 1 st dose given age ≥15 yrs (and ≥5 months after 1 st dose) No further doses needed if started series at age <15 years and has 2 doses ≥5 months apart | |
| MMR ⁶ | N/A | 4 weeks | | |
| Menactra ^{®9} | N/A | 8 weeks if 1 st dose given age ≤15 yrs | | |
| Varicella ⁸ | N/A | 3 months (don't repeat if ≥4wk) 4 wks if first dose given ≥13 yr | | |

- Hepatitis: Hep B (ped/adol)** For children through age 18 years who have not received Hep B containing vaccine should complete the hepatitis B series. **Hep A (ped)** Two doses of Hep A vaccine given at least 6 months apart. **Hep B (adult) and Hep A (adult)** For adult recommendations, see footnote 12 on other side.
- DTaP:** Fifth dose is not necessary if the fourth dose was given on/after the 4th birthday. Don't give DTaP to persons ≥7 years old.
- IPV:** Final dose should be given on/after the 4th birthday. The fourth dose is not necessary if third dose was given at ≥4 years old, minimum 6 months from previous dose.
- Hib (PedvaxHib[®]):** For unvaccinated children aged 15 through 59 months, give one dose. For child and adult high risk recommendations, see footnote 6 on other side.
- PCV13 (Prevnar13[®]):** For additional details about childhood and adult routine and high risk recommendations for PCV13 and PPSV23, see footnote 5 on other side.
- MMR:** Give the two dose series to all children 12 months through 18 years of age. Second dose is recommended routinely at 4-6 years old. For adult recommendations for MMR or for international travel or for third dose of MMR during mumps outbreak, see footnote 7 on other side.
- Tdap & Td:** One dose Tdap at age ≥11 yrs, regardless of interval from Td or DTaP. Td should be given every 10 years after single Tdap dose. Give Tdap dose during each pregnancy, preferably during early part of 27-36 weeks gestation.
- Varicella (Varivax[®]):** Give the two dose series to all children 12 months through 18 years of age. Second dose recommended routinely at 4-6 years old. For adult recommendations for Varicella, see footnote 7 on other side.
- MenACWY (Menactra[®]):** If first dose given at 11-15 yrs old, give booster at 16-18 yrs old (min. interval 8 weeks); if first dose given at ≥16 yrs old, no further doses.
- HPV (Gardasil9[®]):** Persons age 9-26 years with 2 doses who started the series before age 15 years and received the 2nd dose less than 5 months after 1st dose should receive a third dose at least 12 weeks after 2nd dose and at least 5 months after 1st dose. For immunocompromised and additional guidance, see footnote 9 on other side.

If not given on the same day, there is a 4 week minimum interval between live vaccines (MMR, Varicella, LAIV), and between live vaccines and PPD.

For patients with immunocompromise/risk conditions, consult the CDC vaccine schedules: <http://www.cdc.gov/vaccines/schedules/index.html>